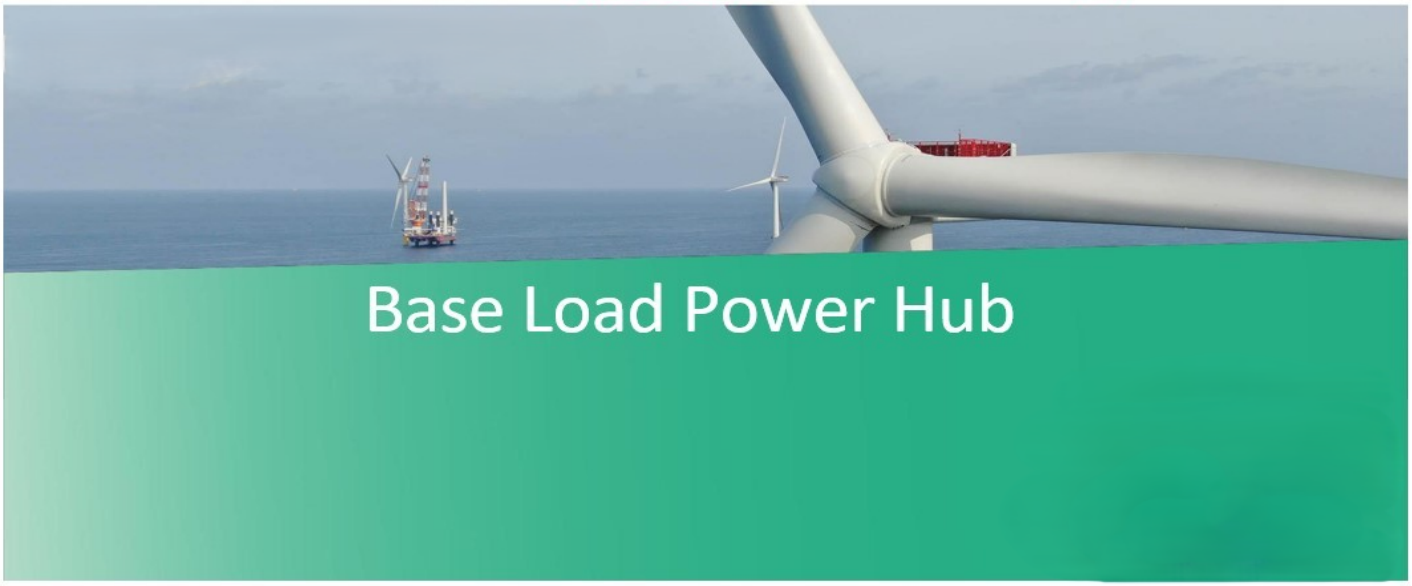
CROSSWIND

ROSETTI MARINO

PROVERLIS

PROJECT **123A90 - HOLLANDSE KUST NOORD WIND PARK**
BLPH Project



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36 Emergency Lighting Lower Deck

CROSSWIND	123A90 - HOLLANDSE KUST NOORD WIND PARK BLPH Project MECHANICAL COMPLETION DOSSIER INDEX	ROSETTI MARINO

Sub System N°:	83-36	Tick as appropriate	ONSHORE	O
Description:	Emergency Lighting Lower Deck		OFFSHORE	NA

1.	***READY FOR COMMISSIONING CERTIFICATE*** *Ready For Commissioning Certificate (RFC)*	O
2.	***CONSOLIDATED PUNCH LISTS*** *Cleared and Residual Items*	O
3.	***SYSTEM/SUB-SYSTEM LIMIT DRAWINGS*** *Mark-up drawings showing the limits of the relevant System/Sub-System*	O
4.	***MECHANICAL COMPLETION STATUS INDEX – BUILDING DISCIPLINE*** *Building Sub-System Status Index (Print out) and Check/Test sheets*	NA
5.	***MECHANICAL COMPLETION STATUS INDEX – ELECTRICAL DISCIPLINE*** *Electrical Sub-System Status Index (Print out) and Check/Test Sheets* *Hazardous Area Equipment Detailed Inspection*	O
6.	***MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE*** *Instrumental Sub-System Status Index (Print out) and Check/Test Sheets*	NA
7.	***MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE*** *Mechanical SubSystem Status Index (Print out) and Check/Test Sheets*	NA
8.	***MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE*** *Telecommunication Sub-System Status Index (Print out) and Check/Test Sheets*	NA
9.	***MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE*** *HVAC Sub-System Status Index (Print out) and Check/Test Sheets*	NA
10.	***MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE*** *Piping Sub-System Status Index and Check/Test Sheets*	NA
11.	***MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE*** *Safety Sub-System Status Index (Print out) and Check/Test Sheets*	NA
12.	***FAT / VENDOR REPORTS*** *Fat reports issued by vendors and/or vendor reports*	NA
13.	***MECHANICAL COMPLETION CHANGES / MARK-UPS*** *A copy of the changes initiated during the Mechanical Completion process pertaining to the relevant Sub-System will be incorporated in this section*	NA

Note: Under the generic terminology “Building” are also covered the following disciplines: **Structural, Painting**

Under the generic terminology “Instrumental” is also covered the following discipline: **Fire & Gas**

ROSETTI MARINO

123A90 - HOLLANDSE KUST NOORD WIND PARK
BLPH Project

CROSSWIND

Ready For Commissioning (RFC) Certificate

COMPLETE	●	PARTIAL	

Revision:	2		Issued on:	2025-05-20	
System:	83	/	Main Power Distribution Low Voltage 440 V		
SubSystem:	83-36	/	Emergency Lighting Lower Deck		

1	COMPANY has, at its option and if required, reviewed the mechanical completion associated with the above-named system/sub-system of the SCOPE and observed that such functional sub-system has been brought into readiness for commencement of the associated pre-commissioning and commissioning activities, but for the outstanding punch list items, if any, attached and referred in this Certificate.
2	Issuance of this Certificate shall not release CONTRACTOR from any of his obligations, responsibilities or liabilities under the CONTRACT.
3	Mechanical Completion Status Index attached (per Discipline) Punch List report attached (Outstanding and Cleared)

PUNCH LIST	PENDING POINTS	
Note: All Category "A" Items must be cleared prior to issue a Ready For Commissioning (RFC) Certificate	A '0	B '0

REMARKS: ONSHORE SOW completed, n. 1 outstanding tasks to be cleared in OFFSHORE phase.

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Anthony Iveson	Witness waived	CPY NOT PRESENT
Date	2025-05-20	2025-05-21	2025-05-21	2025-05-21
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2025-05-20T11:52:52.667Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-05-21T06:59:56.833Z	PROVERLIS Digitaly signed by Witness waived 2025-05-21T07:52:44.061Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-05-21T07:52:52.483Z

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-36 & process: MC

Electrical	83-36 Emergency Lighting Lower Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
C-ELS-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting JB	ONSHORE	C10000818	CPX09	100	2025-04-24	RFC 2
EJB-200N1-09-L2-01	JB Emergency Lighting Lower Deck - Circuit No. 1	ONSHORE	C10001298	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-02	JB - EMERGENCY LIGHTING	ONSHORE	C10001299	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-04	JB - EMERGENCY LIGHTING	ONSHORE	C10001301	CPX31	100	2024-12-13	RFC 2
EJB-200N1-09-L2-05	JB - EMERGENCY LIGHTING	ONSHORE	C10001235	CPX31	100	2025-01-13	RFC 2
EJB-200N1-09-L2-06	JB - EMERGENCY LIGHTING	ONSHORE	C10001236	CPX31	100	2025-01-17	RFC 2
EJB-200N1-09-L2-07	JB - EMERGENCY LIGHTING	ONSHORE	C10001237	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-08	JB - EMERGENCY LIGHTING	ONSHORE	C10001238	CPX31	100	2024-12-11	RFC 2
EJB-200N1-09-L2-09	JB - EMERGENCY LIGHTING	ONSHORE	C10001239	CPX31	100	2025-01-16	RFC 2
EJB-200N1-09-L2-10	JB - EMERGENCY LIGHTING	ONSHORE	C10001240	CPX31	100	2025-01-16	RFC 2
EJB-200N1-09-L2-11	JB - EMERGENCY LIGHTING	ONSHORE	C10001241	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-12	JB - EMERGENCY LIGHTING	ONSHORE	C10001242	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-13	JB - EMERGENCY LIGHTING	ONSHORE	C10001243	CPX31	100	2024-12-07	RFC 2
EJB-200N1-09-L2-14	JB - EMERGENCY LIGHTING	ONSHORE	C10001244	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-15	JB - EMERGENCY LIGHTING	ONSHORE	C10001245	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-16	JB - EMERGENCY LIGHTING	ONSHORE	C10001246	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-17	JB - EMERGENCY LIGHTING	ONSHORE	C10001336	CPX31	100	2025-04-28	RFC 2
ELF-200N1-09-L2-01	EMERGENCY LIGHT	ONSHORE	C10001401	CPX00	100	2024-12-12	RFC 2
ELF-200N1-09-L2-02	EMERGENCY LIGHT	ONSHORE	C10001402	CPX00	100	2024-12-17	RFC 2
ELF-200N1-09-L2-03	EMERGENCY LIGHT	ONSHORE	C10001403	CPX00	100	2024-12-12	RFC 2
ELF-200N1-09-L2-04	EMERGENCY LIGHT	ONSHORE	C10001404	CPX00	100	2025-01-13	RFC 2
ELF-200N1-09-L2-05	EMERGENCY LIGHT	ONSHORE	C10001405	CPX00	100	2024-12-13	RFC 2
ELF-200N1-09-L2-06	EMERGENCY LIGHT	ONSHORE	C10001406	CPX00	100	2025-01-13	RFC 2
ELF-200N1-09-L2-07	EMERGENCY LIGHT	ONSHORE	C10001407	CPX00	100	2024-12-13	RFC 2
ELF-200N1-09-L2-08	EMERGENCY LIGHT	ONSHORE	C10001408	CPX00	100	2025-01-16	RFC 2
ELF-200N1-09-L2-09	EMERGENCY LIGHT	ONSHORE	C10001409	CPX00	100	2024-12-19	RFC 2
ELF-200N1-09-L2-10	EMERGENCY LIGHT	ONSHORE	C10001414	CPX00	100	2025-01-16	RFC 2
ELF-200N1-09-L2-11	EMERGENCY LIGHT	ONSHORE	C10001415	CPX00	100	2024-12-17	RFC 2
ELF-200N1-09-L2-12	EMERGENCY LIGHT	ONSHORE	C10001410	CPX00	100	2024-12-06	RFC 2

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-36 & process: MC

Electrical	83-36 Emergency Lighting Lower Deck

ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
ELF-200N1-09-L2-13	EMERGENCY LIGHT	ONSHORE	C10001411	CPX00	100	2025-01-13	RFC 2
ELF-200N1-09-L2-14	EMERGENCY LIGHT	ONSHORE	C10001412	CPX00	100	2024-12-16	RFC 2
ELF-200N1-09-L2-15	EMERGENCY LIGHT	ONSHORE	C10001413	CPX00	100	2024-12-04	RFC 2
ELF-200N1-09-L2-16	EMERGENCY LIGHT	ONSHORE	C10001416	CPX00	100	2024-12-04	RFC 2
ELF-200N1-09-L2-17	EMERGENCY LIGHT	ONSHORE	C10001417	CPX00	100	2024-12-04	RFC 2
ELF-200N1-09-L2-18	EMERGENCY LIGHT	ONSHORE	C10001418	CPX00	100	2024-12-12	RFC 2
ELF-200N1-09-L2-19	EMERGENCY LIGHT	ONSHORE	C10001419	CPX00	100	2025-01-07	RFC 2
ELF-200N1-09-L2-20	EMERGENCY LIGHT	ONSHORE	C10001420	CPX00	100	2025-01-07	RFC 2
ELF-200N1-09-L2-21	EMERGENCY LIGHT	ONSHORE	C10001421	CPX00	100	2024-12-16	RFC 2
ELF-200N1-09-L2-22	EMERGENCY LIGHT	ONSHORE	C10001422	CPX00	100	2024-12-04	RFC 2
ELF-200N1-09-L2-23	EMERGENCY LIGHT	ONSHORE	C10001423	CPX00	100	2024-12-06	RFC 2
ELF-200N1-09-L2-24	EMERGENCY LIGHT	ONSHORE	C10001424	CPX00	100	2025-04-28	RFC 2
ELF-200N1-09-L2-25	EMERGENCY LIGHT	ONSHORE	C10001425	CPX00	100	2025-04-28	RFC 2
ELF-200N1-09-L2-26	Emergency Lighting Fixture	ONSHORE	C10004714	CPX00	100	2025-01-17	RFC 2
ELF-200N1-09-L2-27	Emergency Lighting Fixture	ONSHORE	C10004715	CPX00	100	2025-01-17	RFC 2
ELS-200N1-09-L2-01	Local Switch	ONSHORE	C10003048	CPX00	100	2025-04-24	RFC 2
P-EJB-200N1-09-L2-01	Lighting & Small Power DB BoP / Emergency Lighting Lower Deck - Circuit No. 1	ONSHORE	C10000611	CPX09	100	2024-12-03	RFC 2
P-EJB-200N1-09-L2-02	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000778	CPX09	100	2024-12-12	RFC 2
P-EJB-200N1-09-L2-04	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000784	CPX09	100	2024-12-11	RFC 2
P-EJB-200N1-09-L2-05	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000788	CPX09	100	2025-01-13	RFC 2
P-EJB-200N1-09-L2-06	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000790	CPX09	100	2025-01-13	RFC 2
P-EJB-200N1-09-L2-07	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000792	CPX09	100	2024-12-20	RFC 2
P-EJB-200N1-09-L2-08	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000794	CPX09	100	2024-12-13	RFC 2
P-EJB-200N1-09-L2-09	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000796	CPX09	100	2025-01-16	RFC 2
P-EJB-200N1-09-L2-10	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000798	CPX09	100	2024-12-11	RFC 2
P-EJB-200N1-09-L2-11	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000800	CPX09	100	2024-12-12	RFC 2
P-EJB-200N1-09-L2-12	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000802	CPX09	100	2024-12-11	RFC 2
P-EJB-200N1-09-L2-13	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000804	CPX09	100	2024-12-13	RFC 2
P-EJB-200N1-09-L2-14	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000806	CPX09	100	2024-12-12	RFC 2

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-36 & process: MC

Electrical	83-36 Emergency Lighting Lower Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
P-EJB-200N1-09-L2-15	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000808	CPX09	100	2024-12-12	RFC 2
P-EJB-200N1-09-L2-16	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000810	CPX09	100	2024-12-13	RFC 2
P-EJB-200N1-09-L2-17	Emergency Lighting JB / Local Switch	ONSHORE	C10002065	CPX09	100	2025-02-27	-
		OFFSHORE	C10004690	CPX09	0	-	-
P-ELF-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000774	CPX09	100	2024-12-12	RFC 2
P-ELF-200N1-09-L2-02	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000775	CPX09	100	2024-12-17	RFC 2
P-ELF-200N1-09-L2-03	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000779	CPX09	100	2024-12-12	RFC 2
P-ELF-200N1-09-L2-04	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000780	CPX09	100	2025-01-13	RFC 2
P-ELF-200N1-09-L2-05	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000782	CPX09	100	2024-12-13	RFC 2
P-ELF-200N1-09-L2-06	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000783	CPX09	100	2025-01-13	RFC 2
P-ELF-200N1-09-L2-07	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000785	CPX09	100	2024-12-13	RFC 2
P-ELF-200N1-09-L2-08	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000786	CPX09	100	2025-01-16	RFC 2
P-ELF-200N1-09-L2-09	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000787	CPX09	100	2024-12-19	RFC 2
P-ELF-200N1-09-L2-10	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000777	CPX09	100	2025-01-16	RFC 2
P-ELF-200N1-09-L2-11	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000776	CPX09	100	2024-12-17	RFC 2
P-ELF-200N1-09-L2-12	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000789	CPX09	100	2024-12-13	RFC 2
P-ELF-200N1-09-L2-13	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000791	CPX09	100	2025-01-13	RFC 2
P-ELF-200N1-09-L2-14	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000793	CPX09	100	2024-12-11	RFC 2
P-ELF-200N1-09-L2-15	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000795	CPX09	100	2024-12-27	RFC 2
P-ELF-200N1-09-L2-16	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000797	CPX09	100	2024-12-27	RFC 2
P-ELF-200N1-09-L2-17	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000799	CPX09	100	2024-12-28	RFC 2
P-ELF-200N1-09-L2-18	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000801	CPX09	100	2024-12-12	RFC 2
P-ELF-200N1-09-L2-19	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000803	CPX09	100	2025-01-02	RFC 2
P-ELF-200N1-09-L2-20	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000805	CPX09	100	2025-01-02	RFC 2
P-ELF-200N1-09-L2-21	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000807	CPX09	100	2024-12-16	RFC 2
P-ELF-200N1-09-L2-22	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000809	CPX09	100	2024-12-28	RFC 2
P-ELF-200N1-09-L2-23	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000811	CPX09	100	2024-12-13	RFC 2
P-ELF-200N1-09-L2-24	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000819	CPX09	100	2025-04-24	RFC 2
P-ELF-200N1-09-L2-25	Emergency Lighting Fixture / Emergency Lighting Fixture	ONSHORE	C10000820	CPX09	100	2025-04-28	RFC 2

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-36 & process: MC

Electrical	83-36 Emergency Lighting Lower Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
P-ELF-200N1-09-L2-26	Emergency Lighting JB/Emergency Lighting Fixture	ONSHORE	C10004718	CPX09	100	2025-01-17	RFC 2
P-ELF-200N1-09-L2-27	Emergency Lighting JB/Emergency Lighting Fixture	ONSHORE	C10004719	CPX09	100	2025-01-17	RFC 2

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001254	A	ELF-200N1-09-L2-15 C10001413	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (Waterproof washer is missing between cable	.		Lmussi 2024-12-04	2024-12-18	Ecarotenuto 2024-12-18	2024-12-18
C30001260	A	ELF-200N1-09-L2-16 C10001416	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (Waterproof washer is missing between cable	.		Lmussi 2024-12-04	2024-12-18	Ecarotenuto 2024-12-18	2024-12-18
C30001262	A	ELF-200N1-09-L2-17 C10001417	Earthing cable is missing	.		Lmussi 2024-12-04	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001263	A	ELF-200N1-09-L2-17 C10001417	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-04	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001268	A	ELF-200N1-09-L2-22 C10001422	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (adapter between light and cable gland is	.		Lmussi 2024-12-04	2025-01-17	Gtangianu 2025-01-17	2025-01-17
C30001269	A	ELF-200N1-09-L2-16 C10001416	Missing jumper between terminations 2 and 4 as per 123A90-DDL-EL-DG-20125	.		Lmussi 2024-12-04	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001781	A	P-ELF-200N1-09-L2-18 C10000801	Missing IP washer between cable galnd and adapter JB side	.		GBertuccelli 2024-12-12	2025-01-16	Ecarotenuto 2025-01-16	2025-01-16
C30001858	A	P-ELF-200N1-09-L2-12 C10000789	missing teflon IP washer beetwen cable gland and adapter	.		AAndreani 2024-12-13	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30002081	A	P-ELF-200N1-09-L2-09 C10000787	Not enought threads are thightened between the lock nut and the cable gland body.	.		AAndreani 2024-12-19	2025-01-23	AAndreani 2025-01-23	2025-01-23

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002088	A	ELF-200N1-09-L2-09 C10001409	The earthing cable passes inside the unistrut and through the fixing holes	.		AAndreani 2024-12-19	2025-01-23	AAndreani 2025-01-23	2025-01-23
C30002094	A	P-EJB-200N1-09-L2-07 C10000792	Not enought threads are thightened between the lock nut and the cable gland body. On both JBs side	.		AAndreani 2024-12-20	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30002283	A	P-ELF-200N1-09-L2-20 C10000805	Adapter ADAP_M20MxM25F (as per cable list) is missing.	.		Lmussi 2025-01-02	2025-01-17	Gtangianu 2025-01-17	2025-01-17
C30002966	A	ELF-200N1-09-L2-08 C10001408	Equipment earth cable is missing.	.		Lmussi 2025-01-16	2025-01-21	AAndreani 2025-01-21	2025-01-21
C30002972	A	P-EJB-200N1-09-L2-09 C10000796	Not enought threads are thightened between the lock nut and the cable gland body. on EJB-200NA--09-L2-10 side	.		AAndreani 2025-01-16	2025-01-20	Lmussi 2025-01-20	2025-01-20
C30001144	B	P-EJB-200N1-09-L2-01 C10000611	Missing SS cable tags	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001145	B	P-EJB-200N1-09-L2-01 C10000611	Missing core identification tags inside JB	.		Pschintu 2024-12-03	2024-12-11	Pschintu 2024-12-11	2024-12-11
C30001253	B	ELF-200N1-09-L2-15 C10001413	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-04	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001255	B	ELF-200N1-09-L2-15 C10001413	Tag is missing	.		Lmussi 2024-12-04	2024-12-19	Lmussi 2024-12-19	2024-12-19

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001256	B	ELF-200N1-09-L2-15 C10001413	Waterproof washer is missing on the plug.	.		Lmussi 2024-12-04	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001257	B	ELF-200N1-09-L2-16 C10001416	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		Lmussi 2024-12-04	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001258	B	ELF-200N1-09-L2-16 C10001416	Tag is missing	.		Lmussi 2024-12-04	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001259	B	ELF-200N1-09-L2-16 C10001416	Waterproof washer is missing on the plug	.		Lmussi 2024-12-04	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001261	B	ELF-200N1-09-L2-17 C10001417	Tag is missing	.		Lmussi 2024-12-04	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001264	B	ELF-200N1-09-L2-17 C10001417	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-04	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001265	B	ELF-200N1-09-L2-22 C10001422	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-04	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001266	B	ELF-200N1-09-L2-22 C10001422	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		Lmussi 2024-12-04	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001267	B	ELF-200N1-09-L2-22 C10001422	Waterproof washer is missing on the plug	.		Lmussi 2024-12-04	2025-01-20	GBertuccelli 2025-01-20	2025-01-20

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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001480	B	ELF-200N1-09-L 2-23 C10001423	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-06	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001481	B	ELF-200N1-09-L 2-23 C10001423	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-06	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001482	B	ELF-200N1-09-L 2-23 C10001423	Waterproof washer is missing on the plug	.		AAndreani 2024-12-06	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001483	B	ELF-200N1-09-L 2-23 C10001423	missing plug on pole support of light	.		AAndreani 2024-12-06	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001484	B	ELF-200N1-09-L 2-23 C10001423	missing tag	.		AAndreani 2024-12-06	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001486	B	ELF-200N1-09-L 2-12 C10001410	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-06	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001488	B	ELF-200N1-09-L 2-12 C10001410	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-06	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001491	B	ELF-200N1-09-L 2-12 C10001410	Waterproof washer is missing on the plug	.		AAndreani 2024-12-06	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001492	B	ELF-200N1-09-L 2-12 C10001410	missing plug on pole support of light	.		AAndreani 2024-12-06	2025-01-20	GBertuccelli 2025-01-20	2025-01-20

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001493	B	ELF-200N1-09-L2-12 C10001410	missing tag	.		AAndreani 2024-12-06	2024-12-30	Ecarotenuto 2024-12-30	2024-12-30
C30001517	B	EJB-200N1-09-L2-13 C10001243	missing plug on spare entry	.		AAndreani 2024-12-07	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001662	B	P-EJB-200N1-09-L2-04 C10000784	missing cable labelling on both EJB-200N1-L2-01 and EJB-200N1-L2--04 side	.		AAndreani 2024-12-11	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001663	B	P-EJB-200N1-09-L2-04 C10000784	Core tag is missing for cable on EJB-200N1-09-L2-04 side and wrong on EJB-200N1-09-L2-01	.		AAndreani 2024-12-11	2025-01-13	Ecarotenuto 2025-01-13	2025-01-13
C30001664	B	EJB-200N1-09-L2-08 C10001238	missing plug on spare entry	.		AAndreani 2024-12-11	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001669	B	P-ELF-200N1-09-L2-14 C10000793	missing cable labelling on both EJB-200N1-09-L2-14 side and EJB-200N1-09-L2-15 side	.		AAndreani 2024-12-11	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001671	B	P-ELF-200N1-09-L2-14 C10000793	Core tag is missing for cable on both EJB-200N1-09-L2-14 side and EJB-200N1-09-L2-15 side	.		AAndreani 2024-12-11	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001673	B	P-EJB-200N1-09-L2-12 C10000802	missing cable labelling on both EJB-200N1-09-L2-02 side and EJB-200N1-09-L2-12 side	.		AAndreani 2024-12-11	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30001674	B	P-EJB-200N1-09-L2-12 C10000802	Core tag is missing for cable on both EJB-200N1-09-L2-02 side and EJB-200N1-09-L2-12 side	.		AAndreani 2024-12-11	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24

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Electrical

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C30001675	B	P-EJB-200N1-09-L2-10 C10000798	missing cable labelling on both EJB-200N1-09-L2-11 side and EJB-200N1-09-L2-10 side	.		AAndreani 2024-12-11	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001676	B	P-EJB-200N1-09-L2-10 C10000798	Core tag is missing for cable on both EJB-200N1-09-L2-11 side and EJB-200N1-09-L2-10 side	.		AAndreani 2024-12-11	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001734	B	P-ELF-200N1-09-L2-01 C10000774	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-12	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001735	B	P-ELF-200N1-09-L2-01 C10000774	missing cable labelling on both JB and light side	.		AAndreani 2024-12-12	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30001736	B	P-ELF-200N1-09-L2-01 C10000774	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-12	2025-01-21	AAndreani 2025-01-21	2025-01-21
C30001738	B	ELF-200N1-09-L2-01 C10001401	Trafolite tag is missing	.		AAndreani 2024-12-12	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001739	B	ELF-200N1-09-L2-01 C10001401	missing tag	.		AAndreani 2024-12-12	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30001742	B	EJB-200N1-09-L2-01 C10001298	missing terminal block identification	.		AAndreani 2024-12-12	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001743	B	EJB-200N1-09-L2-01 C10001298	silicone not cover completely the rivets of tag and dataplate not, IP not guarantee	.		AAndreani 2024-12-12	2025-02-06	AAndreani 2025-02-06	2025-02-06

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C30001744	B	P-EJB-200N1-09-L2-02 C10000778	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-12	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001747	B	P-EJB-200N1-09-L2-02 C10000778	missing cable labelling on both JB and light side	.		AAndreani 2024-12-12	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001749	B	P-ELF-200N1-09-L2-03 C10000779	missing cable labelling on both JB and light side	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001750	B	P-ELF-200N1-09-L2-03 C10000779	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-12	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001753	B	ELF-200N1-09-L2-03 C10001403	tag is missing	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001754	B	ELF-200N1-09-L2-03 C10001403	Trafolite tag is missing	.		AAndreani 2024-12-12	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001757	B	ELF-200N1-09-L2-03 C10001403	missing black plastic piece between cover and glass of the light	.		AAndreani 2024-12-12	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30001760	B	P-EJB-200N1-09-L2-15 C10000808	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001762	B	P-EJB-200N1-09-L2-15 C10000808	missing cable labelling on both JBs side	.		AAndreani 2024-12-12	2025-01-24	Lmussi 2025-01-24	2025-01-24

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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001767	B	P-EJB-200N1-09-L2-14 C10000806	missing cable labelling on both JBs side	.		AAndreani 2024-12-12	2025-01-25	Ecarotenuto 2025-01-25	2025-01-25
C30001768	B	P-EJB-200N1-09-L2-14 C10000806	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001774	B	EJB-200N1-09-L2-12 C10001242	missing terminal block identification	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001778	B	P-ELF-200N1-09-L2-18 C10000801	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-12	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001779	B	P-ELF-200N1-09-L2-18 C10000801	Cable is entering the Light cable gland downwards while it should be upwards	.		GBertuccelli 2024-12-12	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001780	B	P-ELF-200N1-09-L2-18 C10000801	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-12	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001782	B	ELF-200N1-09-L2-18 C10001418	The support is not well secured against vibration. another support needs to be added	.		GBertuccelli 2024-12-12	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001783	B	P-EJB-200N1-09-L2-11 C10000800	missing cable labelling on both JBs side	.		AAndreani 2024-12-12	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001784	B	P-EJB-200N1-09-L2-11 C10000800	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-12	2025-02-06	AAndreani 2025-02-06	2025-02-06

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001826	B	EJB-200N1-09-L2-04 C10001301	Plugs are installed without serrated washer	.		GBertuccelli 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001828	B	P-EJB-200N1-09-L2-08 C10000794	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001829	B	P-EJB-200N1-09-L2-08 C10000794	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001830	B	EJB-200N1-09-L2-02 C10001299	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	Gtangianu 2024-12-28	2024-12-28
C30001831	B	EJB-200N1-09-L2-01 C10001298	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	Gtangianu 2024-12-28	2024-12-28
C30001832	B	EJB-200N1-09-L2-16 C10001246	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001833	B	EJB-200N1-09-L2-15 C10001245	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001834	B	EJB-200N1-09-L2-14 C10001244	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001835	B	P-EJB-200N1-09-L2-13 C10000804	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001836	B	P-EJB-200N1-09-L2-13 C10000804	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30001837	B	ELF-200N1-09-L2-03 C10001403	missing screw between enclosure and internal din rail, also missing the earthing continuity wire	.		AAndreani 2024-12-13	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001838	B	EJB-200N1-09-L2-13 C10001243	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001839	B	EJB-200N1-09-L2-12 C10001242	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001840	B	EJB-200N1-09-L2-11 C10001241	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001841	B	P-EJB-200N1-09-L2-16 C10000810	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001842	B	EJB-200N1-09-L2-08 C10001238	Plugs are installed without serrated washer	,		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001843	B	P-EJB-200N1-09-L2-16 C10000810	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001844	B	EJB-200N1-09-L2-07 C10001237	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2025-01-20	GBertuccelli 2025-01-20	2025-01-20

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C30001850	B	P-ELF-200N1-09-L2-05 C10000782	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2024-12-19	GBertuccelli 2024-12-19	2024-12-19
C30001851	B	P-ELF-200N1-09-L2-05 C10000782	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001853	B	P-ELF-200N1-09-L2-12 C10000789	missing cable labelling on light side	.		AAndreani 2024-12-13	2025-01-25	Ecarotenuto 2025-01-25	2025-01-25
C30001854	B	P-ELF-200N1-09-L2-12 C10000789	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-13	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001855	B	P-ELF-200N1-09-L2-12 C10000789	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-13	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001856	B	P-EJB-200N1-09-L2-13 C10000804	Bending radius of the cable to be correct on cable gland ingress under JB EJB-200N1-09-L2-12	.		GBertuccelli 2024-12-13	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30001857	B	P-ELF-200N1-09-L2-07 C10000785	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001859	B	P-ELF-200N1-09-L2-07 C10000785	Cable is entering the Light cable gland downwards while it should be upwards	.		GBertuccelli 2024-12-13	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001860	B	P-ELF-200N1-09-L2-07 C10000785	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-30	AAndreani 2025-01-30	2025-01-30

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C30001861	B	P-ELF-200N1-09-L2-23 C10000811	missing cable labelling on light side	.		AAndreani 2024-12-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30001862	B	P-ELF-200N1-09-L2-23 C10000811	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-13	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001863	B	P-ELF-200N1-09-L2-23 C10000811	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-13	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001864	B	ELF-200N1-09-L2-05 C10001405	Tag is missing	.		GBertuccelli 2024-12-13	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001865	B	ELF-200N1-09-L2-07 C10001407	Trafolite tag is missing	.		AAndreani 2024-12-13	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001866	B	ELF-200N1-09-L2-05 C10001405	Trafolite tag is missing	.		GBertuccelli 2024-12-13	2024-12-30	Ecarotenuto 2024-12-30	2024-12-30
C30001867	B	ELF-200N1-09-L2-07 C10001407	tag is missing	.		AAndreani 2024-12-13	2025-01-31	AAndreani 2025-01-31	2025-01-31
C30001868	B	ELF-200N1-09-L2-05 C10001405	Missing one screw on cover of the light	.		GBertuccelli 2024-12-13	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001869	B	ELF-200N1-09-L2-05 C10001405	Plastic plugs are installed	.		GBertuccelli 2024-12-13	2025-01-20	GBertuccelli 2025-01-20	2025-01-20

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001870	B	ELF-200N1-09-L2-07 C10001407	The support is not well secured against vibration	.		AAndreani 2024-12-13	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001871	B	ELF-200N1-09-L2-05 C10001405	Black plastic piece of the cover is missing	.		GBertuccelli 2024-12-13	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30001872	B	ELF-200N1-09-L2-05 C10001405	Light clash with scaffolding. Need to be checked after removing scaffolding	.		GBertuccelli 2024-12-13	2025-03-25	Gtangianu 2025-03-25	2025-03-25
C30001912	B	ELF-200N1-09-L2-14 C10001412	Trafolite tag is missing	.		AAndreani 2024-12-16	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001913	B	ELF-200N1-09-L2-14 C10001412	Tag is missing	.		AAndreani 2024-12-16	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001914	B	ELF-200N1-09-L2-14 C10001412	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-16	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001922	B	ELF-200N1-09-L2-21 C10001421	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-16	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001923	B	ELF-200N1-09-L2-21 C10001421	Trafolite tag is missing	.		AAndreani 2024-12-16	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001924	B	ELF-200N1-09-L2-21 C10001421	Tag is missing	.		AAndreani 2024-12-16	2024-12-19	Lmussi 2024-12-19	2024-12-19

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SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001930	B	P-ELF-200N1-09-L2-21 C10000807	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-16	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001931	B	P-ELF-200N1-09-L2-21 C10000807	Cable is entering the Light cable gland downwards while it should be upwards	.		GBertuccelli 2024-12-16	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001933	B	P-ELF-200N1-09-L2-21 C10000807	missing cable labelling on light side	.		GBertuccelli 2024-12-16	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30001934	B	P-ELF-200N1-09-L2-21 C10000807	Present earthing tag on cable gland light side	.		GBertuccelli 2024-12-16	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001940	B	ELF-200N1-09-L2-02 C10001402	Trafolite tag is missing	.	Installed.	AAndreani 2024-12-17	Gtangianu 2025-03-08	Gtangianu 2025-03-08	2025-03-08
C30001941	B	ELF-200N1-09-L2-02 C10001402	The support is not well secured against vibration	.		AAndreani 2024-12-17	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001942	B	ELF-200N1-09-L2-11 C10001415	Identification tag is missing	.		Lmussi 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001943	B	P-ELF-200N1-09-L2-02 C10000775	Bending radius of the cable to be correct on cable gland ingress under JB and on cable gland light side	.		AAndreani 2024-12-17	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30001944	B	P-ELF-200N1-09-L2-02 C10000775	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-17	2024-12-19	AAndreani 2024-12-19	2024-12-19

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SYSTEM	83	Main Power Distribution Low Voltage 440 V
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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001945	B	P-ELF-200N1-09-L2-02 C10000775	missing cable labelling on both JB and light side	.		AAndreani 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001946	B	P-ELF-200N1-09-L2-11 C10000776	Bending radius of the cable to be correct on both lights side	.		AAndreani 2024-12-17	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001947	B	P-ELF-200N1-09-L2-11 C10000776	missing cable labelling on both lights side	.		AAndreani 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001948	B	P-ELF-200N1-09-L2-11 C10000776	Core tag is missing for cable on both lights side	.		AAndreani 2024-12-17	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001964	B	ELF-200N1-09-L2-02 C10001402	Tag is missing	.		AAndreani 2024-12-17	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001975	B	P-ELF-200N1-09-L2-02 C10000775	missing earthing connection of secondary cable tray	.		AAndreani 2024-12-17	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30001976	B	P-ELF-200N1-09-L2-02 C10000775	Not enought threads are thightened between the lock nut and the cable gland body.	.		AAndreani 2024-12-17	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002080	B	P-ELF-200N1-09-L2-09 C10000787	Cable is entering the Light cable gland downwards while it should be upwards.	.		AAndreani 2024-12-19	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002082	B	P-ELF-200N1-09-L2-09 C10000787	missing SS cable tag on both JB and light side	.		AAndreani 2024-12-19	2025-01-30	AAndreani 2025-01-30	2025-01-30

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SYSTEM 83 Main Power Distribution Low Voltage 440 V
SUBSYSTEM 83-36 Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002086	B	ELF-200N1-09-L2-09 C10001409	missing trafolite tag	.		AAndreani 2024-12-19	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30002087	B	ELF-200N1-09-L2-09 C10001409	The support is not well secured against vibration	.		AAndreani 2024-12-19	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002092	B	P-EJB-200N1-09-L2-07 C10000792	missing SS cable tag on both JBs side	.		AAndreani 2024-12-20	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002093	B	P-EJB-200N1-09-L2-07 C10000792	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-20	2025-01-31	APolo 2025-01-31	2025-01-31
C30002169	B	P-ELF-200N1-09-L2-15 C10000795	Earthing cable need to be fixed. See attached photo.	.		Gtangianu 2024-12-27	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002171	B	P-ELF-200N1-09-L2-15 C10000795	cable tag is missing side the lamp.	.		Gtangianu 2024-12-27	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30002172	B	P-ELF-200N1-09-L2-16 C10000797	The termoskrink is not properly installed. See attached photo.	.		Gtangianu 2024-12-27	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002178	B	P-ELF-200N1-09-L2-17 C10000799	Earthing cable need to be fixed. See attached photo.	.		Gtangianu 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002179	B	P-ELF-200N1-09-L2-22 C10000809	The termoshrink is not properly installed . See attached photo.	.		Gtangianu 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20

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SUBSYSTEM 83-36 Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002180	B	P-ELF-200N1-09-L2-22 C10000809	Earthing cable need to be fixed. See attached photo.	.		Gtangianu 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002214	B	ELF-200N1-09-L2-11 C10001415	Missing identification tag.	.		Lmussi 2024-12-30	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30002270	B	P-ELF-200N1-09-L2-20 C10000805	On light side (ELF-200N1-09-l2-20) SS cable tag is missing.	.		Lmussi 2024-12-31	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002282	B	P-ELF-200N1-09-L2-20 C10000805	On light side, SS cable tag is missing.	.		Lmussi 2025-01-02	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002284	B	P-ELF-200N1-09-L2-19 C10000803	On light side, SS cable tag is missing.	.		Lmussi 2025-01-02	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002285	B	P-ELF-200N1-09-L2-19 C10000803	Bending radius of the cable to be corrected on cable gland entry on light side. Cable is entering the Light cable gland downwards while it should	.		Lmussi 2025-01-02	2025-02-04	APolo 2025-02-04	2025-02-04
C30002362	B	ELF-200N1-09-L2-19 C10001419	All lock nuts to stop the lamp are missing	.		Lmussi 2025-01-07	2025-01-16	Lmussi 2025-01-16	2025-01-16
C30002363	B	ELF-200N1-09-L2-19 C10001419	The support is not well secured against vibration. Another support needs to be added	.		Lmussi 2025-01-07	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002364	B	ELF-200N1-09-L2-20 C10001420	The support is not well secured against vibration. Another support needs to be added	.		Lmussi 2025-01-07	2025-03-07	Gtangianu 2025-03-07	2025-03-07

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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002365	B	ELF-200N1-09-L2-20 C10001420	All lock nuts to stop the lamp are missing	.		Lmussi 2025-01-07	2025-01-16	Lmussi 2025-01-16	2025-01-16
C30002696	B	P-ELF-200N1-09-L2-04 C10000780	Missing SS cable tag From/to	.		Pschintu 2025-01-13	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002697	B	P-ELF-200N1-09-L2-06 C10000783	Missing SS cable tag From/to	.		Pschintu 2025-01-13	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002698	B	P-EJB-200N1-09-L2-05 C10000788	Missing SS cable tag From/to	.		Pschintu 2025-01-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002712	B	P-EJB-200N1-09-L2-06 C10000790	missing SS cable tag on both JBs (EJB-200N1-09-L2-06 & EJB-200N1-09-L2-07) side	.		AAndreani 2025-01-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002713	B	P-ELF-200N1-09-L2-13 C10000791	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-13	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30002714	B	ELF-200N1-09-L2-13 C10001411	All lock nuts to stop the lamp are missing	.		AAndreani 2025-01-13	2025-01-16	Lmussi 2025-01-16	2025-01-16
C30002715	B	ELF-200N1-09-L2-13 C10001411	Trafolite tag is missing	.		AAndreani 2025-01-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002716	B	ELF-200N1-09-L2-13 C10001411	The support is not well secured against vibration. Another support needs to be added	.		AAndreani 2025-01-13	2025-03-07	Gtangianu 2025-03-07	2025-03-07

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SYSTEM	83	Main Power Distribution Low Voltage 440 V
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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002962	B	P-ELF-200N1-09-L2-10 C10000777	On both Light and JB (EJB-200N1-09-L2-01) side SS cable tag is missing.	.		Lmussi 2025-01-16	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002963	B	P-ELF-200N1-09-L2-08 C10000786	On both Lights sides (ELF-200N1-09-L2-08 & ELF-200N1-09-L2-09), SS cable tag is missing.	.		Lmussi 2025-01-16	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002964	B	P-ELF-200N1-09-L2-08 C10000786	Cable is not supported on ELF-200N1-09-L2-09 side.	.		Lmussi 2025-01-16	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002965	B	ELF-200N1-09-L2-08 C10001408	Equipment trafolite tag is missing	.		Lmussi 2025-01-16	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30002967	B	ELF-200N1-09-L2-08 C10001408	All lock nuts to stop the lamp are missing	.		Lmussi 2025-01-16	2025-01-16	Lmussi 2025-01-16	2025-01-16
C30002970	B	P-EJB-200N1-09-L2-09 C10000796	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-16	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30002971	B	ELF-200N1-09-L2-10 C10001414	Equipment trafolite tag is missing	.		Lmussi 2025-01-16	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30002975	B	ELF-200N1-09-L2-10 C10001414	Earthing cable is connected on cable tray support. To be connected to nearest earthing point on structure as per tipycal drawing (FOR	.		Lmussi 2025-01-16	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002976	B	EJB-200N1-09-L2-10 C10001240	Plugs are installed without serrated washer	.		AAndreani 2025-01-16	2025-01-24	AAndreani 2025-01-24	2025-01-24

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SUBSYSTEM 83-36 Emergency Lighting Lower Deck

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002977	B	EJB-200N1-09-L2-10 C10001240	Some core identification are missing on the terminal block	.		AAndreani 2025-01-16	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002978	B	EJB-200N1-09-L2-09 C10001239	Some core identification are missing on the terminal block	.		AAndreani 2025-01-16	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30002979	B	EJB-200N1-09-L2-09 C10001239	Plugs are installed without serrated washer	.		AAndreani 2025-01-16	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002991	B	P-ELF-200N1-09-L2-26 C10004718	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-17	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30002992	B	ELF-200N1-09-L2-26 C10004714	missing trafolite tag	.		AAndreani 2025-01-17	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30002993	B	ELF-200N1-09-L2-26 C10004714	Light and cable are installed in temporary position due to missing mechanical support	.		AAndreani 2025-01-17	2025-03-25	Gtangianu 2025-03-25	2025-03-25
C30003010	B	ELF-200N1-09-L2-27 C10004715	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-17	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30003011	B	ELF-200N1-09-L2-27 C10004715	missing trafolite tag	.		AAndreani 2025-01-17	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30003012	B	ELF-200N1-09-L2-27 C10004715	Light and cable are installed in temporary position due to missing mechanical support	.		AAndreani 2025-01-17	2025-03-25	Gtangianu 2025-03-25	2025-03-25

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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003017	B	P-ELF-200N1-09-L2-27 C10004719	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-17	2025-04-02	Gtangianu 2025-04-02	2025-04-02

Section 2 CONSOLIDATED PUNCH LISTS

CROSSWIND

ROSETTI MARINO

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SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001254	A	ELF-200N1-09-L2-15 C10001413	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (Waterproof washer is missing between cable	.		Lmussi 2024-12-04	2024-12-18	Ecarotenuto 2024-12-18	2024-12-18
C30001260	A	ELF-200N1-09-L2-16 C10001416	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (Waterproof washer is missing between cable	.		Lmussi 2024-12-04	2024-12-18	Ecarotenuto 2024-12-18	2024-12-18
C30001262	A	ELF-200N1-09-L2-17 C10001417	Earthing cable is missing	.		Lmussi 2024-12-04	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001263	A	ELF-200N1-09-L2-17 C10001417	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)	.		Lmussi 2024-12-04	2024-12-14	Ecarotenuto 2024-12-14	2024-12-14
C30001268	A	ELF-200N1-09-L2-22 C10001422	Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (adapter between light and cable gland is	.		Lmussi 2024-12-04	2025-01-17	Gtangianu 2025-01-17	2025-01-17
C30001269	A	ELF-200N1-09-L2-16 C10001416	Missing jumper between terminations 2 and 4 as per 123A90-DDL-EL-DG-20125	.		Lmussi 2024-12-04	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001781	A	P-ELF-200N1-09-L2-18 C10000801	Missing IP washer between cable galnd and adapter JB side	.		GBertuccelli 2024-12-12	2025-01-16	Ecarotenuto 2025-01-16	2025-01-16
C30001858	A	P-ELF-200N1-09-L2-12 C10000789	missing teflon IP washer beetwen cable gland and adapter	.		AAndreani 2024-12-13	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30002081	A	P-ELF-200N1-09-L2-09 C10000787	Not enought threads are thightened between the lock nut and the cable gland body.	.		AAndreani 2024-12-19	2025-01-23	AAndreani 2025-01-23	2025-01-23

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Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002088	A	ELF-200N1-09-L2-09 C10001409	The earthing cable passes inside the unistrut and through the fixing holes	.		AAndreani 2024-12-19	2025-01-23	AAndreani 2025-01-23	2025-01-23
C30002094	A	P-EJB-200N1-09-L2-07 C10000792	Not enought threads are thightened between the lock nut and the cable gland body. On both JBs side	.		AAndreani 2024-12-20	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30002283	A	P-ELF-200N1-09-L2-20 C10000805	Adapter ADAP_M20MxM25F (as per cable list) is missing.	.		Lmussi 2025-01-02	2025-01-17	Gtangianu 2025-01-17	2025-01-17
C30002966	A	ELF-200N1-09-L2-08 C10001408	Equipment earth cable is missing.	.		Lmussi 2025-01-16	2025-01-21	AAndreani 2025-01-21	2025-01-21
C30002972	A	P-EJB-200N1-09-L2-09 C10000796	Not enought threads are thightened between the lock nut and the cable gland body. on EJB-200NA--09-L2-10 side	.		AAndreani 2025-01-16	2025-01-20	Lmussi 2025-01-20	2025-01-20
C30001144	B	P-EJB-200N1-09-L2-01 C10000611	Missing SS cable tags	.		Pschintu 2024-12-03	2025-02-04	Pschintu 2025-02-04	2025-02-04
C30001145	B	P-EJB-200N1-09-L2-01 C10000611	Missing core identification tags inside JB	.		Pschintu 2024-12-03	2024-12-11	Pschintu 2024-12-11	2024-12-11
C30001253	B	ELF-200N1-09-L2-15 C10001413	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-04	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001255	B	ELF-200N1-09-L2-15 C10001413	Tag is missing	.		Lmussi 2024-12-04	2024-12-19	Lmussi 2024-12-19	2024-12-19

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SUBSYSTEM 83-36 Emergency Lighting Lower Deck

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CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001256	B	ELF-200N1-09-L2-15 C10001413	Waterproof washer is missing on the plug.	.		Lmussi 2024-12-04	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001257	B	ELF-200N1-09-L2-16 C10001416	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		Lmussi 2024-12-04	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001258	B	ELF-200N1-09-L2-16 C10001416	Tag is missing	.		Lmussi 2024-12-04	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001259	B	ELF-200N1-09-L2-16 C10001416	Waterproof washer is missing on the plug	.		Lmussi 2024-12-04	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001261	B	ELF-200N1-09-L2-17 C10001417	Tag is missing	.		Lmussi 2024-12-04	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001264	B	ELF-200N1-09-L2-17 C10001417	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-04	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001265	B	ELF-200N1-09-L2-22 C10001422	The support is not well secured against vibration. another support needs to be added	.		Lmussi 2024-12-04	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001266	B	ELF-200N1-09-L2-22 C10001422	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		Lmussi 2024-12-04	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001267	B	ELF-200N1-09-L2-22 C10001422	Waterproof washer is missing on the plug	.		Lmussi 2024-12-04	2025-01-20	GBertuccelli 2025-01-20	2025-01-20

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C30001480	B	ELF-200N1-09-L 2-23 C10001423	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-06	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001481	B	ELF-200N1-09-L 2-23 C10001423	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-06	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001482	B	ELF-200N1-09-L 2-23 C10001423	Waterproof washer is missing on the plug	.		AAndreani 2024-12-06	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001483	B	ELF-200N1-09-L 2-23 C10001423	missing plug on pole support of light	.		AAndreani 2024-12-06	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001484	B	ELF-200N1-09-L 2-23 C10001423	missing tag	.		AAndreani 2024-12-06	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001486	B	ELF-200N1-09-L 2-12 C10001410	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-06	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001488	B	ELF-200N1-09-L 2-12 C10001410	Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon	.		AAndreani 2024-12-06	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001491	B	ELF-200N1-09-L 2-12 C10001410	Waterproof washer is missing on the plug	.		AAndreani 2024-12-06	2024-12-18	AAndreani 2024-12-18	2024-12-18
C30001492	B	ELF-200N1-09-L 2-12 C10001410	missing plug on pole support of light	.		AAndreani 2024-12-06	2025-01-20	GBertuccelli 2025-01-20	2025-01-20

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C30001493	B	ELF-200N1-09-L2-12 C10001410	missing tag	.		AAndreani 2024-12-06	2024-12-30	Ecarotenuto 2024-12-30	2024-12-30
C30001517	B	EJB-200N1-09-L2-13 C10001243	missing plug on spare entry	.		AAndreani 2024-12-07	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001662	B	P-EJB-200N1-09-L2-04 C10000784	missing cable labelling on both EJB-200N1-L2-01 and EJB-200N1-L2--04 side	.		AAndreani 2024-12-11	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001663	B	P-EJB-200N1-09-L2-04 C10000784	Core tag is missing for cable on EJB-200N1-09-L2-04 side and wrong on EJB-200N1-09-L2-01	.		AAndreani 2024-12-11	2025-01-13	Ecarotenuto 2025-01-13	2025-01-13
C30001664	B	EJB-200N1-09-L2-08 C10001238	missing plug on spare entry	.		AAndreani 2024-12-11	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001669	B	P-ELF-200N1-09-L2-14 C10000793	missing cable labelling on both EJB-200N1-09-L2-14 side and EJB-200N1-09-L2-15 side	.		AAndreani 2024-12-11	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001671	B	P-ELF-200N1-09-L2-14 C10000793	Core tag is missing for cable on both EJB-200N1-09-L2-14 side and EJB-200N1-09-L2-15 side	.		AAndreani 2024-12-11	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001673	B	P-EJB-200N1-09-L2-12 C10000802	missing cable labelling on both EJB-200N1-09-L2-02 side and EJB-200N1-09-L2-12 side	.		AAndreani 2024-12-11	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30001674	B	P-EJB-200N1-09-L2-12 C10000802	Core tag is missing for cable on both EJB-200N1-09-L2-02 side and EJB-200N1-09-L2-12 side	.		AAndreani 2024-12-11	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24

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C30001675	B	P-EJB-200N1-09-L2-10 C10000798	missing cable labelling on both EJB-200N1-09-L2-11 side and EJB-200N1-09-L2-10 side	.		AAndreani 2024-12-11	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001676	B	P-EJB-200N1-09-L2-10 C10000798	Core tag is missing for cable on both EJB-200N1-09-L2-11 side and EJB-200N1-09-L2-10 side	.		AAndreani 2024-12-11	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001734	B	P-ELF-200N1-09-L2-01 C10000774	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-12	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001735	B	P-ELF-200N1-09-L2-01 C10000774	missing cable labelling on both JB and light side	.		AAndreani 2024-12-12	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30001736	B	P-ELF-200N1-09-L2-01 C10000774	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-12	2025-01-21	AAndreani 2025-01-21	2025-01-21
C30001738	B	ELF-200N1-09-L2-01 C10001401	Trafolite tag is missing	.		AAndreani 2024-12-12	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001739	B	ELF-200N1-09-L2-01 C10001401	missing tag	.		AAndreani 2024-12-12	2025-01-30	AAndreani 2025-01-30	2025-01-30
C30001742	B	EJB-200N1-09-L2-01 C10001298	missing terminal block identification	.		AAndreani 2024-12-12	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001743	B	EJB-200N1-09-L2-01 C10001298	silicone not cover completely the rivets of tag and dataplate not, IP not guarantee	.		AAndreani 2024-12-12	2025-02-06	AAndreani 2025-02-06	2025-02-06

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C30001744	B	P-EJB-200N1-09-L2-02 C10000778	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-12	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001747	B	P-EJB-200N1-09-L2-02 C10000778	missing cable labelling on both JB and light side	.		AAndreani 2024-12-12	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001749	B	P-ELF-200N1-09-L2-03 C10000779	missing cable labelling on both JB and light side	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001750	B	P-ELF-200N1-09-L2-03 C10000779	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-12	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001753	B	ELF-200N1-09-L2-03 C10001403	tag is missing	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001754	B	ELF-200N1-09-L2-03 C10001403	Trafolite tag is missing	.		AAndreani 2024-12-12	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001757	B	ELF-200N1-09-L2-03 C10001403	missing black plastic piece between cover and glass of the light	.		AAndreani 2024-12-12	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30001760	B	P-EJB-200N1-09-L2-15 C10000808	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001762	B	P-EJB-200N1-09-L2-15 C10000808	missing cable labelling on both JBs side	.		AAndreani 2024-12-12	2025-01-24	Lmussi 2025-01-24	2025-01-24

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C30001767	B	P-EJB-200N1-09-L2-14 C10000806	missing cable labelling on both JBs side	.		AAndreani 2024-12-12	2025-01-25	Ecarotenuto 2025-01-25	2025-01-25
C30001768	B	P-EJB-200N1-09-L2-14 C10000806	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001774	B	EJB-200N1-09-L2-12 C10001242	missing terminal block identification	.		AAndreani 2024-12-12	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001778	B	P-ELF-200N1-09-L2-18 C10000801	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-12	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001779	B	P-ELF-200N1-09-L2-18 C10000801	Cable is entering the Light cable gland downwards while it should be upwards	.		GBertuccelli 2024-12-12	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001780	B	P-ELF-200N1-09-L2-18 C10000801	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-12	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001782	B	ELF-200N1-09-L2-18 C10001418	The support is not well secured against vibration. another support needs to be added	.		GBertuccelli 2024-12-12	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001783	B	P-EJB-200N1-09-L2-11 C10000800	missing cable labelling on both JBs side	.		AAndreani 2024-12-12	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001784	B	P-EJB-200N1-09-L2-11 C10000800	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-12	2025-02-06	AAndreani 2025-02-06	2025-02-06

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C30001826	B	EJB-200N1-09-L2-04 C10001301	Plugs are installed without serrated washer	.		GBertuccelli 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001828	B	P-EJB-200N1-09-L2-08 C10000794	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001829	B	P-EJB-200N1-09-L2-08 C10000794	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001830	B	EJB-200N1-09-L2-02 C10001299	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	Gtangianu 2024-12-28	2024-12-28
C30001831	B	EJB-200N1-09-L2-01 C10001298	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	Gtangianu 2024-12-28	2024-12-28
C30001832	B	EJB-200N1-09-L2-16 C10001246	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001833	B	EJB-200N1-09-L2-15 C10001245	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2025-01-02	Ecarotenuto 2025-01-02	2025-01-02
C30001834	B	EJB-200N1-09-L2-14 C10001244	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001835	B	P-EJB-200N1-09-L2-13 C10000804	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24

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C30001836	B	P-EJB-200N1-09-L2-13 C10000804	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30001837	B	ELF-200N1-09-L2-03 C10001403	missing screw between enclosure and internal din rail, also missing the earthing continuity wire	.		AAndreani 2024-12-13	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001838	B	EJB-200N1-09-L2-13 C10001243	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001839	B	EJB-200N1-09-L2-12 C10001242	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001840	B	EJB-200N1-09-L2-11 C10001241	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001841	B	P-EJB-200N1-09-L2-16 C10000810	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001842	B	EJB-200N1-09-L2-08 C10001238	Plugs are installed without serrated washer	,		AAndreani 2024-12-13	2024-12-28	LNovaga 2024-12-28	2024-12-28
C30001843	B	P-EJB-200N1-09-L2-16 C10000810	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30001844	B	EJB-200N1-09-L2-07 C10001237	Plugs are installed without serrated washer	.		AAndreani 2024-12-13	2025-01-20	GBertuccelli 2025-01-20	2025-01-20

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C30001850	B	P-ELF-200N1-09-L2-05 C10000782	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2024-12-19	GBertuccelli 2024-12-19	2024-12-19
C30001851	B	P-ELF-200N1-09-L2-05 C10000782	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001853	B	P-ELF-200N1-09-L2-12 C10000789	missing cable labelling on light side	.		AAndreani 2024-12-13	2025-01-25	Ecarotenuto 2025-01-25	2025-01-25
C30001854	B	P-ELF-200N1-09-L2-12 C10000789	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-13	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001855	B	P-ELF-200N1-09-L2-12 C10000789	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-13	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001856	B	P-EJB-200N1-09-L2-13 C10000804	Bending radius of the cable to be correct on cable gland ingress under JB EJB-200N1-09-L2-12	.		GBertuccelli 2024-12-13	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30001857	B	P-ELF-200N1-09-L2-07 C10000785	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-13	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001859	B	P-ELF-200N1-09-L2-07 C10000785	Cable is entering the Light cable gland downwards while it should be upwards	.		GBertuccelli 2024-12-13	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001860	B	P-ELF-200N1-09-L2-07 C10000785	missing cable labelling on both JB and light side	.		GBertuccelli 2024-12-13	2025-01-30	AAndreani 2025-01-30	2025-01-30

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C30001861	B	P-ELF-200N1-09-L2-23 C10000811	missing cable labelling on light side	.		AAndreani 2024-12-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30001862	B	P-ELF-200N1-09-L2-23 C10000811	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-13	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001863	B	P-ELF-200N1-09-L2-23 C10000811	Cable is entering the Light cable gland downwards while it should be upwards	.		AAndreani 2024-12-13	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001864	B	ELF-200N1-09-L2-05 C10001405	Tag is missing	.		GBertuccelli 2024-12-13	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30001865	B	ELF-200N1-09-L2-07 C10001407	Trafolite tag is missing	.		AAndreani 2024-12-13	2024-12-27	Ecarotenuto 2024-12-27	2024-12-27
C30001866	B	ELF-200N1-09-L2-05 C10001405	Trafolite tag is missing	.		GBertuccelli 2024-12-13	2024-12-30	Ecarotenuto 2024-12-30	2024-12-30
C30001867	B	ELF-200N1-09-L2-07 C10001407	tag is missing	.		AAndreani 2024-12-13	2025-01-31	AAndreani 2025-01-31	2025-01-31
C30001868	B	ELF-200N1-09-L2-05 C10001405	Missing one screw on cover of the light	.		GBertuccelli 2024-12-13	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001869	B	ELF-200N1-09-L2-05 C10001405	Plastic plugs are installed	.		GBertuccelli 2024-12-13	2025-01-20	GBertuccelli 2025-01-20	2025-01-20

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001870	B	ELF-200N1-09-L2-07 C10001407	The support is not well secured against vibration	.		AAndreani 2024-12-13	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001871	B	ELF-200N1-09-L2-05 C10001405	Black plastic piece of the cover is missing	.		GBertuccelli 2024-12-13	2025-01-17	Lmussi 2025-01-17	2025-01-17
C30001872	B	ELF-200N1-09-L2-05 C10001405	Light clash with scaffolding. Need to be checked after removing scaffolding	.		GBertuccelli 2024-12-13	2025-03-25	Gtangianu 2025-03-25	2025-03-25
C30001912	B	ELF-200N1-09-L2-14 C10001412	Trafolite tag is missing	.		AAndreani 2024-12-16	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001913	B	ELF-200N1-09-L2-14 C10001412	Tag is missing	.		AAndreani 2024-12-16	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001914	B	ELF-200N1-09-L2-14 C10001412	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-16	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001922	B	ELF-200N1-09-L2-21 C10001421	The support is not well secured against vibration. another support needs to be added	.		AAndreani 2024-12-16	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001923	B	ELF-200N1-09-L2-21 C10001421	Trafolite tag is missing	.		AAndreani 2024-12-16	2024-12-19	Lmussi 2024-12-19	2024-12-19
C30001924	B	ELF-200N1-09-L2-21 C10001421	Tag is missing	.		AAndreani 2024-12-16	2024-12-19	Lmussi 2024-12-19	2024-12-19

CROSSWIND

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Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001930	B	P-ELF-200N1-09-L2-21 C10000807	Core tag is missing for cable on both JB and light side	.		GBertuccelli 2024-12-16	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001931	B	P-ELF-200N1-09-L2-21 C10000807	Cable is entering the Light cable gland downwards while it should be upwards	.		GBertuccelli 2024-12-16	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30001933	B	P-ELF-200N1-09-L2-21 C10000807	missing cable labelling on light side	.		GBertuccelli 2024-12-16	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30001934	B	P-ELF-200N1-09-L2-21 C10000807	Present earthing tag on cable gland light side	.		GBertuccelli 2024-12-16	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001940	B	ELF-200N1-09-L2-02 C10001402	Trafolite tag is missing	.	Installed.	AAndreani 2024-12-17	Gtangianu 2025-03-08	Gtangianu 2025-03-08	2025-03-08
C30001941	B	ELF-200N1-09-L2-02 C10001402	The support is not well secured against vibration	.		AAndreani 2024-12-17	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30001942	B	ELF-200N1-09-L2-11 C10001415	Identification tag is missing	.		Lmussi 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001943	B	P-ELF-200N1-09-L2-02 C10000775	Bending radius of the cable to be correct on cable gland ingress under JB and on cable gland light side	.		AAndreani 2024-12-17	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30001944	B	P-ELF-200N1-09-L2-02 C10000775	Core tag is missing for cable on both JB and light side	.		AAndreani 2024-12-17	2024-12-19	AAndreani 2024-12-19	2024-12-19

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30001945	B	P-ELF-200N1-09-L2-02 C10000775	missing cable labelling on both JB and light side	.		AAndreani 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001946	B	P-ELF-200N1-09-L2-11 C10000776	Bending radius of the cable to be correct on both lights side	.		AAndreani 2024-12-17	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30001947	B	P-ELF-200N1-09-L2-11 C10000776	missing cable labelling on both lights side	.		AAndreani 2024-12-17	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30001948	B	P-ELF-200N1-09-L2-11 C10000776	Core tag is missing for cable on both lights side	.		AAndreani 2024-12-17	2024-12-19	AAndreani 2024-12-19	2024-12-19
C30001964	B	ELF-200N1-09-L2-02 C10001402	Tag is missing	.		AAndreani 2024-12-17	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30001975	B	P-ELF-200N1-09-L2-02 C10000775	missing earthing connection of secondary cable tray	.		AAndreani 2024-12-17	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30001976	B	P-ELF-200N1-09-L2-02 C10000775	Not enought threads are thightened between the lock nut and the cable gland body.	.		AAndreani 2024-12-17	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002080	B	P-ELF-200N1-09-L2-09 C10000787	Cable is entering the Light cable gland downwards while it should be upwards.	.		AAndreani 2024-12-19	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002082	B	P-ELF-200N1-09-L2-09 C10000787	missing SS cable tag on both JB and light side	.		AAndreani 2024-12-19	2025-01-30	AAndreani 2025-01-30	2025-01-30

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002086	B	ELF-200N1-09-L2-09 C10001409	missing trafolite tag	.		AAndreani 2024-12-19	2025-01-20	GBertuccelli 2025-01-20	2025-01-20
C30002087	B	ELF-200N1-09-L2-09 C10001409	The support is not well secured against vibration	.		AAndreani 2024-12-19	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002092	B	P-EJB-200N1-09-L2-07 C10000792	missing SS cable tag on both JBs side	.		AAndreani 2024-12-20	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002093	B	P-EJB-200N1-09-L2-07 C10000792	Core tag is missing for cable on both JBs side	.		AAndreani 2024-12-20	2025-01-31	APolo 2025-01-31	2025-01-31
C30002169	B	P-ELF-200N1-09-L2-15 C10000795	Earthing cable need to be fixed. See attached photo.	.		Gtangianu 2024-12-27	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002171	B	P-ELF-200N1-09-L2-15 C10000795	cable tag is missing side the lamp.	.		Gtangianu 2024-12-27	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30002172	B	P-ELF-200N1-09-L2-16 C10000797	The termoskrink is not properly installed. See attached photo.	.		Gtangianu 2024-12-27	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002178	B	P-ELF-200N1-09-L2-17 C10000799	Earthing cable need to be fixed. See attached photo.	.		Gtangianu 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002179	B	P-ELF-200N1-09-L2-22 C10000809	The termoshrink is not properly installed . See attached photo.	.		Gtangianu 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20

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PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002180	B	P-ELF-200N1-09-L2-22 C10000809	Earthing cable need to be fixed. See attached photo.	.		Gtangianu 2024-12-28	2025-01-20	AAndreani 2025-01-20	2025-01-20
C30002214	B	ELF-200N1-09-L2-11 C10001415	Missing identification tag.	.		Lmussi 2024-12-30	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30002270	B	P-ELF-200N1-09-L2-20 C10000805	On light side (ELF-200N1-09-l2-20) SS cable tag is missing.	.		Lmussi 2024-12-31	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002282	B	P-ELF-200N1-09-L2-20 C10000805	On light side, SS cable tag is missing.	.		Lmussi 2025-01-02	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002284	B	P-ELF-200N1-09-L2-19 C10000803	On light side, SS cable tag is missing.	.		Lmussi 2025-01-02	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002285	B	P-ELF-200N1-09-L2-19 C10000803	Bending radius of the cable to be corrected on cable gland entry on light side. Cable is entering the Light cable gland downwards while it should	.		Lmussi 2025-01-02	2025-02-04	APolo 2025-02-04	2025-02-04
C30002362	B	ELF-200N1-09-L2-19 C10001419	All lock nuts to stop the lamp are missing	.		Lmussi 2025-01-07	2025-01-16	Lmussi 2025-01-16	2025-01-16
C30002363	B	ELF-200N1-09-L2-19 C10001419	The support is not well secured against vibration. Another support needs to be added	.		Lmussi 2025-01-07	2025-03-07	Gtangianu 2025-03-07	2025-03-07
C30002364	B	ELF-200N1-09-L2-20 C10001420	The support is not well secured against vibration. Another support needs to be added	.		Lmussi 2025-01-07	2025-03-07	Gtangianu 2025-03-07	2025-03-07

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Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002365	B	ELF-200N1-09-L2-20 C10001420	All lock nuts to stop the lamp are missing	.		Lmussi 2025-01-07	2025-01-16	Lmussi 2025-01-16	2025-01-16
C30002696	B	P-ELF-200N1-09-L2-04 C10000780	Missing SS cable tag From/to	.		Pschintu 2025-01-13	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002697	B	P-ELF-200N1-09-L2-06 C10000783	Missing SS cable tag From/to	.		Pschintu 2025-01-13	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002698	B	P-EJB-200N1-09-L2-05 C10000788	Missing SS cable tag From/to	.		Pschintu 2025-01-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002712	B	P-EJB-200N1-09-L2-06 C10000790	missing SS cable tag on both JBs (EJB-200N1-09-L2-06 & EJB-200N1-09-L2-07) side	.		AAndreani 2025-01-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002713	B	P-ELF-200N1-09-L2-13 C10000791	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-13	2025-01-25	Lmussi 2025-01-25	2025-01-25
C30002714	B	ELF-200N1-09-L2-13 C10001411	All lock nuts to stop the lamp are missing	.		AAndreani 2025-01-13	2025-01-16	Lmussi 2025-01-16	2025-01-16
C30002715	B	ELF-200N1-09-L2-13 C10001411	Trafolite tag is missing	.		AAndreani 2025-01-13	2025-01-24	Lmussi 2025-01-24	2025-01-24
C30002716	B	ELF-200N1-09-L2-13 C10001411	The support is not well secured against vibration. Another support needs to be added	.		AAndreani 2025-01-13	2025-03-07	Gtangianu 2025-03-07	2025-03-07

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002962	B	P-ELF-200N1-09-L2-10 C10000777	On both Light and JB (EJB-200N1-09-L2-01) side SS cable tag is missing.	.		Lmussi 2025-01-16	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002963	B	P-ELF-200N1-09-L2-08 C10000786	On both Lights sides (ELF-200N1-09-L2-08 & ELF-200N1-09-L2-09), SS cable tag is missing.	.		Lmussi 2025-01-16	2025-01-30	GBertuccelli 2025-01-30	2025-01-30
C30002964	B	P-ELF-200N1-09-L2-08 C10000786	Cable is not supported on ELF-200N1-09-L2-09 side.	.		Lmussi 2025-01-16	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002965	B	ELF-200N1-09-L2-08 C10001408	Equipment trafolite tag is missing	.		Lmussi 2025-01-16	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30002967	B	ELF-200N1-09-L2-08 C10001408	All lock nuts to stop the lamp are missing	.		Lmussi 2025-01-16	2025-01-16	Lmussi 2025-01-16	2025-01-16
C30002970	B	P-EJB-200N1-09-L2-09 C10000796	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-16	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30002971	B	ELF-200N1-09-L2-10 C10001414	Equipment trafolite tag is missing	.		Lmussi 2025-01-16	2025-02-04	GBertuccelli 2025-02-04	2025-02-04
C30002975	B	ELF-200N1-09-L2-10 C10001414	Earthing cable is connected on cable tray support. To be connected to nearest earthing point on structure as per tipycal drawing (FOR	.		Lmussi 2025-01-16	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002976	B	EJB-200N1-09-L2-10 C10001240	Plugs are installed without serrated washer	.		AAndreani 2025-01-16	2025-01-24	AAndreani 2025-01-24	2025-01-24

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Project CROSSWIND

PUNCH LIST REPORT

SYSTEM 83 Main Power Distribution Low Voltage 440 V

SUBSYSTEM 83-36 Emergency Lighting Lower Deck

Electrical

CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30002977	B	EJB-200N1-09-L2-10 C10001240	Some core identification are missing on the terminal block	.		AAndreani 2025-01-16	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002978	B	EJB-200N1-09-L2-09 C10001239	Some core identification are missing on the terminal block	.		AAndreani 2025-01-16	2025-01-24	Ecarotenuto 2025-01-24	2025-01-24
C30002979	B	EJB-200N1-09-L2-09 C10001239	Plugs are installed without serrated washer	.		AAndreani 2025-01-16	2025-02-06	AAndreani 2025-02-06	2025-02-06
C30002991	B	P-ELF-200N1-09-L2-26 C10004718	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-17	2025-04-02	Gtangianu 2025-04-02	2025-04-02
C30002992	B	ELF-200N1-09-L2-26 C10004714	missing trafolite tag	.		AAndreani 2025-01-17	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30002993	B	ELF-200N1-09-L2-26 C10004714	Light and cable are installed in temporary position due to missing mechanical support	.		AAndreani 2025-01-17	2025-03-25	Gtangianu 2025-03-25	2025-03-25
C30003010	B	ELF-200N1-09-L2-27 C10004715	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-17	2025-01-31	GBertuccelli 2025-01-31	2025-01-31
C30003011	B	ELF-200N1-09-L2-27 C10004715	missing trafolite tag	.		AAndreani 2025-01-17	2025-02-21	AAndreani 2025-02-21	2025-02-21
C30003012	B	ELF-200N1-09-L2-27 C10004715	Light and cable are installed in temporary position due to missing mechanical support	.		AAndreani 2025-01-17	2025-03-25	Gtangianu 2025-03-25	2025-03-25

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

PUNCH LIST REPORT

SYSTEM	83	Main Power Distribution Low Voltage 440 V
SUBSYSTEM	83-36	Emergency Lighting Lower Deck

Electrical									
CODE	CAT	ITEM	DEFECT DESCRIPTION	CORRECTIVE ACTION	PERFORMED ACTION	ISSUED	CARRIED	CHECKED	APPROVED
C30003017	B	P-ELF-200N1-09-L2-27 C10004719	missing SS cable tag on both JB and light side	.		AAndreani 2025-01-17	2025-04-02	Gtangianu 2025-04-02	2025-04-02

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001144

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000611	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-01	Lighting & Small Power DB BoP / Emergency Lighting Lower Deck - Circuit No. 1	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Missing SS cable tags

Name: Paolo Schintu

Date: 2024-12-03

Signature: Digitaly signed by Paolo Schintu 2024-12-03T07:56:38.037Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Paolo Schintu 2024-12-03T07:56:51.783Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Paolo Schintu

Date: 2025-02-04

Signature: Digitaly signed by Paolo Schintu 2025-02-04T11:26:18.485Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001145

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000611	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-01		Lighting & Small Power DB BoP / Emergency Lighting Lower Deck - Circuit No. 1
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Missing core identification tags inside JB

Name: Paolo Schintu

Date: 2024-12-03

Signature: Digitaly signed by Paolo Schintu 2024-12-03T07:57:37.257Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-03
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Paolo Schintu 2024-12-03T07:57:47.921Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done.

Name: Paolo Schintu

Date: 2024-12-11

Signature: Digitaly signed by Paolo Schintu 2024-12-11T15:25:35.921Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001253

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001413	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-15	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T12:46:01.276Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:27:35.901Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T09:56:14.779Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001254

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001413	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-15	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (Waterproof washer is missing between cable gland and adapter, cable gland earthing tag is missing)

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T12:45:44.036Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:28:24.314Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Eleonora Carotenuto

Date: 2024-12-18

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-18T17:58:02.671Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001255

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001413	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-15	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Tag is missing

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T12:45:23.220Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:28:48.398Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature: Digitaly signed by Luca Mussi 2024-12-19T17:49:58.714Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ELF-200N1-09-L2-15
EARLGREEN

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001256

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001413	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-15	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Waterproof washer is missing on the plug.

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T12:43:47.769Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:29:16.198Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-18

Signature: Digitaly signed by Andrea Andreani 2024-12-18T13:12:33.992Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001257

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001416	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-16	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:03:04.806Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:29:45.180Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:30:28.702Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001258

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001416	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-16	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Tag is missing

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:02:52.988Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:30:07.770Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature: Digitaly signed by Luca Mussi 2024-12-19T17:50:19.370Z

6- CLEARANCE APPROVAL

Name

Date

Signature


ELF-200N1-09-L2-16

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001259

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001416	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-16	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Waterproof washer is missing on the plug

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:02:43.228Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:30:31.702Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-18

Signature: Digitaly signed by Andrea Andreani 2024-12-18T13:13:00.170Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001260

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001416	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-16	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (Waterproof washer is missing between cable gland and adapter, cable gland earthing tag is missing

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:02:12.633Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:31:04.669Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Eleonora Carotenuto

Date: 2024-12-18

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-18T17:58:12.681Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001261

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001417	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-17	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Tag is missing

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:08:24.130Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:31:25.010Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

.

Name: Luca Mussi

Date: 2024-12-19

Signature: Digitaly signed by Luca Mussi 2024-12-19T16:54:20.529Z

6- CLEARANCE APPROVAL

Name

Date

Signature


BALDINI
ELF-200N1-09-L2-17
TEREX

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001262

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001417	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-17	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Earthing cable is missing

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:07:58.905Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:31:48.104Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-18

Signature: Digitaly signed by Andrea Andreani 2024-12-18T13:13:33.718Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001263

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001417	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-17	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (cable gland earthing tag is missing)

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:07:50.209Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:32:15.567Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

RLMU done for 123A90-FDL-EL-DD-20091, sh.14, Rev.2

Name: Eleonora Carotenuto

Date: 2024-12-14

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-14T11:26:27.587Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001264

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001417	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-17	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:08:33.653Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:32:39.870Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T09:56:30.803Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001265

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001422	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-22	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:15:42.683Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:32:59.875Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T09:56:45.326Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001266

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001422	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-22	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:15:55.044Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:33:26.145Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:30:59.285Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001267

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001422	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-22	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Waterproof washer is missing on the plug

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:16:47.556Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:33:56.762Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:11:55.011Z

6- CLEARANCE APPROVAL

Name

Date

Signature


Lirex

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001268

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001422	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-22	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Cable gland installation is not as per drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 pos. 4 (adapter between light and cable gland is missing, cable gland earthing tag is missing)

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:16:38.289Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:34:18.267Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

The cable gland was replaced.

Name: Giovanni Tangianu

Date: 2025-01-17

Signature: Digitaly signed by Giovanni Tangianu 2025-01-17T16:44:18.899Z

6- CLEARANCE APPROVAL

Name

Date

Signature


Lirex

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001269

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001416	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-16	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Missing jumper between terminations 2 and 4 as per 123A90-DDL-EL-DG-20125

Name: Luca Mussi

Date: 2024-12-04

Signature: Digitaly signed by Luca Mussi 2024-12-04T13:21:47.904Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-04
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-04T13:39:13.018Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-18

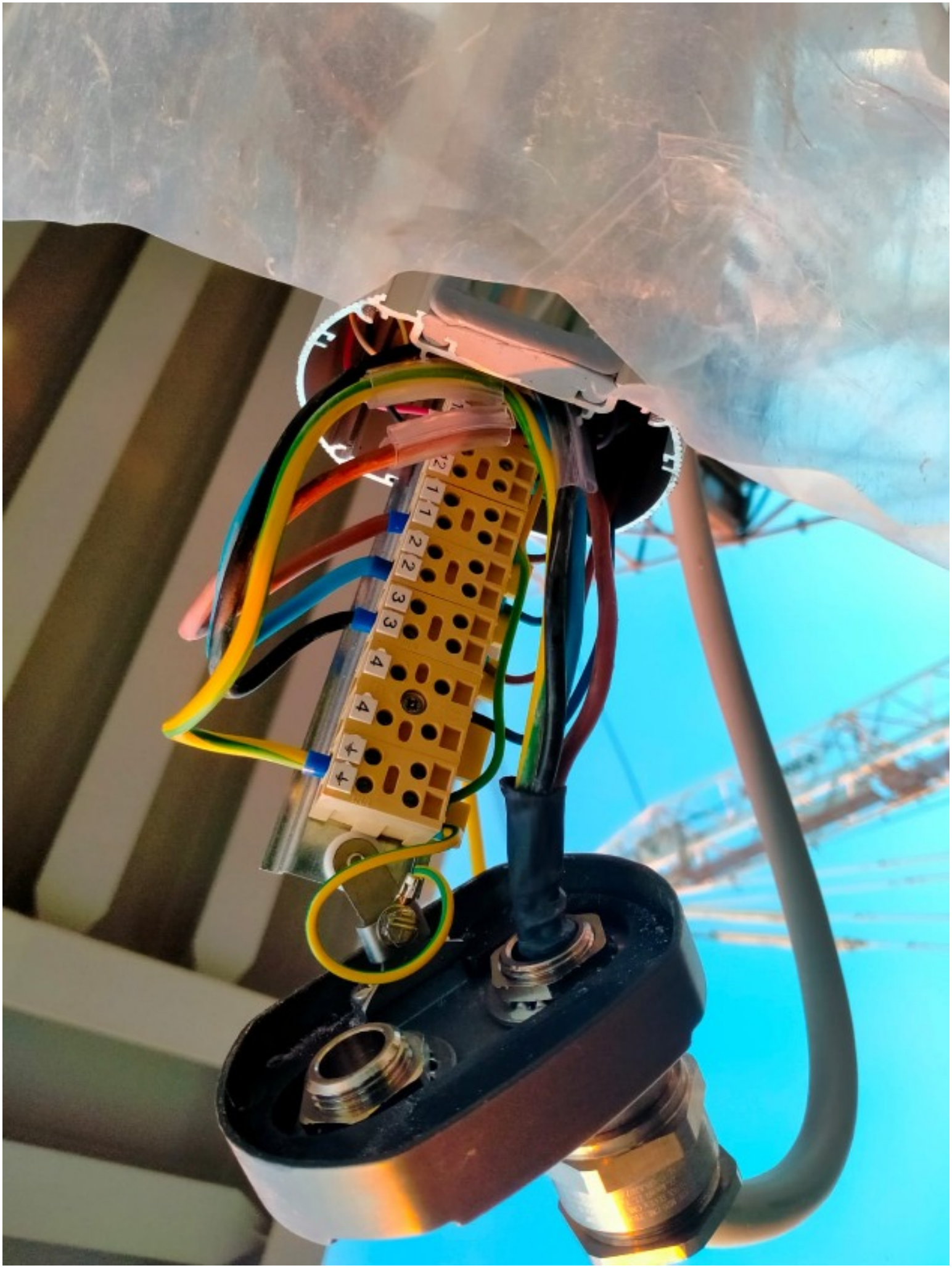
Signature: Digitaly signed by Andrea Andreani 2024-12-18T13:14:13.968Z

6- CLEARANCE APPROVAL

Name

Date

Signature


L1
L1
L2
L2
L3
L3
N
N
PE
PE

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001480

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001423	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-23	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:42:44.565Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:42:55.449Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:03:21.787Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001481

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001423	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-23	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:43:45.852Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:43:57.278Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:33:18.719Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001482

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001423	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-23	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Waterproof washer is missing on the plug

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:44:48.078Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:45:00.666Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-18

Signature: Digitaly signed by Andrea Andreani 2024-12-18T17:27:11.585Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001483

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001423	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-23	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing plug on pole support of light

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:45:43.017Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:45:56.752Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-02T16:20:07.763Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001484

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001423	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-23	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing tag

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:48:15.638Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:48:26.630Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:45:41.021Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001486

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001410	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-12	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:51:03.052Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:51:15.990Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:03:34.341Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001488

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001410	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-12	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Pole installation is not as per typical drawing 123A90-DDL-EL-DD-20091 rev 2 sheet 014 detail (it is not present the teflon sheet but teflon washers intead)

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:52:00.968Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:52:12.047Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:34:42.040Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001491

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001410	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-12	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Waterproof washer is missing on the plug

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:52:42.463Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:52:59.864Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-18

Signature: Digitaly signed by Andrea Andreani 2024-12-18T17:27:22.785Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001492

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001410	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-12	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing plug on pole support of light

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:53:26.447Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:53:37.794Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:13:24.591Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001493

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001410	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-12	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing tag

Name: Andrea Andreani

Date: 2024-12-06

Signature: Digitaly signed by Andrea Andreani 2024-12-06T17:54:07.209Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-06
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-06T17:54:18.154Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-30

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-30T15:47:56.739Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001517

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001243	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-13	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing plug on spare entry

Name: Andrea Andreani

Date: 2024-12-07

Signature: Digitaly signed by Andrea Andreani 2024-12-07T07:57:53.717Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-07
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-07T07:58:14.854Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-27

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-27T10:38:56.103Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001662

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000784	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-04	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both EJB-200N1-L2-01 and EJB-200N1-L2--04 side

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T15:31:04.933Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T15:31:29.735Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:45:52.646Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001663

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000784	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-04	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on EJB-200N1-09-L2-04 side and wrong on EJB-200N1-09-L2-01

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T15:34:02.335Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T15:34:15.338Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-13

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-13T09:46:54.967Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001664

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001238	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-08	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing plug on spare entry

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T15:48:10.359Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T15:48:25.516Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-02T16:21:30.548Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001669

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000793	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-14	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both EJB-200N1-09-L2-14 side and EJB-200N1-09-L2-15 side

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T16:05:45.476Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T16:06:58.179Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-25

Signature: Digitaly signed by Luca Mussi 2025-01-25T08:39:50.508Z

6- CLEARANCE APPROVAL

Name

Date

Signature

P-EJB-200N1-03-L2-13
P-EJB-200N1-03-L2-14
P-ELF-200N1-09-L2-16



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001671

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000793	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-14		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Core tag is missing for cable on both EJB-200N1-09-L2-14 side and EJB-200N1-09-L2-15 side

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T16:06:52.205Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T16:07:12.448Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T17:01:54.948Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001673

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000802	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-12	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both EJB-200N1-09-L2-02 side and EJB-200N1-09-L2-12 side

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T16:10:30.792Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T16:10:42.379Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-23

Signature: Digitaly signed by Luca Mussi 2025-01-23T18:02:59.242Z

6- CLEARANCE APPROVAL

Name

Date

Signature

P-EJB-200N1-09-L2-12
P-ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-09


P-EJB-200N1-09-L2-13
P-EJB-200N1-09-L2-12
P-EJB-200N1-09-L2-19

P-EJB-200N1-09-L2-12
P-ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-09


P-EJB-200N1-09-L2-13
P-EJB-200N1-09-L2-12
P-EJB-200N1-09-L2-19

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001674

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000802	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-12	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both EJB-200N1-09-L2-02 side and EJB-200N1-09-L2-12 side

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T16:10:14.807Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T16:10:55.954Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:58:53.516Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001675

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000798	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-10	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both EJB-200N1-09-L2-11 side and EJB-200N1-09-L2-10 side

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T16:16:24.392Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T16:16:56.061Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T16:26:05.411Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001676

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000798	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-10	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both EJB-200N1-09-L2-11 side and EJB-200N1-09-L2-10 side

Name: Andrea Andreani

Date: 2024-12-11

Signature: Digitaly signed by Andrea Andreani 2024-12-11T16:16:17.197Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-11
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-11T16:17:15.436Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:42:50.246Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001734

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000774	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T16:41:11.425Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T16:42:07.909Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:46:01.898Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001735

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000774	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T16:43:18.169Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T16:43:31.167Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature: Digitaly signed by Andrea Andreani 2025-01-30T12:19:37.047Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001736

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000774	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T16:46:36.779Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T16:47:02.042Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-21

Signature: Digitaly signed by Andrea Andreani 2025-01-21T16:54:24.182Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001738

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001401	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-01	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T10:50:60.014Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T10:51:02.282Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-27

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-27T10:39:41.986Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001739

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001401	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-01	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing tag

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T16:50:44.219Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T16:51:19.479Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature: Digitaly signed by Andrea Andreani 2025-01-30T12:18:38.317Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001742

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001298	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-01	JB Emergency Lighting Lower Deck - Circuit No. 1	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing terminal block identification

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T16:55:01.067Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T16:55:11.631Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:42:36.614Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001743

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001298	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-01	JB Emergency Lighting Lower Deck - Circuit No. 1	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

silicone not cover completely the rivets of tag and dataplate not, IP not guarantee

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T16:58:20.855Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T16:58:37.035Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:42:28.739Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001744

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000778	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-02	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:03:39.603Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:03:57.741Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:42:22.829Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001747

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000778	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-02	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:04:42.284Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:04:52.967Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T16:25:07.949Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001749

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000779	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-03	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:08:13.522Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:10:07.336Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T18:25:14.208Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001750

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000779	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-03	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:09:05.556Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:10:20.950Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:47:40.571Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001753

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001403	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-03	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

tag is missing

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:13:34.941Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:13:54.722Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T18:25:42.163Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001754

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001403	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-03	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:13:39.316Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:14:06.970Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-27

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-27T10:39:53.159Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001757

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001403	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-03	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing black plastic piece between cover and glass of the light

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:20:14.642Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:20:26.488Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature: Digitaly signed by Luca Mussi 2025-01-17T07:55:52.989Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001760

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000808	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-15	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JBs side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:25:59.472Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:26:17.154Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:46:00.455Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001762

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000808	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-15	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JBs side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:27:24.185Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:28:21.166Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-24

Signature: Digitaly signed by Luca Mussi 2025-01-24T12:32:37.157Z

6- CLEARANCE APPROVAL

Name

Date

Signature


EJB-200N1-09-L2-16
COMTEC
COMPLET


EJB-200N1-09-L2-15
CORTEC
Date installed
Replacement Date
COMPLET
TECHNOR ITALSMEA
MADE IN ITALY

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001767

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000806	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-14	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JBs side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:31:43.145Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:31:54.946Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-25

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-25T09:27:21.803Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001768

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000806	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-14	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JBs side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:31:18.853Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:32:15.631Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:46:09.478Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001774

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001242	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-12	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing terminal block identification

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:37:15.751Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:37:27.603Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:46:18.019Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001778

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000801	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-18	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:47:35.096Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:47:50.273Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:48:54.821Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001779

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000801	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-18	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:48:25.146Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:48:40.043Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:12:14.132Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001780

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000801	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-18	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:49:08.000Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:49:27.598Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-25

Signature: Digitaly signed by Luca Mussi 2025-01-25T08:54:18.413Z

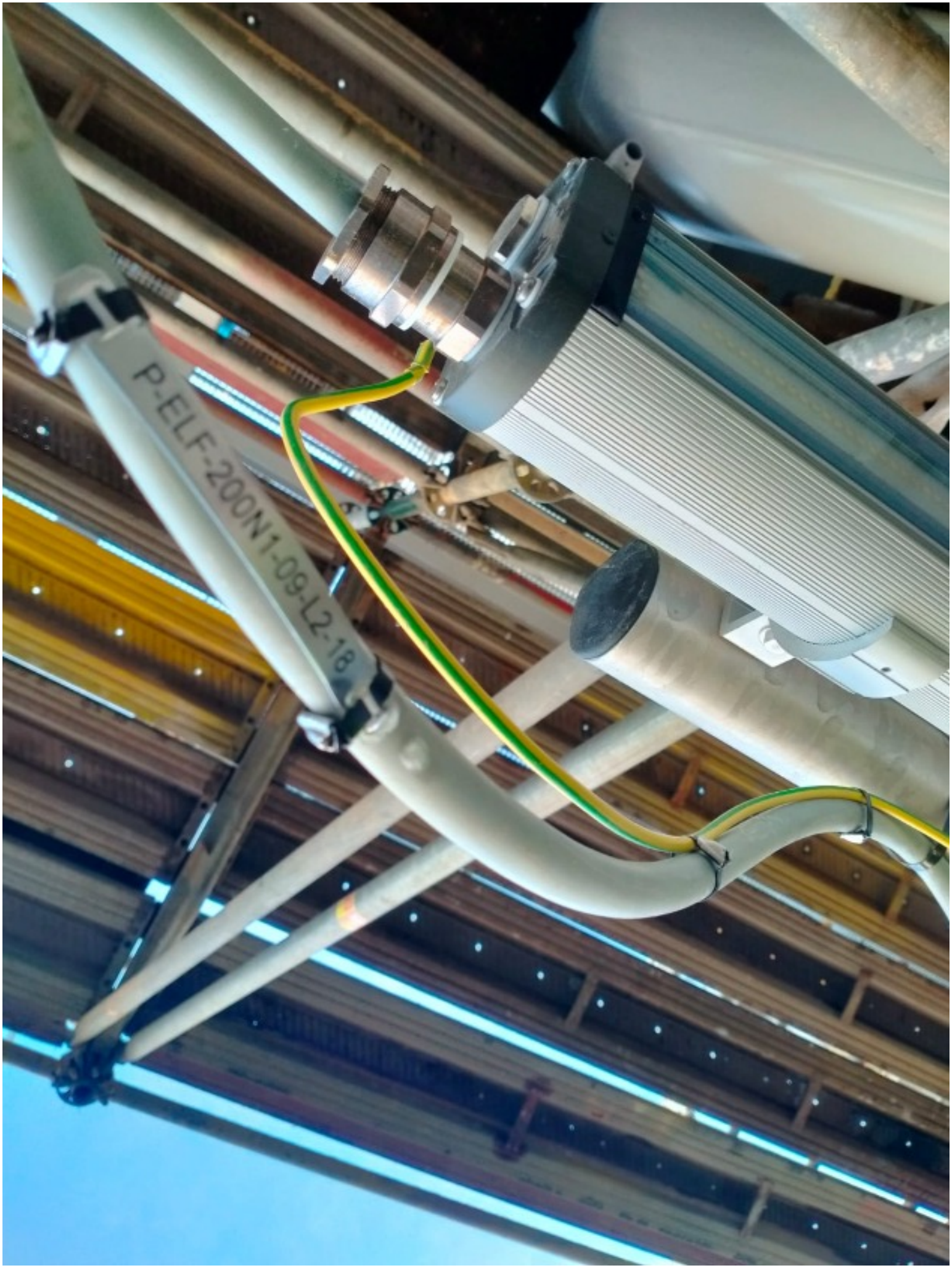
6- CLEARANCE APPROVAL

Name

Date

Signature


P-ELE-200M1-09-L2-18


P-ELF-200N1-09-L2-18

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001781

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000801	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-18	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Missing IP washer between cable galnd and adapter JB side

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:50:48.274Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:51:09.297Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed

Name: Eleonora Carotenuto

Date: 2025-01-16

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-16T12:52:12.088Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001782

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001418	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-18	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Gabriele Bertuccelli

Date: 2024-12-12

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:55:18.874Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:55:39.813Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:07:23.397Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001783

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000800	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-11	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JBs side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:55:34.296Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:56:47.083Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-25

Signature: Digitaly signed by Luca Mussi 2025-01-25T08:56:16.386Z

6- CLEARANCE APPROVAL

Name

Date

Signature


P-EJB-200N1-09-L2-10
P-EJB-200N1-09-L2-11


P-EJB-200N1-09-L2-11
P-EJB-200N1-09-L

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001784

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000800	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-11	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JBs side

Name: Andrea Andreani

Date: 2024-12-12

Signature: Digitaly signed by Andrea Andreani 2024-12-12T17:54:54.819Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-12
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-12T17:55:55.106Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:42:02.970Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001826

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001301	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-04	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T12:56:24.684Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T12:56:44.885Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2024-12-28

Signature: Digitaly signed by Lorenzo Novaga 2024-12-28T11:39:44.952Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001828

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000794	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-08	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:02:53.739Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:03:10.728Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:46:26.554Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001829

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000794	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-08	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:03:54.066Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:04:12.217Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-25

Signature: Digitaly signed by Luca Mussi 2025-01-25T08:41:25.369Z

6- CLEARANCE APPROVAL

Name

Date

Signature

P-EJB-200N1-09-L2-08
P-ELF-200N1-09-L2-15
09-L2-03

P-EJB-200N1-09-L2-08
P-EJF-200N1-09-L2-14

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001830

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001299	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-02	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:09:07.286Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:09:18.629Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2024-12-28

Signature: Digitaly signed by Giovanni Tangianu 2024-12-28T08:57:37.255Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001831

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001298	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-01	JB Emergency Lighting Lower Deck - Circuit No. 1	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:09:53.479Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:10:10.988Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2024-12-28

Signature: Digitaly signed by Giovanni Tangianu 2024-12-28T08:57:48.635Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001832

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001246	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-16		JB - EMERGENCY LIGHTING
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:10:51.213Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:11:04.764Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done.

Name: Lorenzo Novaga

Date: 2024-12-28

Signature: Digitaly signed by Lorenzo Novaga 2024-12-28T11:40:02.630Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001833

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001245	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-15	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:11:40.258Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:12:06.367Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-02T16:22:59.499Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001834

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001244	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-14	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:12:43.688Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:12:58.207Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2024-12-28

Signature: Digitaly signed by Lorenzo Novaga 2024-12-28T11:40:21.148Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001835

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000804	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-13	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:18:22.043Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:20:02.864Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:46:34.648Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001836

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000804	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-13	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:23:28.372Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:23:47.693Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-23

Signature: Digitaly signed by Luca Mussi 2025-01-23T18:00:33.417Z

6- CLEARANCE APPROVAL

Name

Date

Signature

P-EJB-200N1-09-L2-13


P-EJB-200N1-09-L2-13

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001837

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001403	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-03	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing screw between enclosure and internal din rail, also missing the earthing continuity wire

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:22:40.029Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:24:09.864Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:41:54.934Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001838

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001243	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-13		JB - EMERGENCY LIGHTING
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:25:27.239Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:25:40.306Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2024-12-28

Signature: Digitaly signed by Lorenzo Novaga 2024-12-28T11:40:33.444Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001839

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001242	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-12	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:26:20.414Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:26:34.036Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2024-12-28

Signature: Digitaly signed by Lorenzo Novaga 2024-12-28T11:40:43.194Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001840

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001241	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-11	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T18:27:26.722Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:27:50.323Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2024-12-28

Signature: Digitaly signed by Lorenzo Novaga 2024-12-28T11:40:55.481Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001841

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000810	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-16	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:28:11.674Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:28:25.092Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:50:42.886Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001842

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001238	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-08	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:28:18.360Z

3 - DEFECT ASSESSMENT

,

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:28:36.097Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Lorenzo Novaga

Date: 2024-12-28

Signature: Digitaly signed by Lorenzo Novaga 2024-12-28T11:41:05.664Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001843

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000810	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-16	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:28:45.876Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:28:09.636Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-25

Signature: Digitaly signed by Luca Mussi 2025-01-25T08:28:24.594Z

6- CLEARANCE APPROVAL

Name

Date

Signature


EJB-200N1-09-L2-05
CORTEC
Date Installed
Replacement Date
COMPLET


EJB-200N1-09-L2-16
CORTEC
Date installed
Replacement Date
COMPLET
MADE IN ITALY

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001844

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001237	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-07	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:29:08.643Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:29:22.554Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:13:53.748Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001850

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000782	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-05	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:35:26.014Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:35:37.555Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2024-12-19

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-19T17:56:52.989Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001851

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000782	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-05	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:35:58.211Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:36:11.691Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T18:50:44.949Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001853

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000789	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-12	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on light side

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:40:51.104Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:41:04.752Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-25

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-25T09:27:34.633Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001854

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000789	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-12		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:41:40.743Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:41:52.928Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:51:19.677Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001855

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000789	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-12		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:42:19.773Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:42:33.436Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:08:48.160Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001856

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000804	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-13	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Bending radius of the cable to be correct on cable gland ingress under JB EJB-200N1-09-L2-12

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:42:45.613Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:43:18.525Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:21:17.145Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001857

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000785	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-07	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:44:46.232Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:45:00.997Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:51:49.549Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001858

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000789	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-12		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

missing teflon IP washer beetwen cable gland and adapter

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:45:13.688Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:45:25.511Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-02

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-02T16:23:11.795Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001859

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000785	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-07	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:45:53.242Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:46:03.424Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:06:34.576Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001860

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000785	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-07	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:46:26.889Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:46:54.090Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature: Digitaly signed by Andrea Andreani 2025-01-30T12:19:58.156Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001861

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000811	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-23		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

missing cable labelling on light side

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:48:24.912Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:48:37.896Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-24

Signature: Digitaly signed by Luca Mussi 2025-01-24T12:12:51.288Z

6- CLEARANCE APPROVAL

Name

Date

Signature


P-ELF-200N1-09-L2-23


P-EJB-200N1-09-L2-15
P-ELF-200N1-09-L2-23
P-EJB-200N1-09-L

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001862

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000811	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-23		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:49:33.285Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:49:45.483Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:52:11.256Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001863

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000811	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-23		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:50:29.924Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:51:06.241Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:15:43.284Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001864

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001405	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-05	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Tag is missing

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:53:07.874Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:56:19.816Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T18:50:54.041Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001865

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001407	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-07	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:53:28.774Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:53:39.582Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-27

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-27T10:40:06.517Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001866

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001405	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-05	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:53:47.309Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:54:01.647Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2024-12-30

Signature: Digitaly signed by Eleonora Carotenuto 2024-12-30T12:13:58.547Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001867

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001407	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-07	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

tag is missing

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:53:52.466Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:54:03.201Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-31

Signature: Digitaly signed by Andrea Andreani 2025-01-31T11:32:29.057Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001868

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001405	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-05	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Missing one screw on cover of the light

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:55:13.597Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:55:27.990Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:41:44.726Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001869

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001405	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-05	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plastic plugs are installed

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:56:54.513Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:57:10.614Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:15:18.942Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001870

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001407	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-07	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration

Name: Andrea Andreani

Date: 2024-12-13

Signature: Digitaly signed by Andrea Andreani 2024-12-13T13:56:54.162Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-13T13:57:15.153Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:08:23.229Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001871

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001405	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-05	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Black plastic piece of the cover is missing

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:59:02.940Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:59:20.516Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-17

Signature: Digitaly signed by Luca Mussi 2025-01-17T07:56:49.084Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001872

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001405	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-05	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Light clash with scaffolding. Need to be checked after removing scaffolding

Name: Gabriele Bertuccelli

Date: 2024-12-13

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-13T14:00:23.564Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-13T14:00:36.084Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done.

Name: Giovanni Tangianu

Date: 2025-03-25

Signature: Digitaly signed by Giovanni Tangianu 2025-03-25T14:56:53.607Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001912

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001412	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-14	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-16

Signature: Digitaly signed by Andrea Andreani 2024-12-16T16:04:00.309Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-16T16:05:48.050Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature: Digitaly signed by Luca Mussi 2024-12-19T17:36:04.995Z

6- CLEARANCE APPROVAL

Name

Date

Signature


VERNAZZA
TEREX +39 051 781572
ELF-200N1-09-L2-14
VERNAZZA

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001913

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001412	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-14	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Tag is missing

Name: Andrea Andreani

Date: 2024-12-16

Signature: Digitaly signed by Andrea Andreani 2024-12-16T16:03:24.534Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-16T16:06:06.489Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature: Digitaly signed by Luca Mussi 2024-12-19T17:36:39.044Z

6- CLEARANCE APPROVAL

Name

Date

Signature


VERNAZZA
TEREX +39 051 781572
ELF-200N1-09-L2-14
VERNAZZA

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001914

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001412	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-14	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-16

Signature: Digitaly signed by Andrea Andreani 2024-12-16T16:05:03.962Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-16T16:06:40.143Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:09:10.078Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001922

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001421	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-21	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. another support needs to be added

Name: Andrea Andreani

Date: 2024-12-16

Signature: Digitaly signed by Andrea Andreani 2024-12-16T16:12:35.003Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-16T16:14:56.983Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:09:21.186Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001923

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001421	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-21	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-16

Signature: Digitaly signed by Andrea Andreani 2024-12-16T16:12:24.135Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-16T16:15:02.437Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature: Digitaly signed by Luca Mussi 2024-12-19T17:50:40.332Z

6- CLEARANCE APPROVAL

Name

Date

Signature


ELF-200N1-09-L2-21

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001924

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001421	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-21	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Tag is missing

Name: Andrea Andreani

Date: 2024-12-16

Signature: Digitaly signed by Andrea Andreani 2024-12-16T16:12:17.459Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-16T16:15:08.110Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2024-12-19

Signature: Digitaly signed by Luca Mussi 2024-12-19T17:51:00.912Z

6- CLEARANCE APPROVAL

Name

Date

Signature


ELF-200N1-09-L2-21

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001930

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000807	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-21		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Gabriele Bertuccelli

Date: 2024-12-16

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:26:59.625Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:27:13.034Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:53:04.626Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001931

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000807	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-21		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards

Name: Gabriele Bertuccelli

Date: 2024-12-16

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:27:41.790Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:27:54.398Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-04T12:24:04.144Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001933

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000807	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-21		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

missing cable labelling on light side

Name: Gabriele Bertuccelli

Date: 2024-12-16

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:28:25.130Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:28:38.091Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-24

Signature: Digitaly signed by Luca Mussi 2025-01-24T12:17:49.081Z

6- CLEARANCE APPROVAL

Name

Date

Signature


P-EIF-200N1-09-L2-21



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001934

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000807	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-21		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Present earthing tag on cable gland light side

Name: Gabriele Bertuccelli

Date: 2024-12-16

Signature: Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:31:08.748Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Gabriele Bertuccelli
3.4 Activity code	MC Mechanical Completion	Date	2024-12-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:31:25.606Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:16:57.032Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001940

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001402	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-02	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T10:36:18.334Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T10:39:44.323Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-03-26

Signature: Digitaly signed by Giovanni Tangianu 2025-03-26T09:10:36.966Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001941

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001402	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-02	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T10:35:54.613Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T10:39:56.613Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:09:37.919Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001942

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001415	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-11	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Identification tag is missing

Name: Luca Mussi

Date: 2024-12-17

Signature: Digitaly signed by Luca Mussi 2024-12-17T10:55:34.343Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-17T10:56:01.742Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T16:24:24.641Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001943

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000775	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-02	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Bending radius of the cable to be correct on cable gland ingress under JB and on cable gland light side

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T10:53:51.659Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T10:59:44.668Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:15:59.695Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001944

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000775	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-02	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JB and light side

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T10:43:55.679Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T11:00:04.931Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:55:44.472Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001945

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000775	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-02	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing cable labelling on both JB and light side

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T10:43:02.087Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T11:00:17.931Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T16:26:31.699Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001946

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000776	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-11		Normal Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Bending radius of the cable to be correct on both lights side

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T11:04:46.678Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T11:04:52.884Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:08:27.797Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001947

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000776	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-11		Normal Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

missing cable labelling on both lights side

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T11:03:50.962Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T11:05:16.062Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T16:28:34.674Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001948

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000776	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-11		Normal Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Core tag is missing for cable on both lights side

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T11:03:45.188Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T11:05:22.426Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

done

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T16:39:10.264Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001964

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001402	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-02	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Tag is missing

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T10:37:19.329Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T16:29:40.701Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:41:13.068Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001975

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000775	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-02	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing earthing connection of secondary cable tray

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T17:41:42.935Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T17:42:22.604Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:17:25.356Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30001976

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000775	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-02	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.

Name: Andrea Andreani

Date: 2024-12-17

Signature: Digitaly signed by Andrea Andreani 2024-12-17T17:41:53.305Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-17T17:42:32.811Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:41:05.284Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002080

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000787	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-09	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Cable is entering the Light cable gland downwards while it should be upwards.

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T17:43:28.770Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-19
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-19T17:47:07.716Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:07:25.861Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002081

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000787	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-09	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T17:42:22.435Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-19
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-19T17:47:22.302Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-23

Signature: Digitaly signed by Andrea Andreani 2025-01-23T11:30:13.538Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002082

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000787	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-09		Normal Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T17:40:49.299Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-19
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-19T17:47:41.891Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-30

Signature: Digitaly signed by Andrea Andreani 2025-01-30T12:20:16.912Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002086

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001409	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-09	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing trafolite tag

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T17:58:41.895Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-19
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-19T18:08:01.304Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:19:47.216Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002087

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001409	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-09	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T17:59:46.187Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-19
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-19T18:08:16.793Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:09:46.721Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002088

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001409	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-09	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The earthing cable passes inside the unistrut and through the fixing holes

Name: Andrea Andreani

Date: 2024-12-19

Signature: Digitaly signed by Andrea Andreani 2024-12-19T18:00:48.821Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-19
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-19T18:08:42.502Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-23

Signature: Digitaly signed by Andrea Andreani 2025-01-23T11:30:05.181Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002092

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000792	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-07	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing SS cable tag on both JBs side

Name: Andrea Andreani

Date: 2024-12-20

Signature: Digitaly signed by Andrea Andreani 2024-12-20T10:29:02.331Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-20
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-20T10:31:23.810Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T16:25:40.740Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002093

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000792	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-07	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Core tag is missing for cable on both JBs side

Name: Andrea Andreani

Date: 2024-12-20

Signature: Digitaly signed by Andrea Andreani 2024-12-20T10:29:33.991Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-20
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-20T10:31:35.157Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-01-31

Signature: Digitaly signed by Alessio Polo 2025-01-31T10:46:57.744Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002094

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000792	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-07	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body.
On both JBs side

Name: Andrea Andreani

Date: 2024-12-20

Signature: Digitaly signed by Andrea Andreani 2024-12-20T10:30:59.122Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2024-12-20
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2024-12-20T10:31:48.490Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-20

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-20T17:20:06.735Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002169

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000795	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-15	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Earthing cable need to be fixed. See attached photo.

Name: Giovanni Tangianu

Date: 2024-12-27

Signature: Digitaly signed by Giovanni Tangianu 2024-12-27T16:46:07.633Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-27
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-12-27T16:46:18.863Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

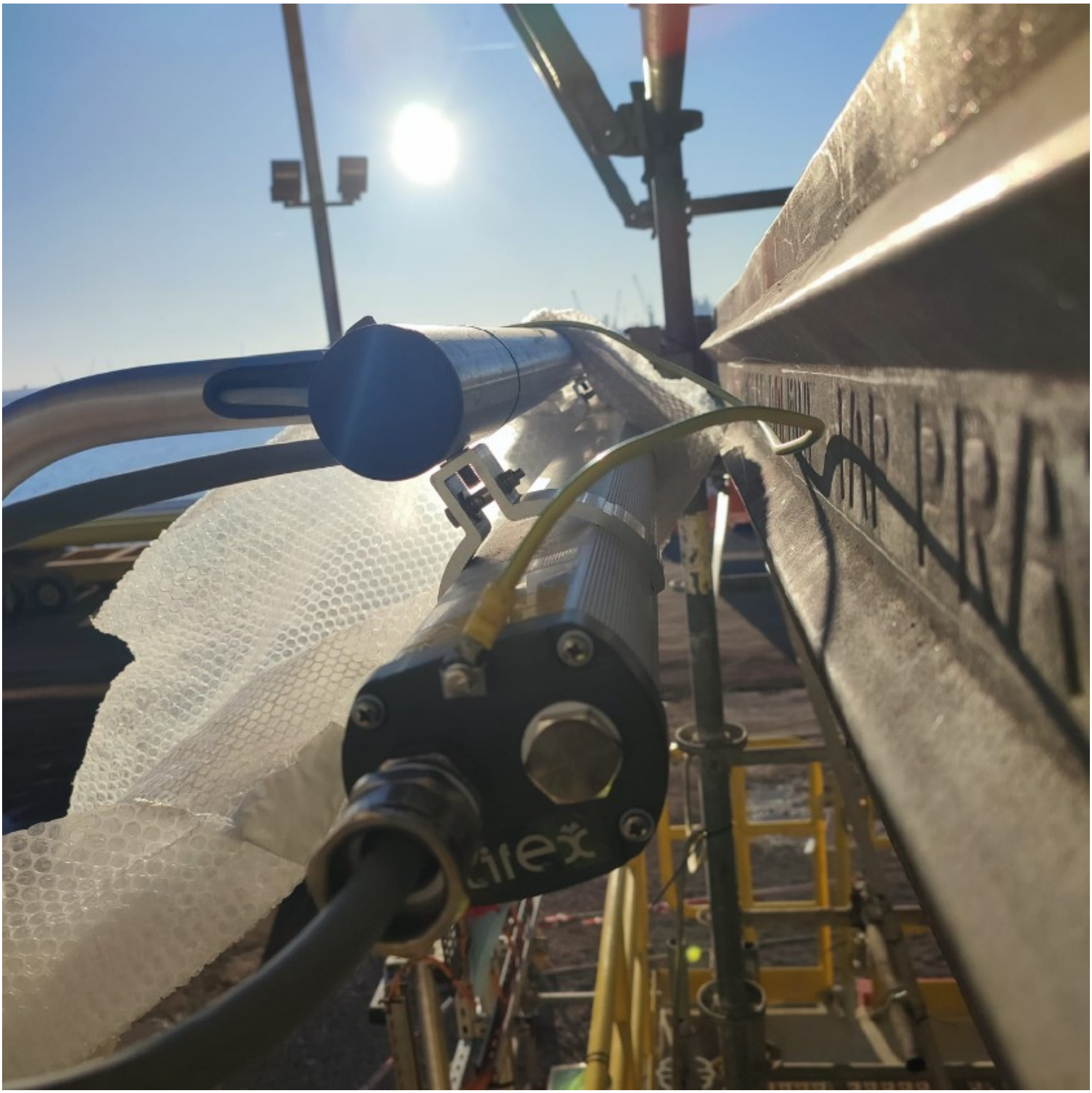
Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:12:52.677Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002171

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000795	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-15	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

cable tag is missing side the lamp.

Name: Giovanni Tangianu

Date: 2024-12-27

Signature: Digitaly signed by Giovanni Tangianu 2024-12-27T16:52:43.666Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-27
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-12-27T16:52:54.283Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-25

Signature: Digitaly signed by Luca Mussi 2025-01-25T08:44:57.268Z

6- CLEARANCE APPROVAL

Name

Date

Signature


P-ELF-200N1-09-L2-15

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002172

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000797	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-16	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The termoshrink is not properly installed. See attached photo.

Name: Giovanni Tangianu

Date: 2024-12-27

Signature: Digitaly signed by Giovanni Tangianu 2024-12-27T16:57:17.947Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-27
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-12-27T16:57:33.056Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

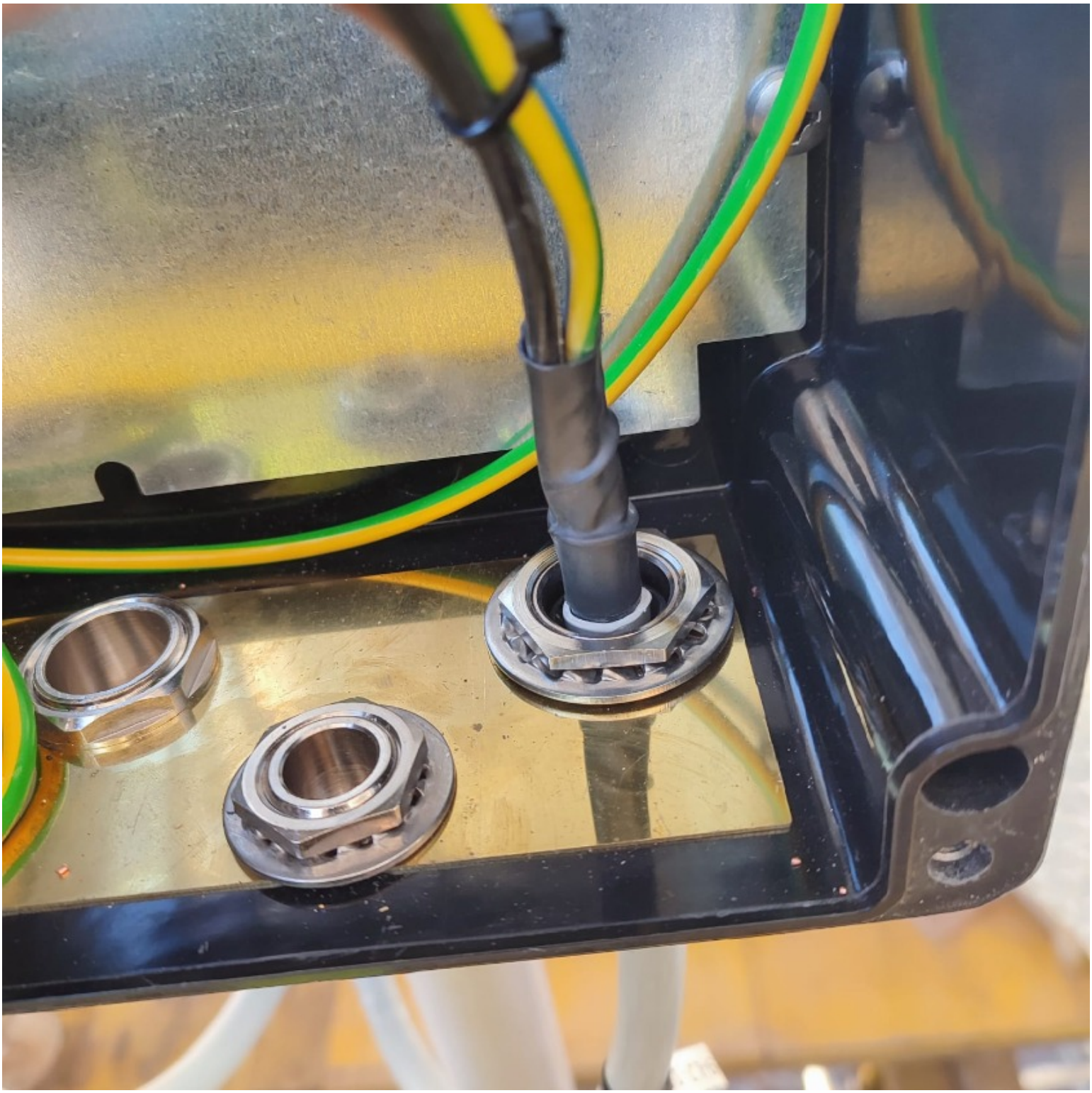
Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:12:39.848Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002178

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000799	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-17	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Earthing cable need to be fixed. See attached photo.

Name: Giovanni Tangianu

Date: 2024-12-28

Signature: Digitaly signed by Giovanni Tangianu 2024-12-28T07:16:54.880Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-12-28T07:17:07.945Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:12:31.241Z

6- CLEARANCE APPROVAL

Name

Date

Signature


TEREX
BALDINI

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002179

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000809	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-22	Emergency Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The termoshrink is not properly installed . See attached photo.

Name: Giovanni Tangianu

Date: 2024-12-28

Signature: Digitaly signed by Giovanni Tangianu 2024-12-28T07:27:09.894Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-12-28T07:27:23.709Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:16:15.601Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002180

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000809	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-22		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Earthing cable need to be fixed. See attached photo.

Name: Giovanni Tangianu

Date: 2024-12-28

Signature: Digitaly signed by Giovanni Tangianu 2024-12-28T07:28:19.766Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Giovanni Tangianu
3.4 Activity code	MC Mechanical Completion	Date	2024-12-28
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Giovanni Tangianu 2024-12-28T07:28:31.346Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-20

Signature: Digitaly signed by Andrea Andreani 2025-01-20T17:16:03.247Z

6- CLEARANCE APPROVAL

Name

Date

Signature


TEREX
BALDINI

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002214

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001415	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-11	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Missing identification tag.

Name: Luca Mussi

Date: 2024-12-17

Signature: Digitaly signed by Luca Mussi 2024-12-17T10:49:57.168Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-30
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-30T07:30:26.849Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-04T12:23:39.568Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002270

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000805	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-20		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

On light side (ELF-200N1-09-l2-20) SS cable tag is missing.

Name: Luca Mussi

Date: 2024-12-31

Signature: Digitaly signed by Luca Mussi 2024-12-31T11:17:20.657Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2024-12-31
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2024-12-31T11:17:39.144Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-23

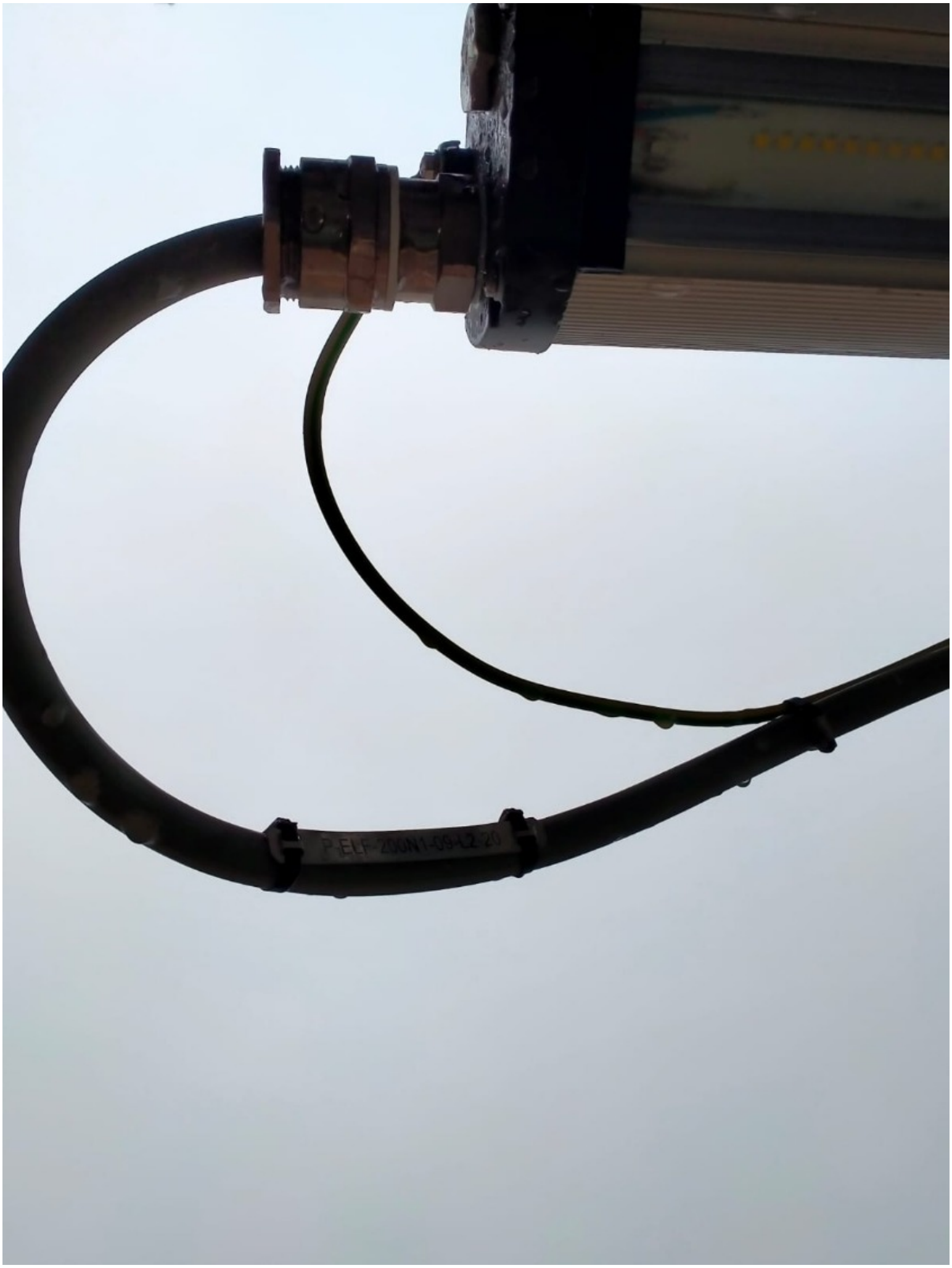
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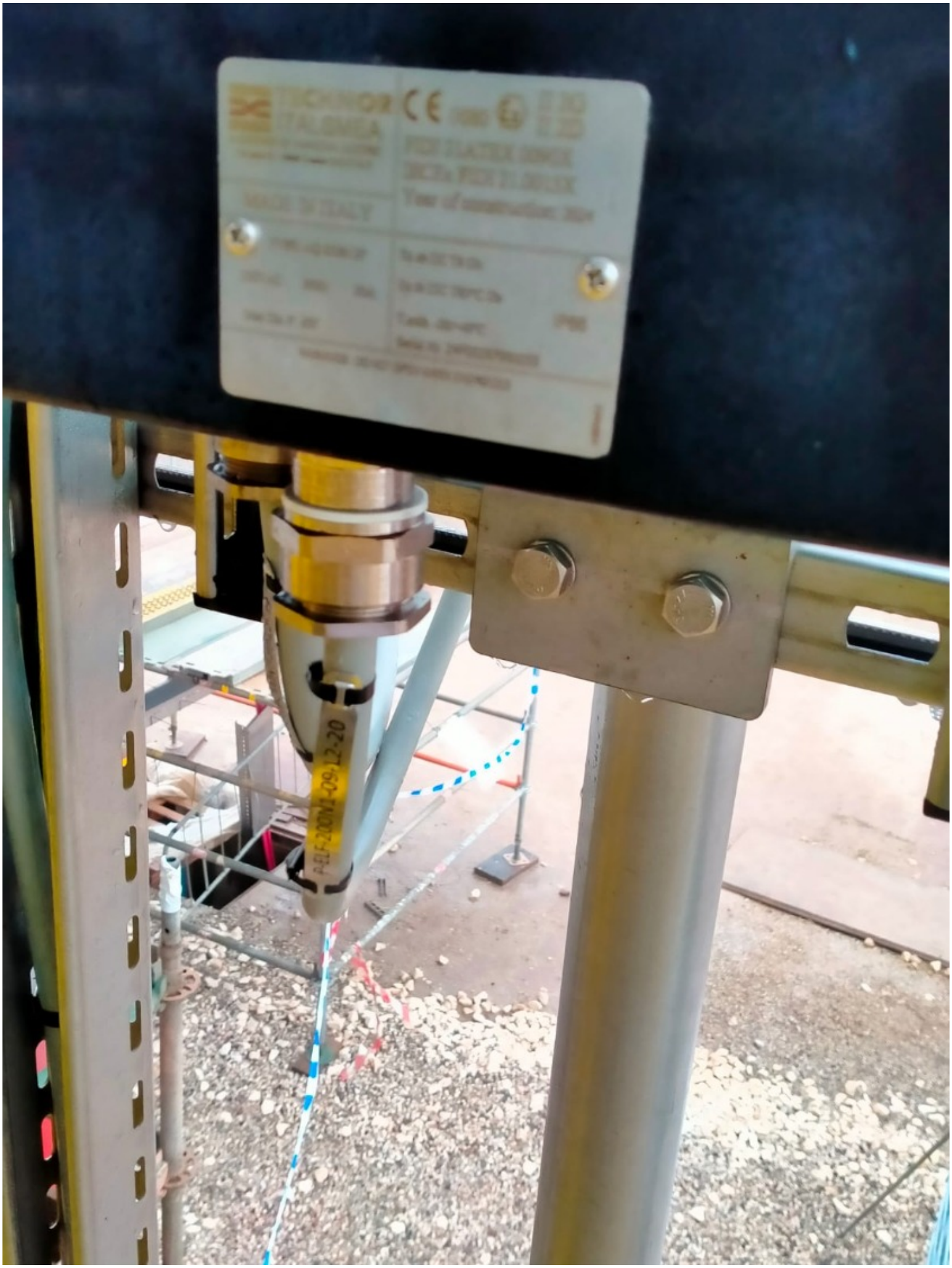
6- CLEARANCE APPROVAL

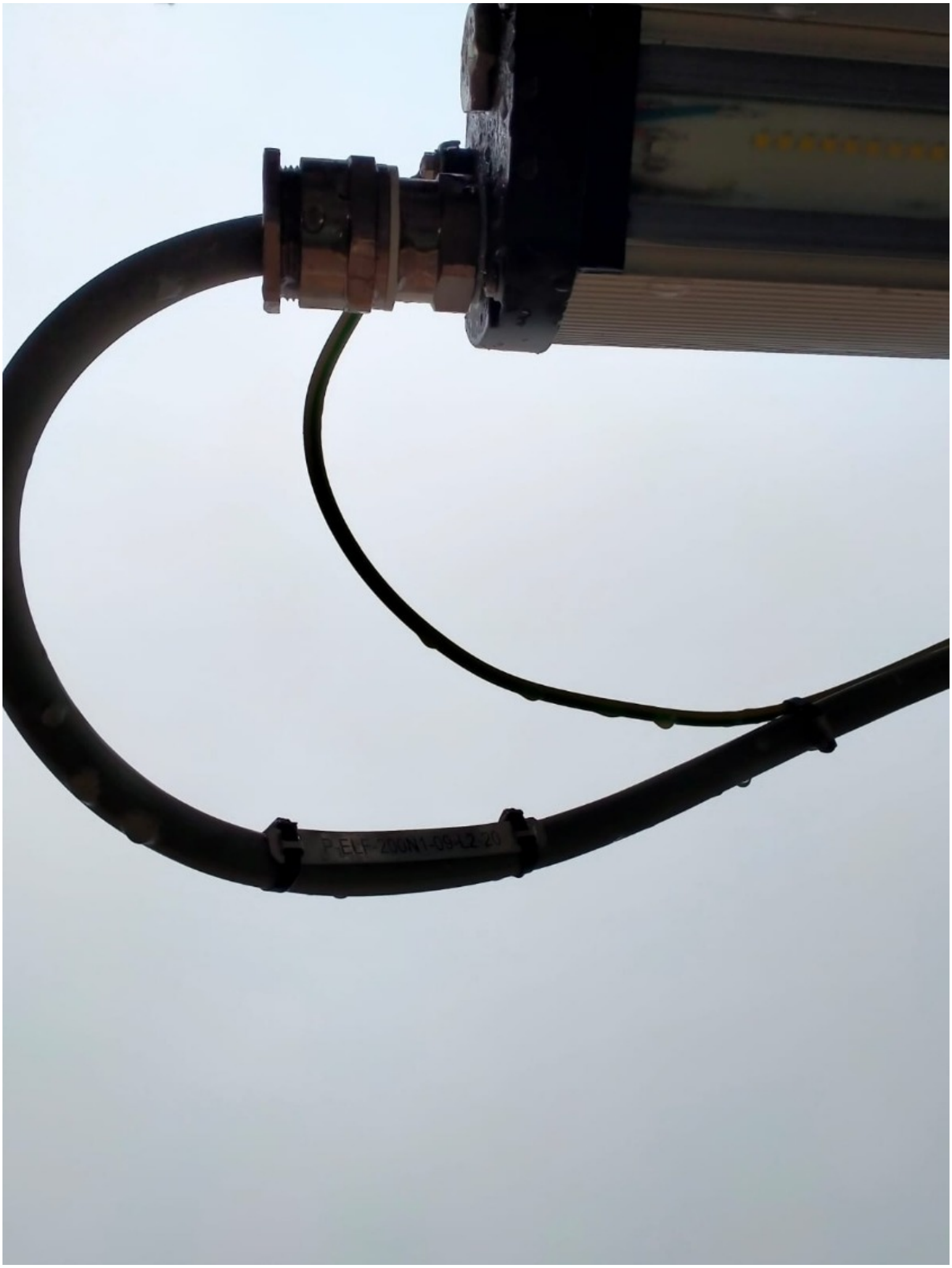
Name

Date

Signature


P-ELF-200N1-09-L2-20




P-ELF-200N1-09-L2-20

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002282

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000805	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-20		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

On light side, SS cable tag is missing.

Name: Luca Mussi

Date: 2025-01-02

Signature: Digitaly signed by Luca Mussi 2025-01-02T13:04:57.051Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-02
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-02T13:05:08.109Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Name: Luca Mussi

Date: 2025-01-24

Signature: Digitaly signed by Luca Mussi 2025-01-24T12:21:01.568Z

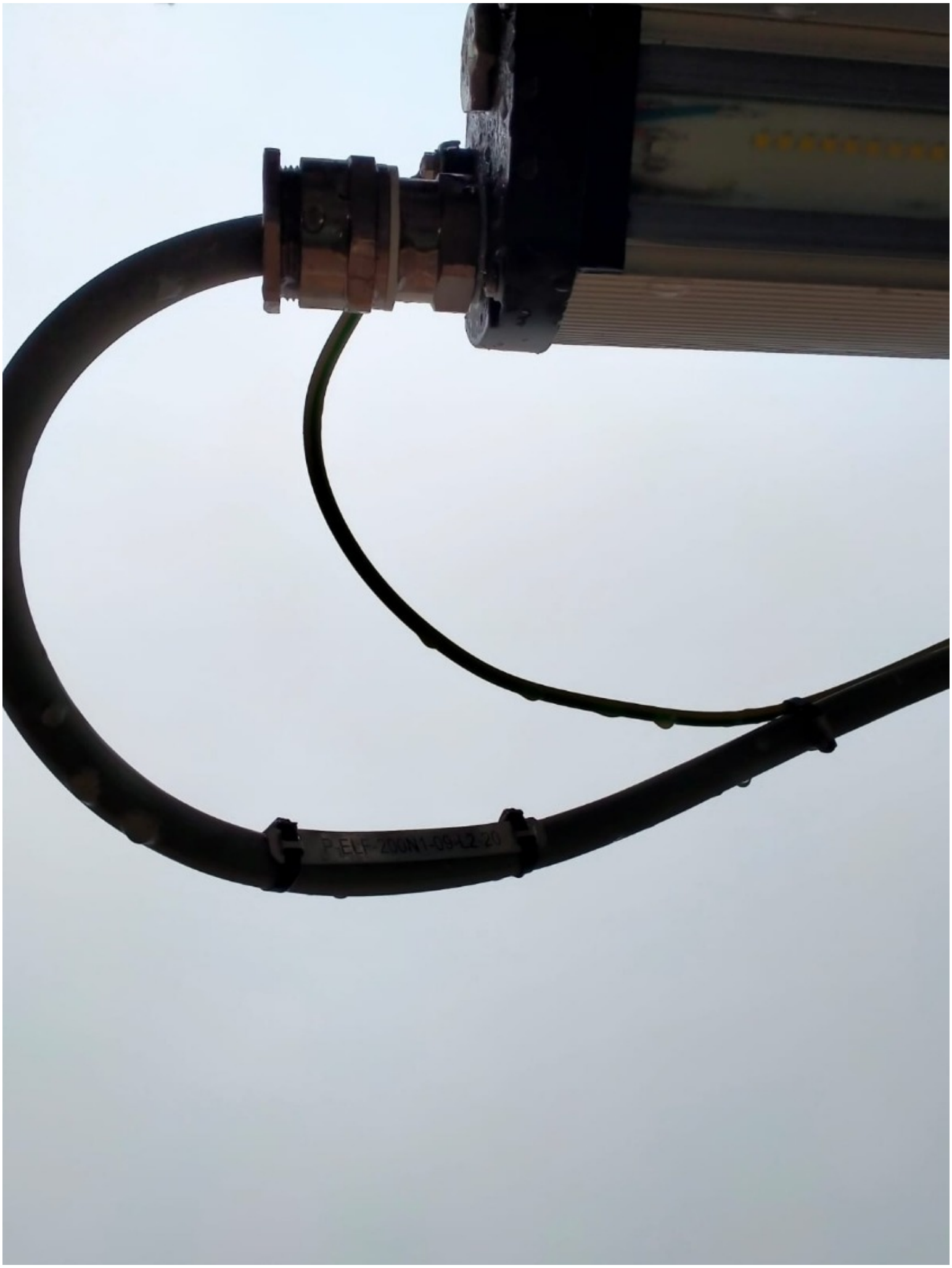
6- CLEARANCE APPROVAL

Name

Date

Signature




P-ELF-200N1-09-L2-20

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002283

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000805	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-20		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Adapter ADAP_M20MxM25F (as per cable list) is missing.

Name: Luca Mussi

Date: 2025-01-02

Signature: Digitaly signed by Luca Mussi 2025-01-02T13:28:26.362Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-02
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-02T13:28:49.548Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

The cable gland and adapter was replaced.

Name: Giovanni Tangianu

Date: 2025-01-17

Signature: Digitaly signed by Giovanni Tangianu 2025-01-17T16:46:50.356Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002284

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000803	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-19		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

On light side, SS cable tag is missing.

Name: Luca Mussi

Date: 2025-01-02

Signature: Digitaly signed by Luca Mussi 2025-01-02T13:30:43.845Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-02
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-02T13:31:02.195Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-23

Signature: Digitaly signed by Luca Mussi 2025-01-23T17:56:50.964Z

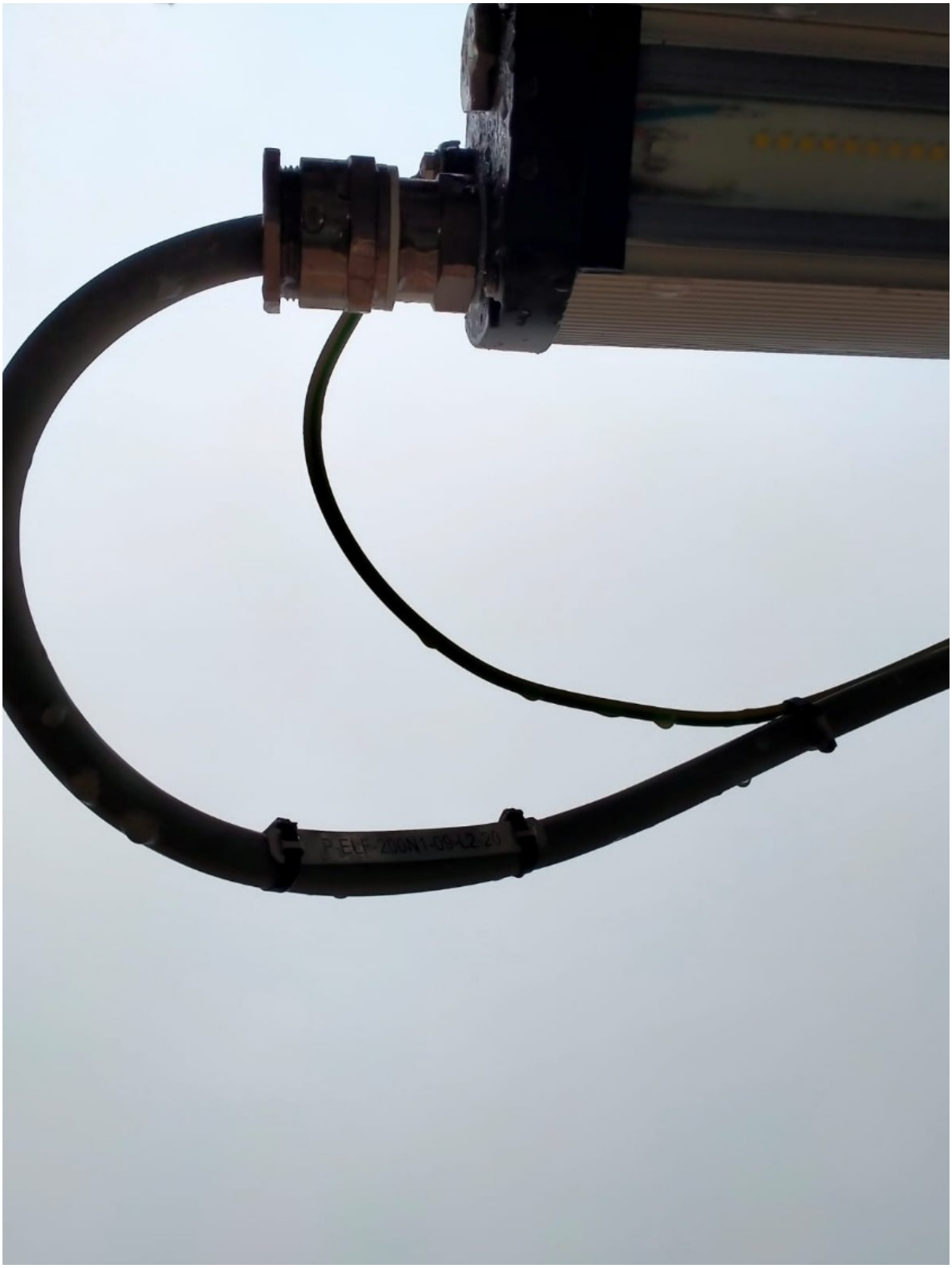
6- CLEARANCE APPROVAL

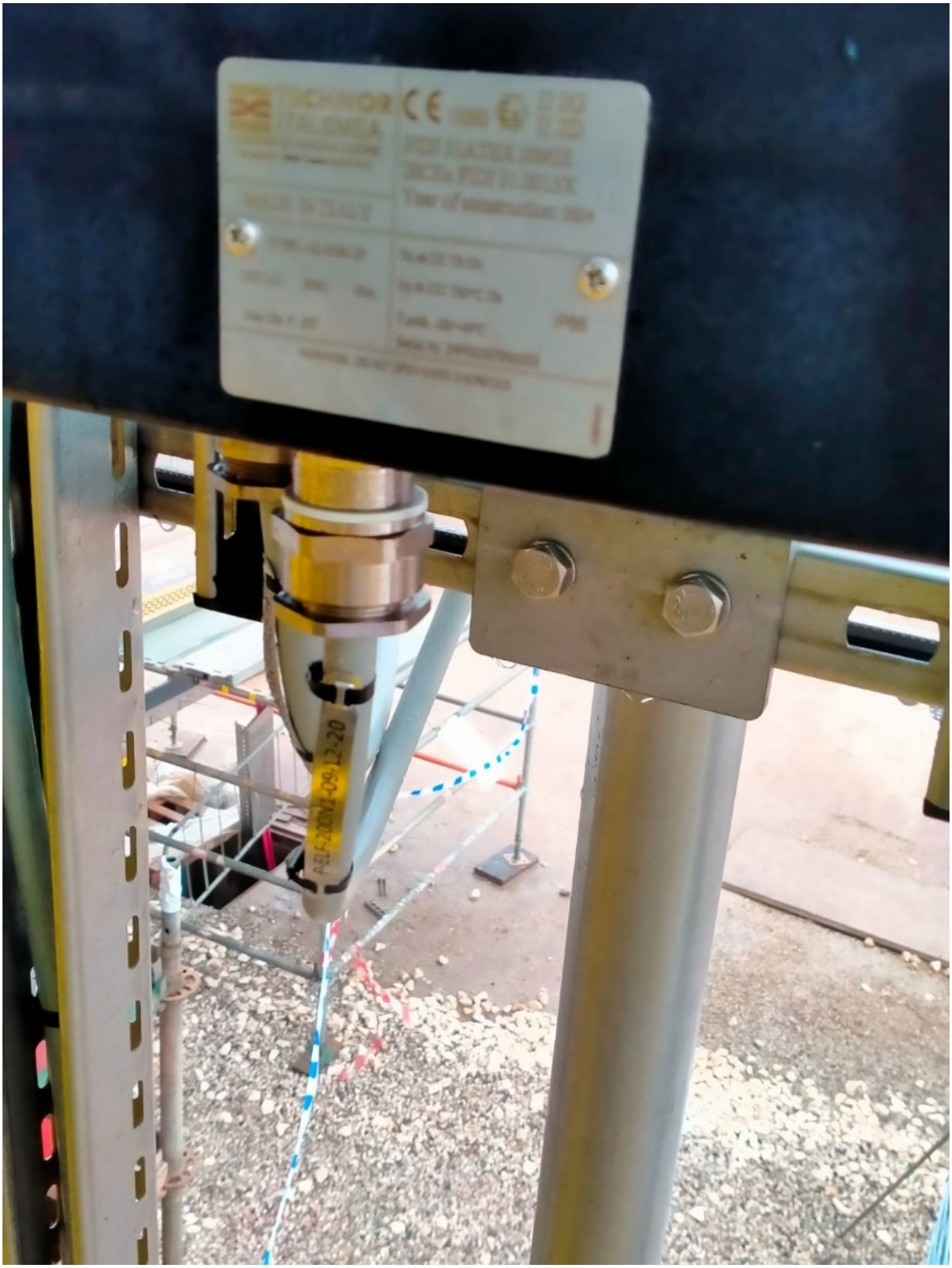
Name

Date

Signature




P-ELF-200N1-09-L2-20



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002285

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000803	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-19		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Bending radius of the cable to be corrected on cable gland entry on light side.

Cable is entering the Light cable gland downwards while it should be upwards.

Name: Luca Mussi

Date: 2025-01-02

Signature: Digitaly signed by Luca Mussi 2025-01-02T13:34:15.694Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-02
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-02T13:34:27.806Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Alessio Polo

Date: 2025-02-04

Signature: Digitaly signed by Alessio Polo 2025-02-04T13:43:49.301Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002362

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001419	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-19	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

All lock nuts to stop the lamp are missing

Name: Luca Mussi

Date: 2025-01-07

Signature: Digitaly signed by Luca Mussi 2025-01-07T08:47:43.625Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-07T08:47:53.374Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-16

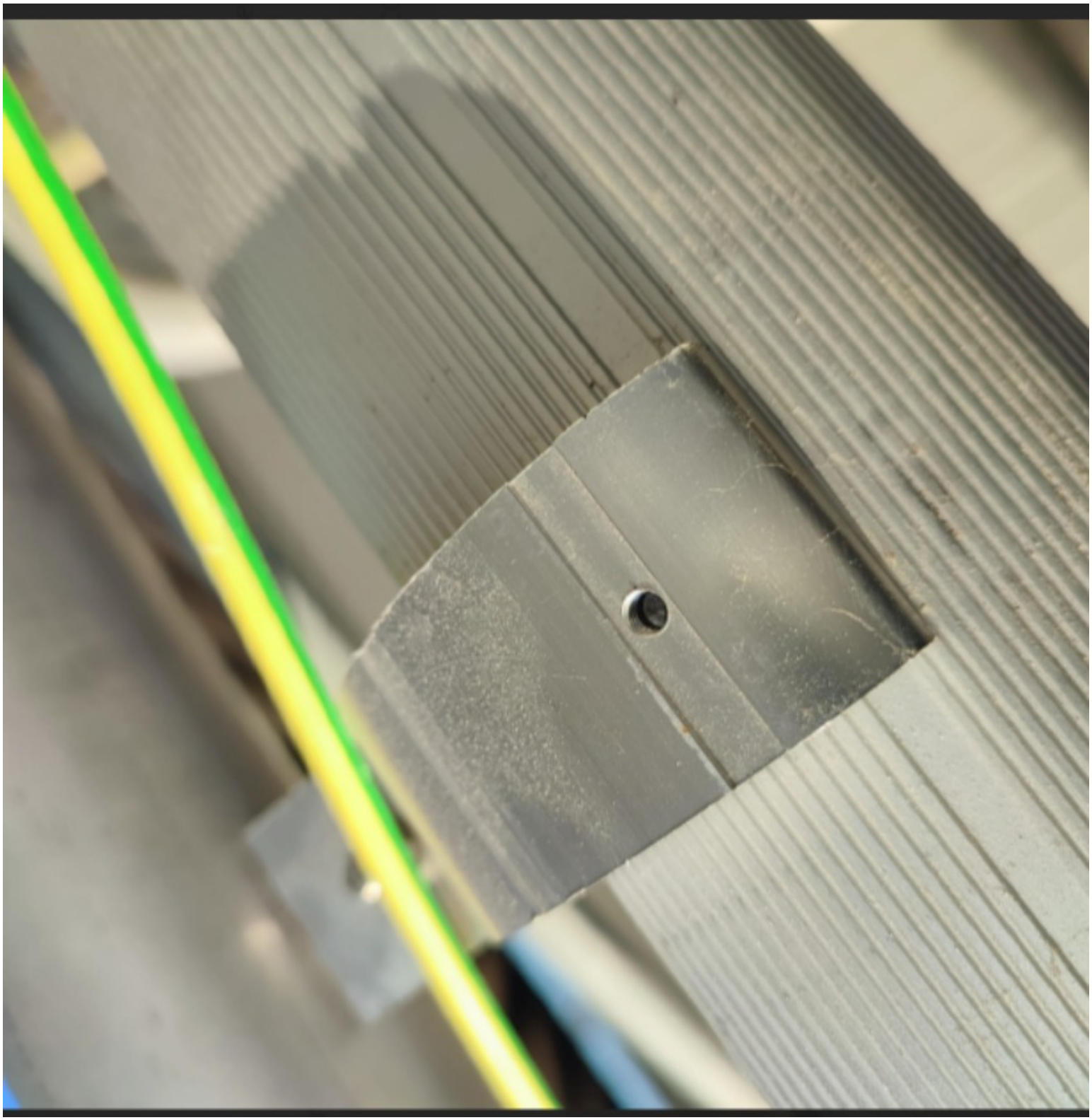
Signature: Digitaly signed by Luca Mussi 2025-01-16T17:07:42.873Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002363

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001419	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-19	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. Another support needs to be added

Name: Luca Mussi

Date: 2025-01-07

Signature: Digitaly signed by Luca Mussi 2025-01-07T08:48:59.285Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-07T08:49:22.364Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:12:30.507Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002364

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001420	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-20	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. Another support needs to be added

Name: Luca Mussi

Date: 2025-01-07

Signature: Digitaly signed by Luca Mussi 2025-01-07T08:50:22.602Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-07T08:50:32.213Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:12:38.945Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002365

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001420	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-20	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

All lock nuts to stop the lamp are missing

Name: Luca Mussi

Date: 2025-01-07

Signature: Digitaly signed by Luca Mussi 2025-01-07T08:50:59.297Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-07
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-07T08:51:11.934Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-16

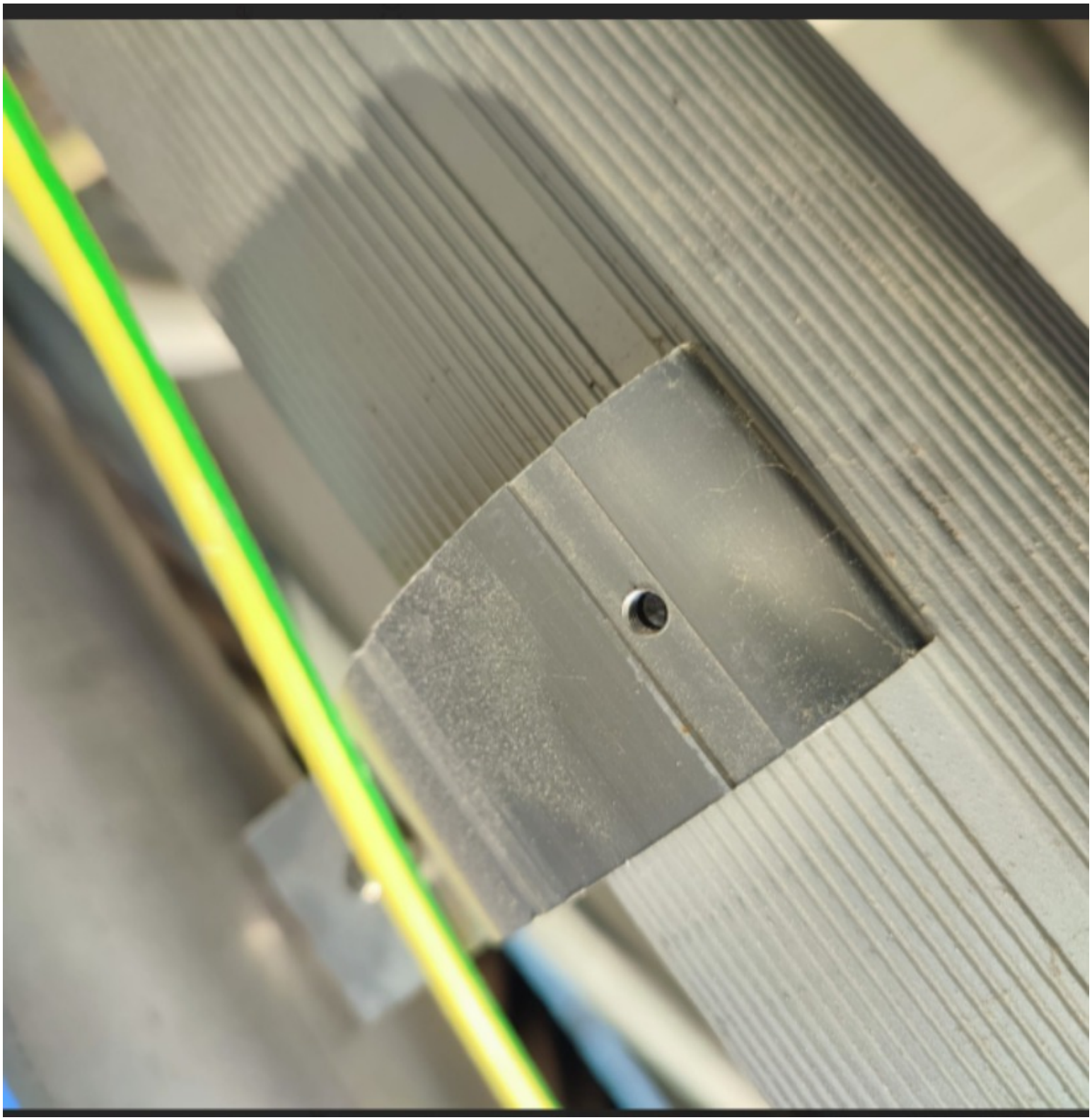
Signature: Digitaly signed by Luca Mussi 2025-01-16T17:07:59.658Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002696

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000780	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-04	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Missing SS cable tag From/to

Name: Paolo Schintu

Date: 2025-01-13

Signature: Digitaly signed by Paolo Schintu 2025-01-13T08:43:28.082Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Paolo Schintu 2025-01-13T08:43:37.782Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T16:27:10.270Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002697

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000783	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-06	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Missing SS cable tag From/to

Name: Paolo Schintu

Date: 2025-01-13

Signature: Digitaly signed by Paolo Schintu 2025-01-13T08:45:16.350Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Paolo Schintu 2025-01-13T08:45:26.463Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T16:27:55.916Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002698

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000788	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-05	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Missing SS cable tag From/to

Name: Paolo Schintu

Date: 2025-01-13

Signature: Digitaly signed by Paolo Schintu 2025-01-13T08:54:10.807Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Paolo Schintu
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Paolo Schintu 2025-01-13T08:54:19.999Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-24

Signature: Digitaly signed by Luca Mussi 2025-01-24T12:43:31.200Z

6- CLEARANCE APPROVAL

Name

Date

Signature


P-EJB-200N1-09-L2-05


P-EJB-200N1-09-L2-05

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002712

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000790	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-06	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing SS cable tag on both JBs (EJB-200N1-09-L2-06 & EJB-200N1-09-L2-07) side

Name: Andrea Andreani

Date: 2025-01-13

Signature: Digitaly signed by Andrea Andreani 2025-01-13T13:50:47.707Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-13T13:51:28.863Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-24

Signature: Digitaly signed by Luca Mussi 2025-01-24T12:47:29.281Z

6- CLEARANCE APPROVAL

Name

Date

Signature

P-EJB-200N1-09-L2-06
P-EJB-200N1-09-L2-07
P-ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-08

P-ELF-200N1-09-L2-13
P-EJB-200N1-09-L2-06

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002713

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000791	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-13		Emergency Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-13

Signature: Digitaly signed by Andrea Andreani 2025-01-13T13:56:15.218Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-13T13:56:48.229Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-25

Signature: Digitaly signed by Luca Mussi 2025-01-25T08:37:59.567Z

6- CLEARANCE APPROVAL

Name

Date

Signature

P-EJB-200N1-09-L2-06
P-EJF-200N1-09-L2-13

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002714

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001411	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-13	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

All lock nuts to stop the lamp are missing

Name: Andrea Andreani

Date: 2025-01-13

Signature: Digitaly signed by Andrea Andreani 2025-01-13T14:01:11.639Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-13T14:01:24.818Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T17:08:09.638Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002715

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001411	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-13	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Trafolite tag is missing

Name: Andrea Andreani

Date: 2025-01-13

Signature: Digitaly signed by Andrea Andreani 2025-01-13T14:00:25.731Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-13T14:01:40.492Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-24

Signature: Digitaly signed by Luca Mussi 2025-01-24T12:34:28.869Z

6- CLEARANCE APPROVAL

Name

Date

Signature


ELF-200N1-09-L2-13
0N1-09-L2-06

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002716

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001411	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-13	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

The support is not well secured against vibration. Another support needs to be added

Name: Andrea Andreani

Date: 2025-01-13

Signature: Digitaly signed by Andrea Andreani 2025-01-13T13:59:54.024Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-13
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-13T14:01:54.549Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installation carried out as per typical 123A90-DDL-EL-DD-20091 and 123A90-DDL-IN-DD-40017 drawing. Eng states that no additional support is needed.

Name: Giovanni Tangianu

Date: 2025-03-07

Signature: Digitaly signed by Giovanni Tangianu 2025-03-07T10:16:22.549Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002962

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000777	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-10	Normal Lighting JB / Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

On both Light and JB (EJB-200N1-09-L2-01) side SS cable tag is missing.

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T15:36:10.665Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-16T15:36:23.751Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T12:21:31.750Z

6- CLEARANCE APPROVAL

Name

Date

Signature



ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002963

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000786	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-08		Normal Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

On both Lights sides (ELF-200N1-09-L2-08 & ELF-200N1-09-L2-09), SS cable tag is missing.

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T15:40:01.455Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-16T15:40:14.726Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-30

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-30T12:21:48.422Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002964

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000786	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-08		Normal Lighting JB / Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Cable is not supported on ELF-200N1-09-L2-09 side.

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T15:44:00.455Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-16T15:44:11.811Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:40:10.285Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002965

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001408	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-08	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Equipment trafolite tag is missing

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T15:46:48.108Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-16T15:47:03.922Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-04T12:20:40.290Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002966

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001408	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-08	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Equipment earth cable is missing.

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T15:47:43.184Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-16T15:47:53.387Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-21

Signature: Digitaly signed by Andrea Andreani 2025-01-21T16:40:33.120Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002967

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001408	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-08	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

All lock nuts to stop the lamp are missing

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T15:48:48.682Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-16T15:48:58.055Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Point not applicable

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T17:08:36.708Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002970

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000796	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-09	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-16

Signature: Digitaly signed by Andrea Andreani 2025-01-16T16:50:59.464Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-16T16:51:17.672Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:46:42.778Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002971

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001414	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-10	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Equipment trafolite tag is missing

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T16:52:20.079Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-16T16:52:30.335Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-02-04

Signature: Digitaly signed by Gabriele Bertuccelli 2025-02-04T12:23:02.415Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002972

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10000796	1.4 Discipline	Electrical
1.2 Item	P-EJB-200N1-09-L2-09	Emergency Lighting JB / Normal Lighting JB	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Not enought threads are thightened between the lock nut and the cable gland body. on EJB-200NA--09-L2-10 side

Name: Andrea Andreani

Date: 2025-01-16

Signature: Digitaly signed by Andrea Andreani 2025-01-16T16:52:50.584Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	A PL A	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-16T16:53:02.163Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Luca Mussi

Date: 2025-01-20

Signature: Digitaly signed by Luca Mussi 2025-01-20T17:26:39.613Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002975

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001414	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-10	EMERGENCY LIGHT	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Earthing cable is connected on cable tray support. To be connected to nearest earthing point on structure as per tipycal drawing (FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE) as per 123A90-DDL-EL-DD-20090 rev. 02 sheet 006)

Name: Luca Mussi

Date: 2025-01-16

Signature: Digitaly signed by Luca Mussi 2025-01-16T16:55:06.232Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Luca Mussi
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Luca Mussi 2025-01-16T17:00:36.986Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:40:03.829Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002976

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001240	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-10		JB - EMERGENCY LIGHTING
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2025-01-16

Signature: Digitaly signed by Andrea Andreani 2025-01-16T17:06:13.531Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-16T17:14:00.798Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-01-24

Signature: Digitaly signed by Andrea Andreani 2025-01-24T16:55:01.964Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002977

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001240	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-10		JB - EMERGENCY LIGHTING
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Some core identification are missing on the terminal block

Name: Andrea Andreani

Date: 2025-01-16

Signature: Digitaly signed by Andrea Andreani 2025-01-16T17:13:40.310Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-16T17:14:07.378Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:39:55.941Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002978

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001239	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-09		JB - EMERGENCY LIGHTING
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

Some core identification are missing on the terminal block

Name: Andrea Andreani

Date: 2025-01-16

Signature: Digitaly signed by Andrea Andreani 2025-01-16T17:15:38.347Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-16T17:15:50.808Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Eleonora Carotenuto

Date: 2025-01-24

Signature: Digitaly signed by Eleonora Carotenuto 2025-01-24T12:46:51.059Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002979

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10001239	1.4 Discipline	Electrical
1.2 Item	EJB-200N1-09-L2-09	JB - EMERGENCY LIGHTING	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Plugs are installed without serrated washer

Name: Andrea Andreani

Date: 2025-01-16

Signature: Digitaly signed by Andrea Andreani 2025-01-16T17:15:17.494Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-16
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-16T17:16:20.709Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-06

Signature: Digitaly signed by Andrea Andreani 2025-02-06T16:39:46.579Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002991

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004718	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-26	Emergency Lighting JB/Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-17

Signature: Digitaly signed by Andrea Andreani 2025-01-17T10:37:31.278Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-17T10:58:10.726Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-02

Signature: Digitaly signed by Giovanni Tangianu 2025-04-02T11:26:44.655Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002992

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004714	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-26	Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing trafolite tag

Name: Andrea Andreani

Date: 2025-01-17

Signature: Digitaly signed by Andrea Andreani 2025-01-17T10:44:04.737Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-17T10:58:29.870Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-21

Signature: Digitaly signed by Andrea Andreani 2025-02-21T10:46:02.466Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30002993

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004714	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-26	Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Light and cable are installed in temporary position due to missing mechanical support

Name: Andrea Andreani

Date: 2025-01-17

Signature: Digitaly signed by Andrea Andreani 2025-01-17T10:53:35.504Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-17T10:58:45.905Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed mechanical support

Name: Giovanni Tangianu

Date: 2025-03-25

Signature: Digitaly signed by Giovanni Tangianu 2025-03-25T14:57:44.715Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003010

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004715	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-27	Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-17

Signature: Digitaly signed by Andrea Andreani 2025-01-17T16:01:21.374Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-17T16:01:31.348Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Done

Name: Gabriele Bertuccelli

Date: 2025-01-31

Signature: Digitaly signed by Gabriele Bertuccelli 2025-01-31T11:32:53.326Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO
CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003011

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004715	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-27	Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

missing trafolite tag

Name: Andrea Andreani

Date: 2025-01-17

Signature: Digitaly signed by Andrea Andreani 2025-01-17T16:00:54.154Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-17T16:01:43.637Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

DONE

Name: Andrea Andreani

Date: 2025-02-21

Signature: Digitaly signed by Andrea Andreani 2025-02-21T10:47:08.050Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003012

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004715	1.4 Discipline	Electrical
1.2 Item	ELF-200N1-09-L2-27	Emergency Lighting Fixture	
1.3 Subsystem	83-36	Emergency Lighting Lower Deck	

2 - OBSERVATION

Light and cable are installed in temporary position due to missing mechanical support

Name: Andrea Andreani

Date: 2025-01-17

Signature: Digitaly signed by Andrea Andreani 2025-01-17T16:00:59.954Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-17T16:01:58.223Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed mecchanical support

Name: Giovanni Tangianu

Date: 2025-03-25

Signature: Digitaly signed by Giovanni Tangianu 2025-03-25T14:57:55.241Z

6- CLEARANCE APPROVAL

Name

Date

Signature

ROSETTI MARINO CROSSWIND

PUNCH ITEM ENTRY / CLEARANCE FORM

C30003017

PROVERLIS

1 -ELEMENT IDENTIFICATION

1.1 Task	C10004719	1.4 Discipline	Electrical
1.2 Item	P-ELF-200N1-09-L2-27		Emergency Lighting JB/Emergency Lighting Fixture
1.3 Subsystem	83-36		Emergency Lighting Lower Deck

2 - OBSERVATION

missing SS cable tag on both JB and light side

Name: Andrea Andreani

Date: 2025-01-17

Signature: Digitaly signed by Andrea Andreani 2025-01-17T16:15:28.413Z

3 - DEFECT ASSESSMENT

.

3.1 Corrective action proposal

3.2 Material required

3.3 Priority	B PL B	Name	Andrea Andreani
3.4 Activity code	MC Mechanical Completion	Date	2025-01-17
3.5 Action by	RM_CONSTR RM	Signature	Digitaly signed by Andrea Andreani 2025-01-17T16:15:39.782Z

4 - PERFORMED ACTION

Name

Date

Signature

5 - CLEARANCE CHECK

Installed.

Name: Giovanni Tangianu

Date: 2025-04-02

Signature: Digitaly signed by Giovanni Tangianu 2025-04-02T11:26:58.389Z

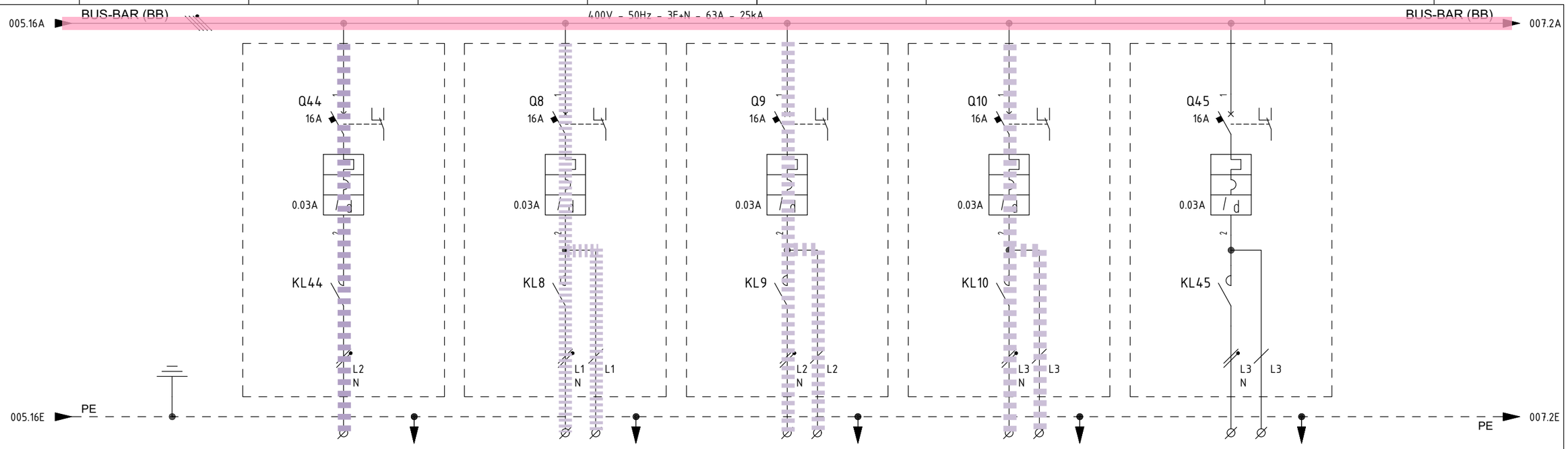
6- CLEARANCE APPROVAL

Name

Date

Signature

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS



ITEM			1	-	EJB-200N1-08-L1-01	EJB-200N1-09-L2-01	EJB-200N1-10-L3-01	-
UTILITY			2	NORMAL LIGHTING - SPARE	EMERGENCY LIGHTING UPPER DECK	EMERGENCY LIGHTING LOWER DECK	EMERGENCY LIGHTING STAIRS	EMERGENCY LIGHTING - SPARE
CUBICLE			3	+02	+02	+02	+02	+02
RATED POWER | RATED CURRENT			4/5	1 KW | 4.58 A	1.5 KW | 6.86 A	1.5 KW | 6.86 A	0.30 KW | 1.37 A	1.5 KW | 6.86 A
TYPICAL FUNCTIONAL			6	-	-	-	-	-
CIRCUIT BREAKER (ABB)	TYPE		7	S302P-C16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03	S302P-D16 + DDA202 AC-25/0.03
	VERSION		8	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE	2P / MINIATURE
	TRIP UNITS		9	In=16A - Curve C / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC	In=16A - Curve D / Id=0.03A Class AC
	Icu	KA	10	25KA	25KA	25KA	25KA	25KA
OVERLOAD	L	Range A	11	-	-	-	-	-
		Range t	12	-	-	-	-	-
SEL. SHORT-CIRCUIT	S	Range A	13	-	-	-	-	-
		Range t	14	-	-	-	-	-
INST. SHORT-CIRCUIT	I	Range A	15	-	-	-	-	-
		Range t	16	-	-	-	-	-
EARTH FAULT PROTECTION	G	Range A	17	-	-	-	-	-
		Range t	18	-	-	-	-	-
CONTACTOR (ABB)			19	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac	ESB40-20N-06; 2x22A AC3; Vaux=230Vdc/ac
THERMAL OVERLOAD RELAY (ABB)			20	-	-	-	-	-
SURGE ARRESTERS (DHENN)			21	-	-	-	-	-
TOROIDAL CURRENT TRANSFORMER (FRER)			22	-	-	-	-	-
FUSE HOLDER (ABB)			23	-	-	-	-	-
TWILIGHT SWITCH (ABB)			24	-	-	-	-	-
VOLTMETER (FRER)			25	-	-	-	-	-
CURRENT TRANSFORMER FOR MEASURE (FRER)	TYPE		26	-	-	-	-	-
	PERFORMANCE/CLASS		27	-	-	-	-	-
VOLTAGE TRANSFORMER FOR MEASURE (FRER)	TYPE		28	-	-	-	-	-
	PERFORMANCE/CLASS		29	-	-	-	-	-
POWER TERM. BLOCK (CABUR)		Type/mm²	30	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4	SCREW / 4
POWER CONDUCTOR		mm²	31	-	4G4_E	4G4_E	4G4_E	-

SUBSYSTEM 83-43 SUBSYSTEM 83-35 SUBSYSTEM 83-36 SUBSYSTEM 83-37

=
+

DWG n° : 231298/SD/13
Item n° : PF1002888/101

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
3	05/07/2024	Santinelli	Flamminio	Sigismondi	Accepted for construction (AFC)
2	24/04/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
1	15/03/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)
0	08/02/2024	Santinelli	Flamminio	Sigismondi	Issued for review (IFR)

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "DP-200N1"

SINGLE LINE DIAGRAM

Single Line Drawing

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DG-00013

SHEET 006

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DG-00013 Rev. 03

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-36 & process: MC & discipline : E

Electrical	83-36 Emergency Lighting Lower Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
C-ELS-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting JB	ONSHORE	C10000818	CPX09	100	2025-04-24	RFC 2
EJB-200N1-09-L2-01	JB Emergency Lighting Lower Deck - Circuit No. 1	ONSHORE	C10001298	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-02	JB - EMERGENCY LIGHTING	ONSHORE	C10001299	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-04	JB - EMERGENCY LIGHTING	ONSHORE	C10001301	CPX31	100	2024-12-13	RFC 2
EJB-200N1-09-L2-05	JB - EMERGENCY LIGHTING	ONSHORE	C10001235	CPX31	100	2025-01-13	RFC 2
EJB-200N1-09-L2-06	JB - EMERGENCY LIGHTING	ONSHORE	C10001236	CPX31	100	2025-01-17	RFC 2
EJB-200N1-09-L2-07	JB - EMERGENCY LIGHTING	ONSHORE	C10001237	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-08	JB - EMERGENCY LIGHTING	ONSHORE	C10001238	CPX31	100	2024-12-11	RFC 2
EJB-200N1-09-L2-09	JB - EMERGENCY LIGHTING	ONSHORE	C10001239	CPX31	100	2025-01-16	RFC 2
EJB-200N1-09-L2-10	JB - EMERGENCY LIGHTING	ONSHORE	C10001240	CPX31	100	2025-01-16	RFC 2
EJB-200N1-09-L2-11	JB - EMERGENCY LIGHTING	ONSHORE	C10001241	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-12	JB - EMERGENCY LIGHTING	ONSHORE	C10001242	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-13	JB - EMERGENCY LIGHTING	ONSHORE	C10001243	CPX31	100	2024-12-07	RFC 2
EJB-200N1-09-L2-14	JB - EMERGENCY LIGHTING	ONSHORE	C10001244	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-15	JB - EMERGENCY LIGHTING	ONSHORE	C10001245	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-16	JB - EMERGENCY LIGHTING	ONSHORE	C10001246	CPX31	100	2024-12-12	RFC 2
EJB-200N1-09-L2-17	JB - EMERGENCY LIGHTING	ONSHORE	C10001336	CPX31	100	2025-04-28	RFC 2
ELF-200N1-09-L2-01	EMERGENCY LIGHT	ONSHORE	C10001401	CPX00	100	2024-12-12	RFC 2
ELF-200N1-09-L2-02	EMERGENCY LIGHT	ONSHORE	C10001402	CPX00	100	2024-12-17	RFC 2
ELF-200N1-09-L2-03	EMERGENCY LIGHT	ONSHORE	C10001403	CPX00	100	2024-12-12	RFC 2
ELF-200N1-09-L2-04	EMERGENCY LIGHT	ONSHORE	C10001404	CPX00	100	2025-01-13	RFC 2
ELF-200N1-09-L2-05	EMERGENCY LIGHT	ONSHORE	C10001405	CPX00	100	2024-12-13	RFC 2
ELF-200N1-09-L2-06	EMERGENCY LIGHT	ONSHORE	C10001406	CPX00	100	2025-01-13	RFC 2
ELF-200N1-09-L2-07	EMERGENCY LIGHT	ONSHORE	C10001407	CPX00	100	2024-12-13	RFC 2
ELF-200N1-09-L2-08	EMERGENCY LIGHT	ONSHORE	C10001408	CPX00	100	2025-01-16	RFC 2
ELF-200N1-09-L2-09	EMERGENCY LIGHT	ONSHORE	C10001409	CPX00	100	2024-12-19	RFC 2
ELF-200N1-09-L2-10	EMERGENCY LIGHT	ONSHORE	C10001414	CPX00	100	2025-01-16	RFC 2
ELF-200N1-09-L2-11	EMERGENCY LIGHT	ONSHORE	C10001415	CPX00	100	2024-12-17	RFC 2
ELF-200N1-09-L2-12	EMERGENCY LIGHT	ONSHORE	C10001410	CPX00	100	2024-12-06	RFC 2

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-36 & process: MC & discipline : E

Electrical	83-36 Emergency Lighting Lower Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
ELF-200N1-09-L2-13	EMERGENCY LIGHT	ONSHORE	C10001411	CPX00	100	2025-01-13	RFC 2
ELF-200N1-09-L2-14	EMERGENCY LIGHT	ONSHORE	C10001412	CPX00	100	2024-12-16	RFC 2
ELF-200N1-09-L2-15	EMERGENCY LIGHT	ONSHORE	C10001413	CPX00	100	2024-12-04	RFC 2
ELF-200N1-09-L2-16	EMERGENCY LIGHT	ONSHORE	C10001416	CPX00	100	2024-12-04	RFC 2
ELF-200N1-09-L2-17	EMERGENCY LIGHT	ONSHORE	C10001417	CPX00	100	2024-12-04	RFC 2
ELF-200N1-09-L2-18	EMERGENCY LIGHT	ONSHORE	C10001418	CPX00	100	2024-12-12	RFC 2
ELF-200N1-09-L2-19	EMERGENCY LIGHT	ONSHORE	C10001419	CPX00	100	2025-01-07	RFC 2
ELF-200N1-09-L2-20	EMERGENCY LIGHT	ONSHORE	C10001420	CPX00	100	2025-01-07	RFC 2
ELF-200N1-09-L2-21	EMERGENCY LIGHT	ONSHORE	C10001421	CPX00	100	2024-12-16	RFC 2
ELF-200N1-09-L2-22	EMERGENCY LIGHT	ONSHORE	C10001422	CPX00	100	2024-12-04	RFC 2
ELF-200N1-09-L2-23	EMERGENCY LIGHT	ONSHORE	C10001423	CPX00	100	2024-12-06	RFC 2
ELF-200N1-09-L2-24	EMERGENCY LIGHT	ONSHORE	C10001424	CPX00	100	2025-04-28	RFC 2
ELF-200N1-09-L2-25	EMERGENCY LIGHT	ONSHORE	C10001425	CPX00	100	2025-04-28	RFC 2
ELF-200N1-09-L2-26	Emergency Lighting Fixture	ONSHORE	C10004714	CPX00	100	2025-01-17	RFC 2
ELF-200N1-09-L2-27	Emergency Lighting Fixture	ONSHORE	C10004715	CPX00	100	2025-01-17	RFC 2
ELS-200N1-09-L2-01	Local Switch	ONSHORE	C10003048	CPX00	100	2025-04-24	RFC 2
P-EJB-200N1-09-L2-01	Lighting & Small Power DB BoP / Emergency Lighting Lower Deck - Circuit No. 1	ONSHORE	C10000611	CPX09	100	2024-12-03	RFC 2
P-EJB-200N1-09-L2-02	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000778	CPX09	100	2024-12-12	RFC 2
P-EJB-200N1-09-L2-04	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000784	CPX09	100	2024-12-11	RFC 2
P-EJB-200N1-09-L2-05	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000788	CPX09	100	2025-01-13	RFC 2
P-EJB-200N1-09-L2-06	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000790	CPX09	100	2025-01-13	RFC 2
P-EJB-200N1-09-L2-07	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000792	CPX09	100	2024-12-20	RFC 2
P-EJB-200N1-09-L2-08	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000794	CPX09	100	2024-12-13	RFC 2
P-EJB-200N1-09-L2-09	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000796	CPX09	100	2025-01-16	RFC 2
P-EJB-200N1-09-L2-10	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000798	CPX09	100	2024-12-11	RFC 2
P-EJB-200N1-09-L2-11	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000800	CPX09	100	2024-12-12	RFC 2
P-EJB-200N1-09-L2-12	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000802	CPX09	100	2024-12-11	RFC 2
P-EJB-200N1-09-L2-13	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000804	CPX09	100	2024-12-13	RFC 2
P-EJB-200N1-09-L2-14	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000806	CPX09	100	2024-12-12	RFC 2

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-36 & process: MC & discipline : E

Electrical	83-36 Emergency Lighting Lower Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
P-EJB-200N1-09-L2-15	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000808	CPX09	100	2024-12-12	RFC 2
P-EJB-200N1-09-L2-16	Emergency Lighting JB / Normal Lighting JB	ONSHORE	C10000810	CPX09	100	2024-12-13	RFC 2
P-EJB-200N1-09-L2-17	Emergency Lighting JB / Local Switch	ONSHORE	C10002065	CPX09	100	2025-02-27	-
		OFFSHORE	C10004690	CPX09	0	-	-
P-ELF-200N1-09-L2-01	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000774	CPX09	100	2024-12-12	RFC 2
P-ELF-200N1-09-L2-02	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000775	CPX09	100	2024-12-17	RFC 2
P-ELF-200N1-09-L2-03	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000779	CPX09	100	2024-12-12	RFC 2
P-ELF-200N1-09-L2-04	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000780	CPX09	100	2025-01-13	RFC 2
P-ELF-200N1-09-L2-05	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000782	CPX09	100	2024-12-13	RFC 2
P-ELF-200N1-09-L2-06	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000783	CPX09	100	2025-01-13	RFC 2
P-ELF-200N1-09-L2-07	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000785	CPX09	100	2024-12-13	RFC 2
P-ELF-200N1-09-L2-08	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000786	CPX09	100	2025-01-16	RFC 2
P-ELF-200N1-09-L2-09	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000787	CPX09	100	2024-12-19	RFC 2
P-ELF-200N1-09-L2-10	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000777	CPX09	100	2025-01-16	RFC 2
P-ELF-200N1-09-L2-11	Normal Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000776	CPX09	100	2024-12-17	RFC 2
P-ELF-200N1-09-L2-12	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000789	CPX09	100	2024-12-13	RFC 2
P-ELF-200N1-09-L2-13	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000791	CPX09	100	2025-01-13	RFC 2
P-ELF-200N1-09-L2-14	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000793	CPX09	100	2024-12-11	RFC 2
P-ELF-200N1-09-L2-15	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000795	CPX09	100	2024-12-27	RFC 2
P-ELF-200N1-09-L2-16	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000797	CPX09	100	2024-12-27	RFC 2
P-ELF-200N1-09-L2-17	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000799	CPX09	100	2024-12-28	RFC 2
P-ELF-200N1-09-L2-18	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000801	CPX09	100	2024-12-12	RFC 2
P-ELF-200N1-09-L2-19	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000803	CPX09	100	2025-01-02	RFC 2
P-ELF-200N1-09-L2-20	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000805	CPX09	100	2025-01-02	RFC 2
P-ELF-200N1-09-L2-21	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000807	CPX09	100	2024-12-16	RFC 2
P-ELF-200N1-09-L2-22	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000809	CPX09	100	2024-12-28	RFC 2
P-ELF-200N1-09-L2-23	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000811	CPX09	100	2024-12-13	RFC 2
P-ELF-200N1-09-L2-24	Emergency Lighting JB / Emergency Lighting Fixture	ONSHORE	C10000819	CPX09	100	2025-04-24	RFC 2
P-ELF-200N1-09-L2-25	Emergency Lighting Fixture / Emergency Lighting Fixture	ONSHORE	C10000820	CPX09	100	2025-04-28	RFC 2

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 83-36 & process: MC & discipline : E

Electrical	83-36 Emergency Lighting Lower Deck						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
P-ELF-200N1-09-L2-26	Emergency Lighting JB/Emergency Lighting Fixture	ONSHORE	C10004718	CPX09	100	2025-01-17	RFC 2
P-ELF-200N1-09-L2-27	Emergency Lighting JB/Emergency Lighting Fixture	ONSHORE	C10004719	CPX09	100	2025-01-17	RFC 2

ITEM	Tag	P-EJB-200N1-09-L2-01	: Lighting & Small Power DB BoP / Emergency Lighting Lower Deck - Circuit No. 1			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD_B-200/LD
TASK	code	C10000611		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From DP-200N1 To EJB-200N1-09-L2-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-01	: Lighting & Small Power DB BoP / Emergency Lighting Lower Deck - Circuit No. 1			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD_B-200/LD
TASK	code	C10000611		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	0.6	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

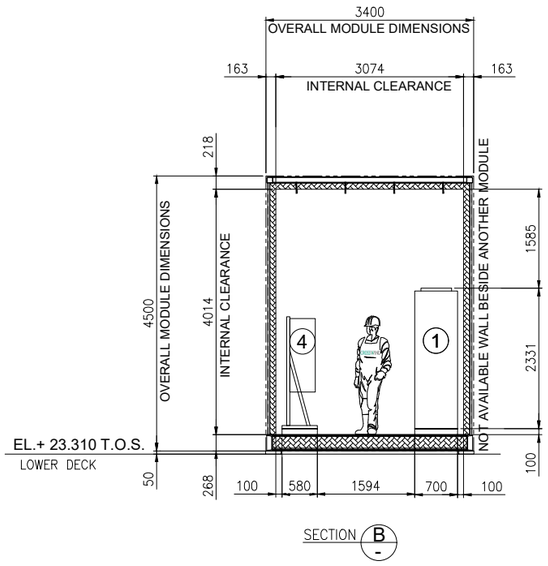
TESTING INSTRUMENTS USED

TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

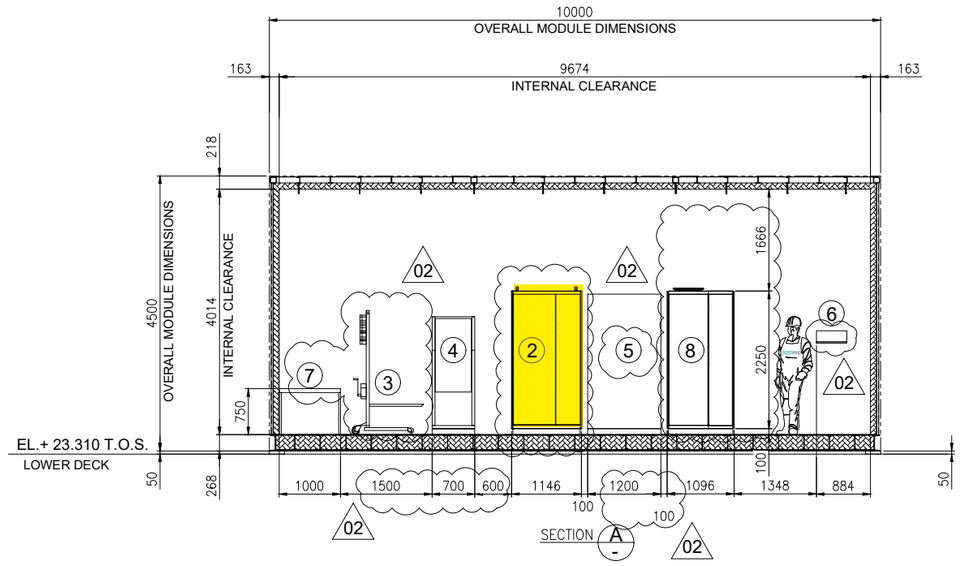
Comments: Nota 4: refer to PL C30000679

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Paolo Schintu	
Date	2024-12-02	2024-12-03	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-02T13:00:35.683Z	PROVERLIS Digitaly signed by Paolo Schintu 2024-12-03T07:58:41.900Z	

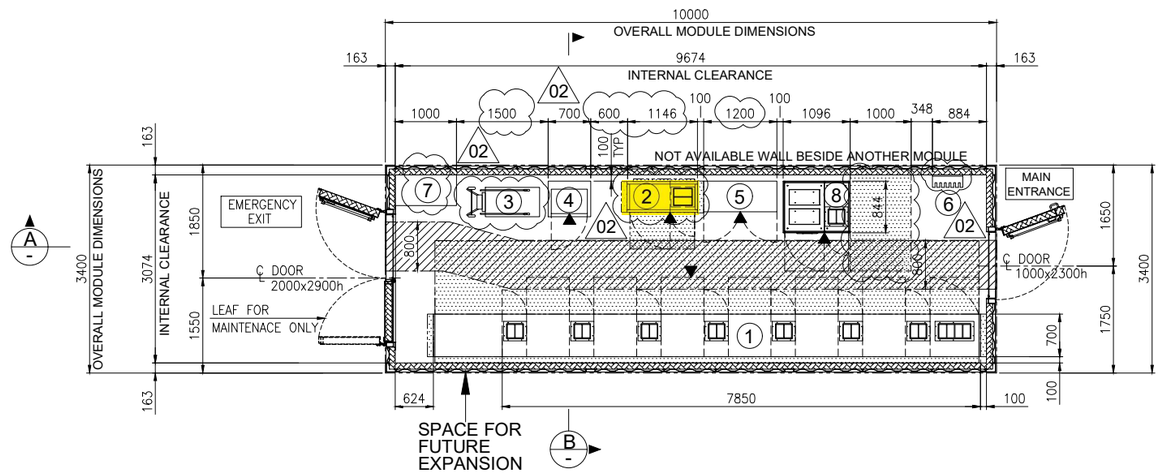
DRAWING NO. 123A90-DDL-EL-DL-20105 | REV. 02



SECTION B



SECTION A

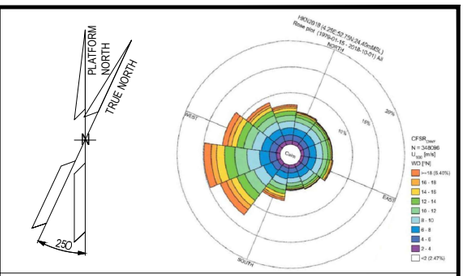


EQUIPMENT LAYOUT
"B-200" LV (400V) SWITCHGEAR ROOM
BOTTOM PLAN

1

EQUIPMENT LIST

REF.	TAG No.	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	NOTE
1	SG-200N1	400V SWITCHGEAR	7850	700	2331	
2	DP-200N1	DISTRIBUTION BOARD FOR LIGHTING AND SMALL POWER B.O.P.	1146	520	2250	
3	-	SERVICE TROLLEY FOR 400V SWITCHGEAR	1034	490	2030	
4	CN-200N1	ICCP PANEL	700	580	1830	
5	B200-HSB-001	DISTRIBUTION & HVAC PANEL - LV ROOM	1200	600	1900	02
6	-	TOOL BOX	495	200	200	
7	-	TABLE	1000	500	750	
8	SG-200D2	ACB PANEL FOR SOLAR PACKAGE	1096	844	2294	



NOTES

1. U.N.O. ALL DIMENSIONS ARE IN MILLIMETERS.
2. DELETED.
3. DOCUMENT VALID ONLY FOR ELECTRICAL COMPONENT, FOR OTHER SCOPE LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND PROJECT DOCUMENTS.
4. FOR OTHER ITEMS, CORRECT LOCATION AND INFORMATION, PLEASE REFER TO VENDORS AND DEDICATED PROJECT DOCUMENTATION.
5. HEIGHT OF ALL PANELS IN THE EQUIPMENT LIST TABLE IS WITHOUT THE BASE FRAME (100mm)

02

LEGEND

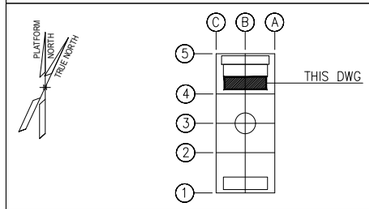
U.N.O. _____ UNLESS NOTED OTHERWISE
T.O.S. _____ TOP OF STEEL
_____ ESCAPE CORRIDOR - WIDTH 800mm.
_____ MAINTENANCE AREA - VENDOR REQUIREMENT
_____ SWITCHGEAR ROOM ENCLOUSURE
_____ FRONT OF EQUIPMENT

REFERENCES

DOCUMENT TITLE	DOCUMENT NUMBER
SG-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00007
SG-200D2 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00008
DP-200N1 GENERAL ARRANGEMENT DRAWING	1723002197-EL-DA-00009
AC UPS – GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS	1724000372-EL-DA-00004
AC UPS – BATTERY LAYOUT INTERCONNECTING DIAGRAM	1724000372-EL-DG-00011
B-200 -GENERAL ARRANGEMENT DRAWINGS - E&I SHELTER	1724000049-AR-DA-00015
ICCC PANEL GENERAL ARRANGEMENT DRAWING	144671-CORR-TF-FAB-DWG-0003

02

KEY PLAN



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20105
REV.: 2_A | DATE: 08/08/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	27/05/2024	FMO	LMA/AMA	LMA/MDO	ACCEPTED FOR CONSTRUCTION (AFC)
01	26/03/2024	GPA	LMA/AMA	LMA/MDO	ISSUE FOR REVIEW (IFR)
00	08/11/2023	DSF	CB/AMA	OYFO/MDO	ISSUE FOR REVIEW (IFR)

CROSSWIND | ROSETTI MARINO

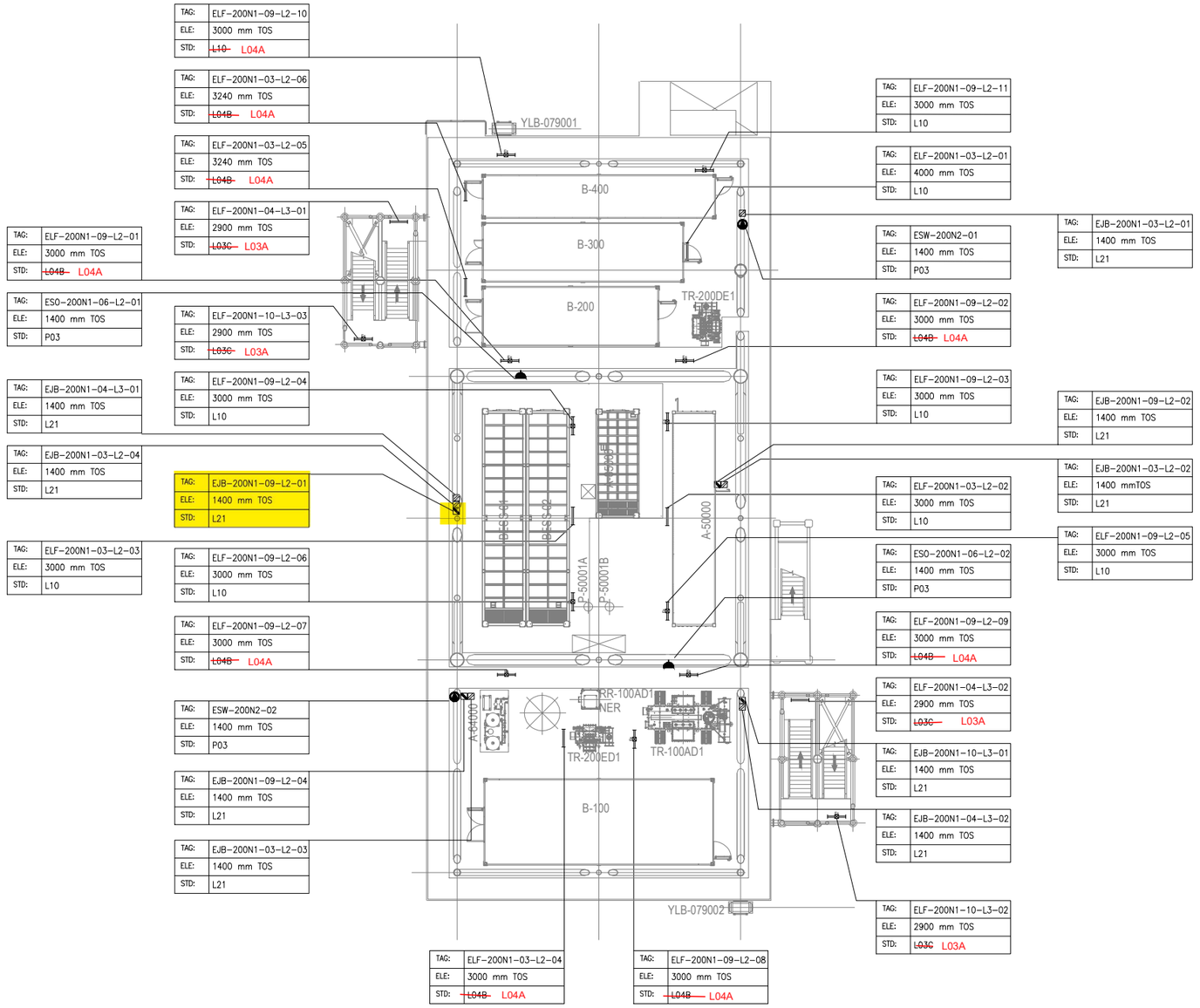
TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL EQUIPMENT LAYOUT
LV SWITCHROOM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:50
DRAWN FMO | CHECKED LMA/AMA | APPROVED LMA/MDO | DATE 27/05/2024
A1 | DRAWING NO. 123A90-DDL-EL-DL-20105 | SHEET 001 | REV. 02

File Name : 123A90-DDL-EL-DL-20105_REV02.dwg

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



TAG:	ELF-200N1-09-L2-10
ELE:	3000 mm TOS
STD:	~~L10~~ L04A

TAG:	ELF-200N1-03-L2-06
ELE:	3240 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-03-L2-05
ELE:	3240 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-04-L3-01
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	ELF-200N1-09-L2-01
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ESO-200N1-06-L2-01
ELE:	1400 mm TOS
STD:	P03

TAG:	ELF-200N1-10-L3-03
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	ELF-200N1-09-L2-04
ELE:	3000 mm TOS
STD:	L10

TAG:	EJB-200N1-04-L3-01
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-03-L2-04
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-09-L2-01
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-03-L2-03
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-09-L2-06
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-09-L2-07
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ESW-200N2-02
ELE:	1400 mm TOS
STD:	P03

TAG:	EJB-200N1-09-L2-04
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-03-L2-03
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-03-L2-04
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-08
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-11
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-03-L2-01
ELE:	4000 mm TOS
STD:	L10

TAG:	ESW-200N2-01
ELE:	1400 mm TOS
STD:	P03

TAG:	ELF-200N1-09-L2-02
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-03
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-03-L2-02
ELE:	3000 mm TOS
STD:	L10

TAG:	ESO-200N1-06-L2-02
ELE:	1400 mm TOS
STD:	P03

TAG:	ELF-200N1-09-L2-09
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-04-L3-02
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	EJB-200N1-10-L3-01
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-04-L3-02
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-10-L3-02
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

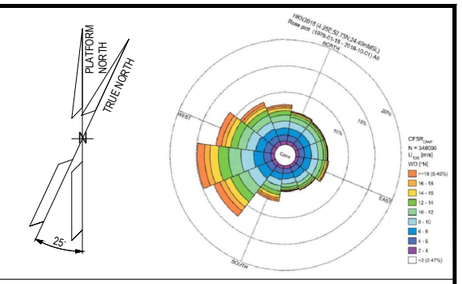
TAG:	EJB-200N1-03-L2-01
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-09-L2-02
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-03-L2-02
ELE:	1400 mmTOS
STD:	L21

TAG:	ELF-200N1-09-L2-05
ELE:	3000 mm TOS
STD:	L10

PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE	1:150
DRAWN	ASR	CHECKED	FMA/AMA	APPROVED	FPA/DLO	DATE	06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119			SHEET	2of2	REV.	01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2
- P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01
- P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10
- P-EJB-200N1-09-L2-04 4G4_E → EJB-200N1-09-L2-04

EJB-200N1-09-L2-04 — TYPE: L21E2
- P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06
- P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04
- P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07
- TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
- P-EJB-200N1-09-L2-02 4G4_E → EJB-200N1-09-L2-02

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09
- P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08
- P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03
- P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05
- P-EJB-200N1-09-L2-12 4G4_E → EJB-200N1-09-L2-12
- P-EJB-200N1-09-L2-07 4G4_E → EJB-200N1-09-L2-07

EJB-200N1-09-L2-12 — TYPE: L21E2
- P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19
- P-EJB-200N1-09-L2-11 4G4_E → EJB-200N1-09-L2-11

EJB-200N1-09-L2-11 — TYPE: L21E2
- P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18
- P-EJB-200N1-09-L2-10 4G4_E → EJB-200N1-09-L2-10

EJB-200N1-09-L2-10 — TYPE: L21E2
- P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17
- P-EJB-200N1-09-L2-09 4G4_E → EJB-200N1-09-L2-09

EJB-200N1-09-L2-09 — TYPE: L21E2
- P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16
- P-ELF-200N1-09-L2-26 4G2.5_E → Ex ELF-200N1-09-L2-26
- P-EJB-200N1-09-L2-13 4G4_E → EJB-200N1-09-L2-13

EJB-200N1-09-L2-13 — TYPE: L21E2
- P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02
- P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2
- P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14
- P-EJB-200N1-09-L2-06 4G4_E → EJB-200N1-09-L2-06

EJB-200N1-09-L2-08 — TYPE: L21E2
- P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15
- P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-06 — TYPE: L21E2
- P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13
- P-ELF-200N1-09-L2-27 4G2.5_E → Ex ELF-200N1-09-L2-27
- P-EJB-200N1-09-L2-05 4G4_E → EJB-200N1-09-L2-05

EJB-200N1-09-L2-05 — TYPE: L21E2
- P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12
- P-EJB-200N1-09-L2-16 4G4_E → EJB-200N1-09-L2-16

EJB-200N1-09-L2-16 — TYPE: L21E2
- P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23
- P-EJB-200N1-09-L2-15 4G4_E → EJB-200N1-09-L2-15

EJB-200N1-09-L2-15 — TYPE: L21E2
- P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2
- P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21
- P-EJB-200N1-09-L2-14 4G4_E

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A) → P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17
- C-ELS-200N1-09-L2-01 2C X 2.5 → ELS-200N1-09-L2-01 (02)
- P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25
- P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND

ROSETTI MARINO

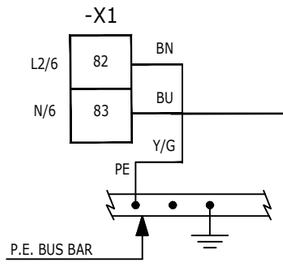
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

FROM	TO

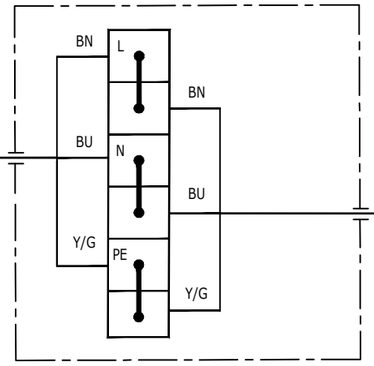
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q6



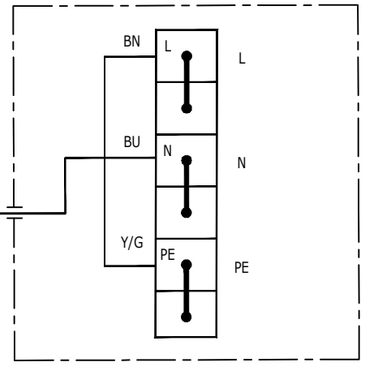
P-ESO-200N1-06-L2-01
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(LOWER DECK)
TAG NUMBER: ESO-200N1-06-L2-01

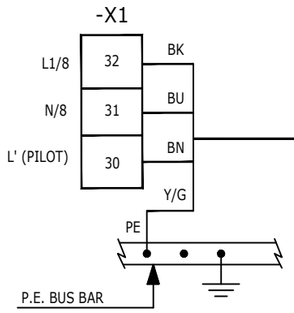


P-ESO-200N1-06-L2-02
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(LOWER DECK)
TAG NUMBER: ESO-200N1-06-L2-02

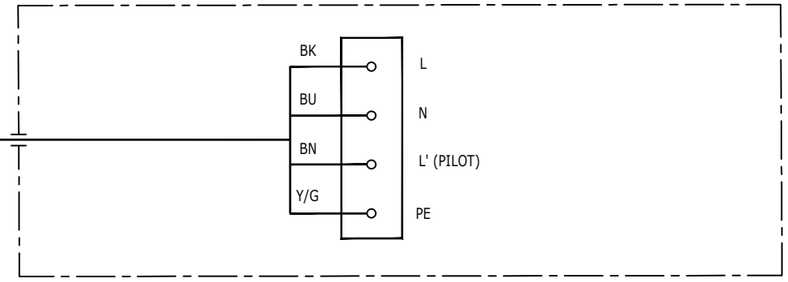


CUBICLE/CB: +01/Q8

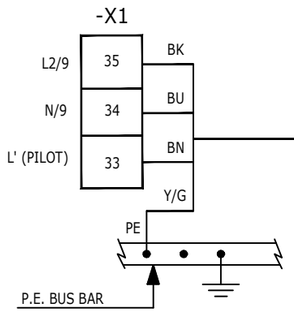


P-EJB-200N1-08-L1-04
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-08-L1-04

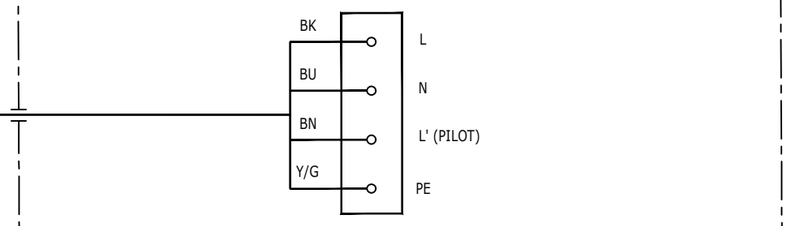


CUBICLE/CB: +01/Q9



P-EJB-200N1-09-L2-01
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-09-L2-01



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DG-20149
REV.: 2_B | DATE: 26/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

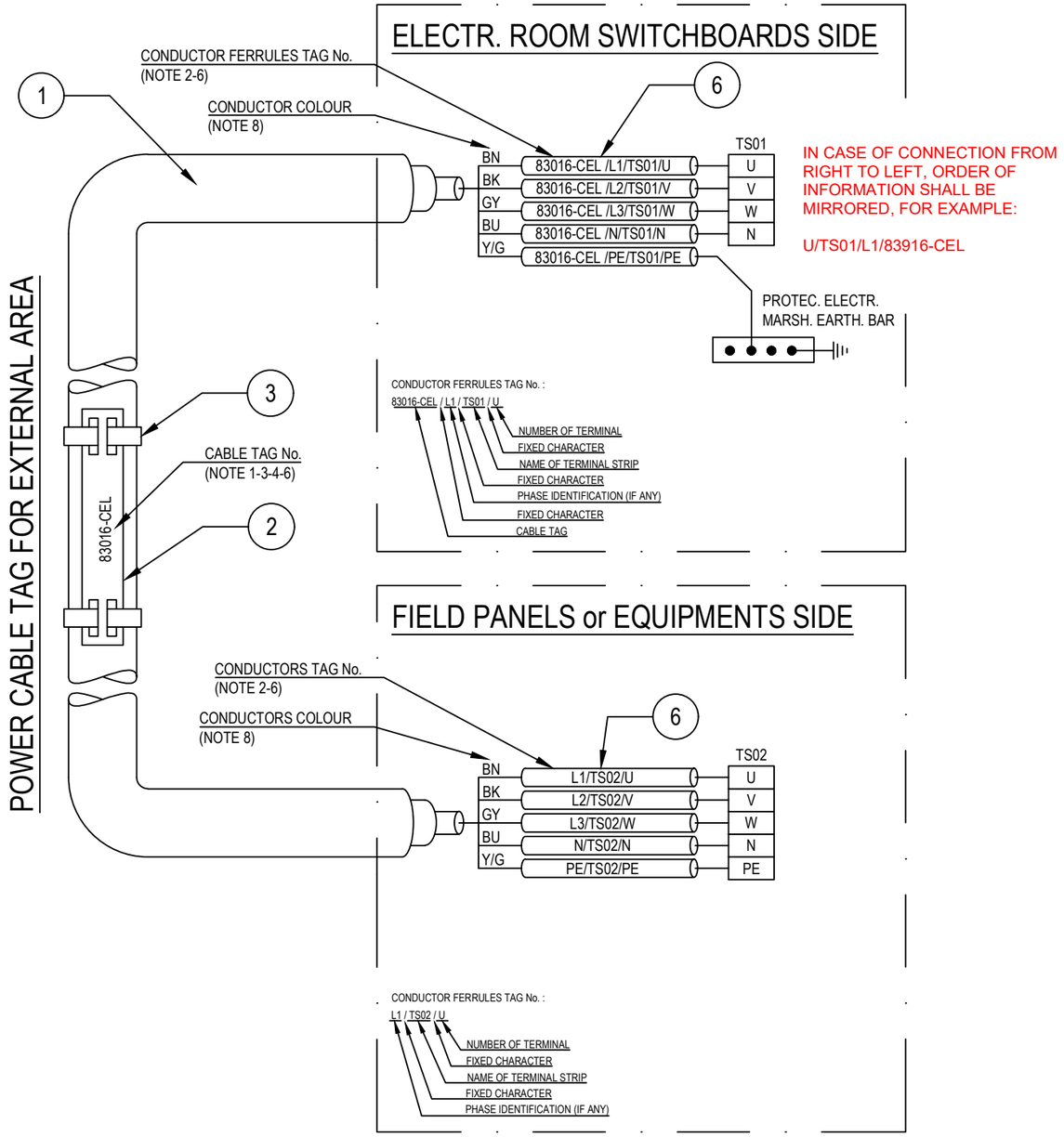
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 046 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

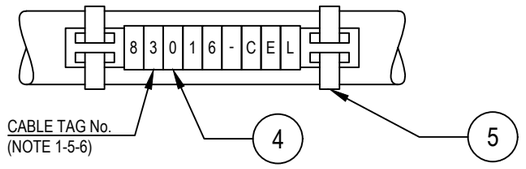
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

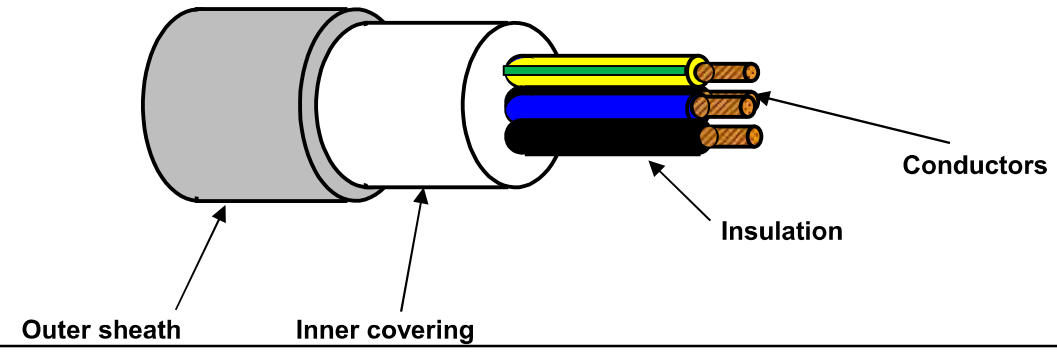
File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Fun	Area	From Tag	From Main Function	From Area	From Tag Sectio	To Tag	To Main Function	To Area	To Tag Sectio	Material ID	Material Desc.	Gland Sta	From Gl	From Entr	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-01	Cable	EL	VFC	123A90-DDL-EL-LIS-20148						DP-200N1	LV 0,4 / 0,23 kV Distribution Switchgear	Lower Deck (B-200)	01/Q9	EJB-200N1-09-L2-01	Emergency Lighting JB	Lower Deck	Junction Box	ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	n.a.			T1_M25_Single	M20	ADAP_M20MxM25F		L-450-101-LVT-030 / L-600-101-LVT-020 / L-600-101-LVT-018 / L-600-101-LVT-017 / E-MCT-201 / L-750-101-LVT-011 / L-600-101-LVT-012 / L-150-101-LVT-099

FLEI s.r.l.

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires	IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm	
Cores colour code :	**Black - Brown - Blue - Yellow/Green**	
Pair Assembling :	Not required	
Pair Wrapping:	Not required	
Drain wire :	Not required	
Pair Shield :	Not required	
Shield Insulation :	Not Required	
Total Assembling :	Cores layed up with optimal lay length	
Overall Wrapping:	Not required	
Drain wire :	Not required	
Overall Shield:	Not required	
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm	
Inner covering color code:	**Black or Natural**	
Armour :	Not required	
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm	
Outer sheath color code:	**Grey**	
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 -**	
	Year of Manufacture - CE + Meter Marking	
Outer diameter :	(15,5 ± 10%) mm	
Bending radius :	cable outer diameter x 10	(in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)	
Conductors DC Resistance :		IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)	
Applicable Standards		
Design Guidelines :	**IEC 60092.353**	
ON COMPLETE CABLE		
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22	
Acid Gas generation :	IEC 60754.1/2	
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)	
Temperature Range :		
ON INSULATION	(max +90°C)	(max continuous operation temperature of conductors)
	(max +250°C)	(max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE		
During Operation :	(-20°C up to +90°C)	(in fixed installation)
During installation :	(- 5°C up to +50°C)	
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**	

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-09-L2-01	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000774		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-09-L2-01 | To: ELF-200N1-09-L2-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-01	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000774		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

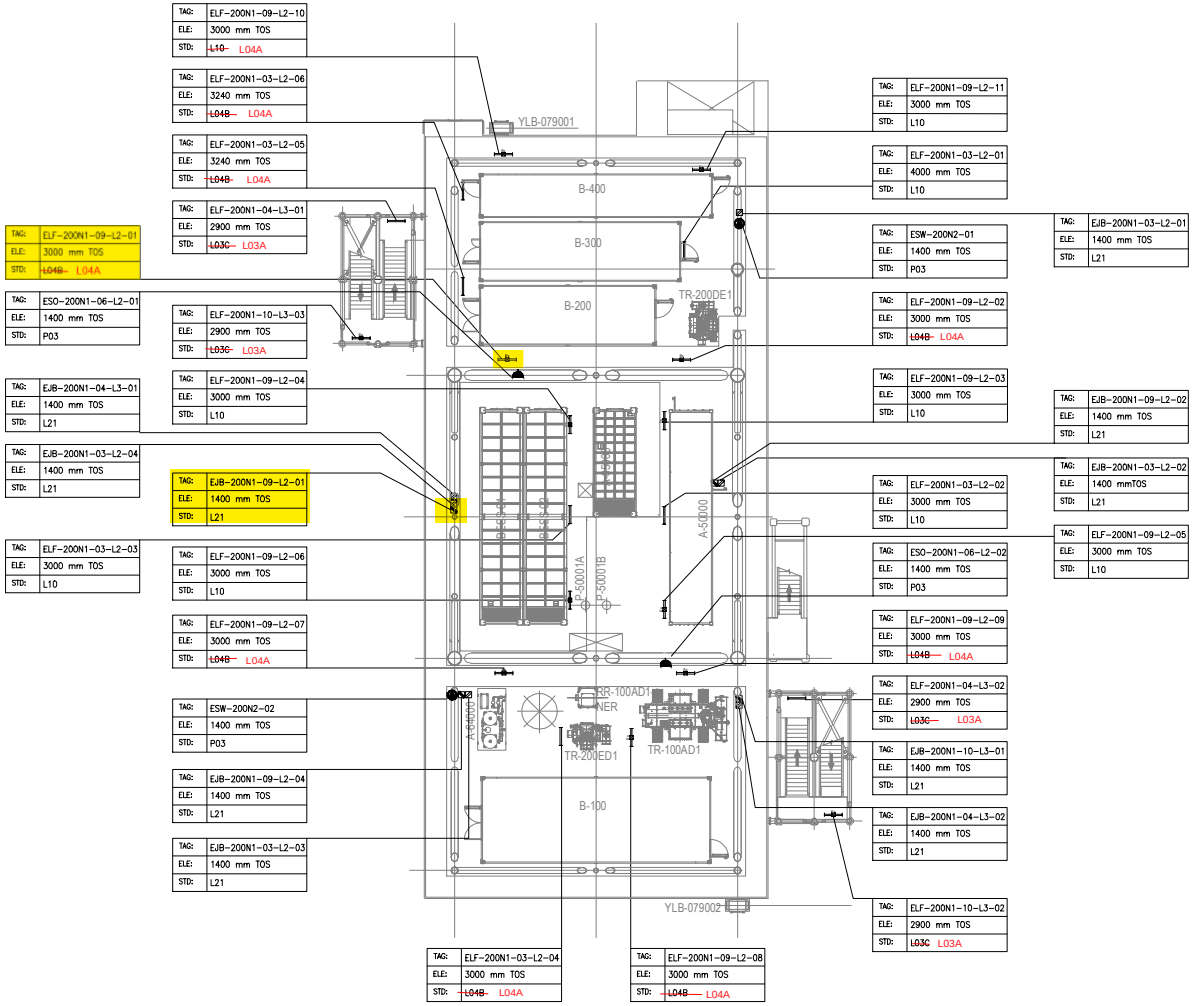
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

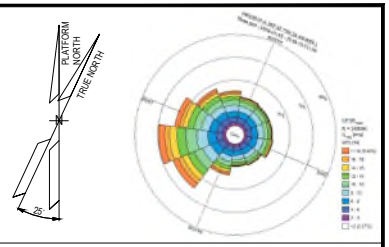
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:04:01.823Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T16:48:24.303Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

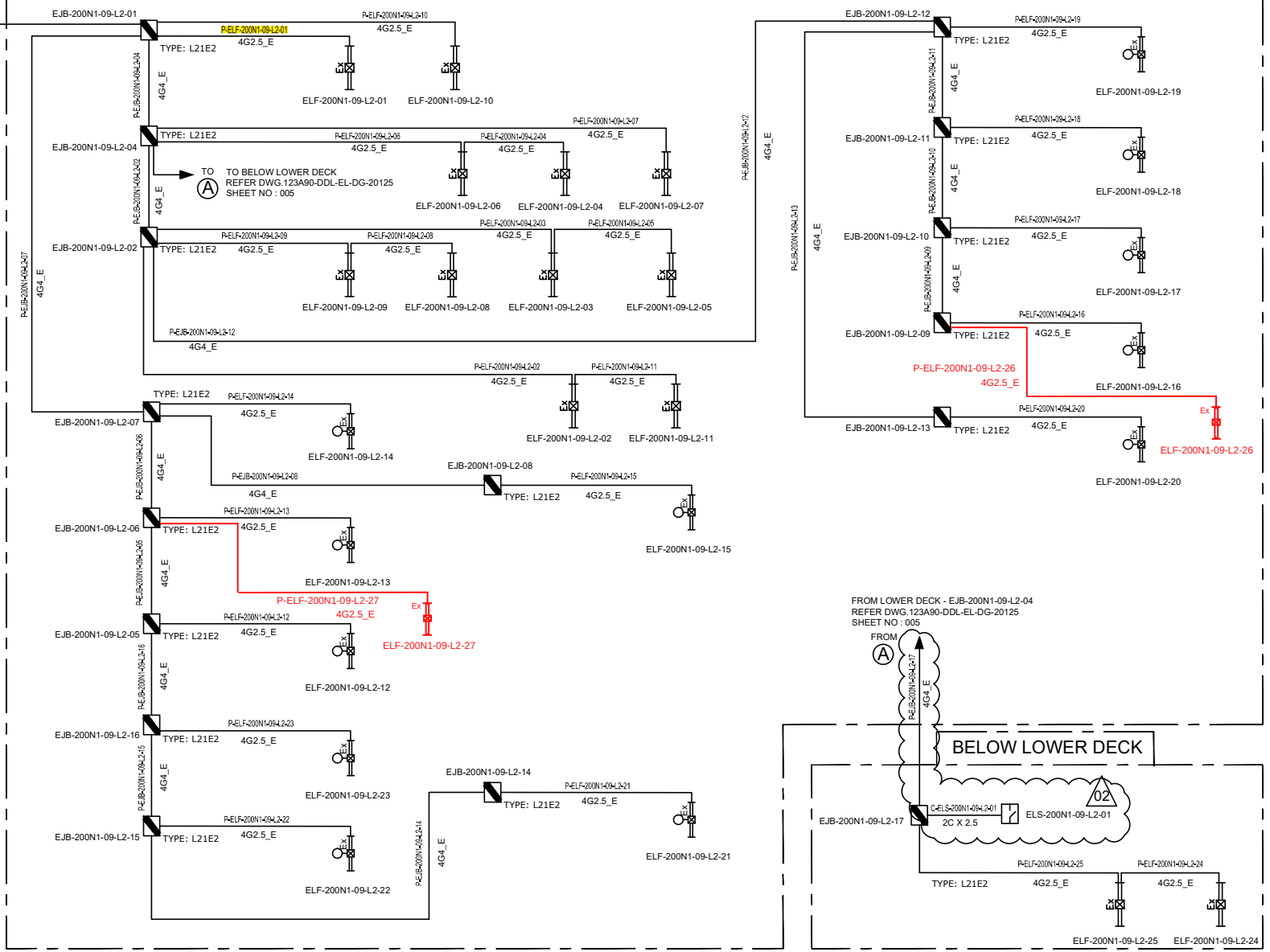
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

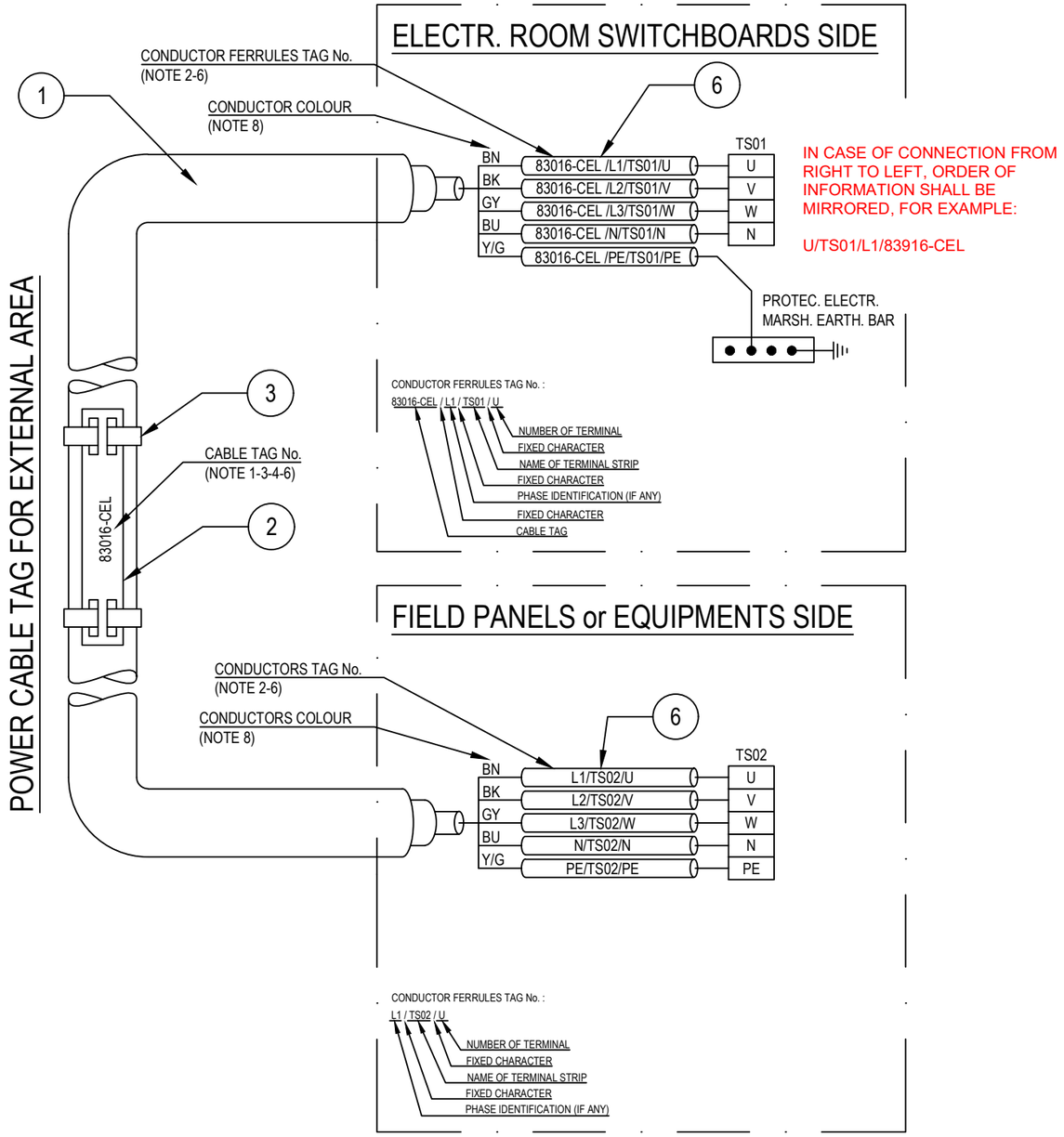
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

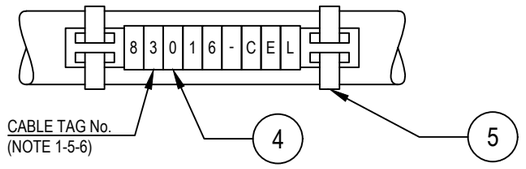
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

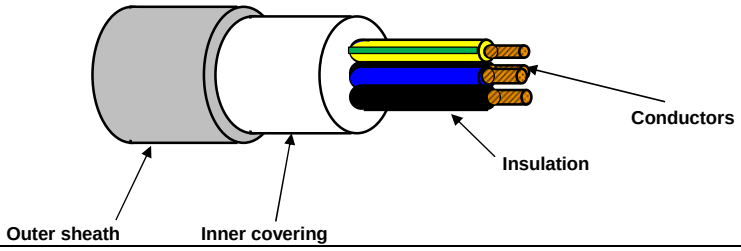
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-01	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-01	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-01	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu CI.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-099 / L-600-101-LVT-012 / L-150-101-LVT-088 / L-300-101-LVT-003

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-02	: Normal Lighting JB / Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000775	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-09-L2-02 | To: ELF-200N1-09-L2-02

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	PL
5	Check bending radius is within the specified limits.	PL
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-02	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000775		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

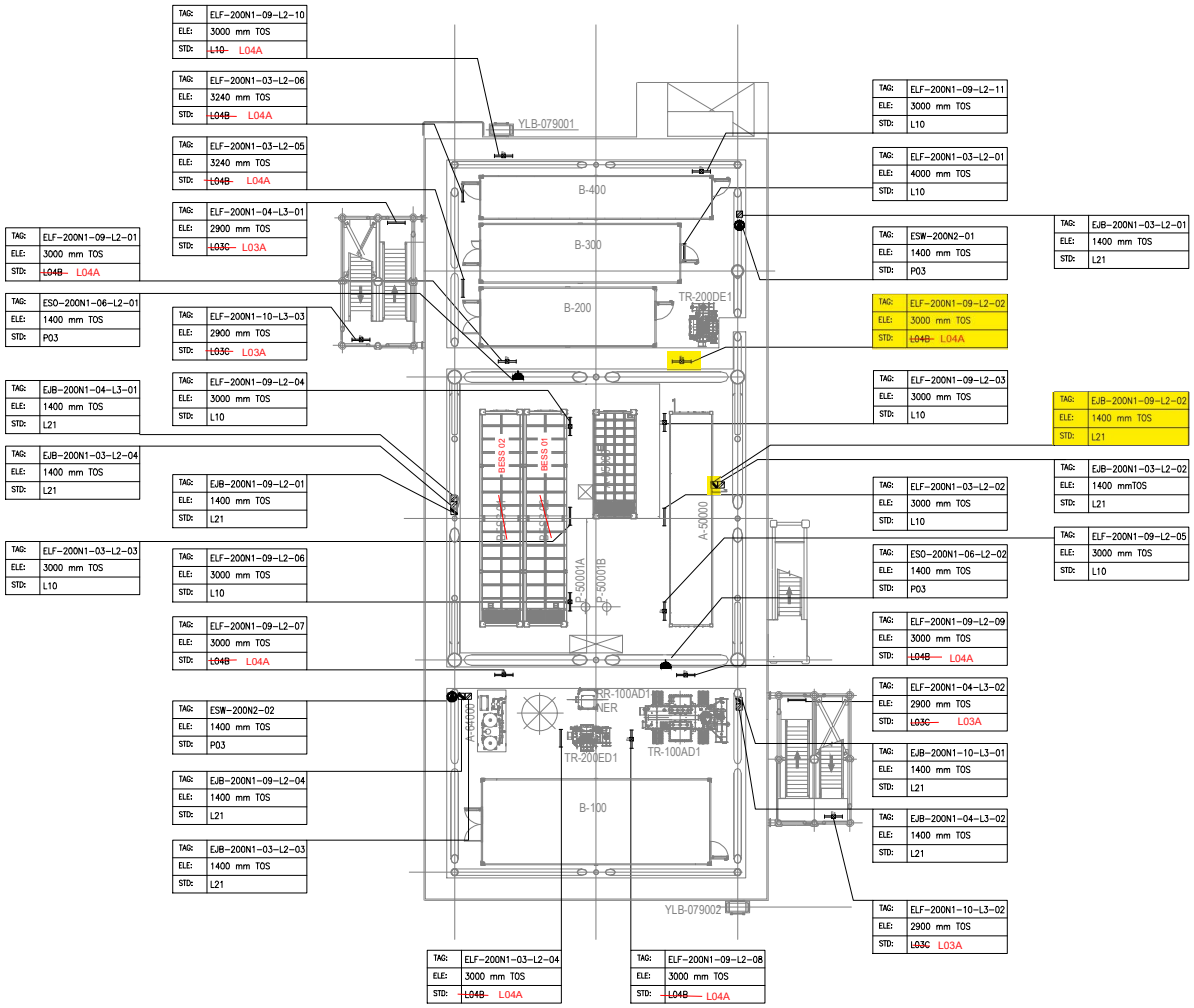
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

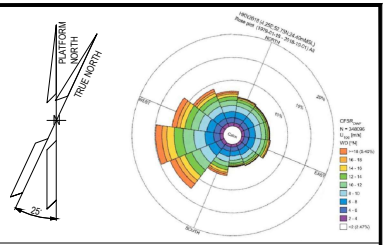
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-12	2024-12-17	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-12T16:27:35.835Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-17T17:42:47.209Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

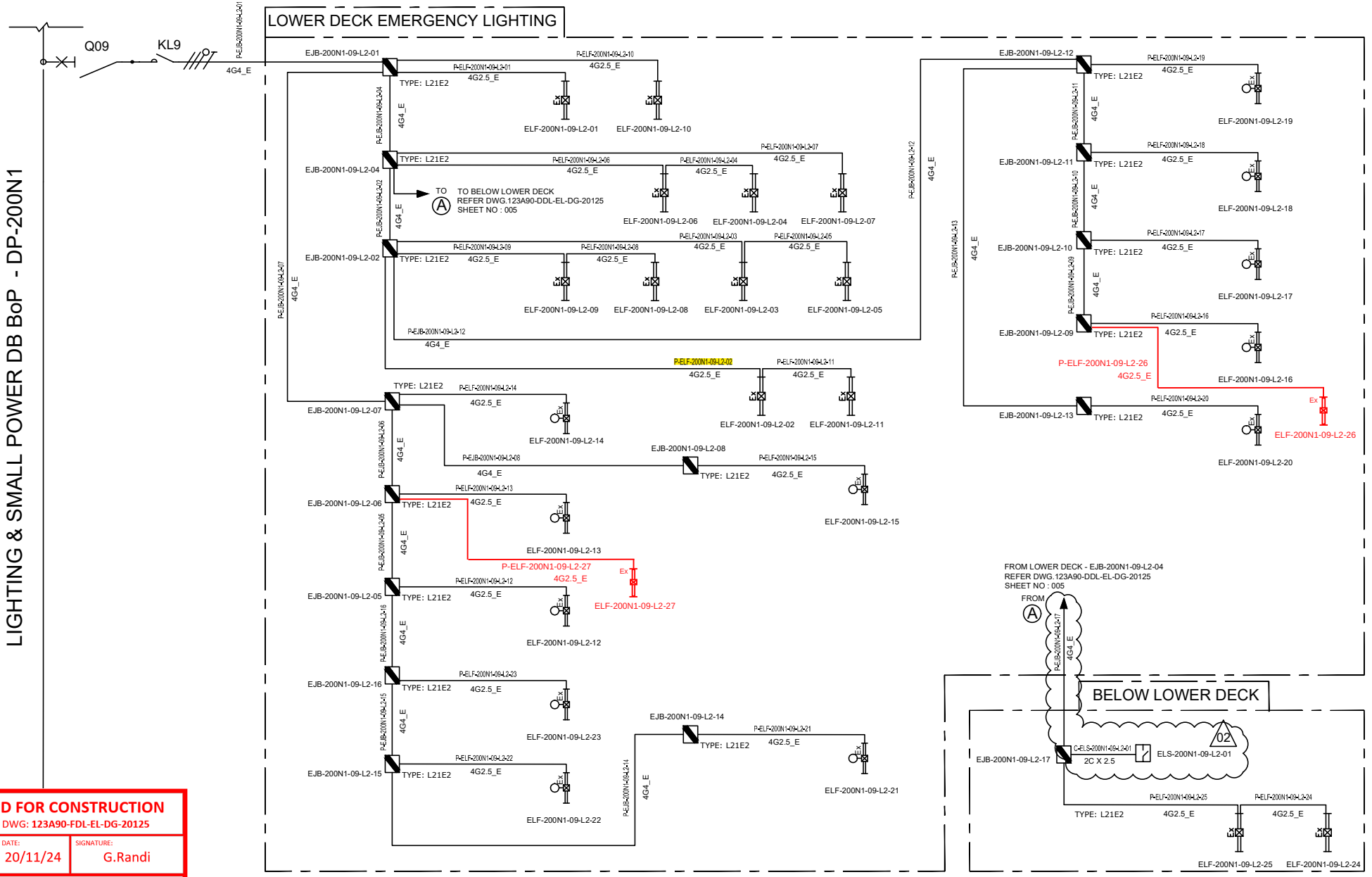
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

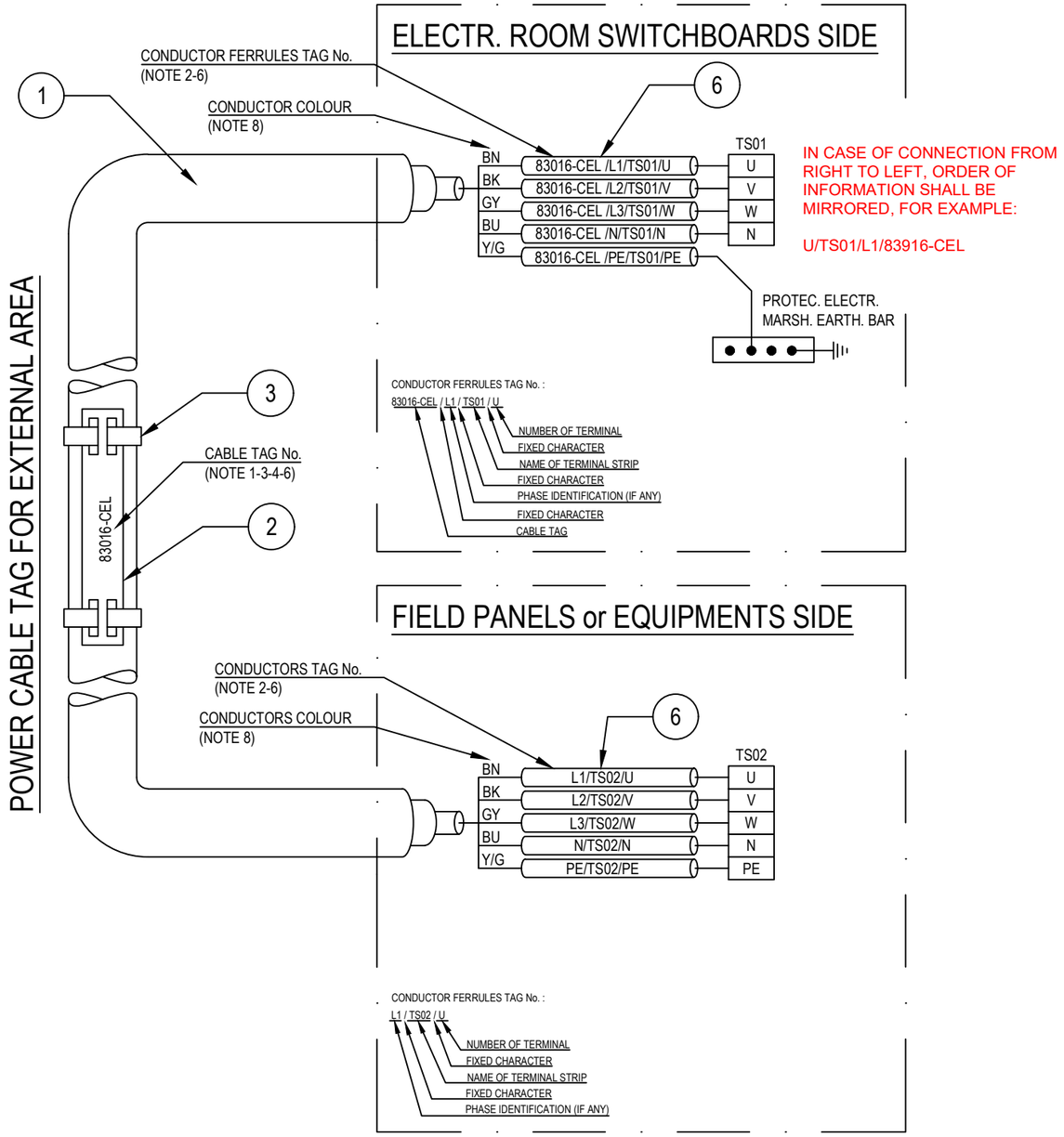
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

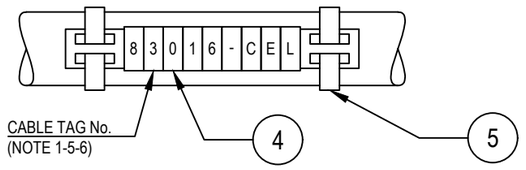
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

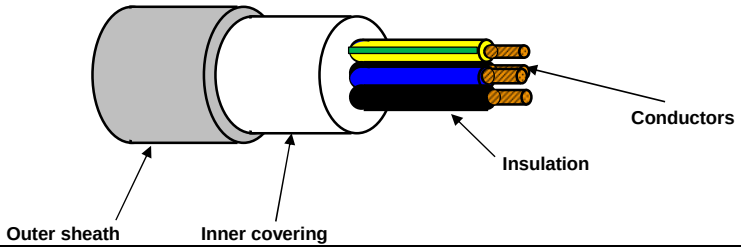
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-02	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-02	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-02	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu CI.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-087 / L-750-101-LVT-014

ITEM	Tag	P-ELF-200N1-09-L2-11	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000776		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH Cores/Size mm²: 4G2,5_E mm2 Color: GREY

From: ELF-200N1-09-L2-02 To: ELF-200N1-09-L2-11

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	PL
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-11	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000776		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

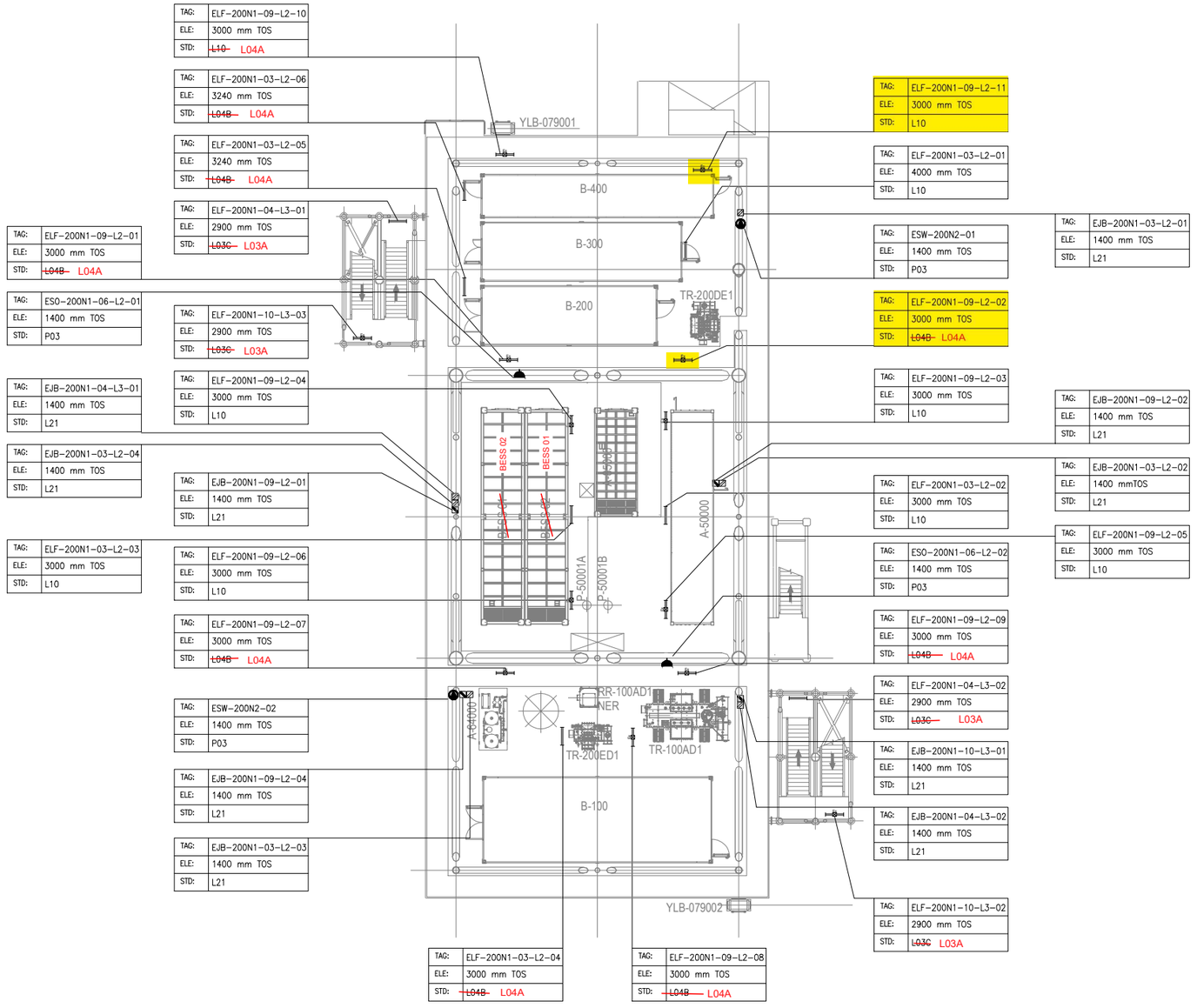
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

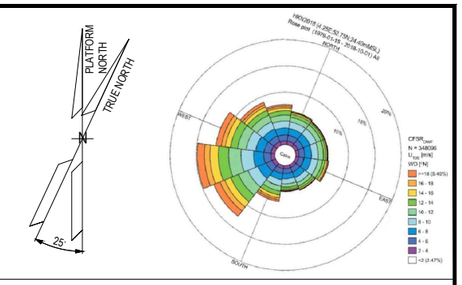
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-16	2024-12-17	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-16T11:13:50.655Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-17T11:04:43.858Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

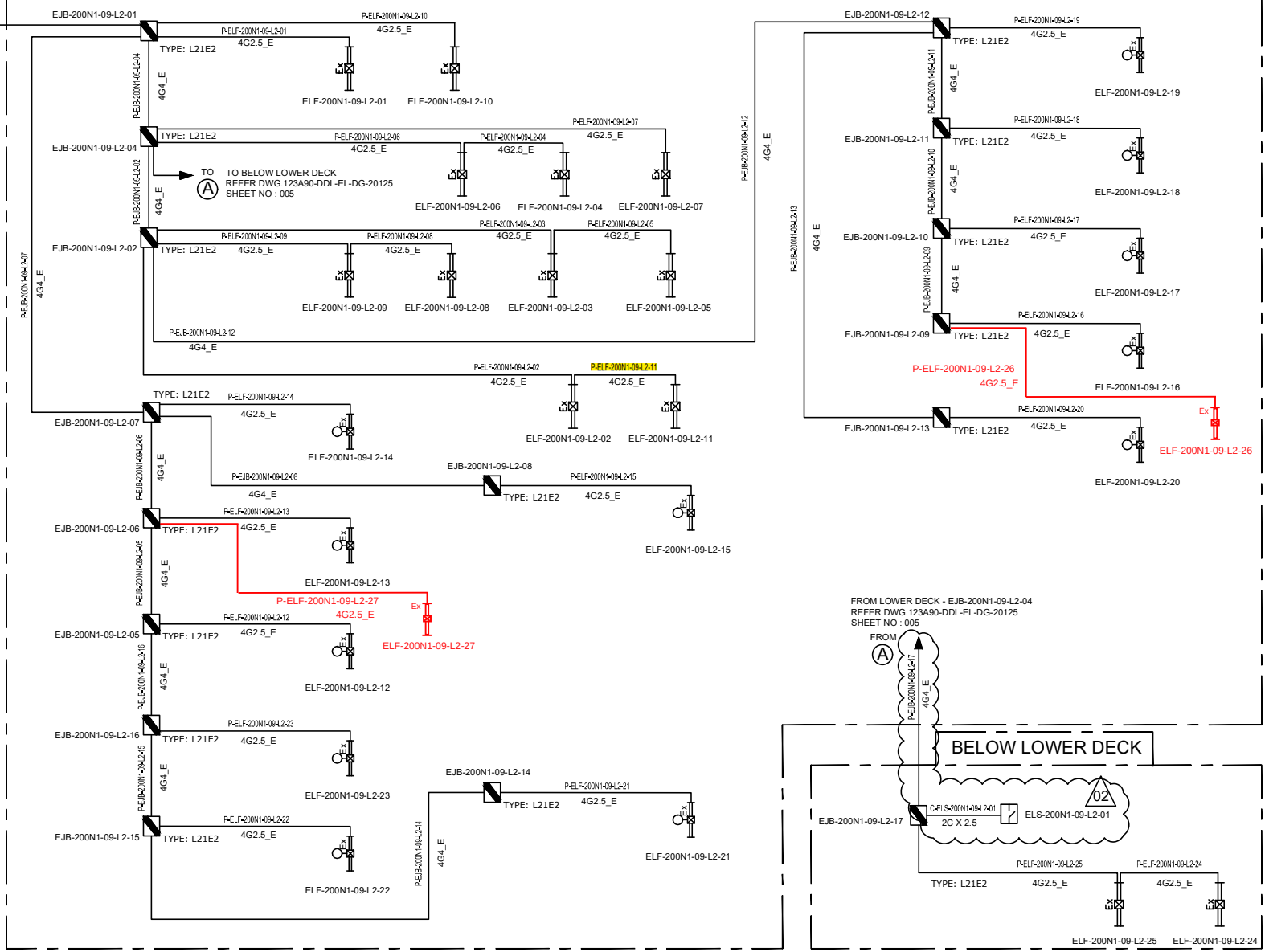
CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO		DATE	06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119			SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

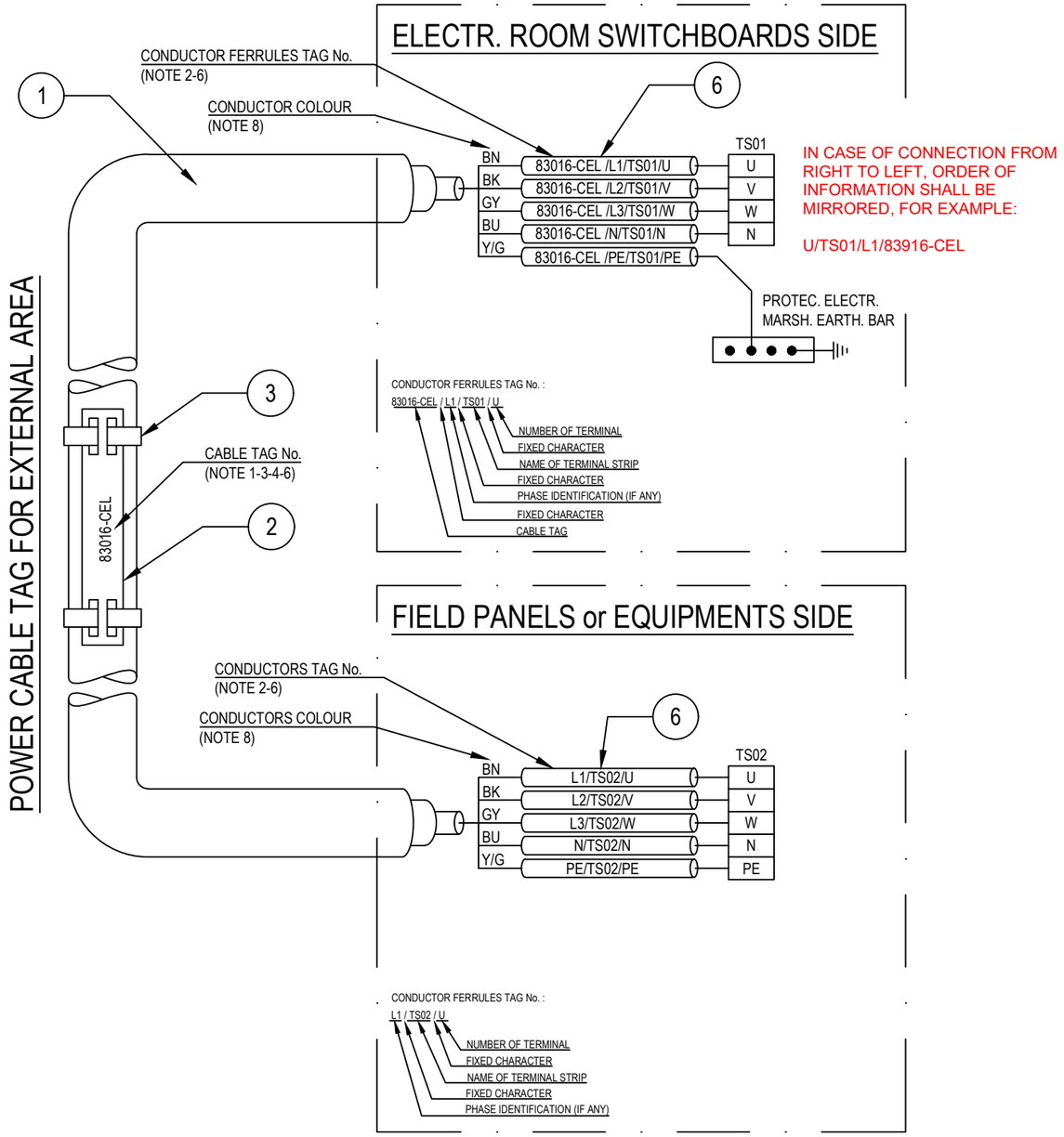
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

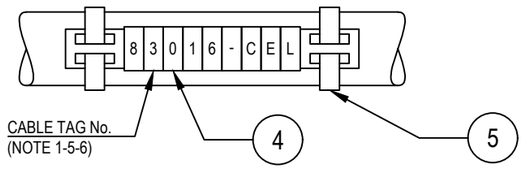
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

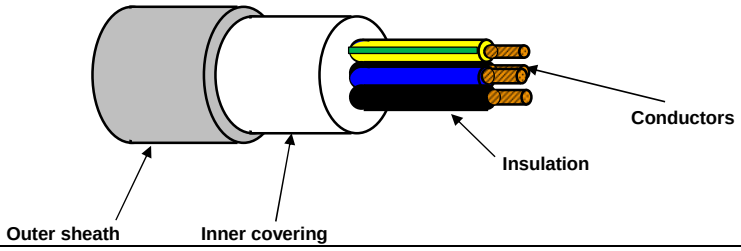
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-11	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-09-L2-02	Emergency Lighting Fixture	Lower Deck		ELF-200N1-09-L2-11	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-750-101-LVT-014 / L-750-101-LVT-013 / L-750-101-LVT-015 / L-300-101-LVT-007

ITEM	Tag	P-ELF-200N1-09-L2-10	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000777		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH Cores/Size mm²: 4G2,5_E mm2 Color: GREY

From: EJB-200N1-09-L2-01 To: ELF-200N1-09-L2-10

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-10	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000777		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,4	
6		PH 2	0,4	
7		PH 3	0,4	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

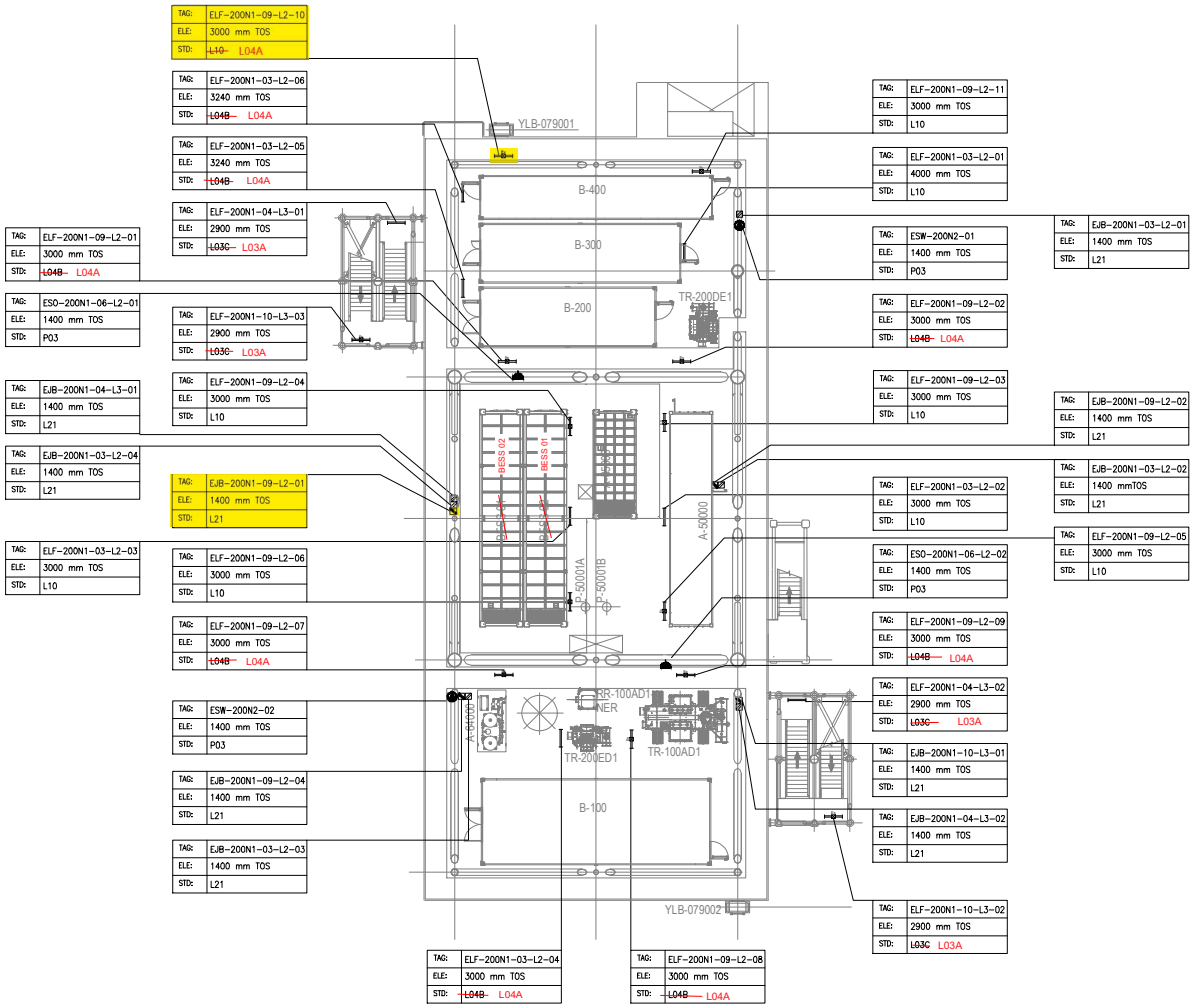
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

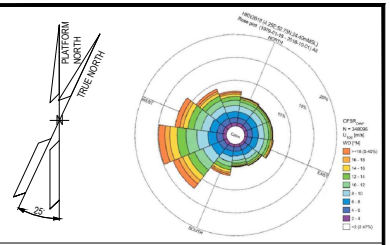
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Luca Mussi	
Date	2025-01-08	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:16:38.326Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-16T15:38:58.215Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

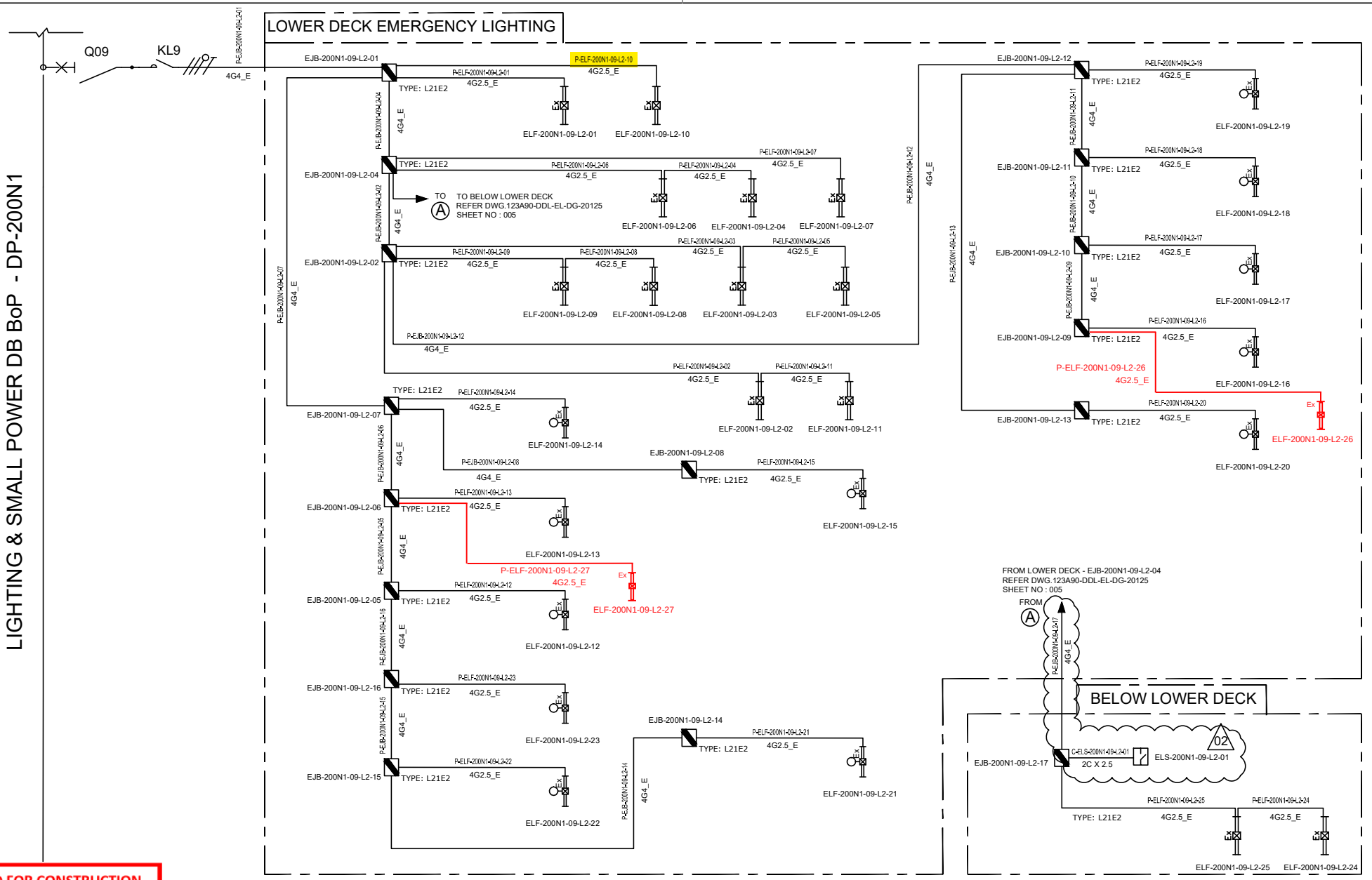
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

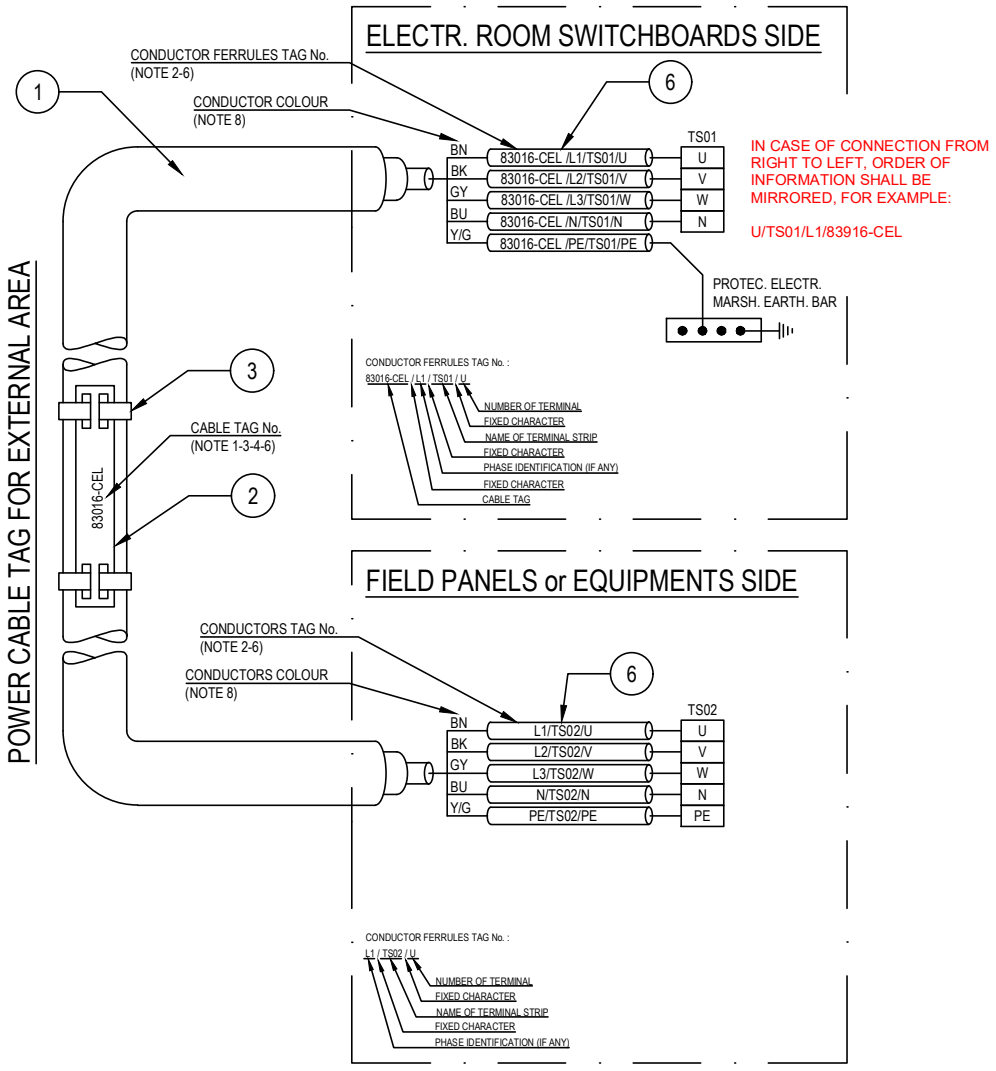
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

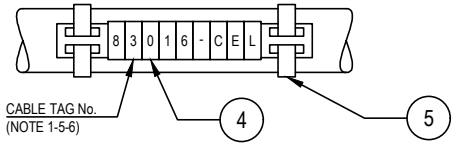
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

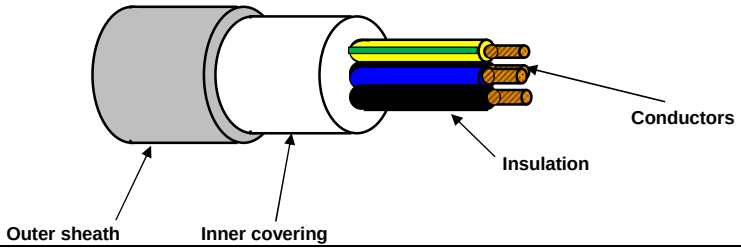
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-10	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-01	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-10	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-099 / L-600-101-LVT-012 / L-450-101-LVT-008 / L-300-101-LVT-009

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-09-L2-02	: Emergency Lighting JB / Normal Lighting JB		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000778	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-04 To EJB-200N1-09-L2-02

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-02	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000778		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	0,6	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

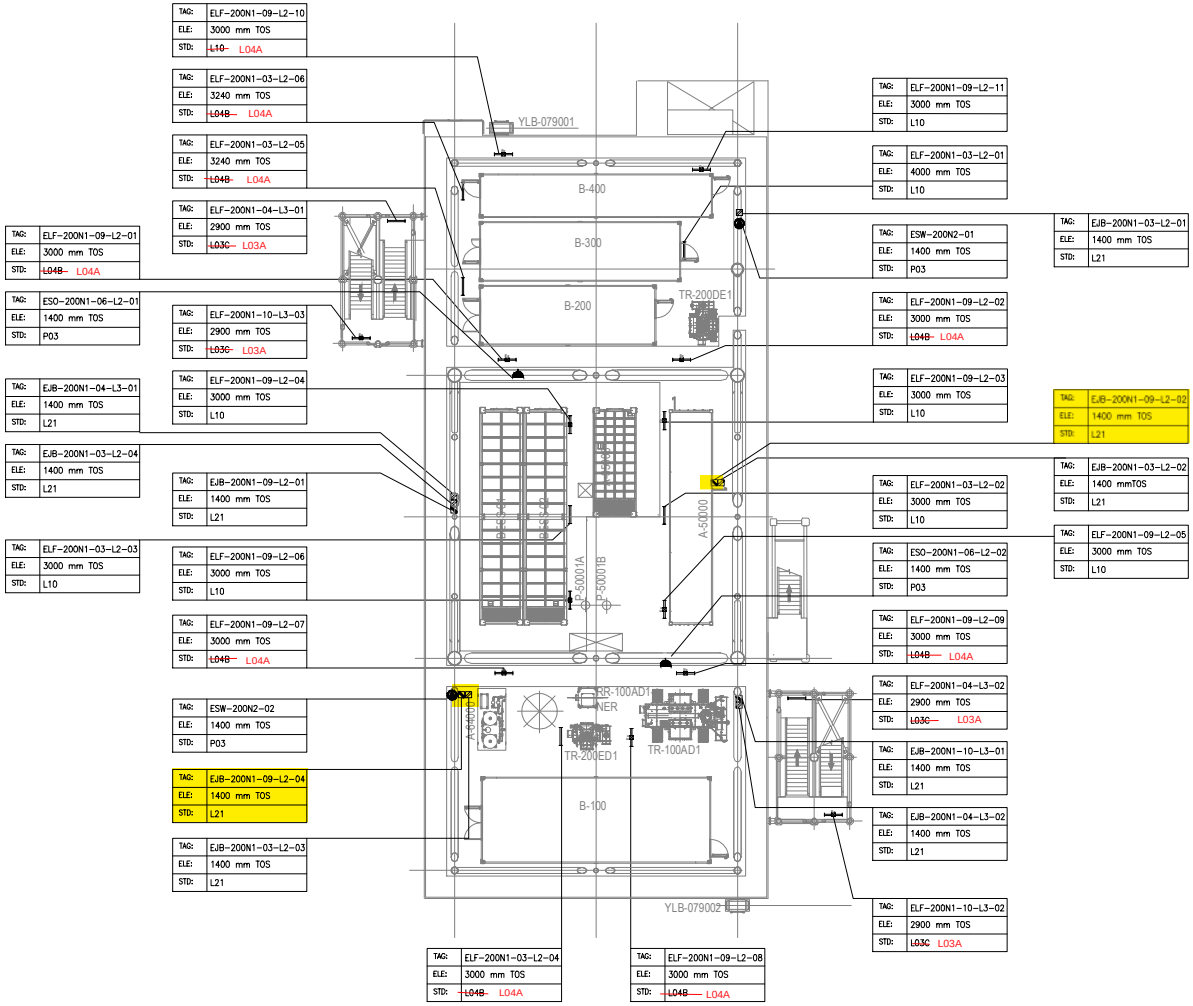
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

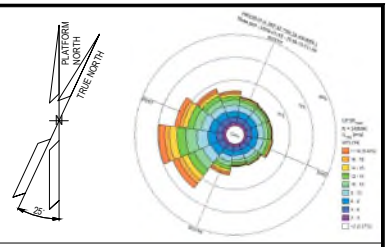
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:04:20.358Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:05:47.758Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

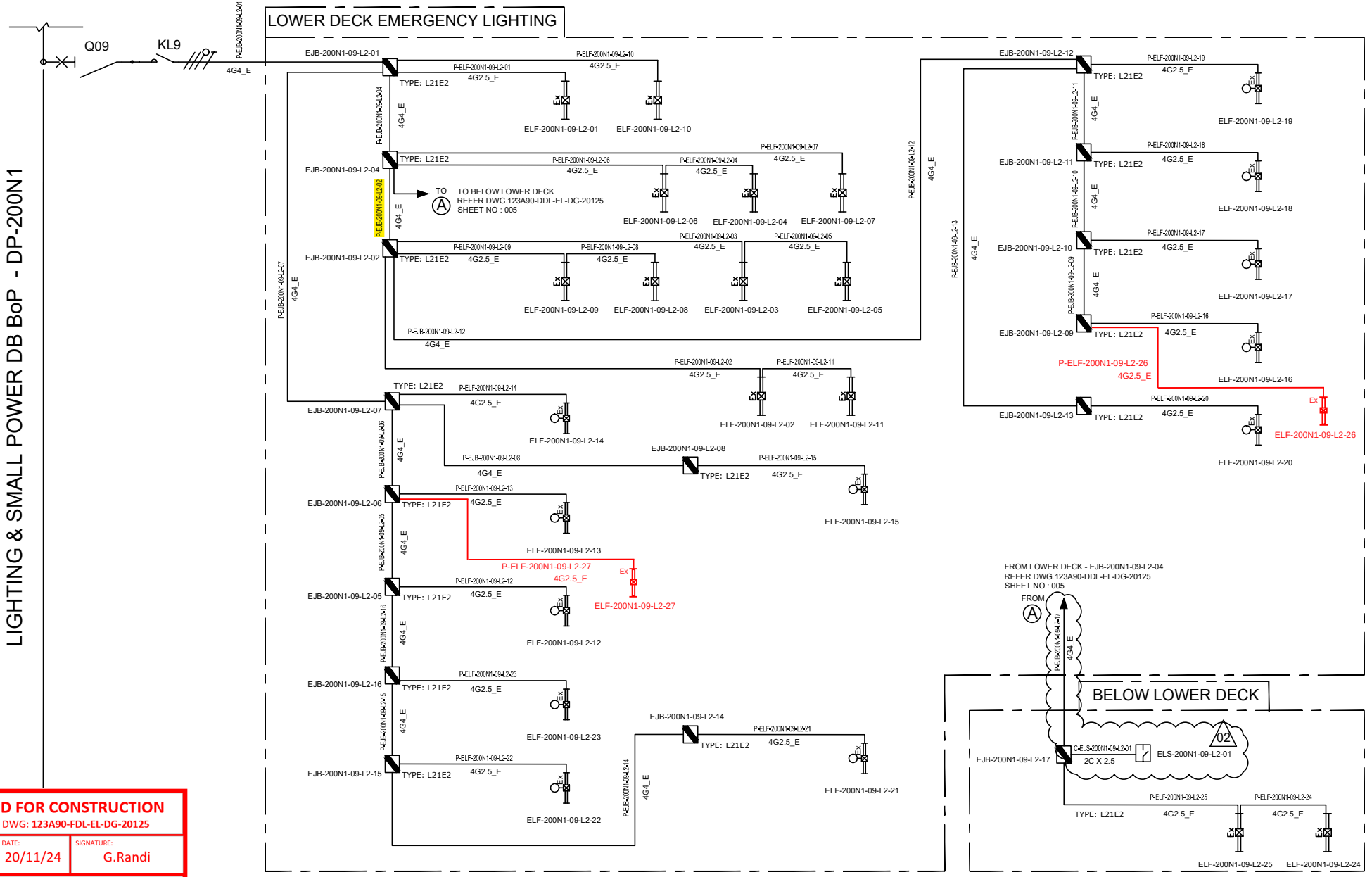
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

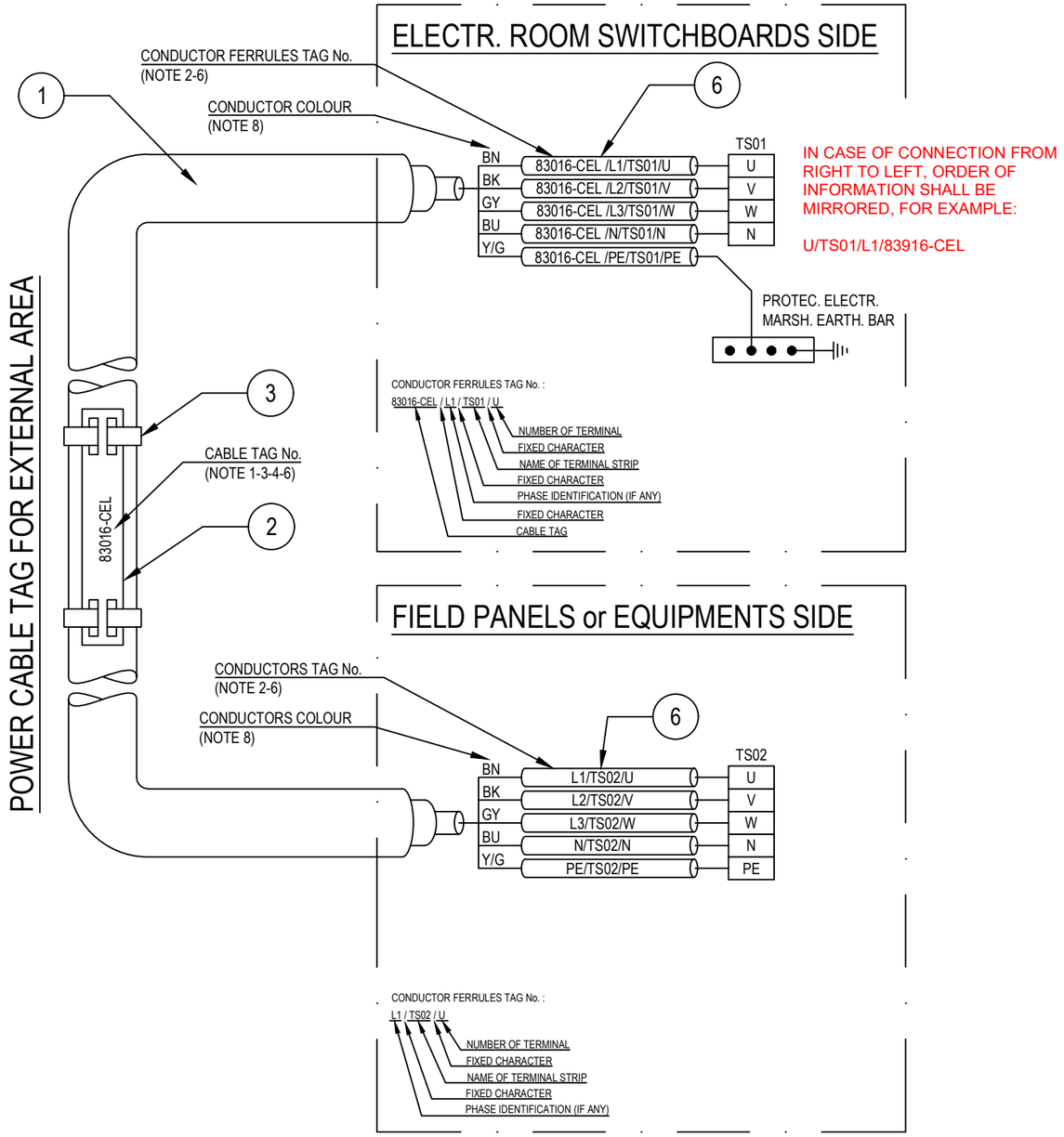
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

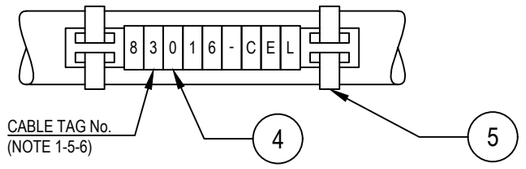
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

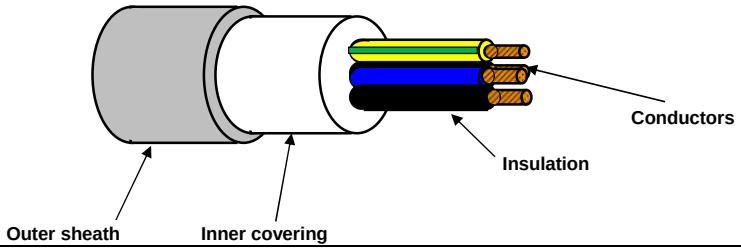
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-02	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-04	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-02	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-300-101-LVT-098 / L-600-101-LVT-012 / L-600-101-LVT-094 / L-750-101-LVT-014 / L-150-101-LVT-087

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-03	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000779		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-02 To ELF-200N1-09-L2-03

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-03	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000779		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

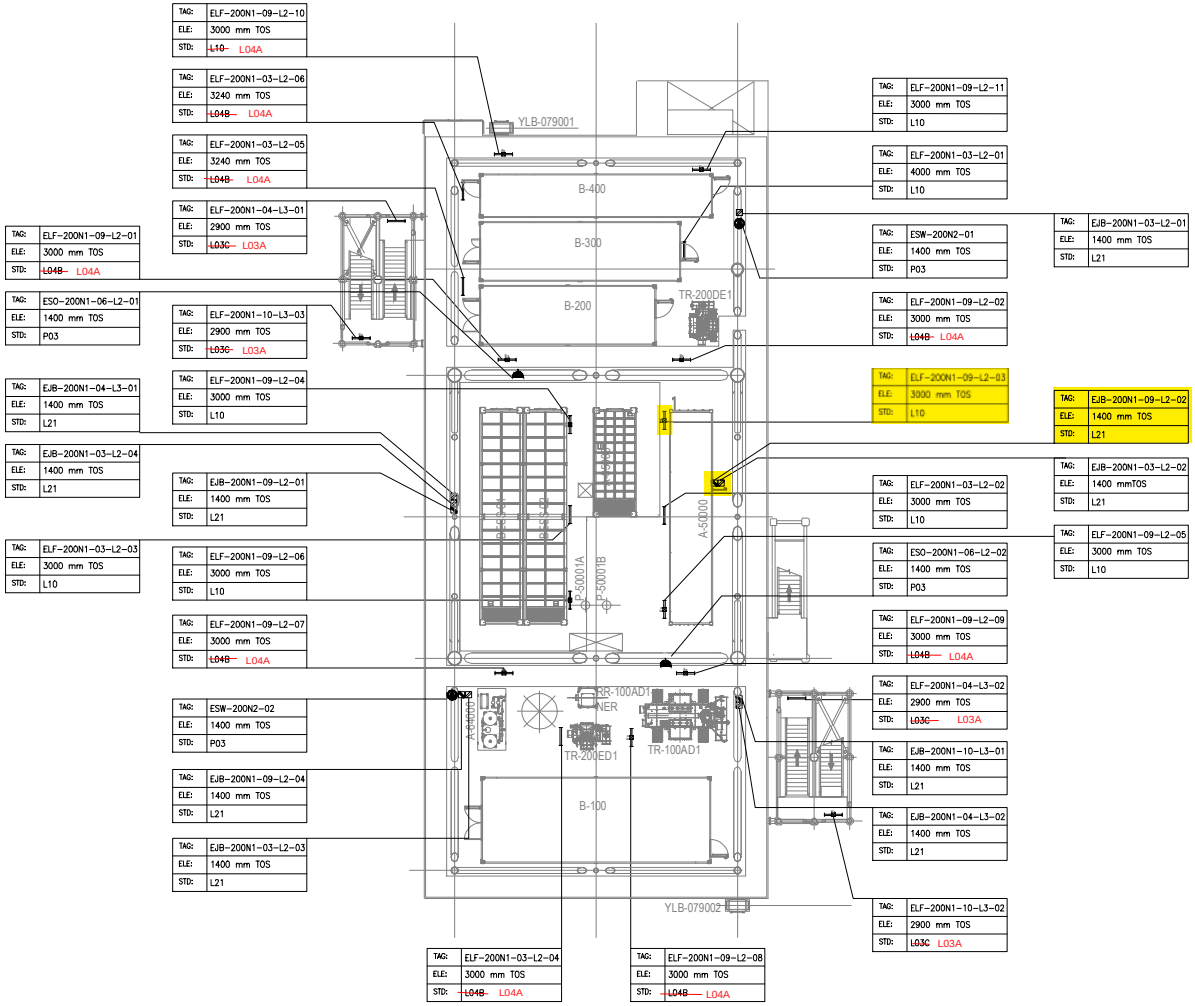
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

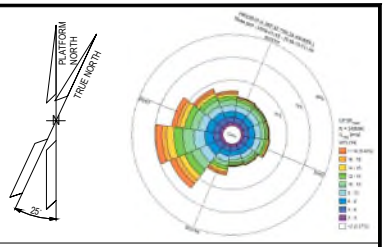
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:04:37.827Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:09:39.354Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

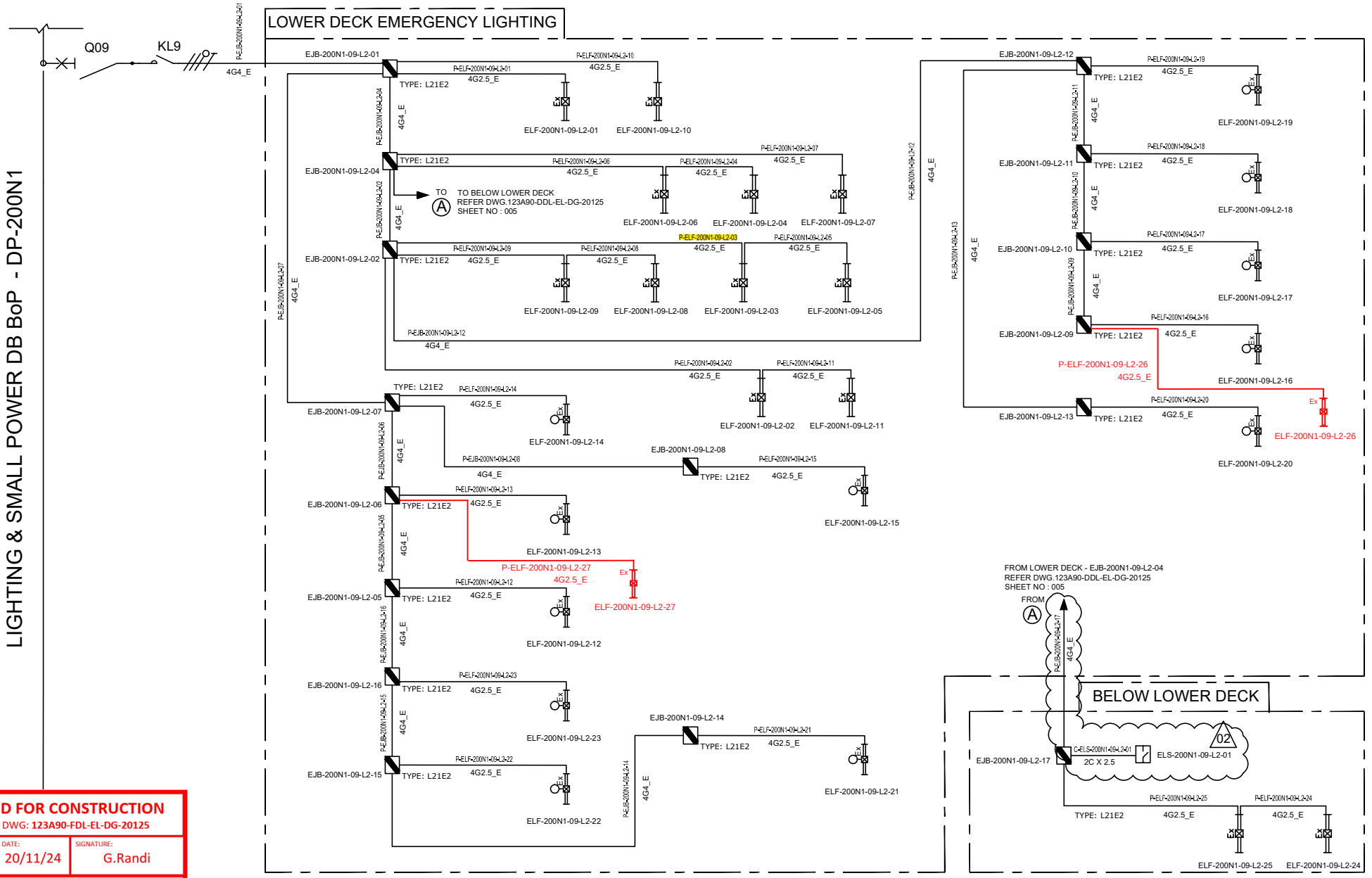
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

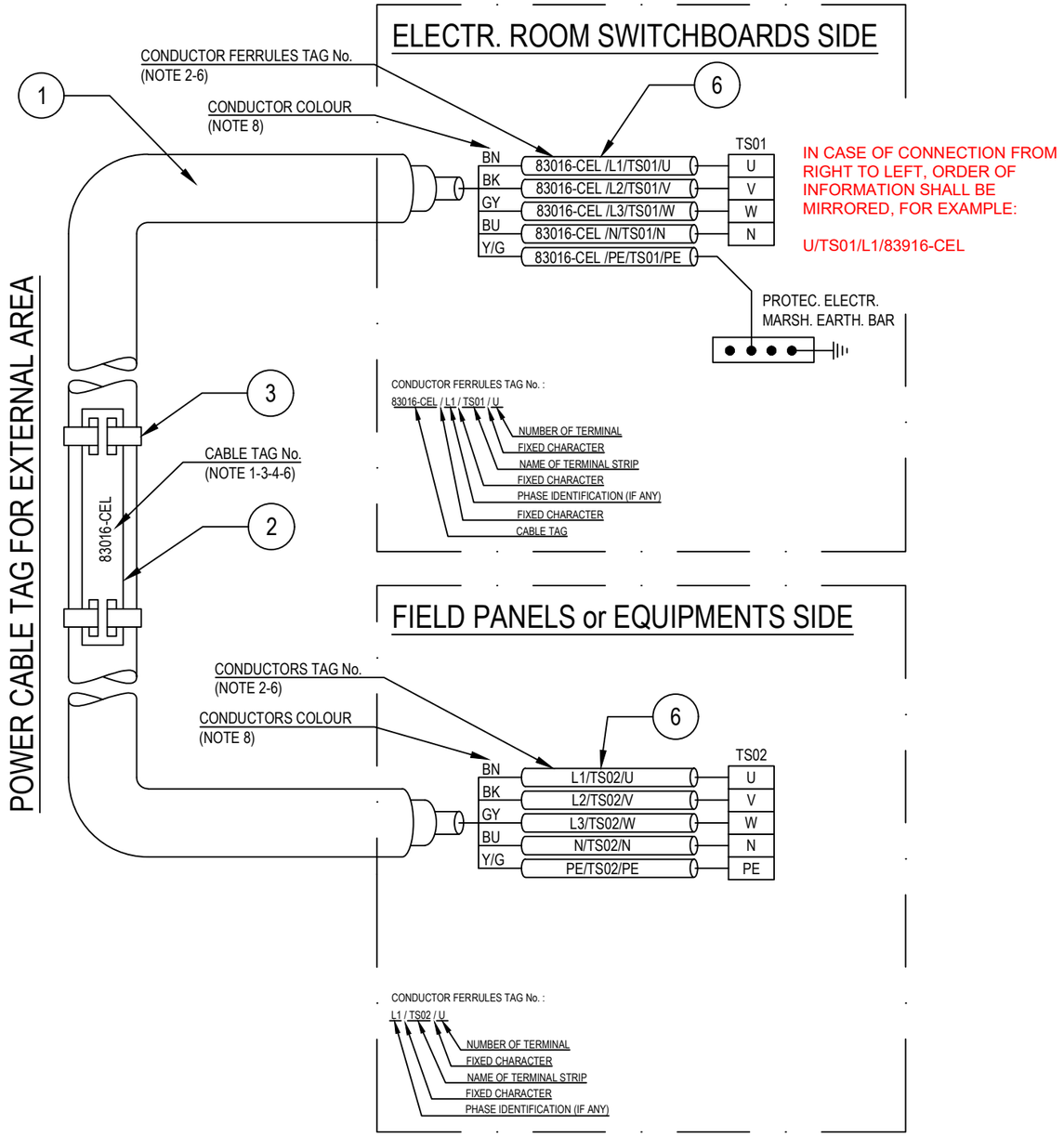
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

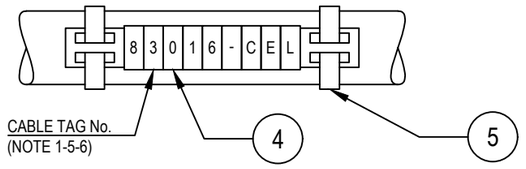
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

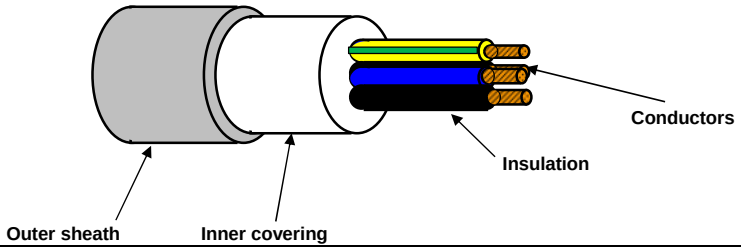
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-03	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-02	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-03	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-087 / L-50-101-LVT-138 / L-50-101-LVT-139

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-09-L2-04	: Normal Lighting JB / Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000780	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH Cores/Size mm²: 4G2,5_E mm2 Color: GREY

From: ELF-200N1-09-L2-06 To: ELF-200N1-09-L2-04

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-04	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000780		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,7	
6		PH 2	0,7	
7		PH 3	0,7	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,7	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

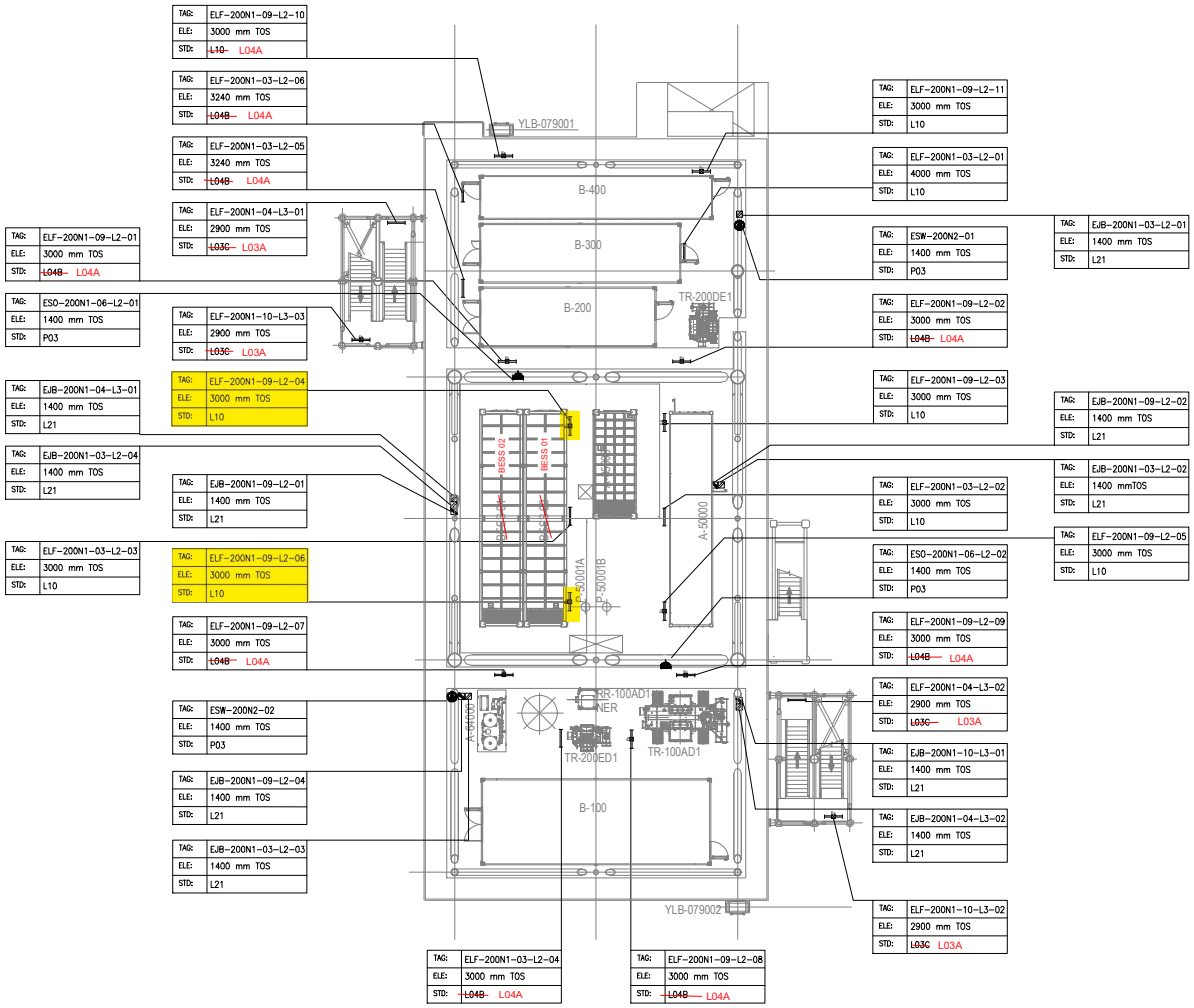
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

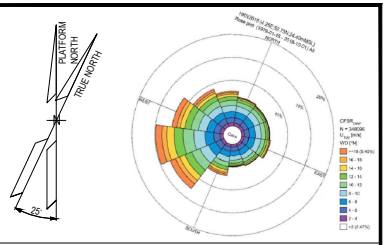
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-08	2025-01-13	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:16:55.800Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-13T08:43:52.690Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2
P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
P-EJB-200N1-09-L2-02 4G4_E

EJB-200N1-09-L2-02 — TYPE: L21E2
P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-12 4G4_E
P-EJB-200N1-09-L2-07 4G4_E

P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2
P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2
P-EJB-200N1-09-L2-08 4G4_E
P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2
P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-EJB-200N1-09-L2-05 4G4_E
P-ELF-200N1-09-L2-27 4G2.5_E — Ex — ELF-200N1-09-L2-27

EJB-200N1-09-L2-05 — TYPE: L21E2
P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2
P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2
P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2
P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21
P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2
P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2
P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2
P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2
P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — Ex — ELF-200N1-09-L2-26
P-EJB-200N1-09-L2-13 4G4_E

EJB-200N1-09-L2-13 — TYPE: L21E2
P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)
P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17
C-ELS-200N1-09-L2-01 2C X 2.5 — ELS-200N1-09-L2-01 — 02
P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

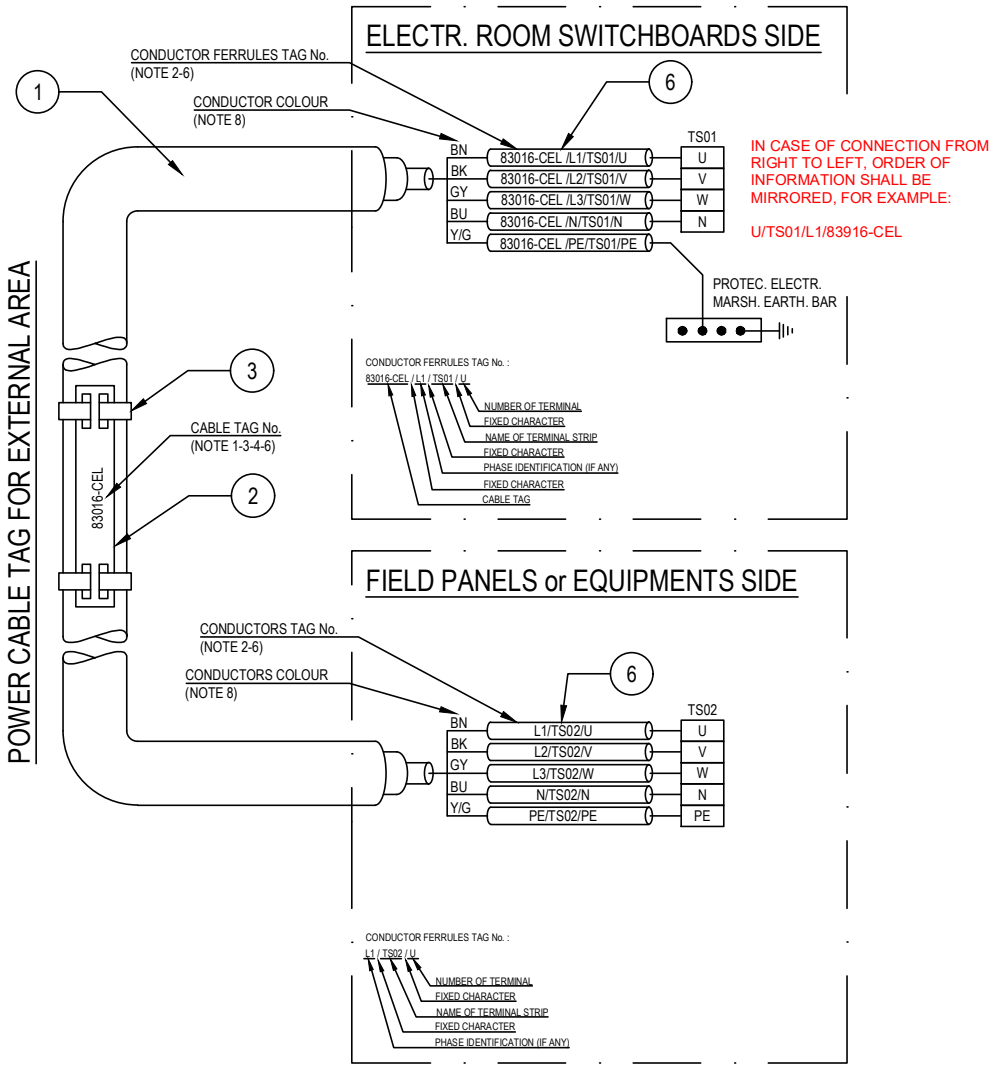
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

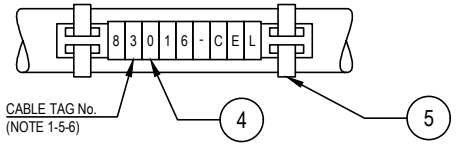
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7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

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POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

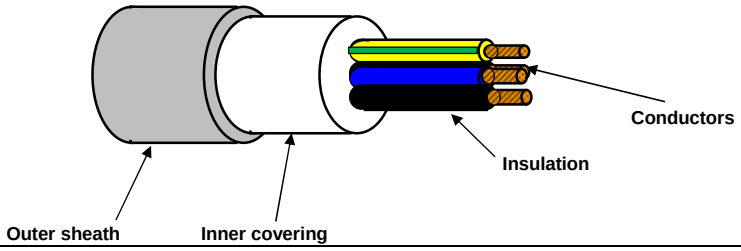
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-04	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-09-L2-06	Emergency Lighting Fixture	Lower Deck		ELF-200N1-09-L2-04	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-300-101-LVT-069 / L-300-101-LVT-002 / L-300-101-LVT-068 / L-50-101-LVT-140

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-05	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000782		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From ELF-200N1-09-L2-03 To ELF-200N1-09-L2-05

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-05	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000782		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

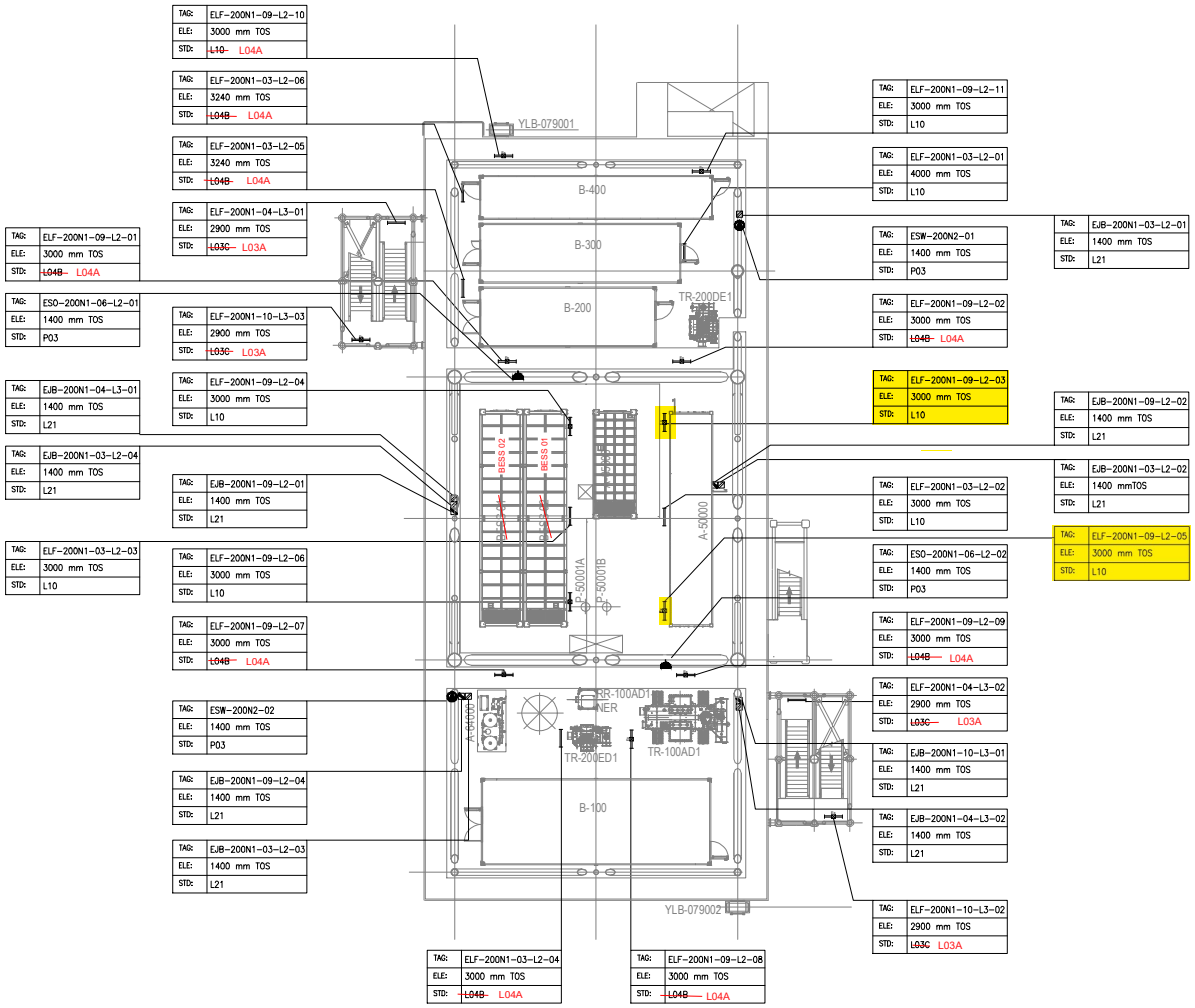
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments:

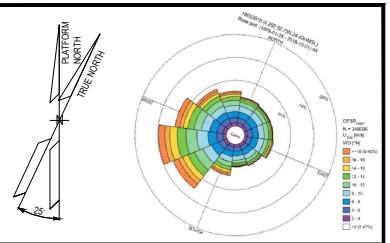
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-11	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:05:03.721Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:36:31.698Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

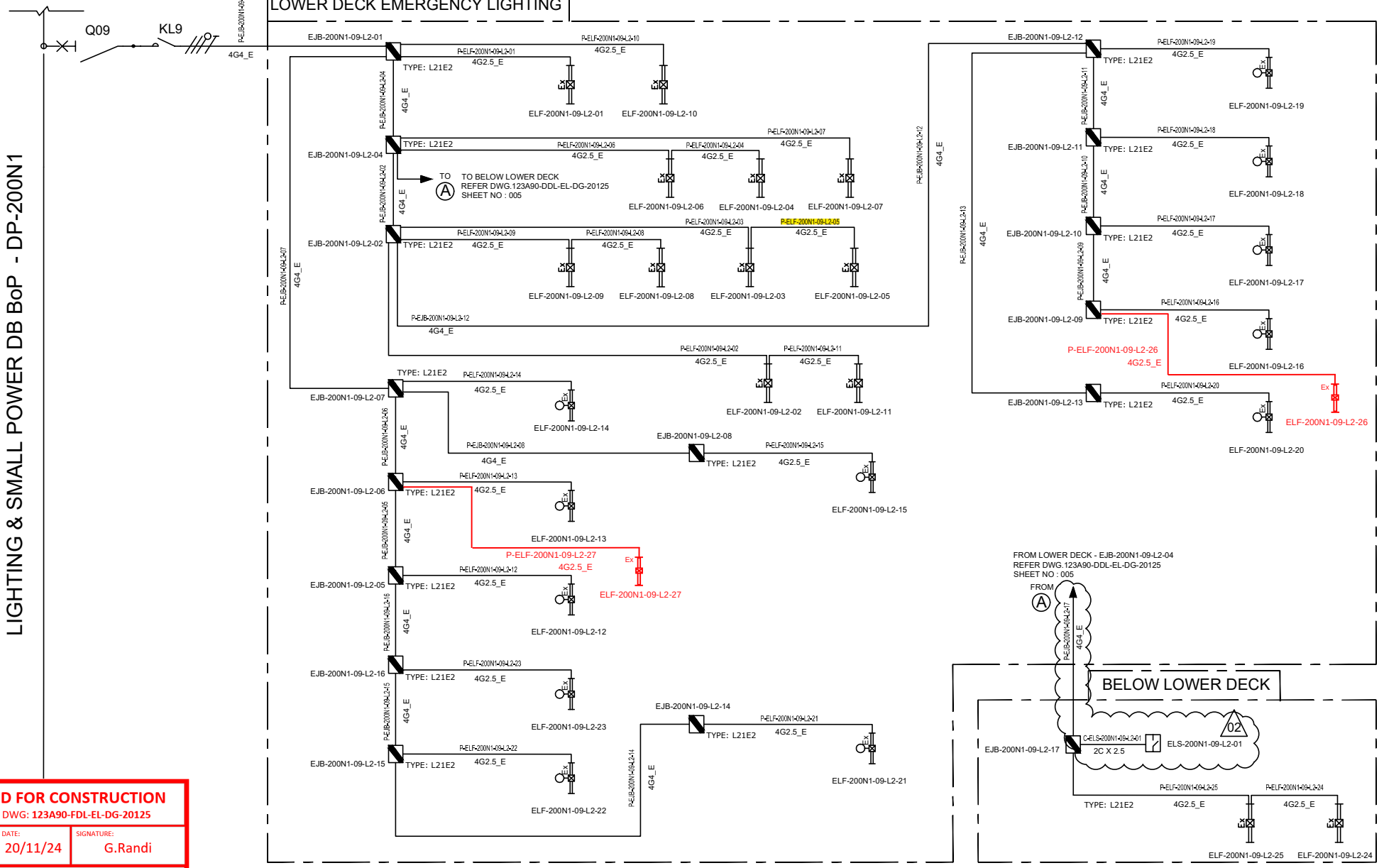
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

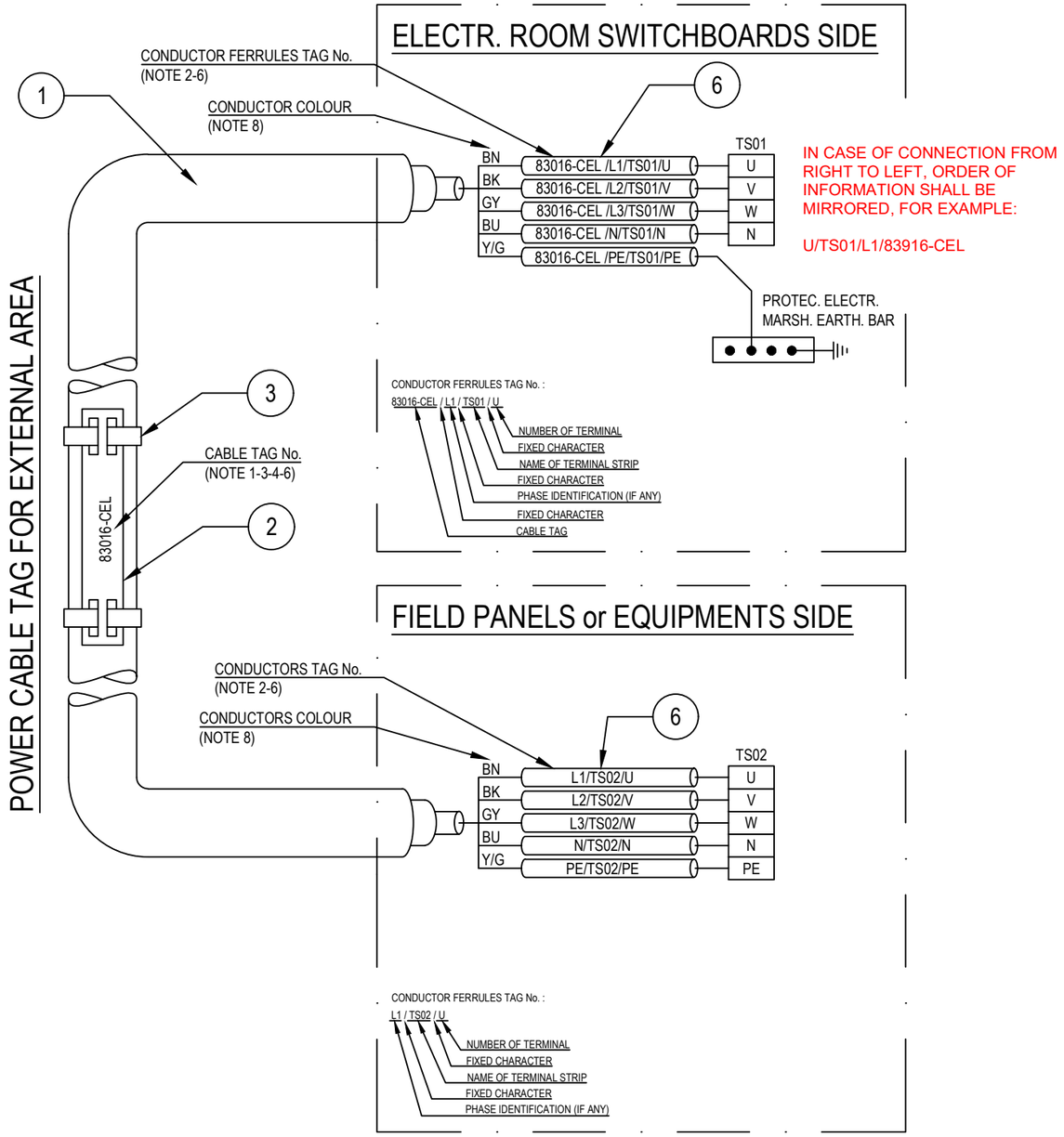
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

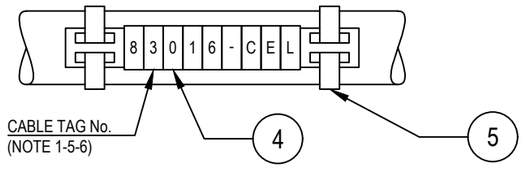
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

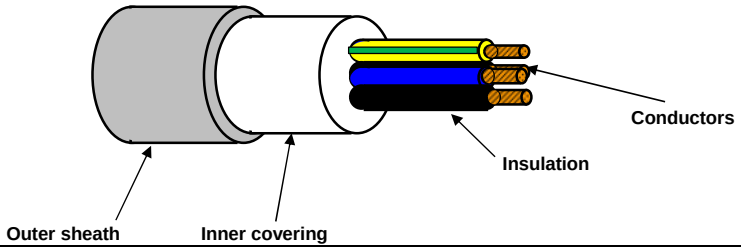
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-05	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-09-L2-03	Emergency Lighting Fixture	Lower Deck		ELF-200N1-09-L2-05	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-139

ITEM	Tag	P-ELF-200N1-09-L2-06	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000783		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH Cores/Size mm²: 4G2,5_E mm2 Color: GREY

From: EJB-200N1-09-L2-04 To: ELF-200N1-09-L2-06

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-06	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000783		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,7	
6		PH 2	0,7	
7		PH 3	0,7	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,7	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

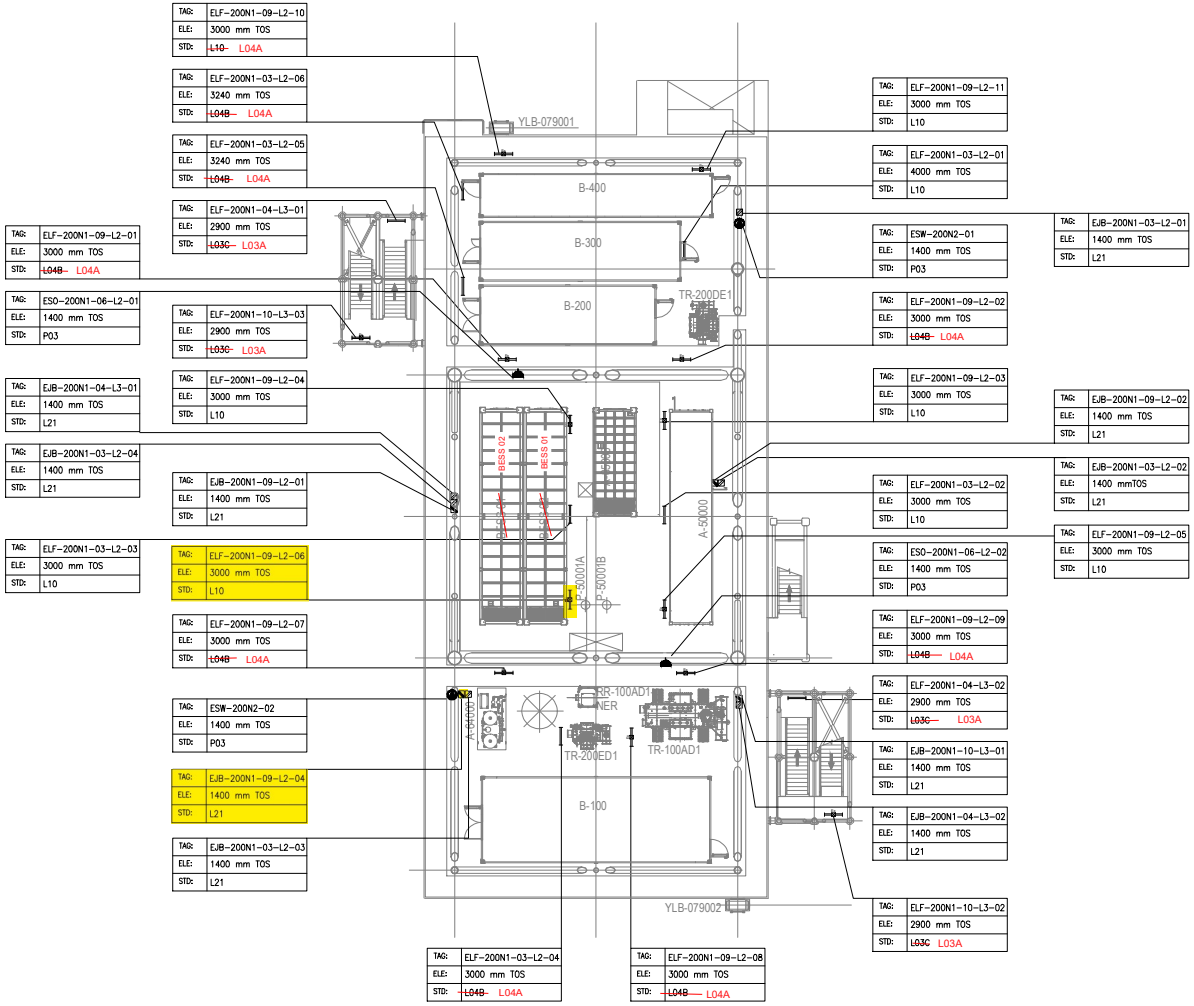
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

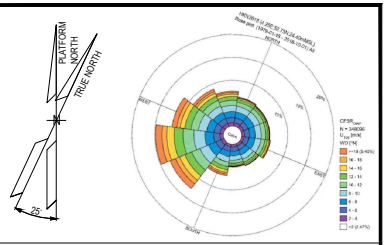
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-08	2025-01-13	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:17:12.910Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-13T08:46:36.890Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

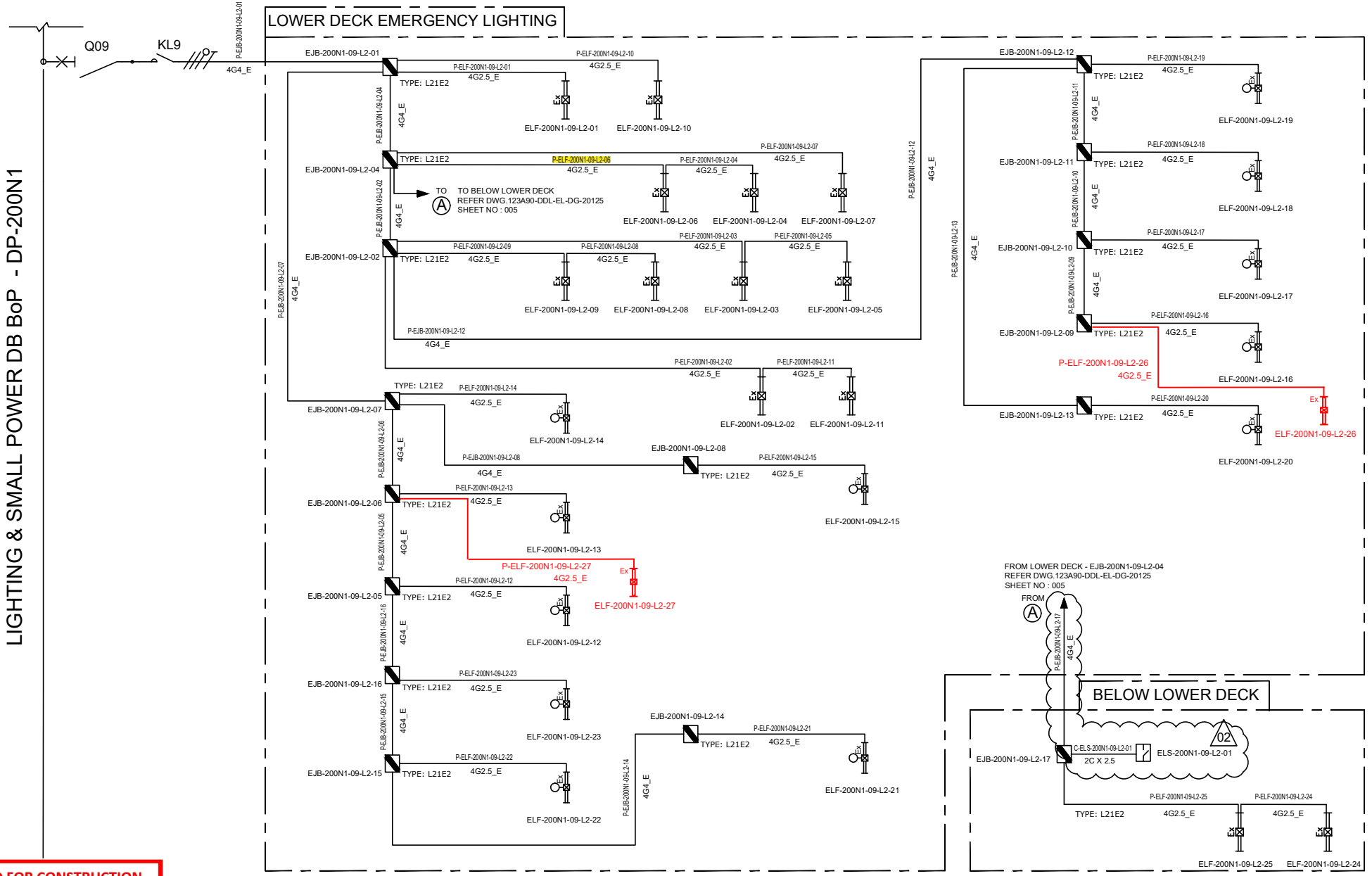
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

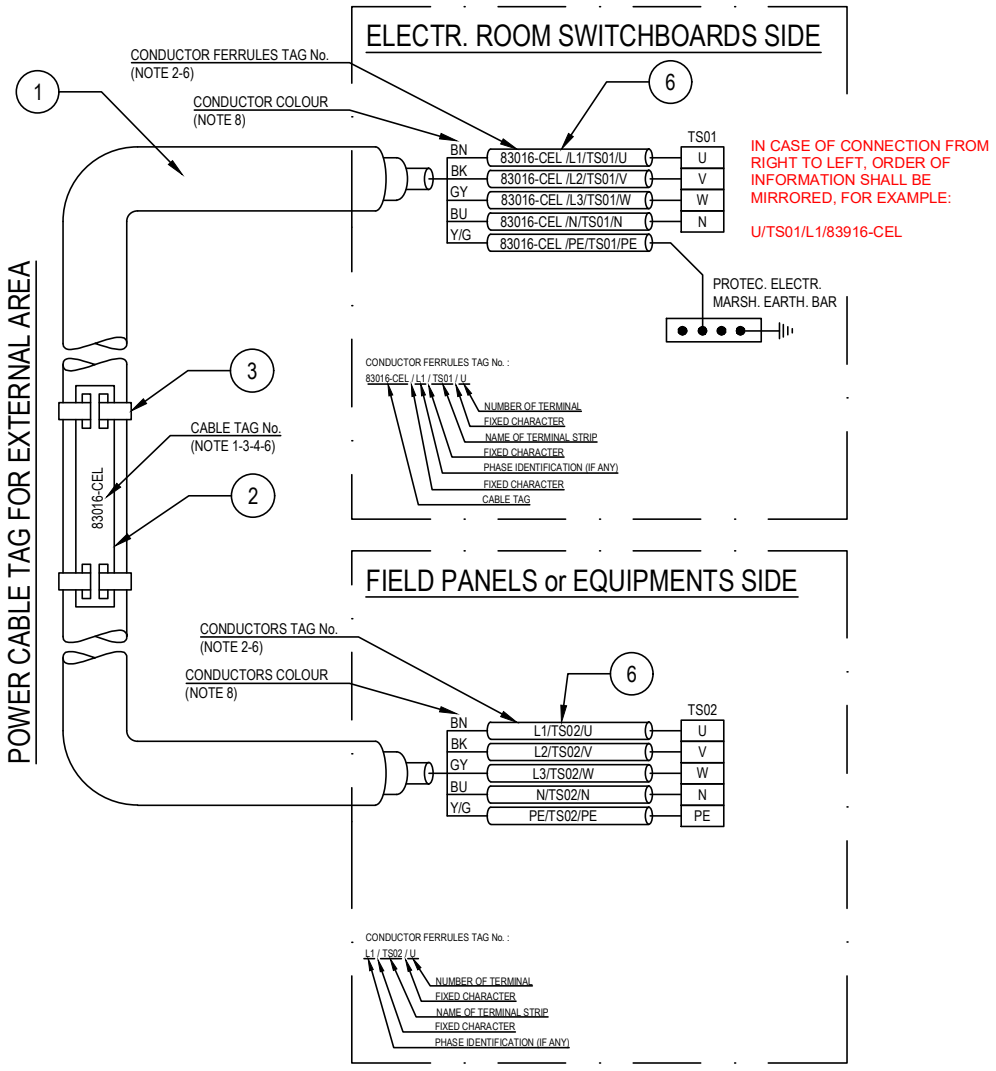
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

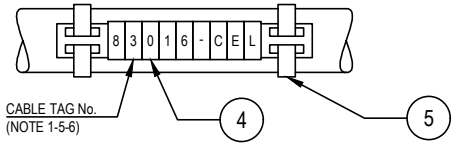
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

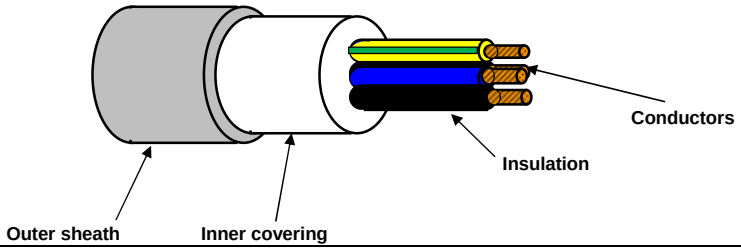
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-06	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-04	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-06	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu CI.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-300-101-LVT-098 / L-600-101-LVT-012 / L-300-101-LVT-069

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-09-L2-04	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000784		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-01 To EJB-200N1-09-L2-04

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-04	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000784		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0.4	
6		PH 2	0.4	
7		PH 3	0.4	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.4	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

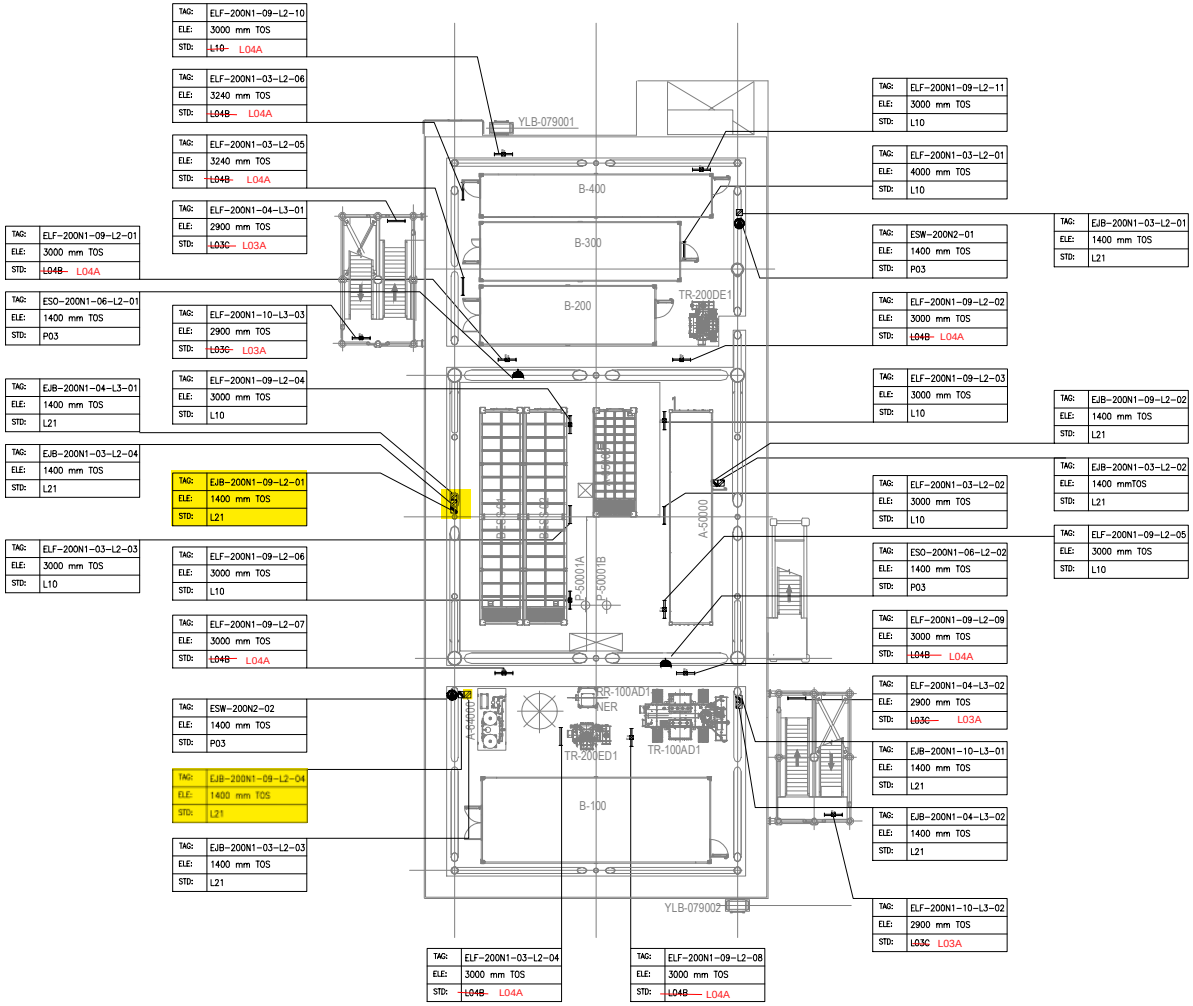
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

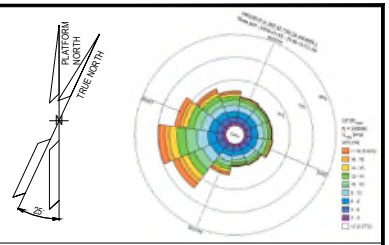
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-07	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T07:52:31.724Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-11T15:35:37.785Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

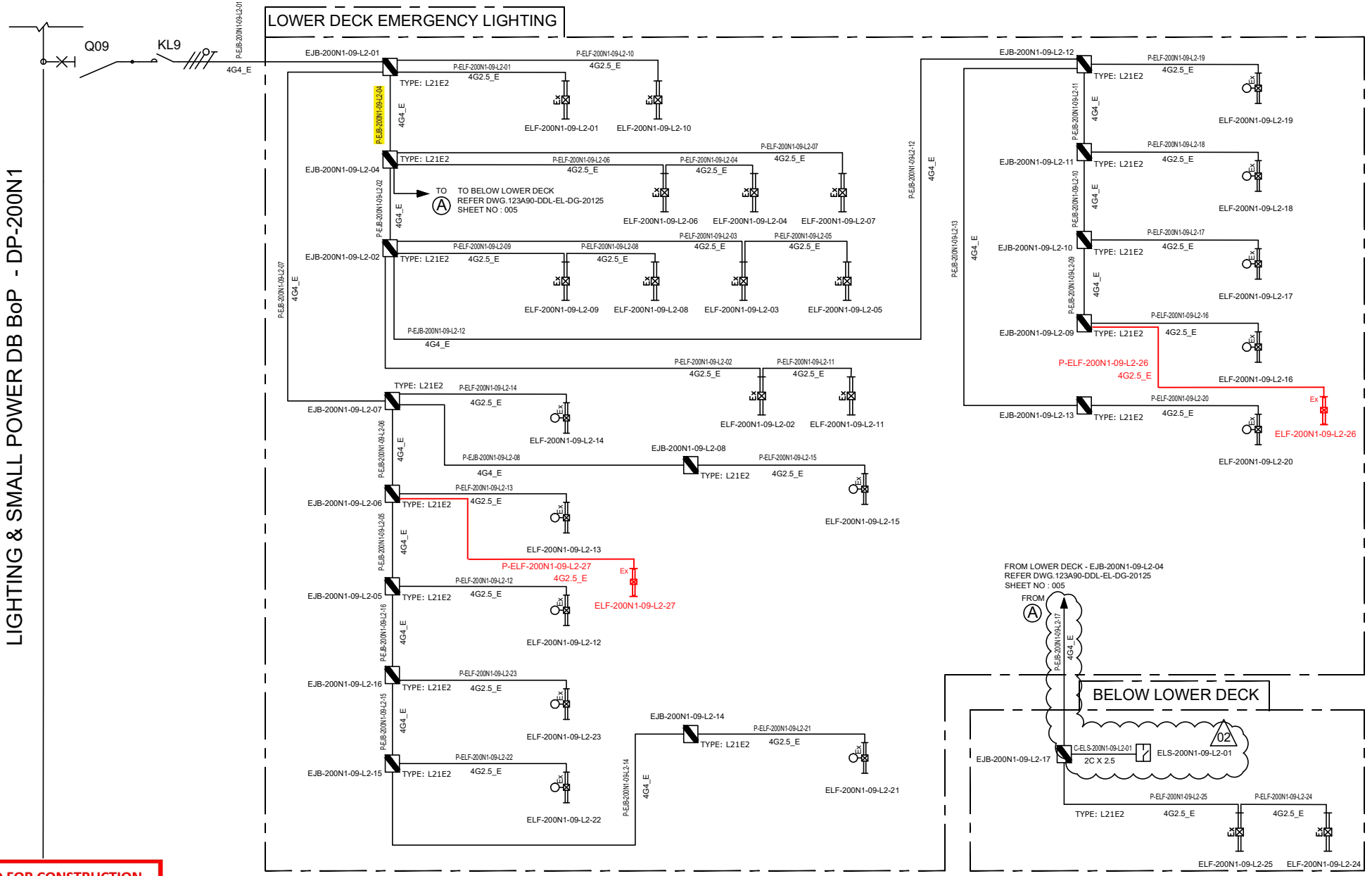
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

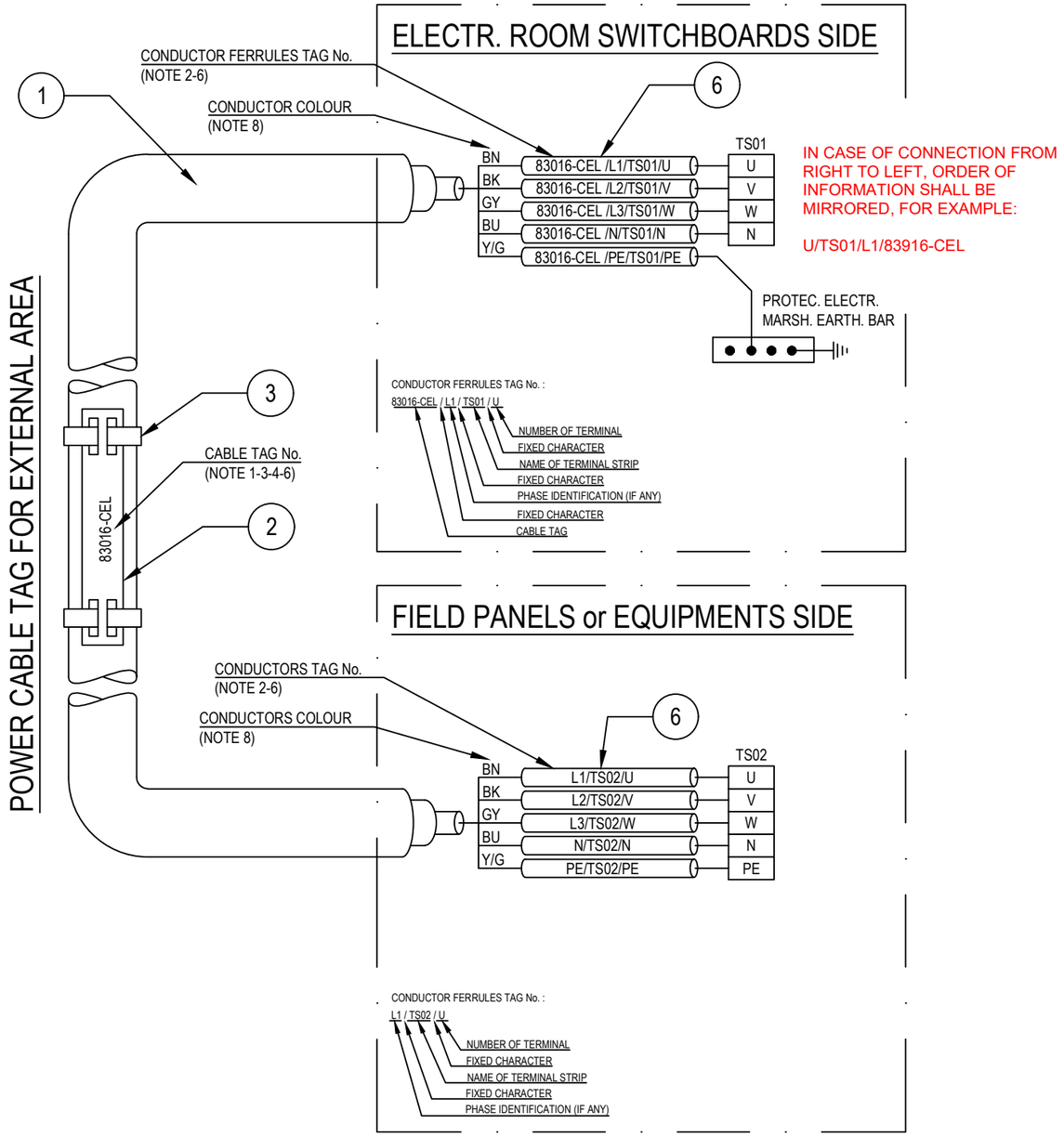
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

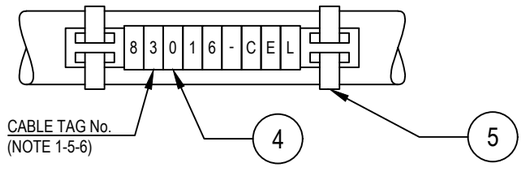
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

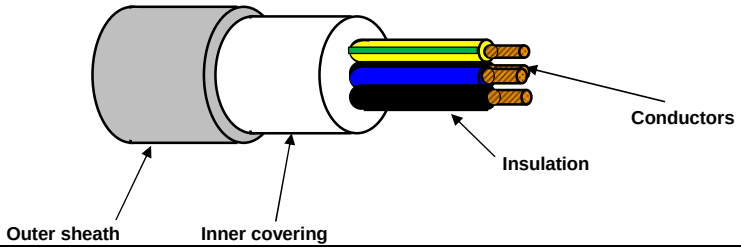
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-04	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-01	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-04	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-099 / L-600-101-LVT-012 / L-300-101-LVT-098

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-07	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000785		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-04 To ELF-200N1-09-L2-07

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-07	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000785		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0.2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

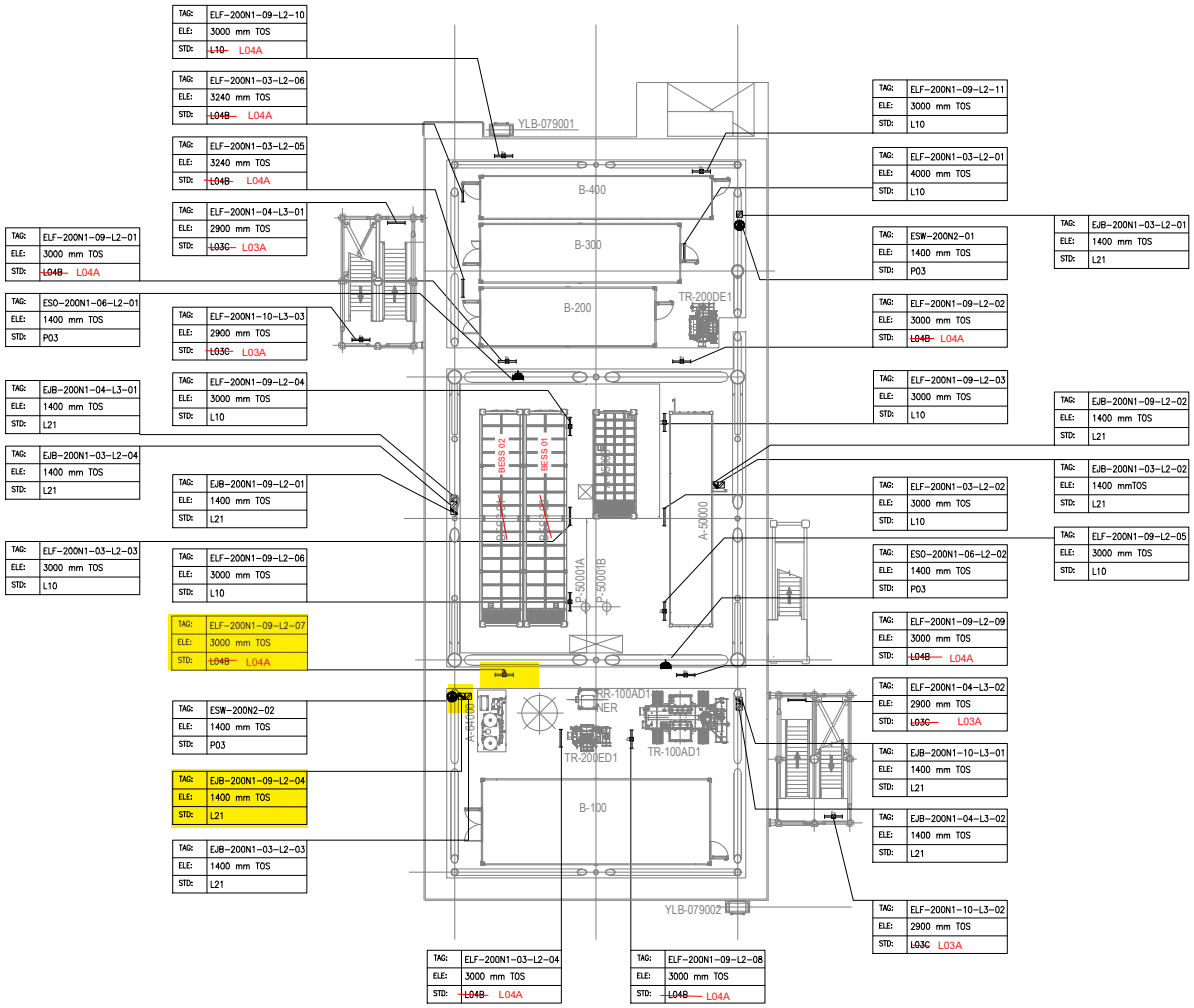
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments:

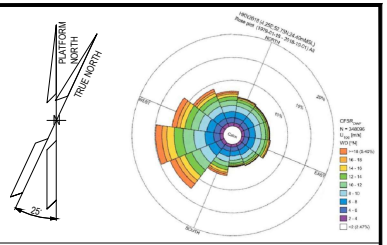
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-12	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-12T16:27:56.021Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:47:22.335Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

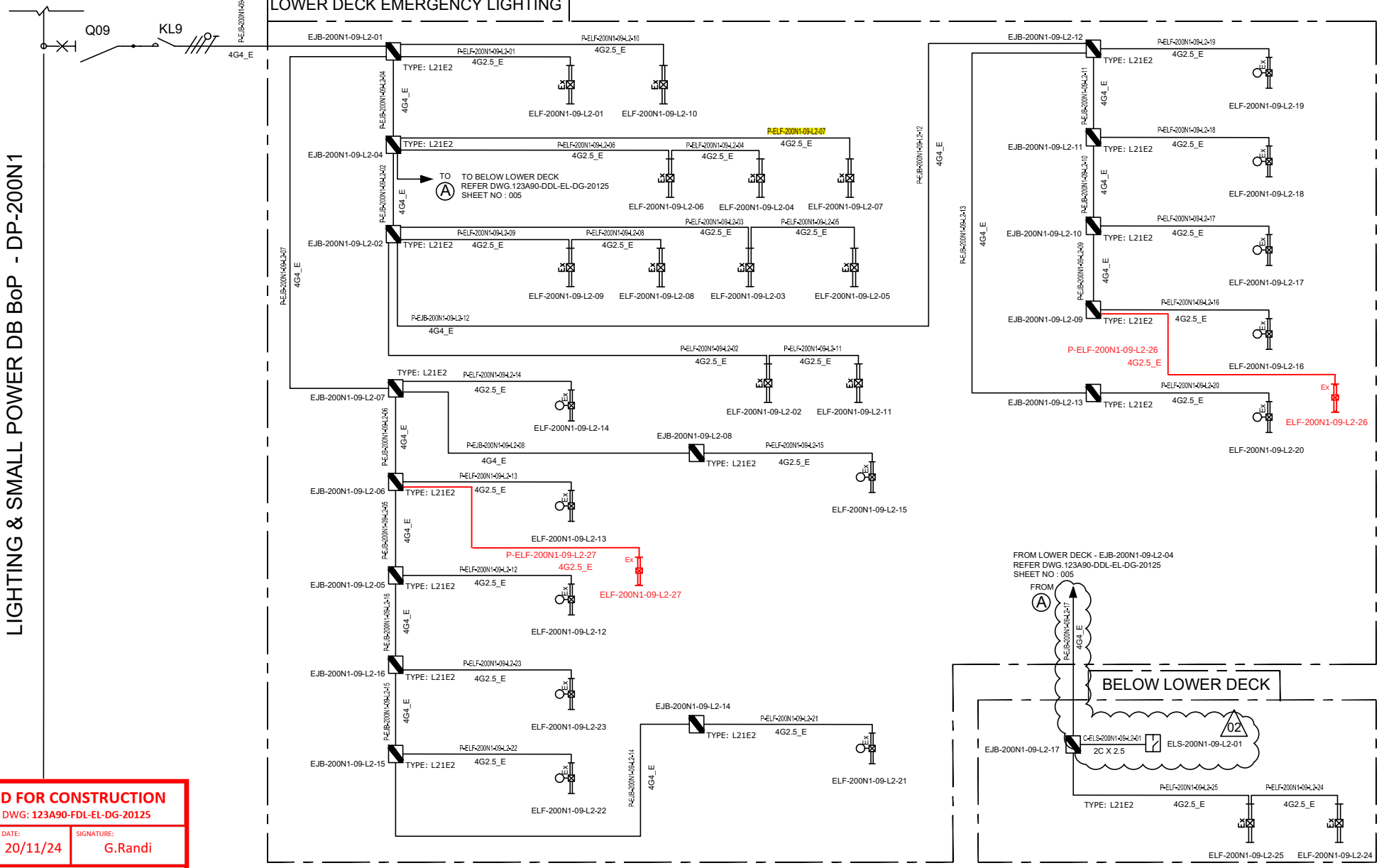
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

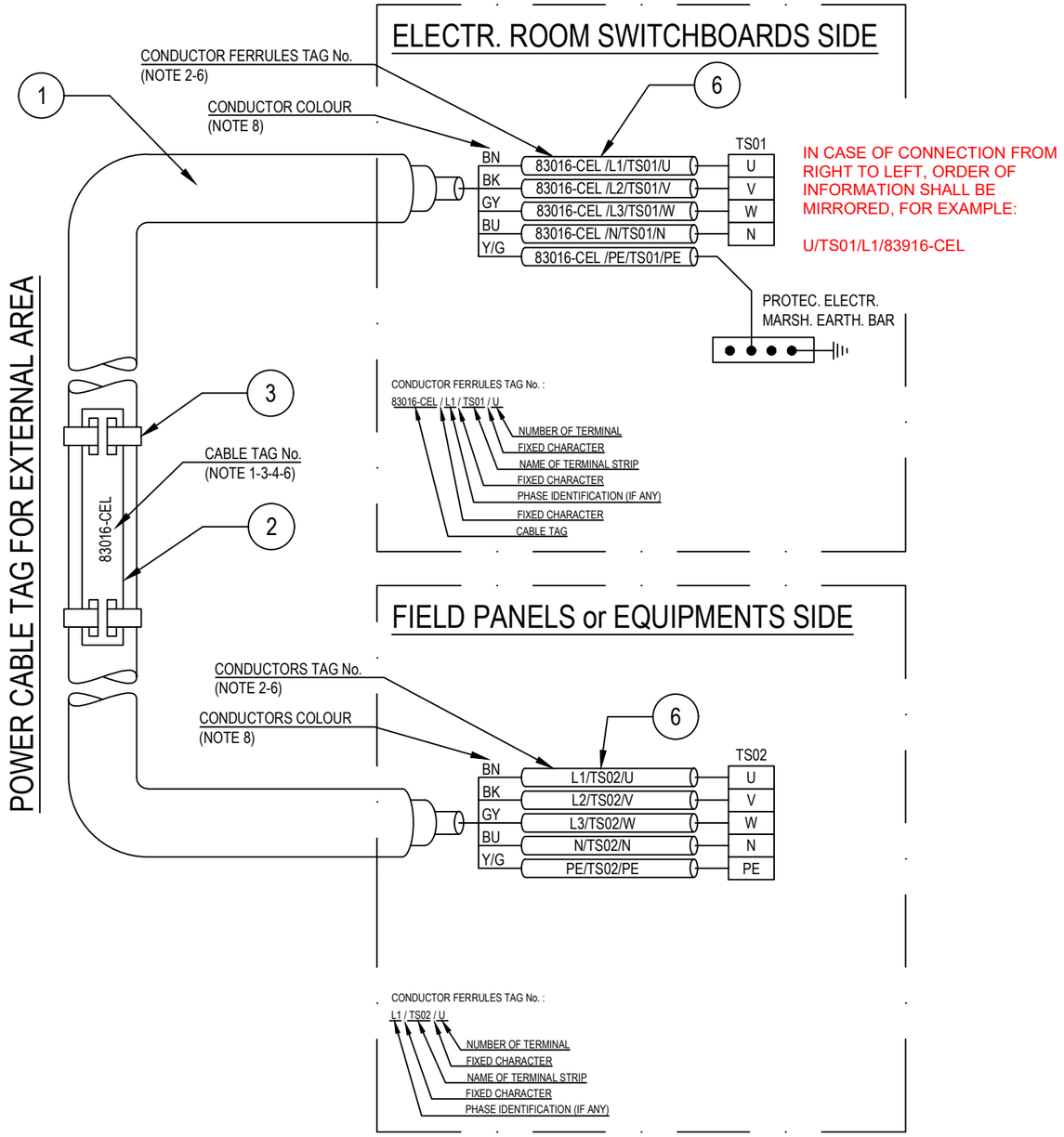
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

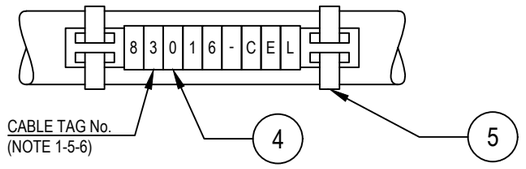
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

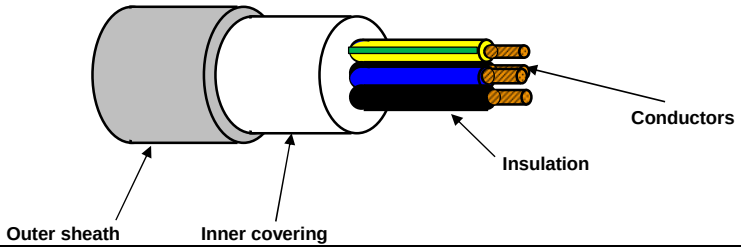
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-07	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-04	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-07	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-300-101-LVT-098 / L-600-101-LVT-012

ITEM	Tag	P-ELF-200N1-09-L2-08	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000786		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH Cores/Size mm²: 4G2,5_E mm2 Color: GREY

From: ELF-200N1-09-L2-09 To: ELF-200N1-09-L2-08

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	PL
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-08	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000786		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,17	
6		PH 2	0,17	
7		PH 3	0,17	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,17	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

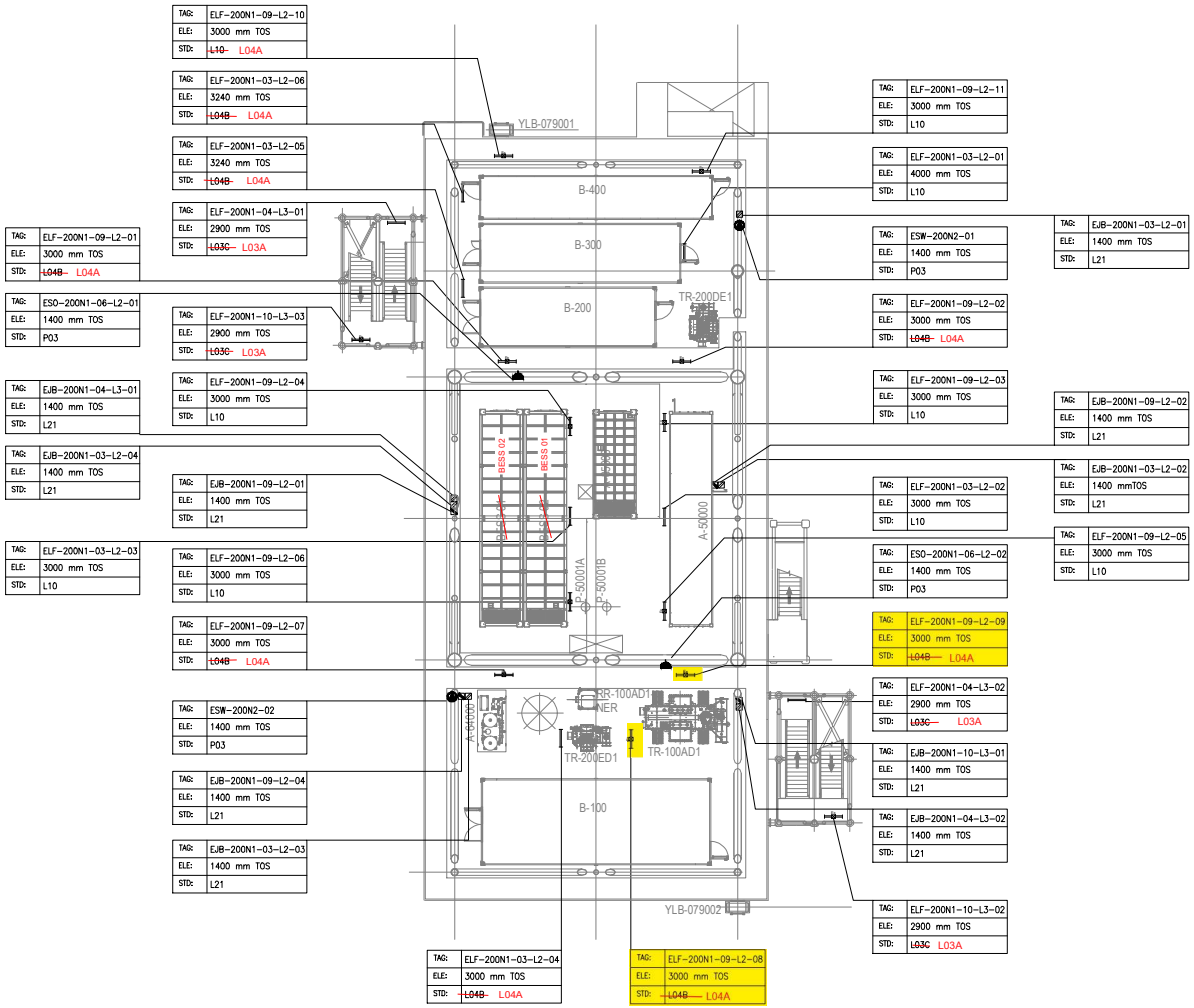
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

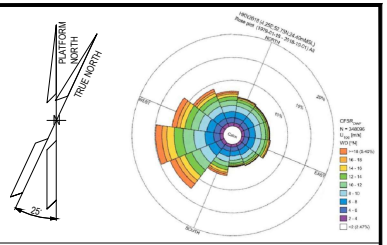
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Luca Mussi	
Date	2025-01-08	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:17:30.343Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-16T15:44:32.179Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

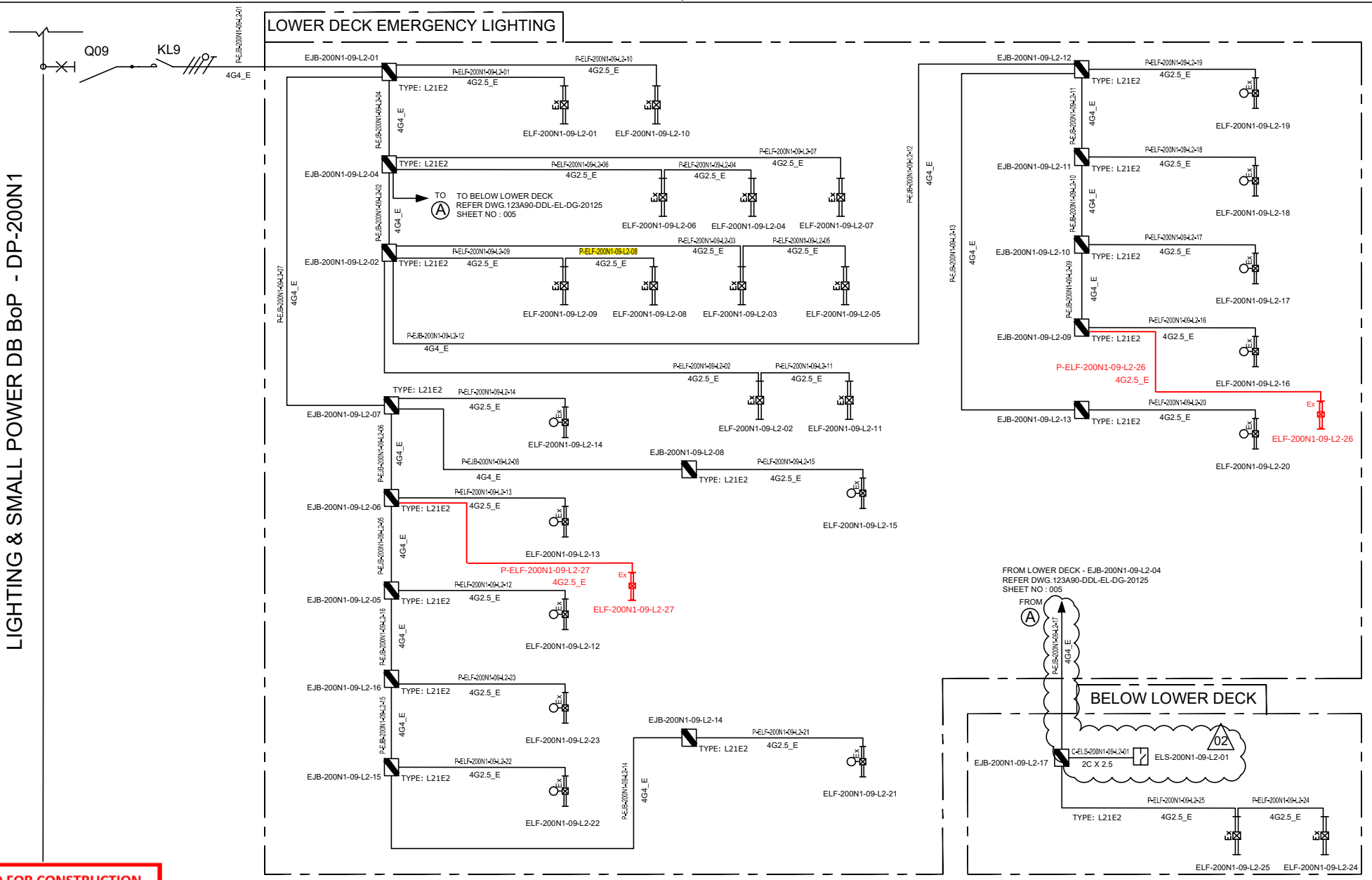
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

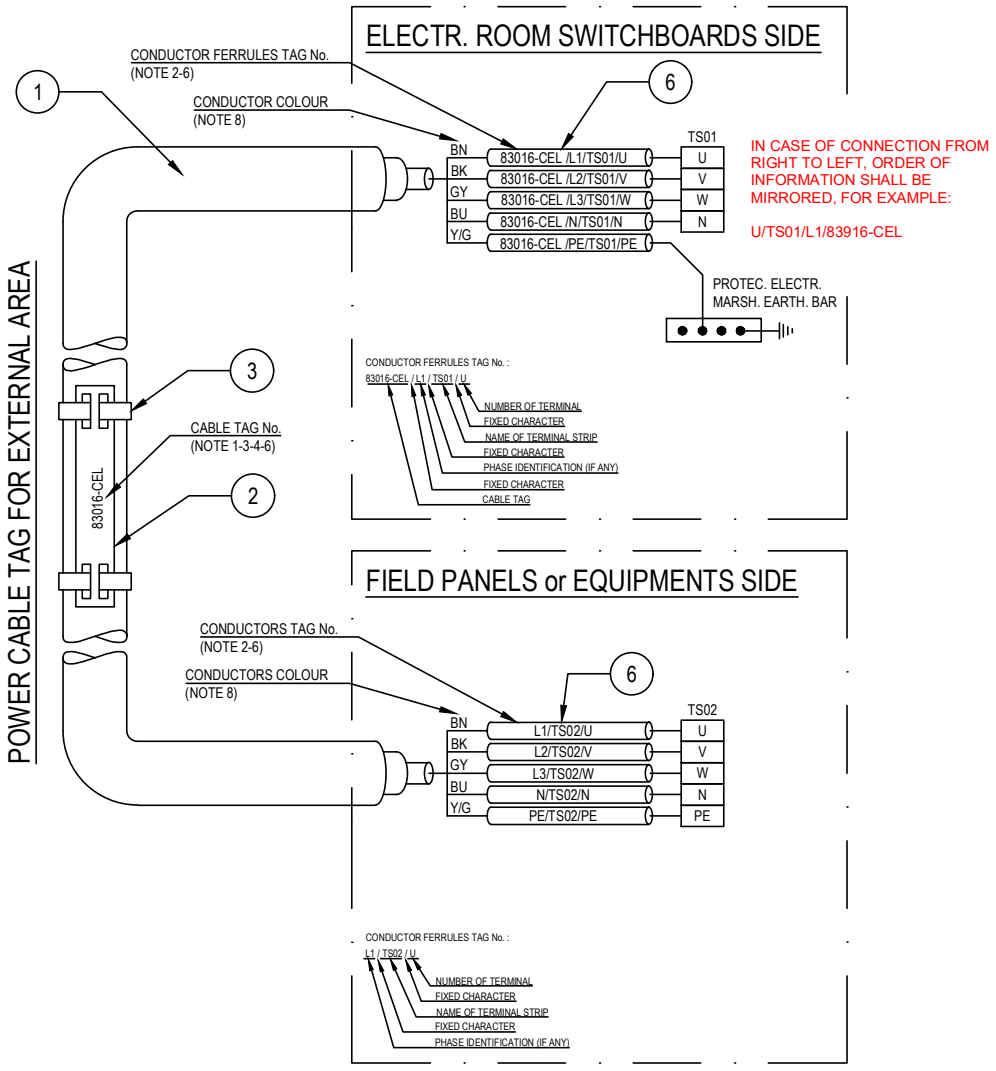
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

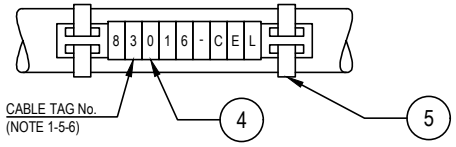
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

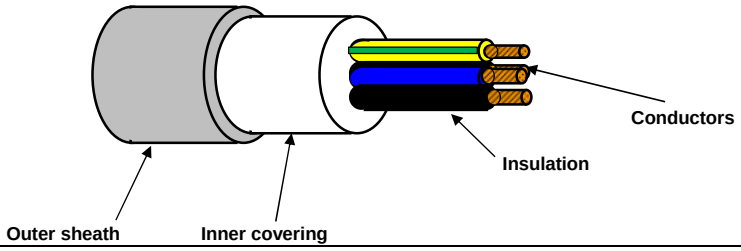
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-08	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-09-L2-09	Emergency Lighting Fixture	Lower Deck		ELF-200N1-09-L2-08	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-750-101-LVT-014 / L-600-101-LVT-094

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-09-L2-09	: Normal Lighting JB / Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000787	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-02 To ELF-200N1-09-L2-09

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-09	: Normal Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000787		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

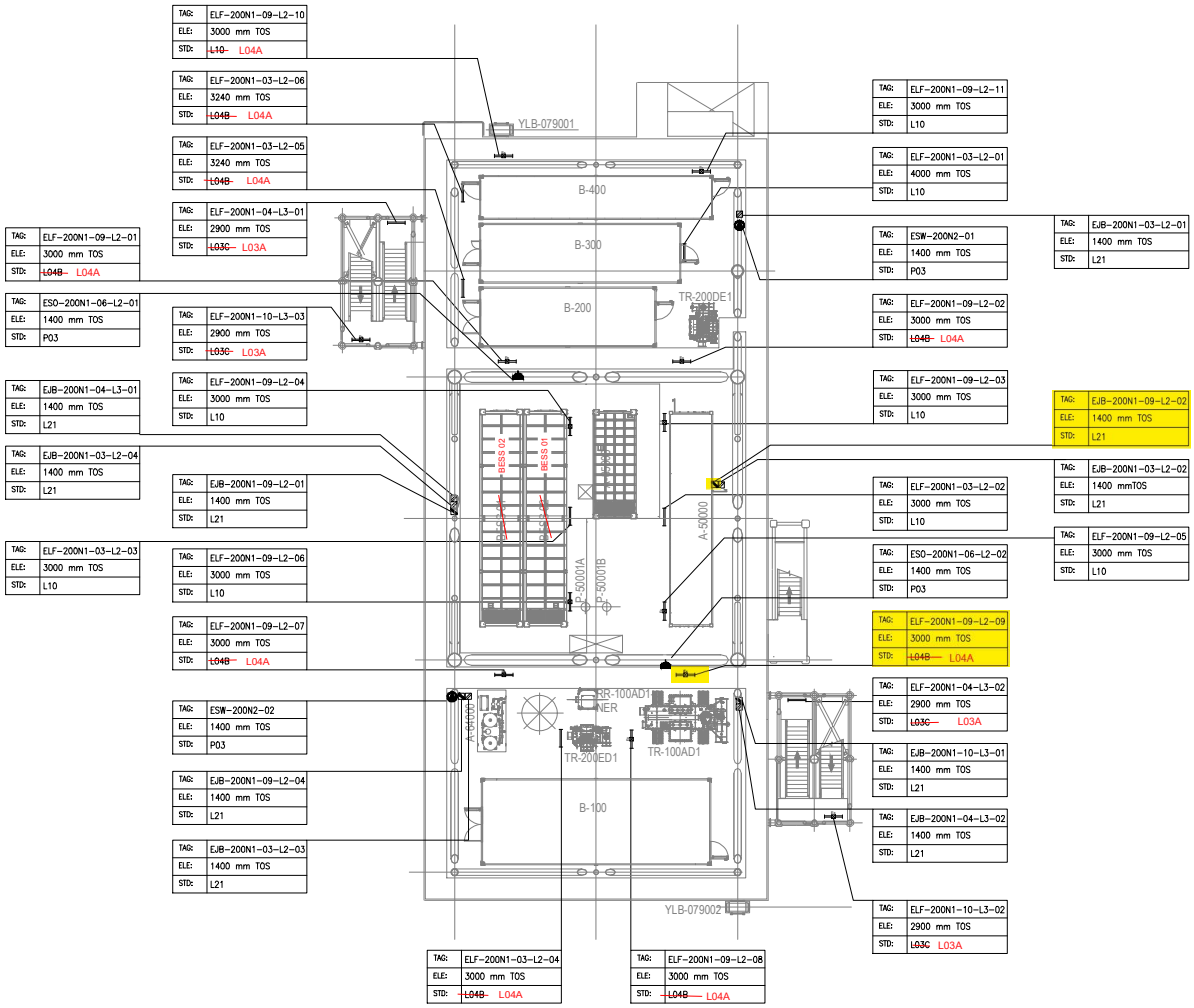
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

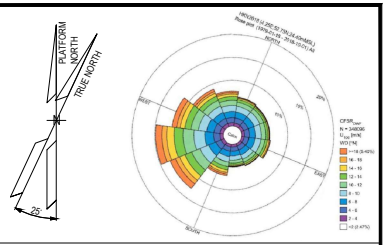
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-12	2024-12-19	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-12T16:28:28.442Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-19T17:53:31.633Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

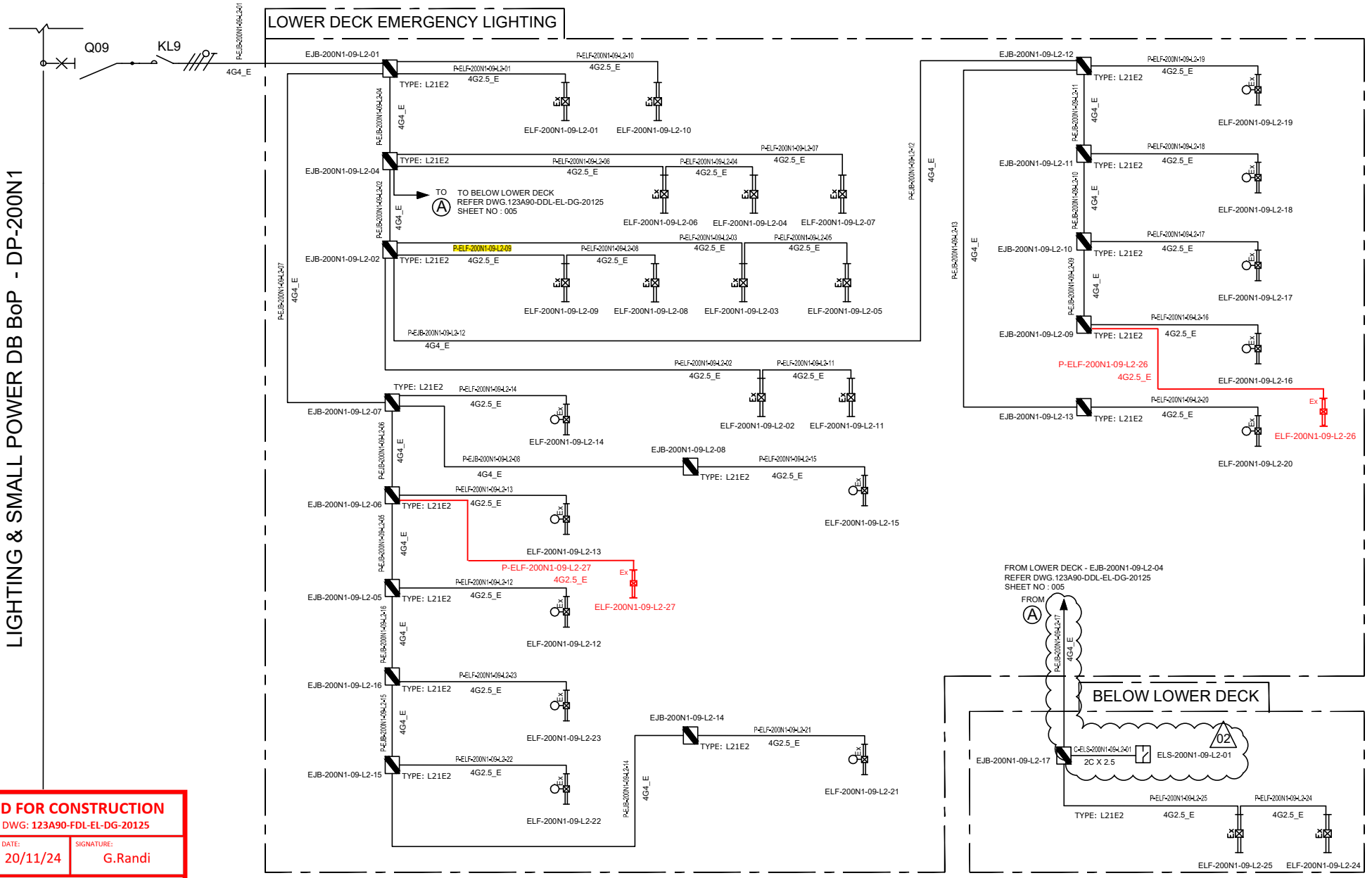
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

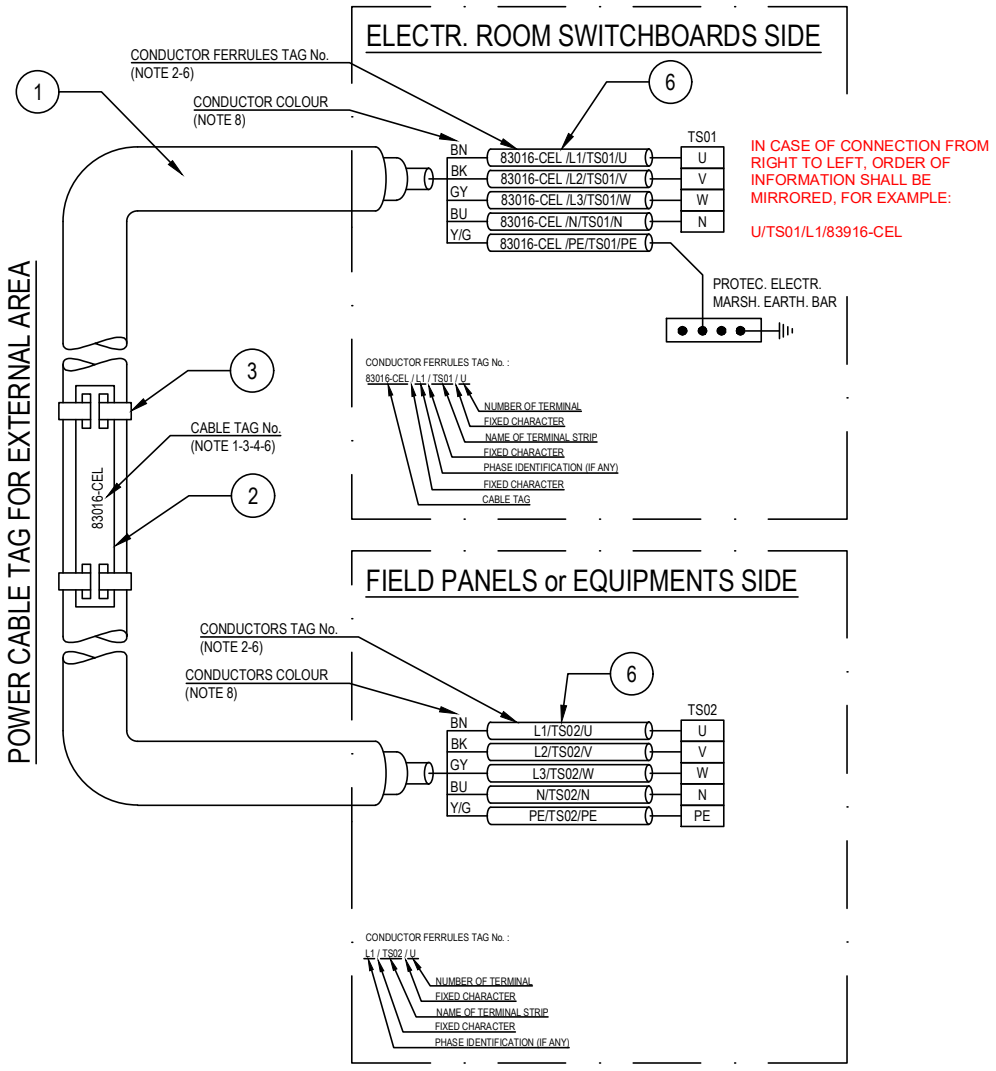
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

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3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

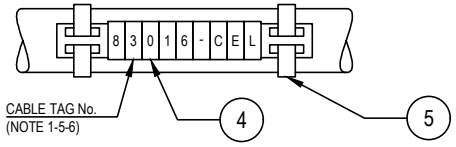
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092
REV.: 2_C | DATE: 06/12/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

CROSSWIND
ROSETTI MARINO

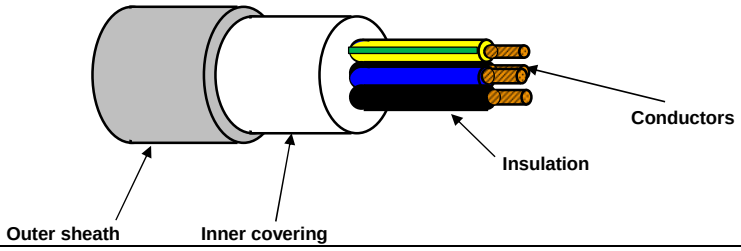
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-09	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-02	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-09	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu CI.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-087 / L-750-101-LVT-014

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-09-L2-05	: Emergency Lighting JB / Normal Lighting JB		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000788	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-06 To EJB-200N1-09-L2-05

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-05	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000788		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,7	
6		PH 2	0,7	
7		PH 3	0,7	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,7	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

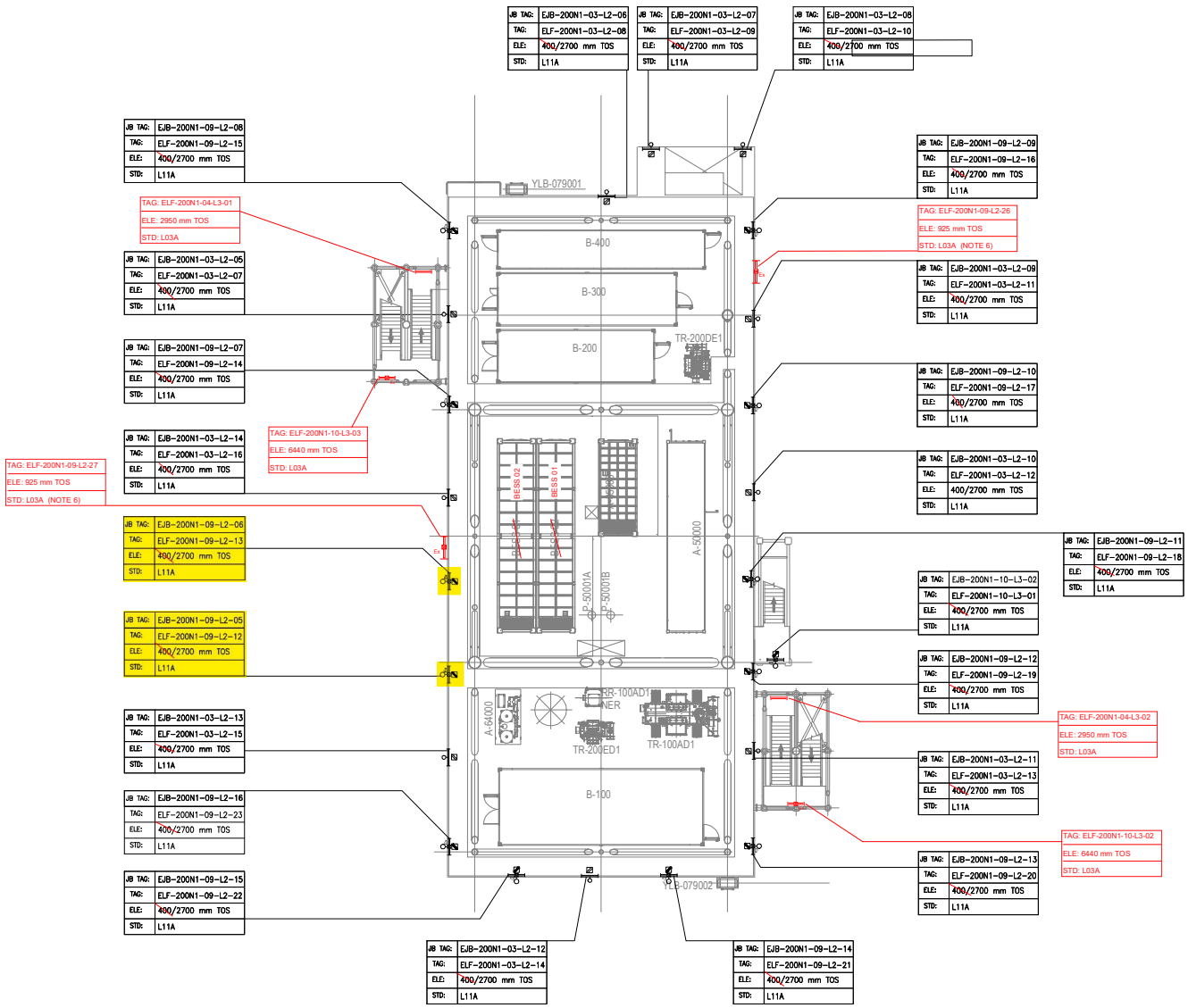
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

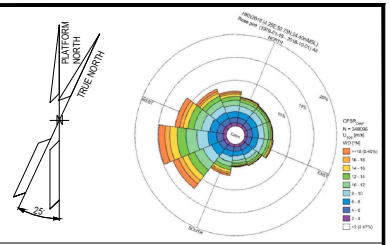
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-08	2025-01-13	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:17:43.423Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-13T08:54:31.788Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

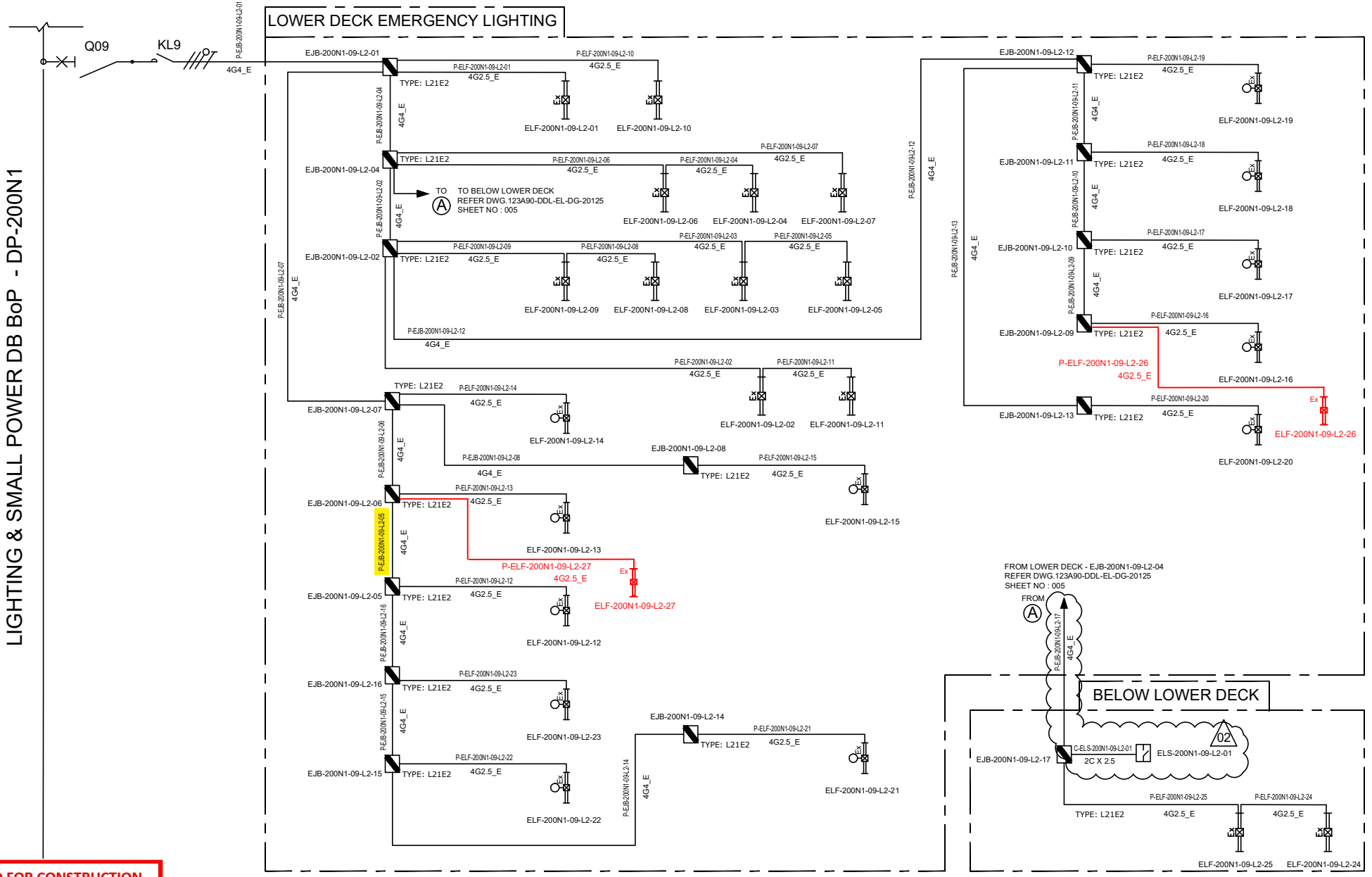
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

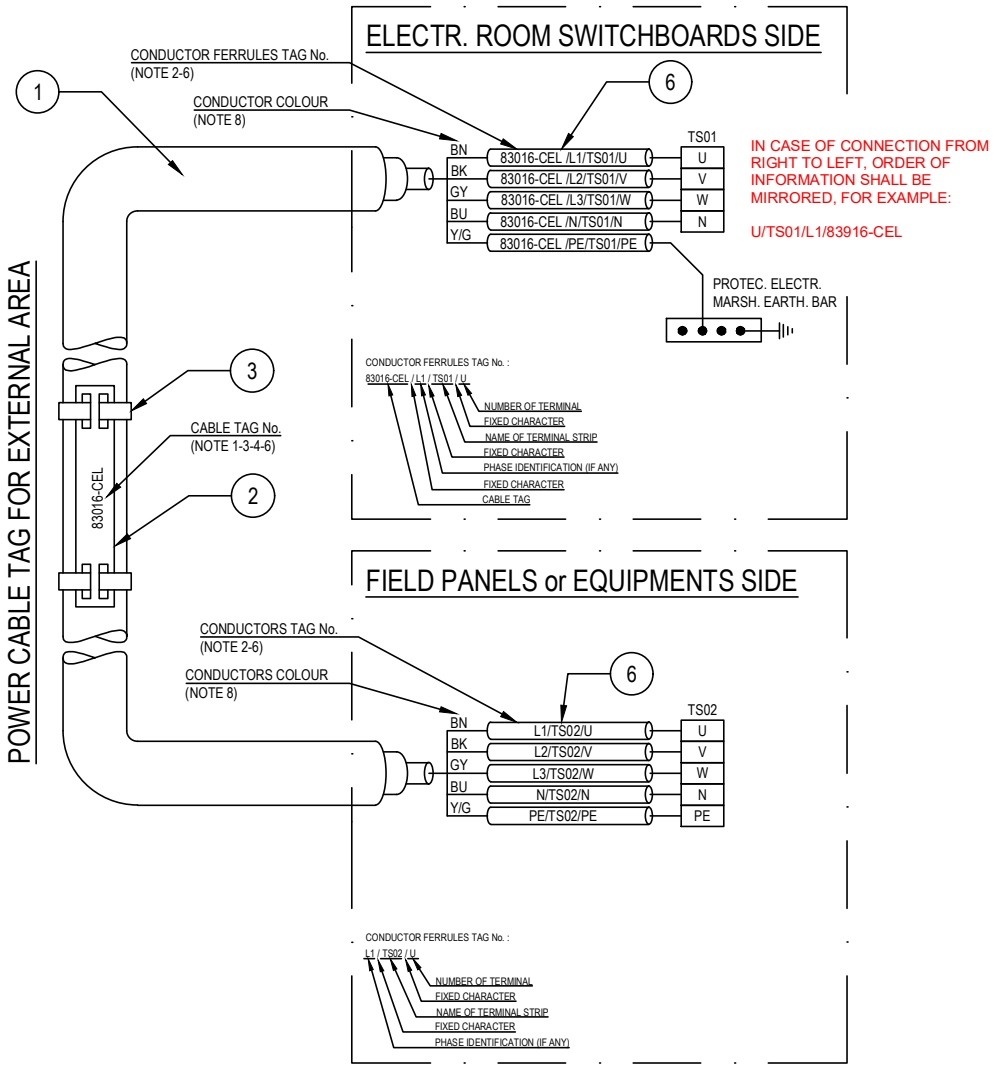
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

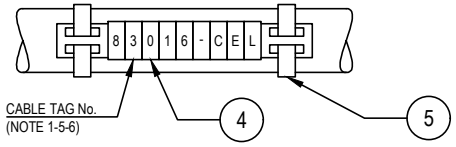
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

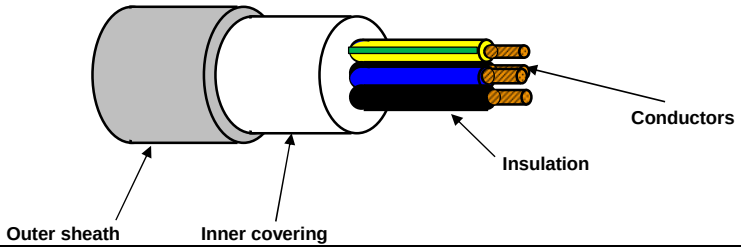
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-05	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-06	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-05	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/E/PR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-124 / L-150-101-LVT-108 / L-50-101-LVT-123

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-12	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000789		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-05 To ELF-200N1-09-L2-12

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-12	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000789		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

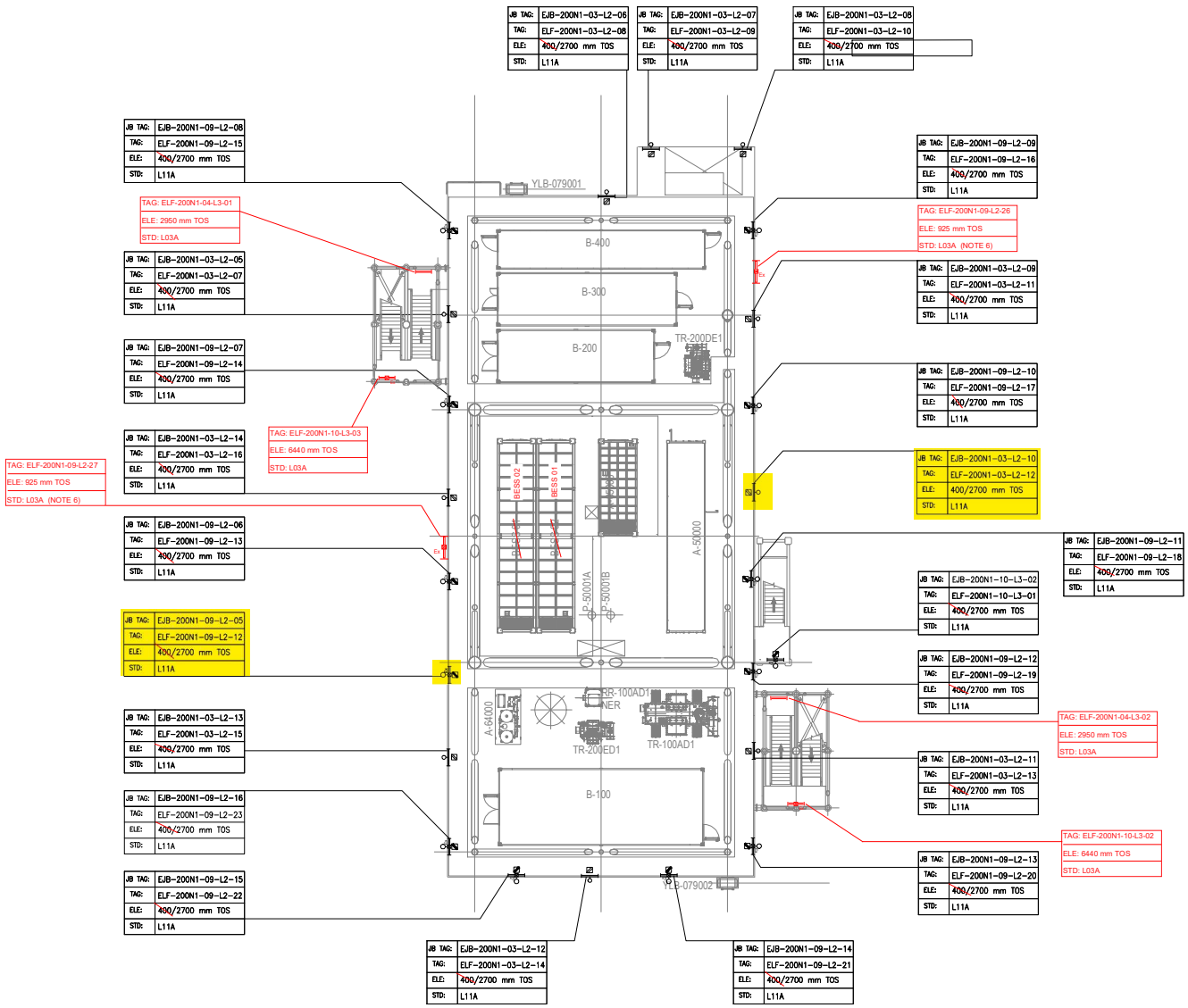
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

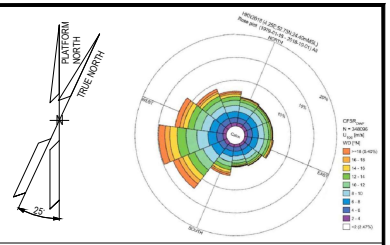
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:05:15.040Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-13T13:46:03.028Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

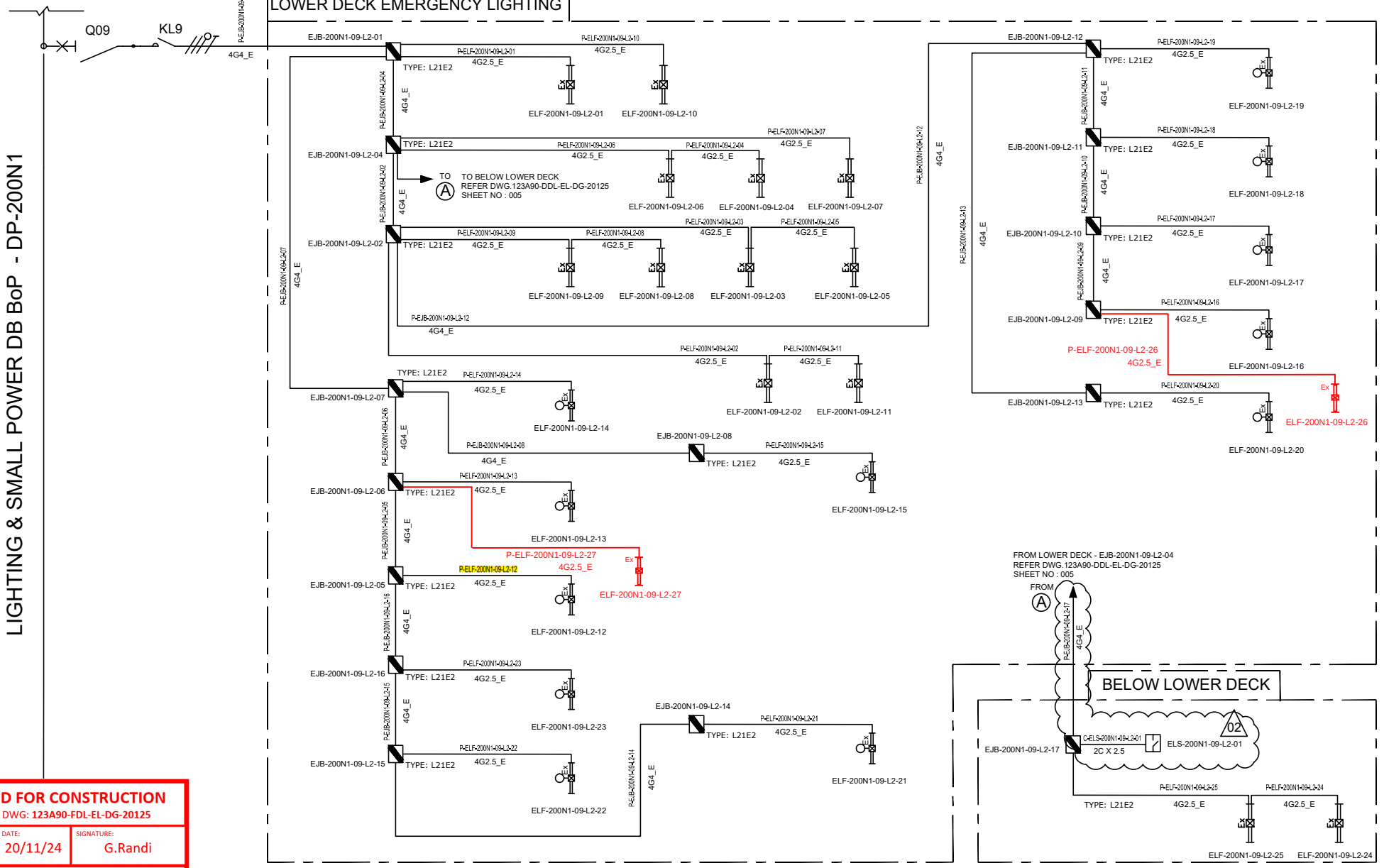
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

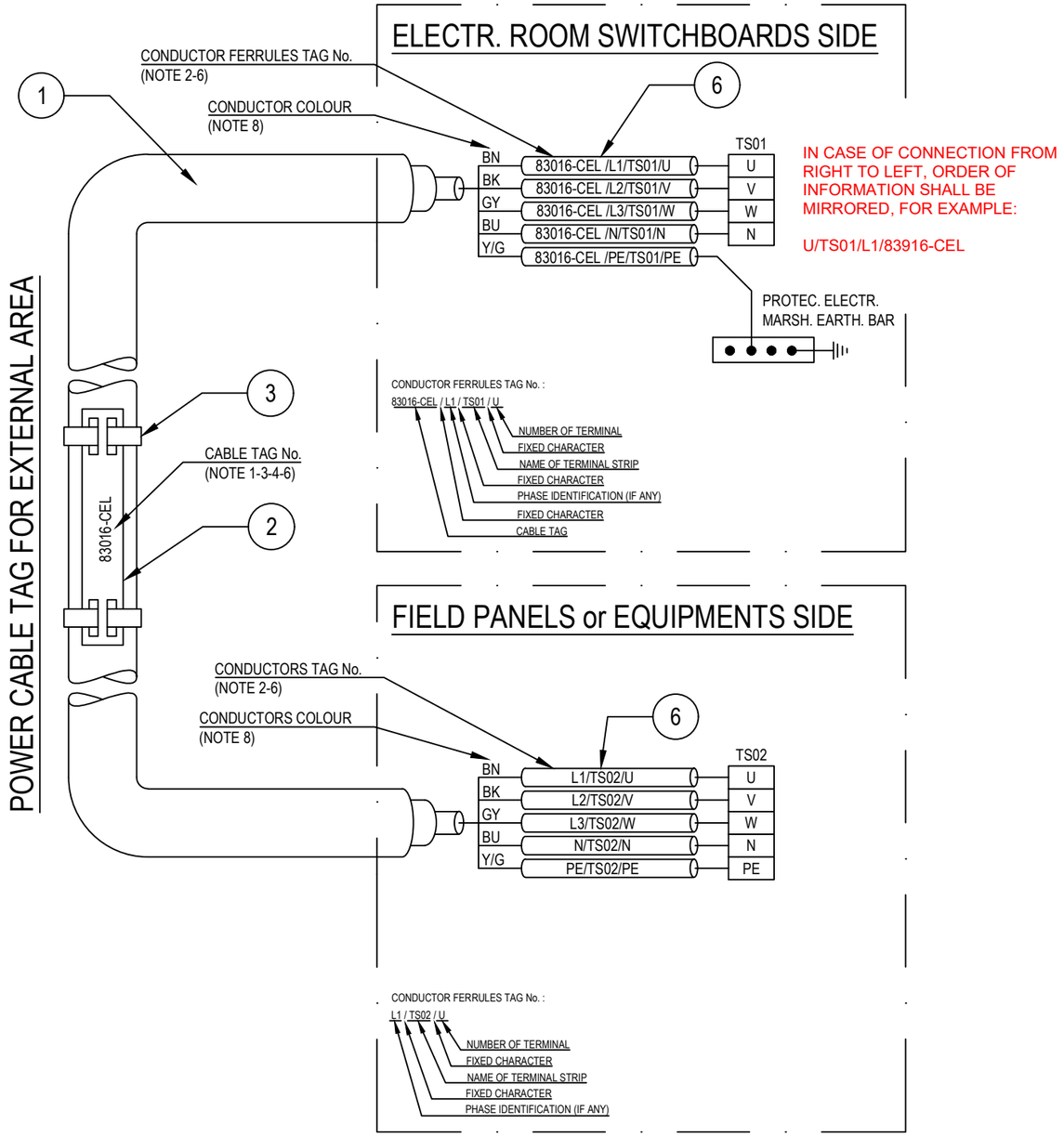
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

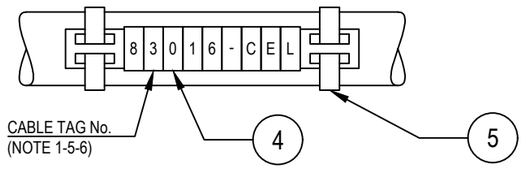
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

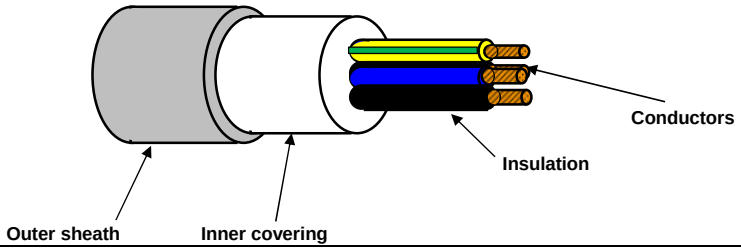
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-12	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-05	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-12	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-123

ITEM	Tag	P-EJB-200N1-09-L2-06	: Emergency Lighting JB / Normal Lighting JB		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000790	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-07 To EJB-200N1-09-L2-06

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	OK
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-06	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000790		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,9	
6		PH 2	0,9	
7		PH 3	0,9	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,9	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

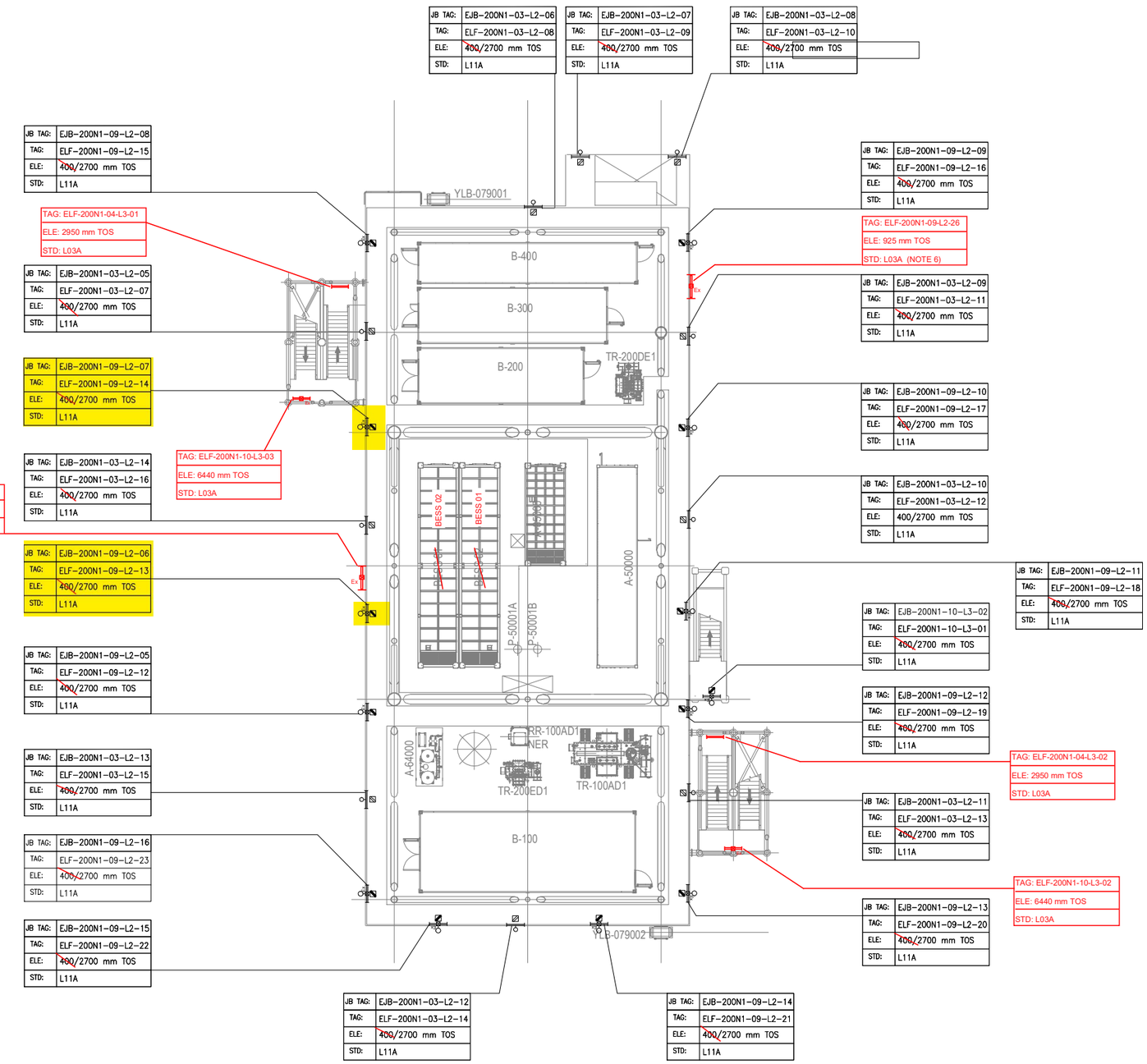
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

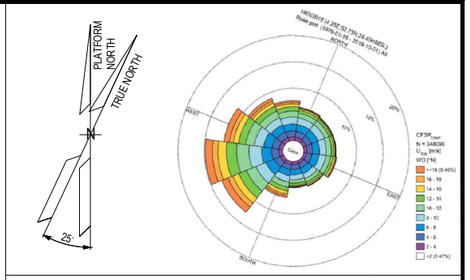
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-11-27	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-11-27T14:21:32.793Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-13T13:51:41.682Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

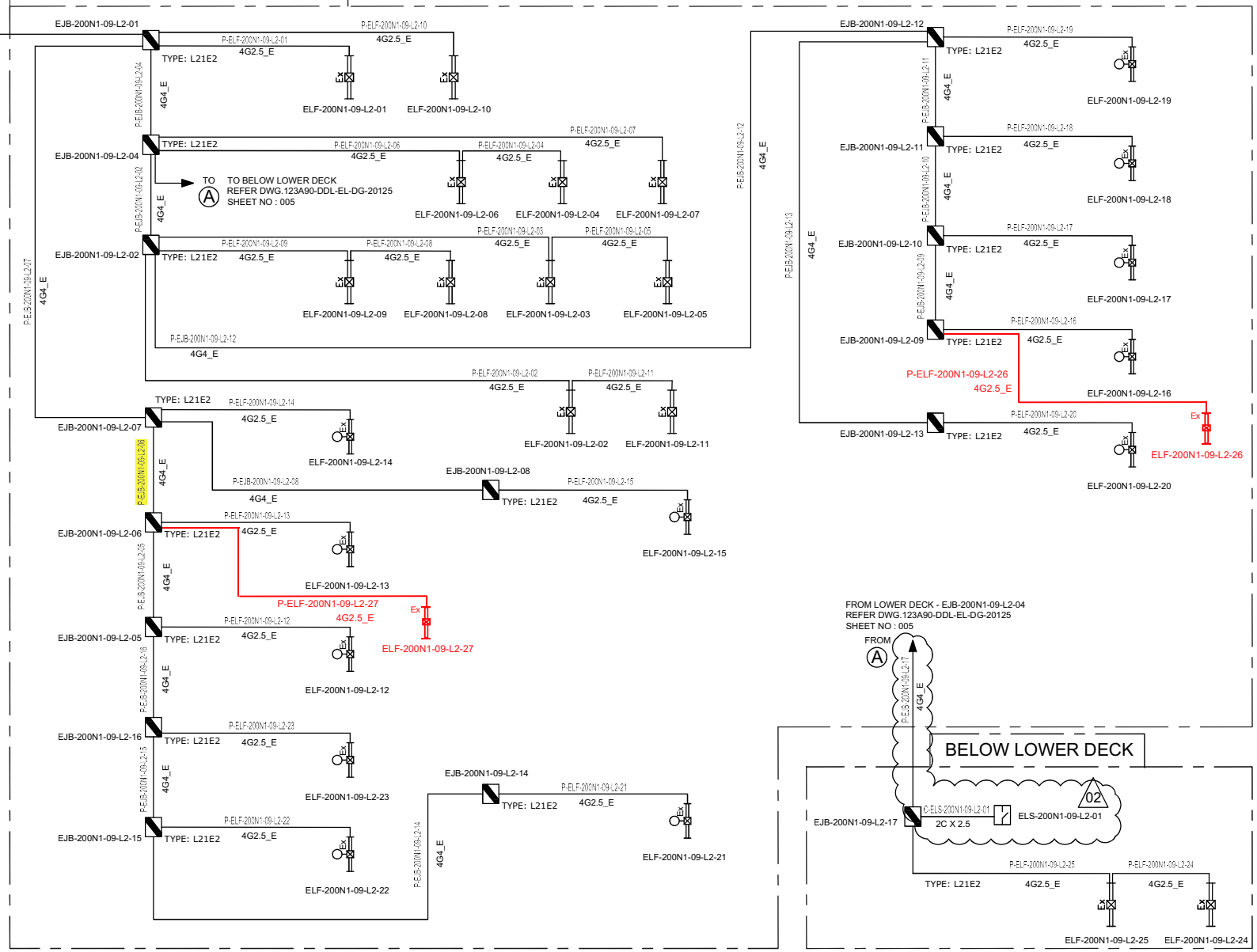
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

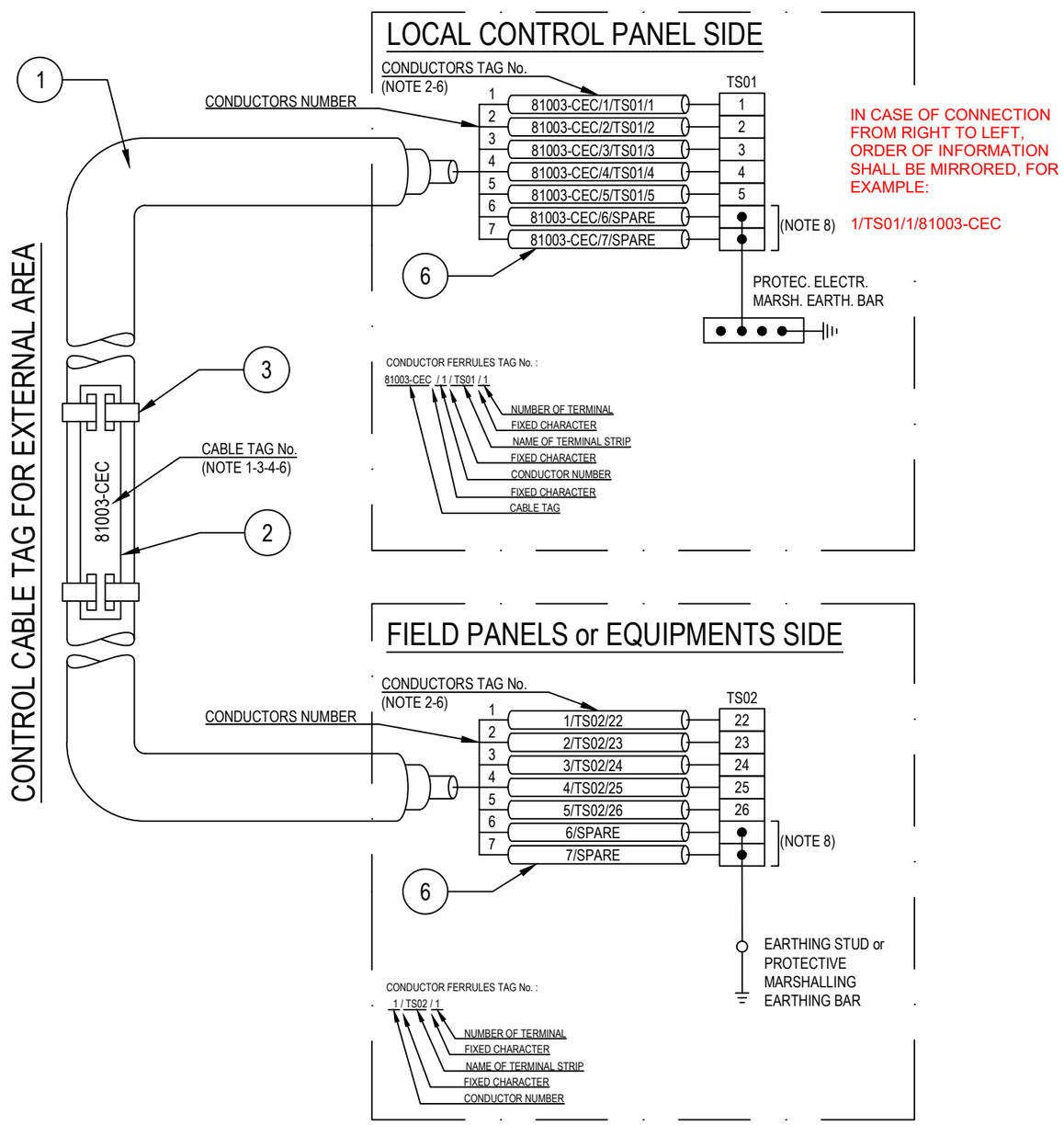
CROSSWIND

ROSETTI MARINO

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

C04



IN CASE OF CONNECTION FROM RIGHT TO LEFT, ORDER OF INFORMATION SHALL BE MIRRORED, FOR EXAMPLE:

1/TS01/1/81003-CEC

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 50 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

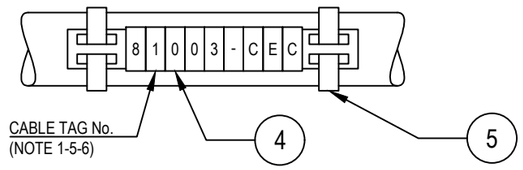
5) THE CABLE TAG FOR INTERNAL AREA SHAL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) THE EARTHING CONNECTION OF THE ARMOUR CABLE IS NOT APPLICABILE IF THE ARMOUR IS CONNECTED TO EARTH WITH METALLIC CABLE GLAND.
WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH RING
- EARTHING BOSS AND EARTH RING
- EARTH BAR AND EARTH BAR (IF ANY).

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

CONTROL CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR CONTROL CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 008 | REV. 02

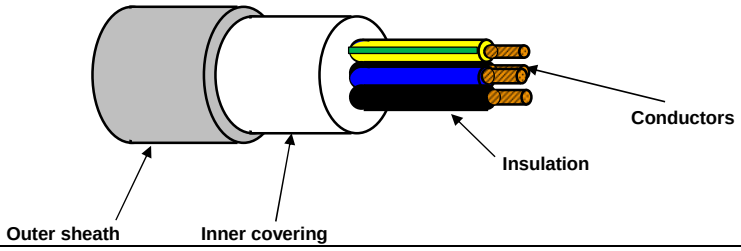
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-06	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-07	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-06	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G4mm² _E - Grey	M25	T1_M25_Single			T1_M25_Sin gle				L-50-101-LVT-126 / L-150-101-LVT-108 / L-50-101-LVT-124

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-13	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000791		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-06 To ELF-200N1-09-L2-13

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-13	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000791		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

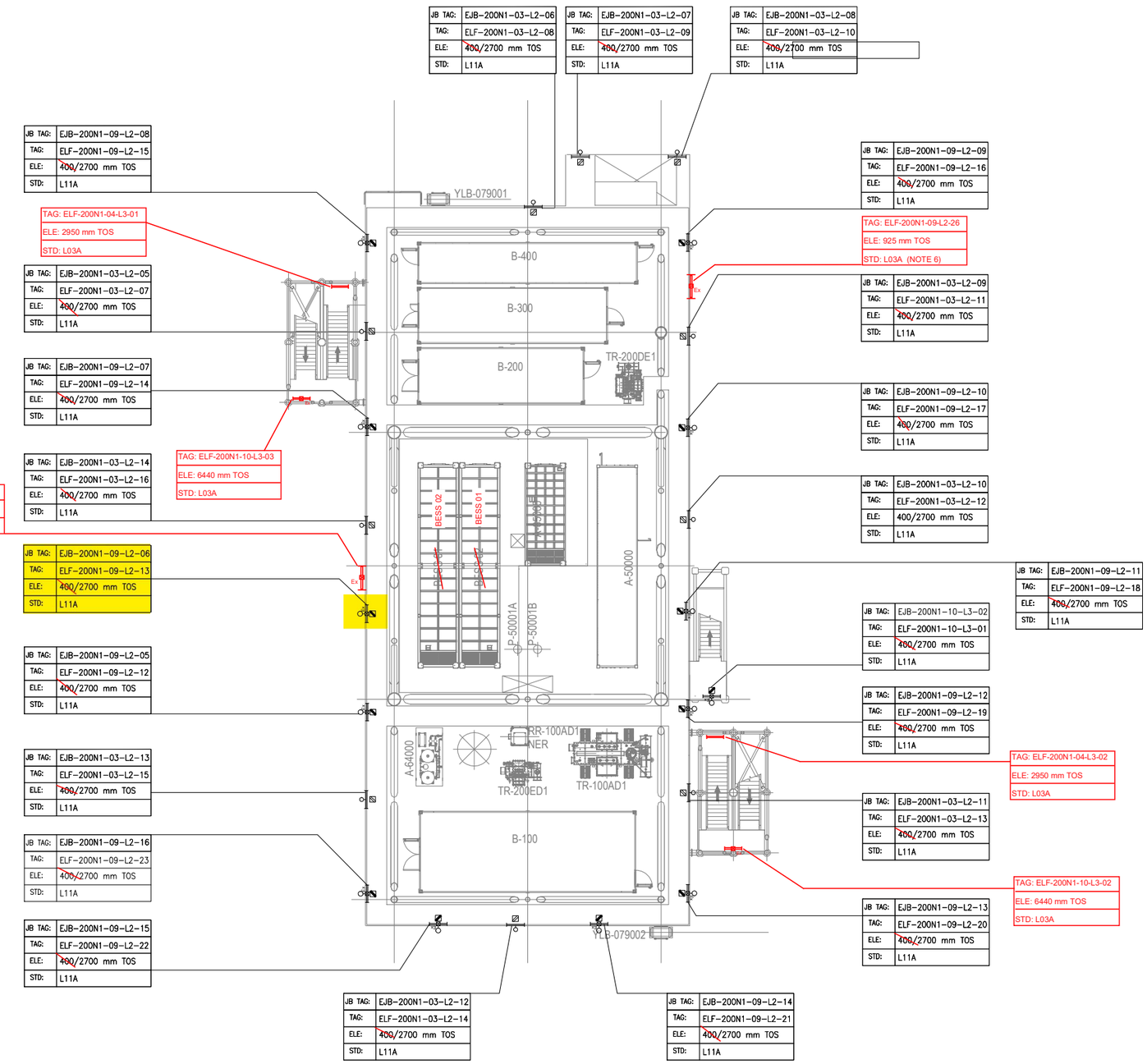
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

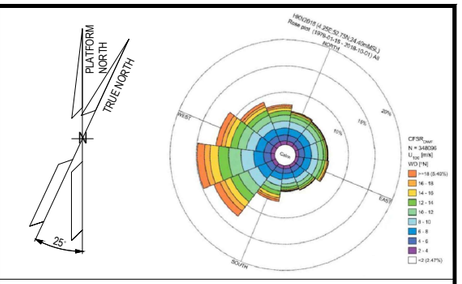
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-02	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-02T16:21:48.551Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-13T13:58:00.254Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

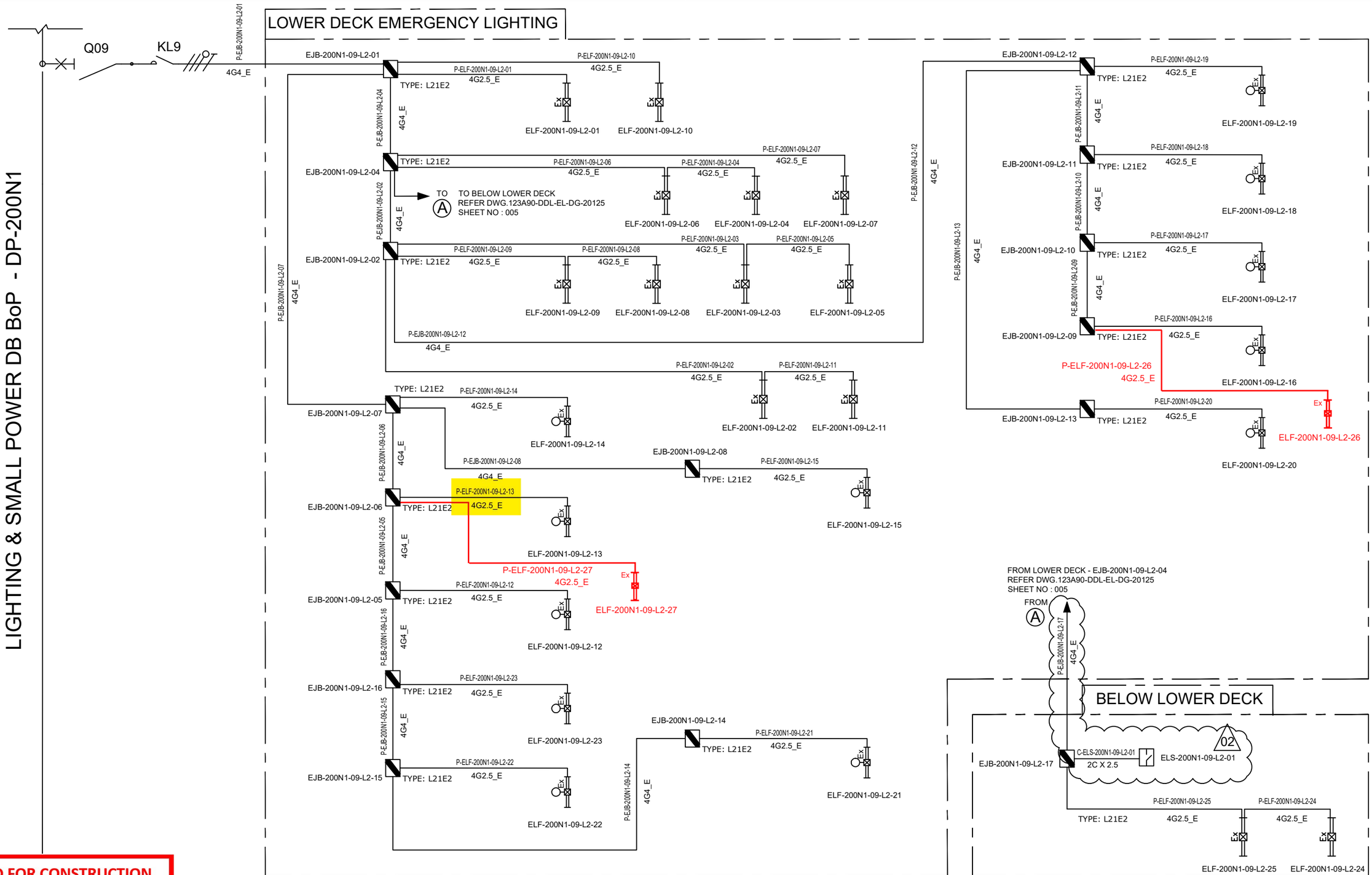
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_E	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

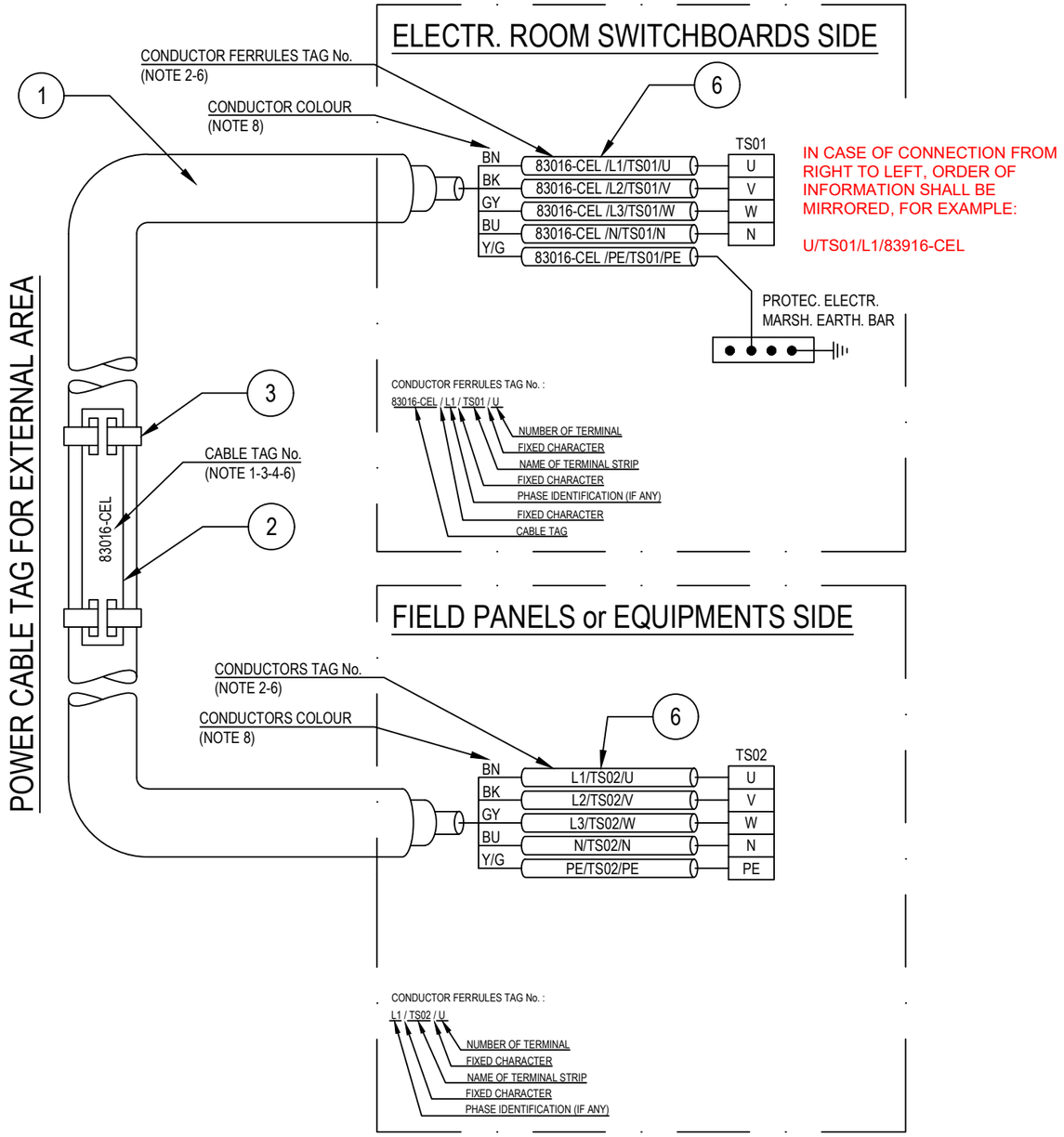
SHEET 005

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

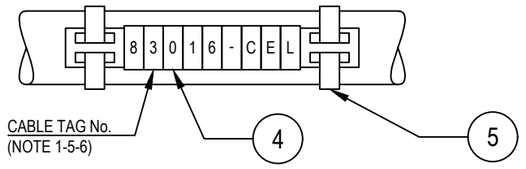
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

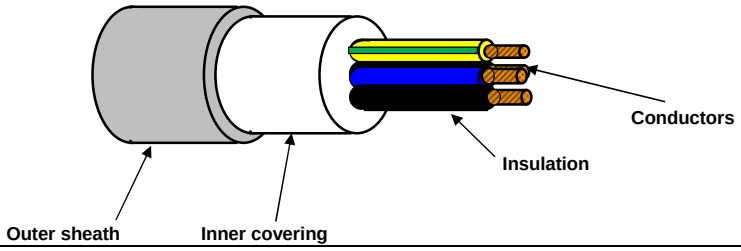
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-13	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-06	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-13	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G2,5mm², E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-124

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-09-L2-07	: Emergency Lighting JB / Normal Lighting JB		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000792	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-01 To EJB-200N1-09-L2-07

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-07	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000792		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	0,5	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

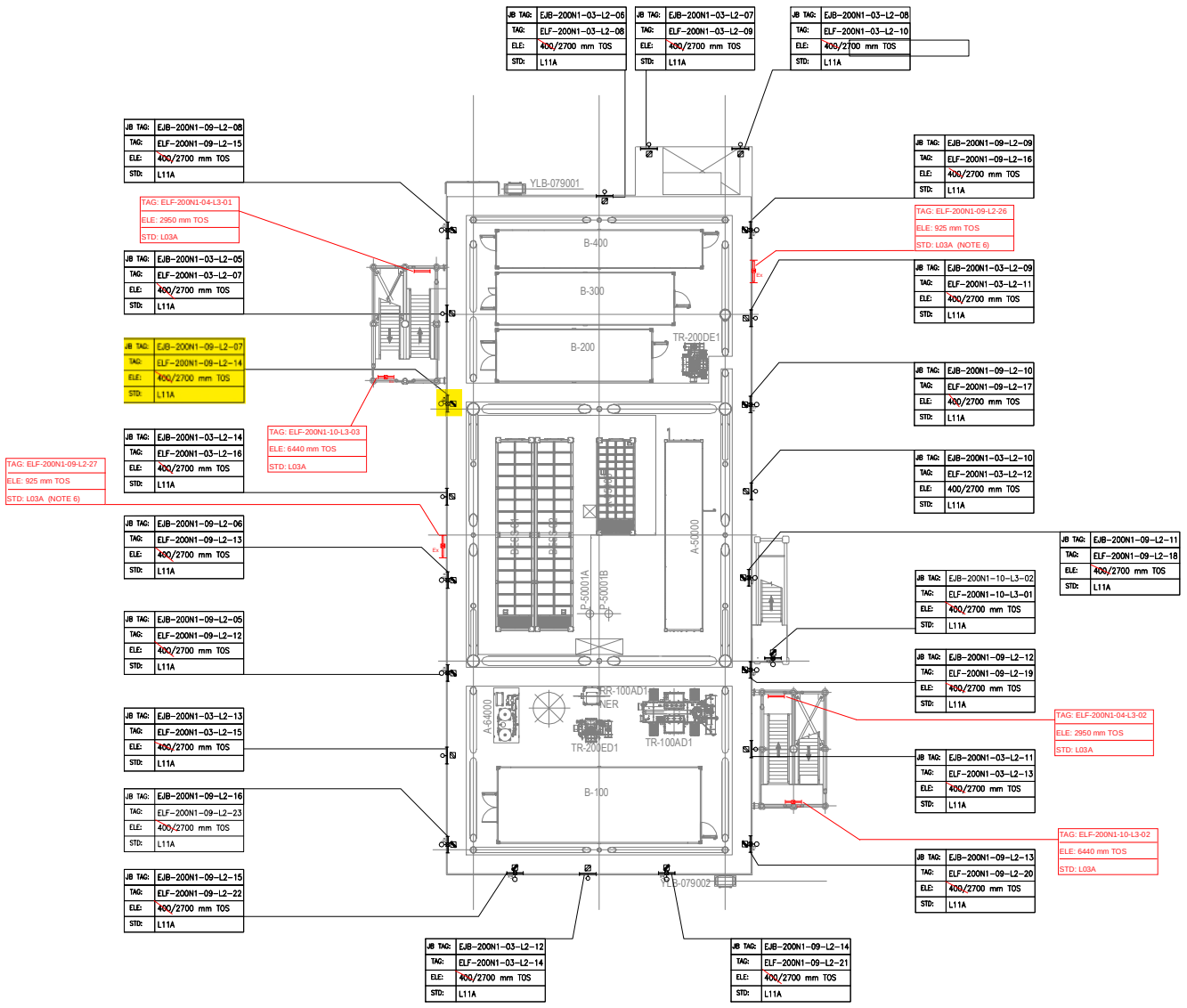
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

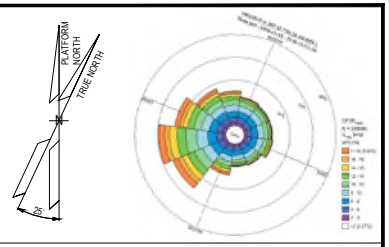
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-20	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:05:27.364Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-20T10:32:23.889Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

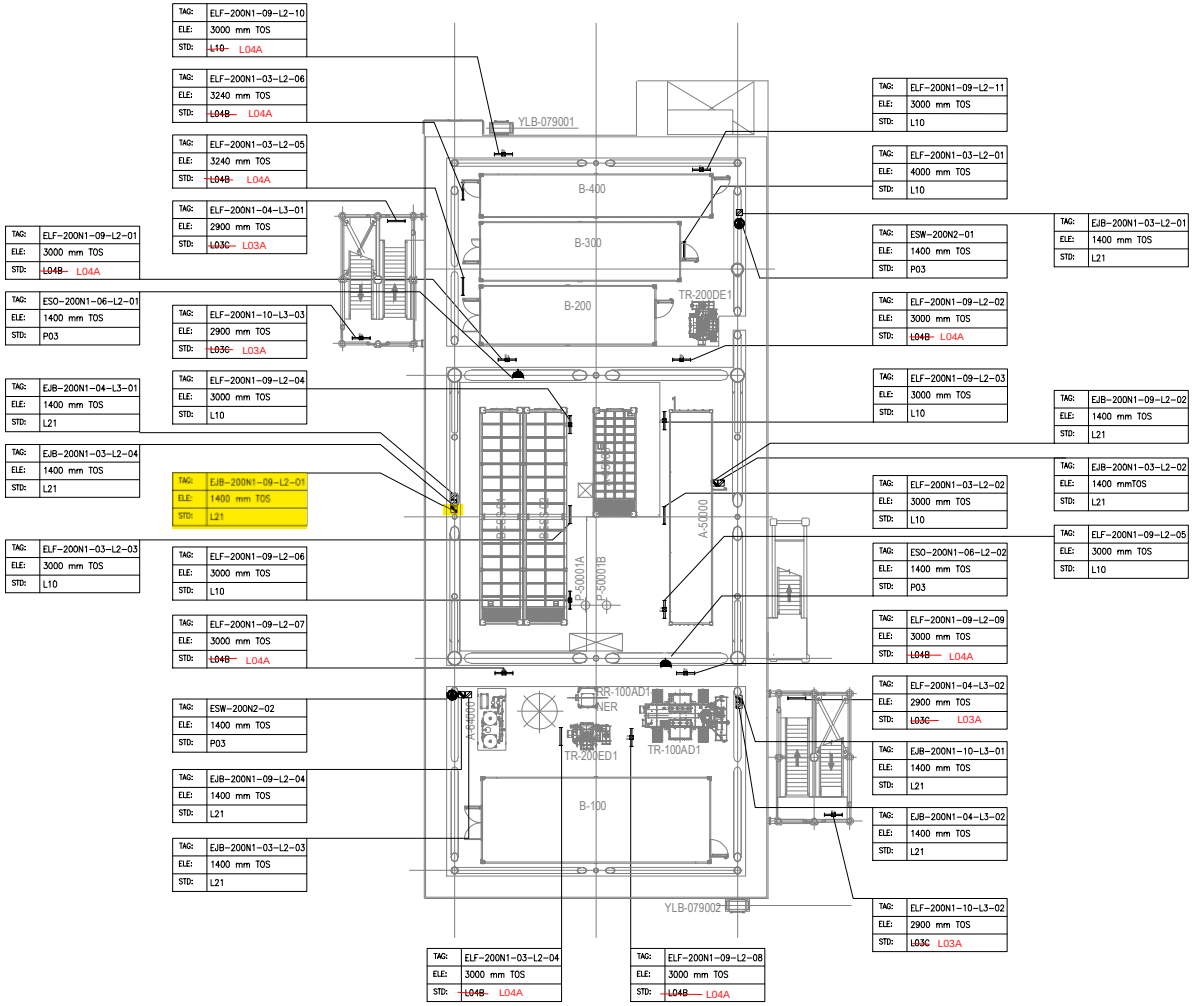
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

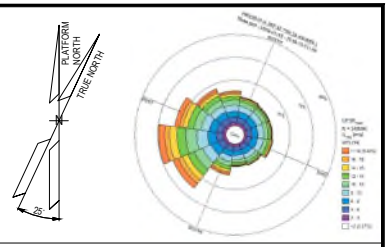
File Name : 123A90-DDL-EL-DL-20119

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

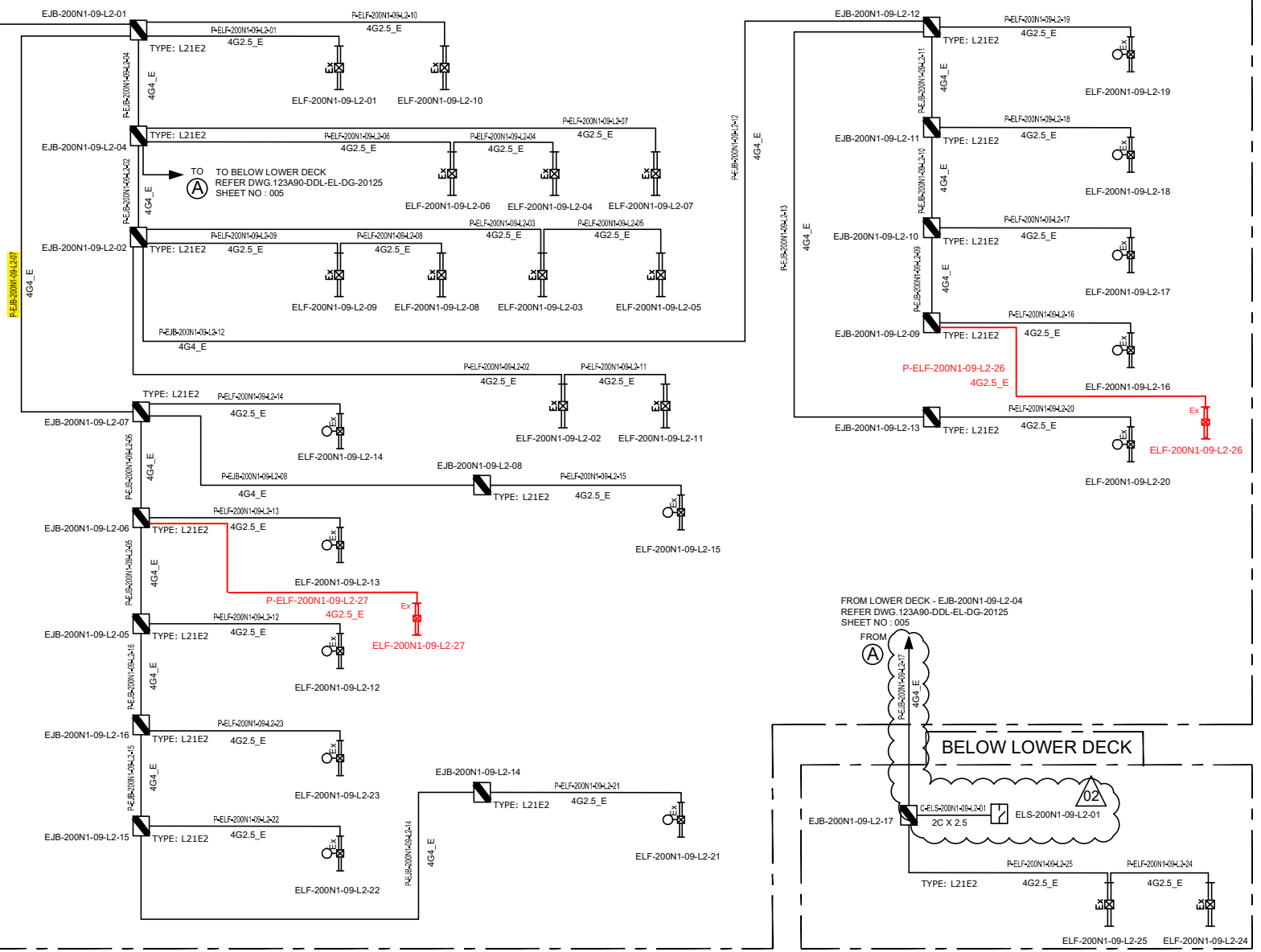
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

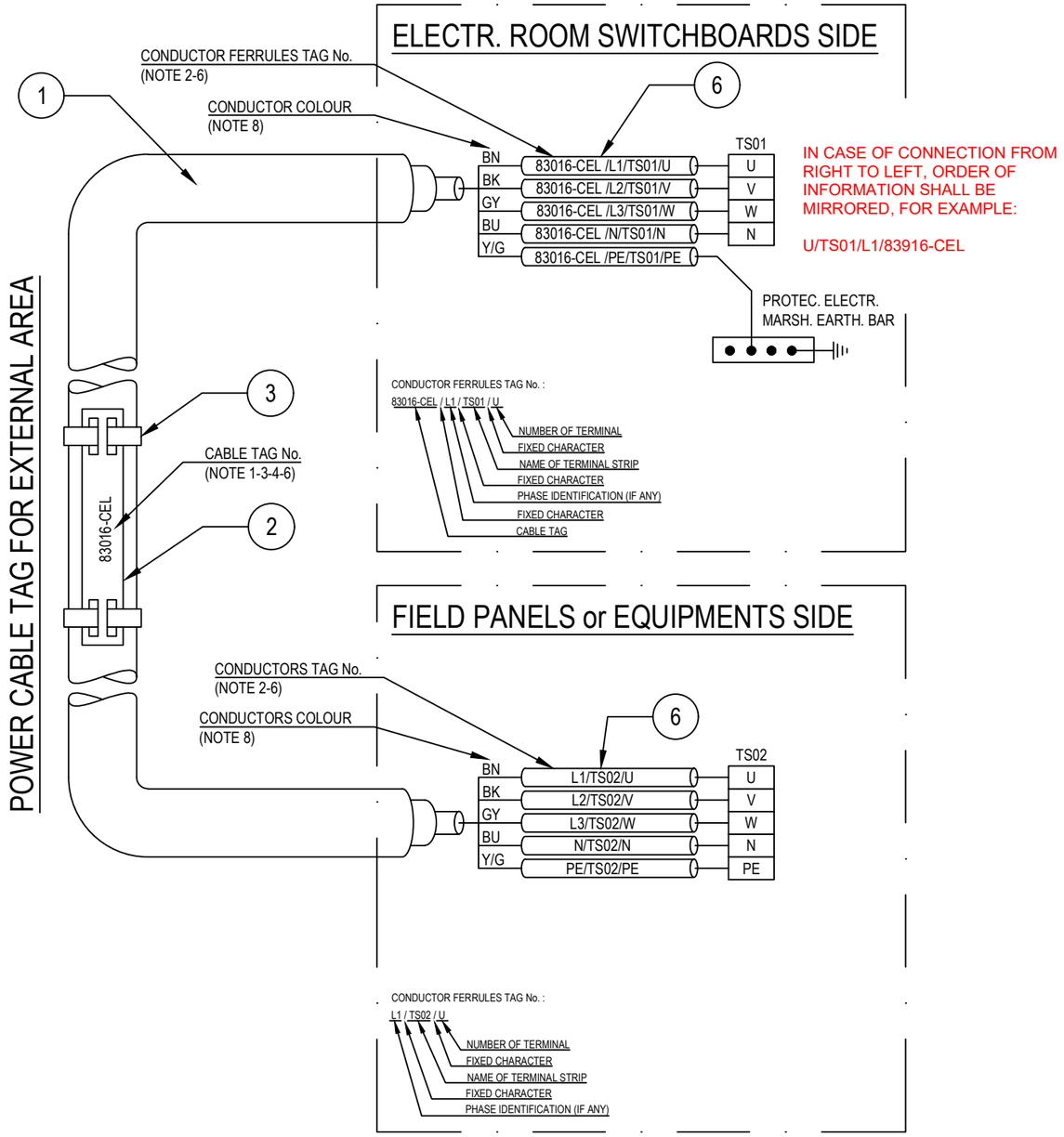
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

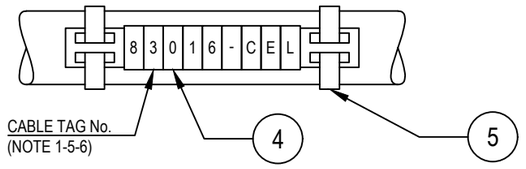
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

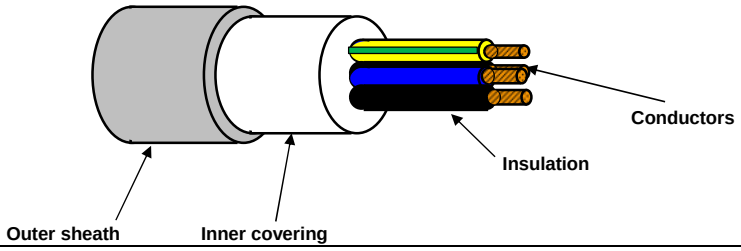
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-07	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-01	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-07	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/E/PR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-099 / L-600-101-LVT-012 / L-300-101-LVT-084

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-14	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000793		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-07 To ELF-200N1-09-L2-14

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-14	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000793		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

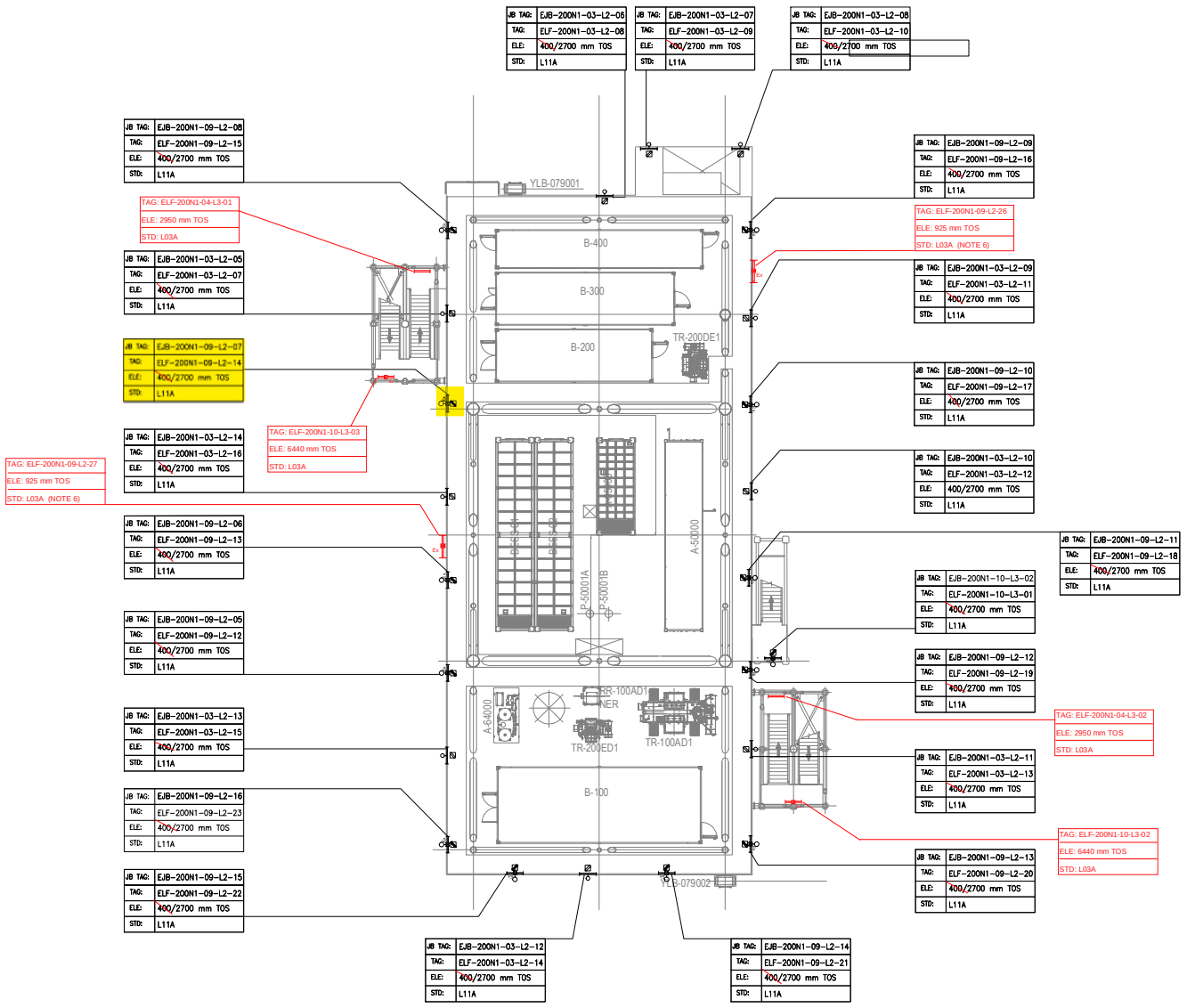
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

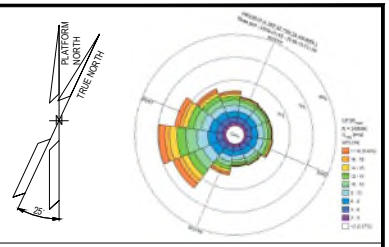
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-09	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-09T10:28:57.213Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-11T16:07:41.415Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

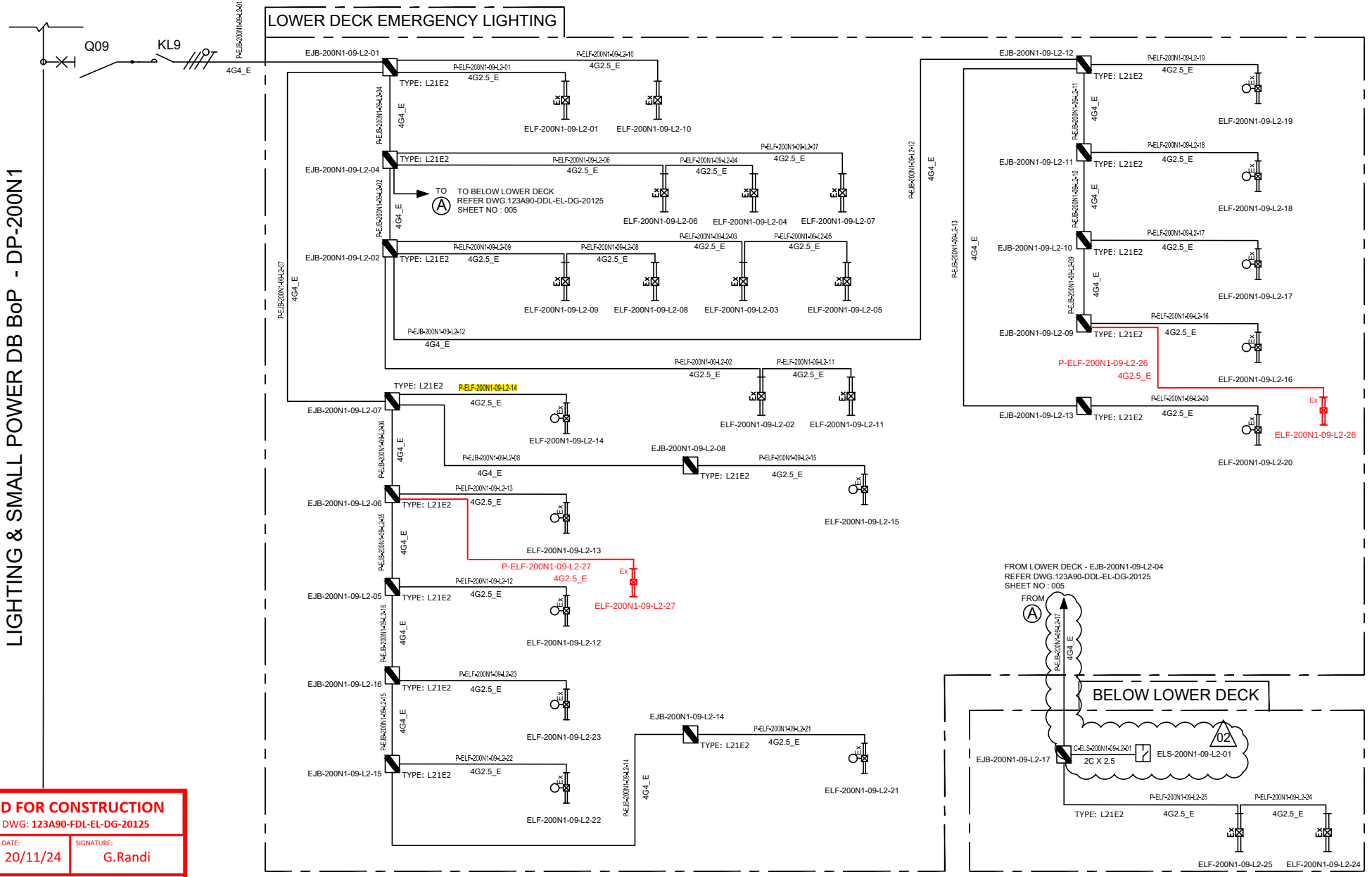
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

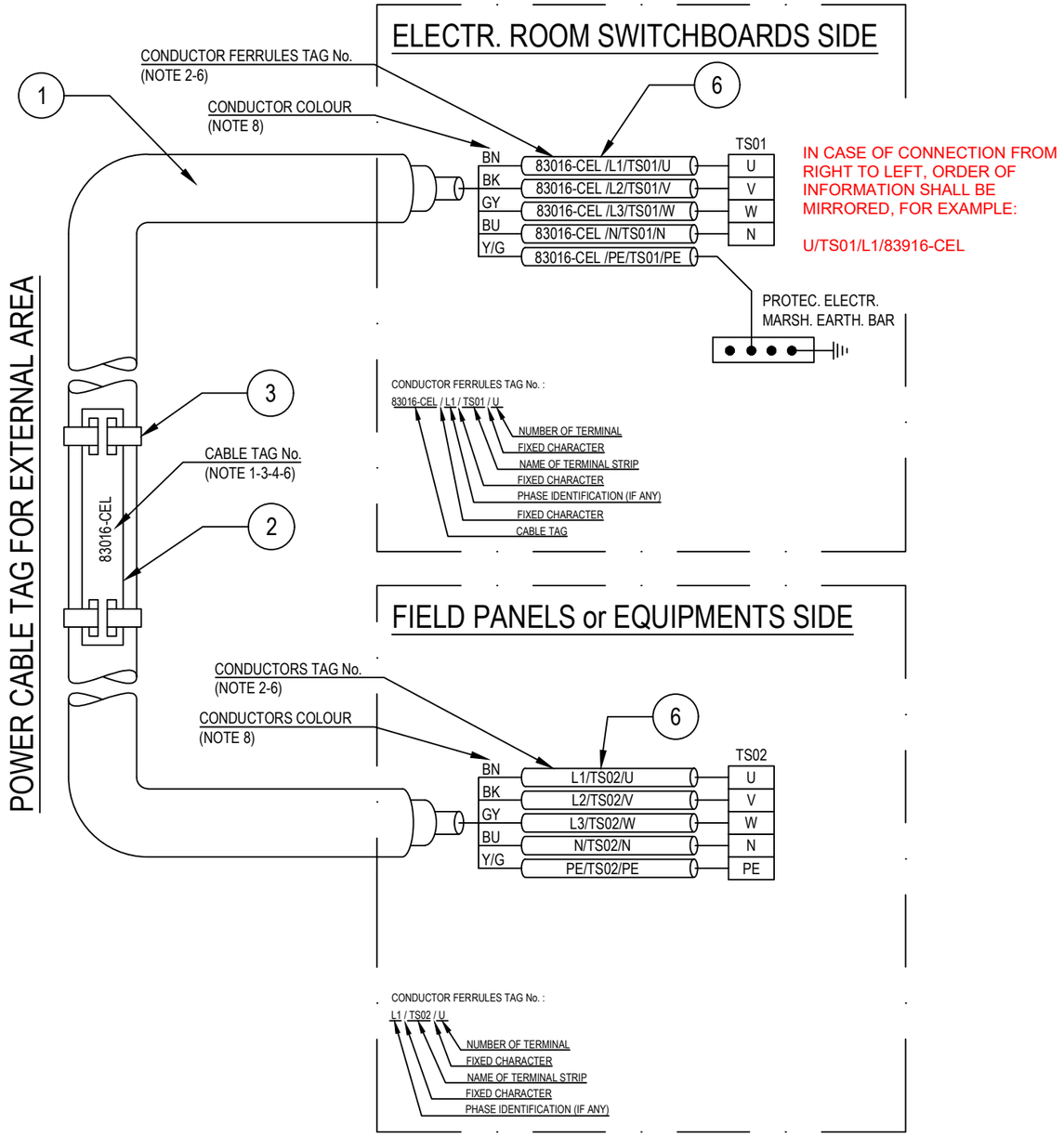
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
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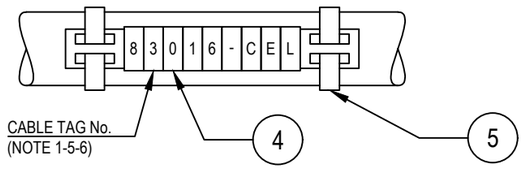
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

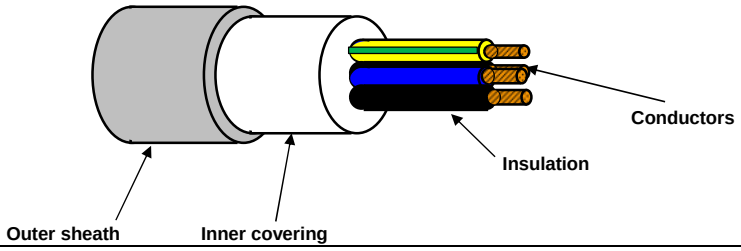
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-14	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-07	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-14	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-126

ITEM	Tag	P-EJB-200N1-09-L2-08	: Emergency Lighting JB / Normal Lighting JB		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000794	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-07 To EJB-200N1-09-L2-08

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	OK
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-08	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000794		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,2	
7		PH 3	0.4	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.4	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

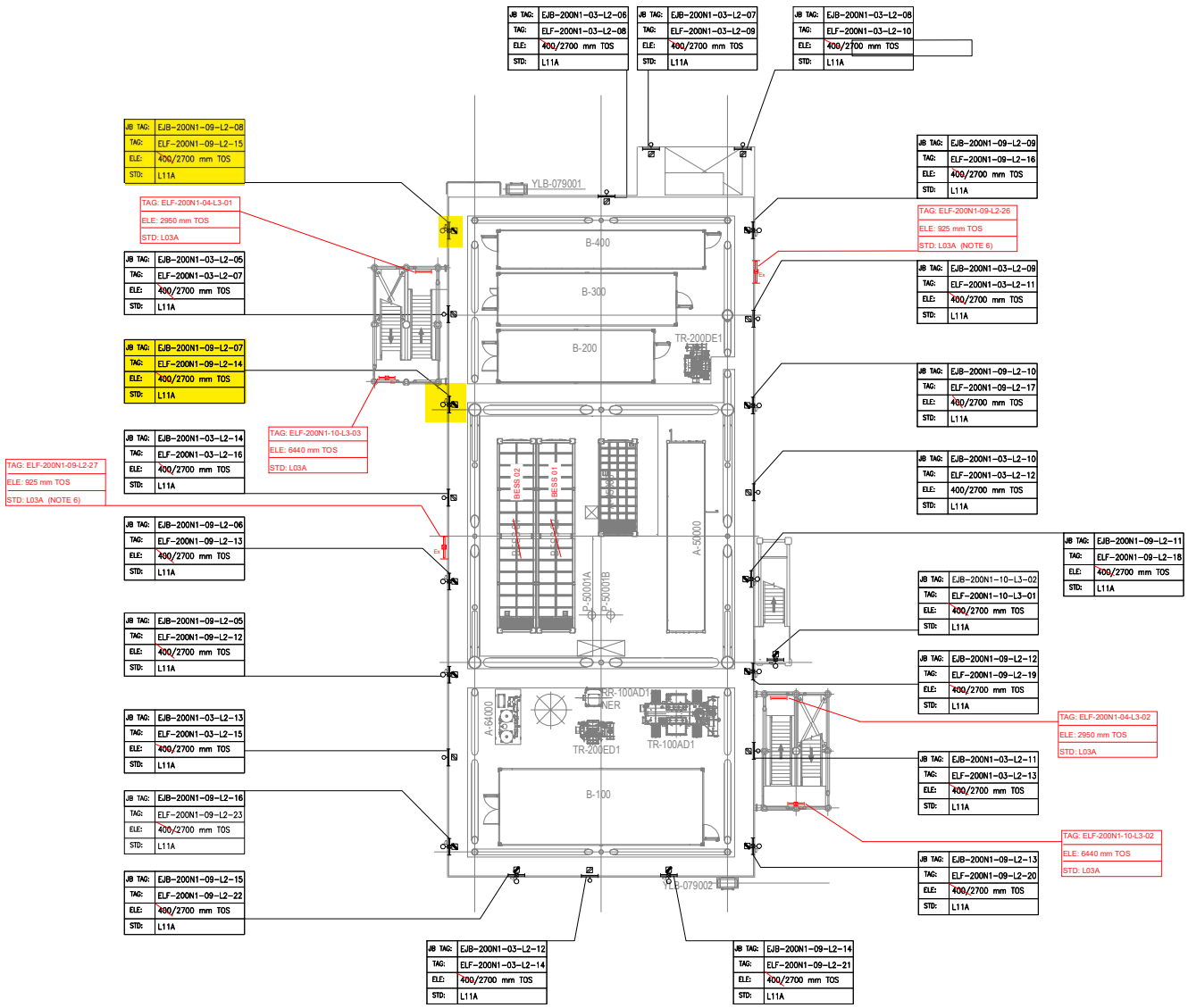
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

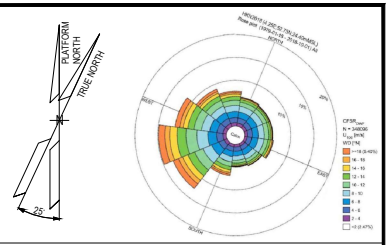
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-11	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:05:37.815Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:09:03.682Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

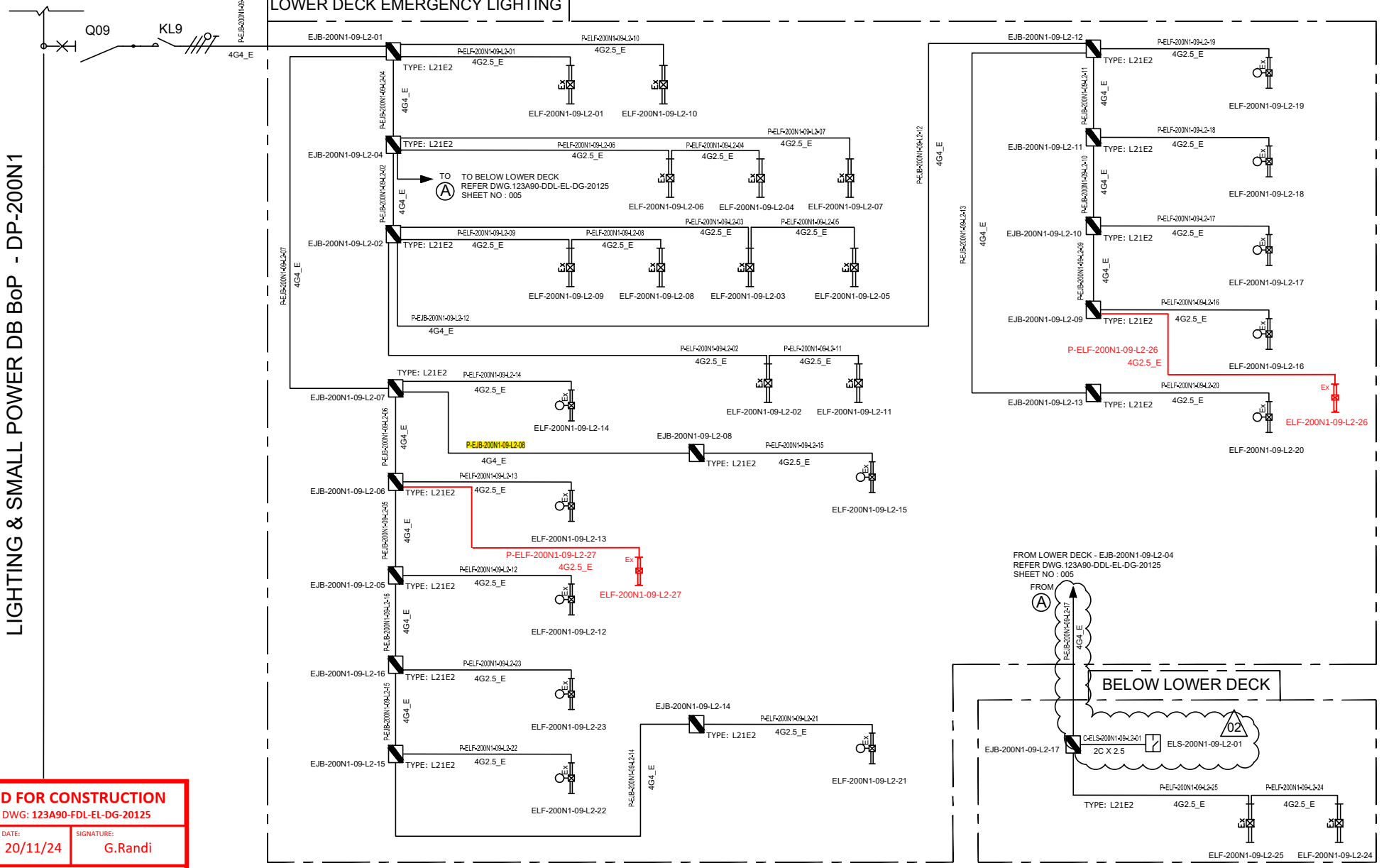
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

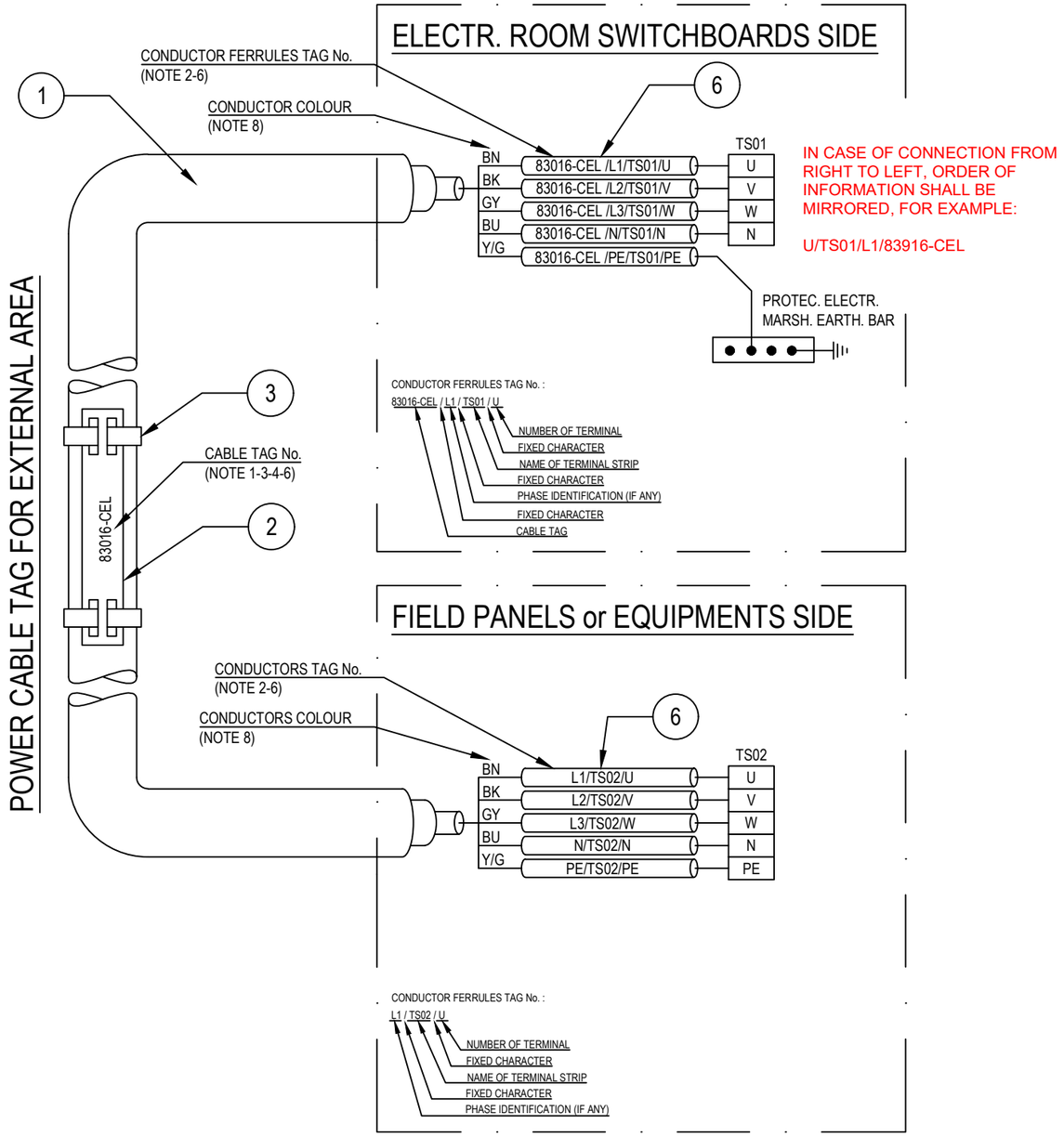
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

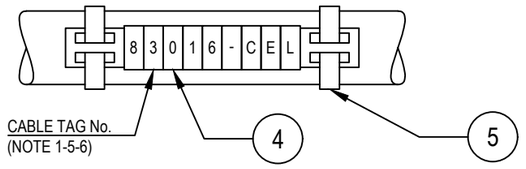
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

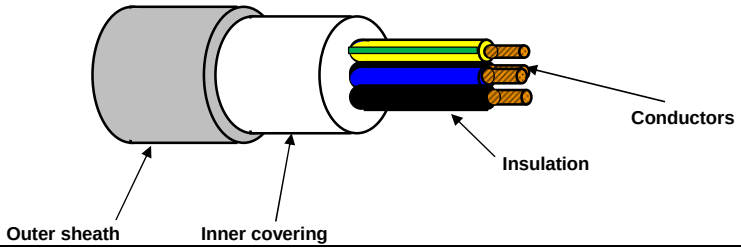
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-08	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-07	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-08	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-126 / L-150-101-LVT-108 / L-150-101-LVT-086 / L-50-101-LVT-128

ITEM	Tag	P-ELF-200N1-09-L2-15	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000795		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-08 To ELF-200N1-09-L2-15

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	NA
10	Check cable earthing against lastest drawings.	PL
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-15	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000795		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,1	
6		PH 2	0,1	
7		PH 3	0,1	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,1	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

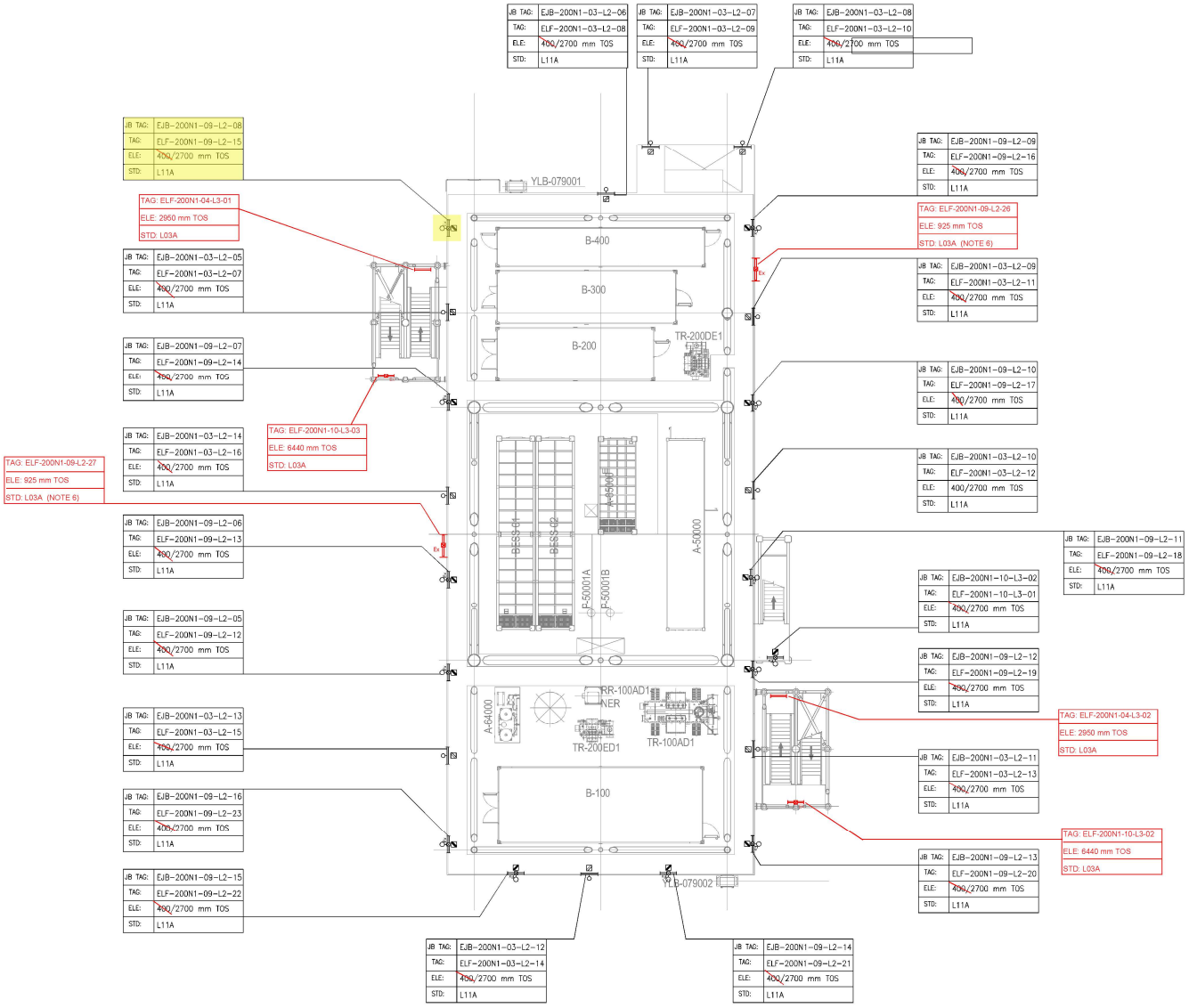
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

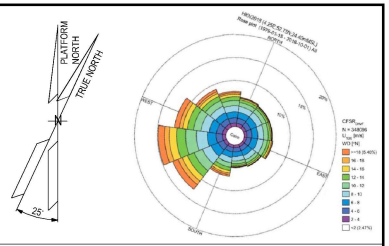
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-22	2024-12-27	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:21:09.473Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-12-27T16:55:21.338Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 80W LED EMERGENCY LUMINARIES
- 80W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

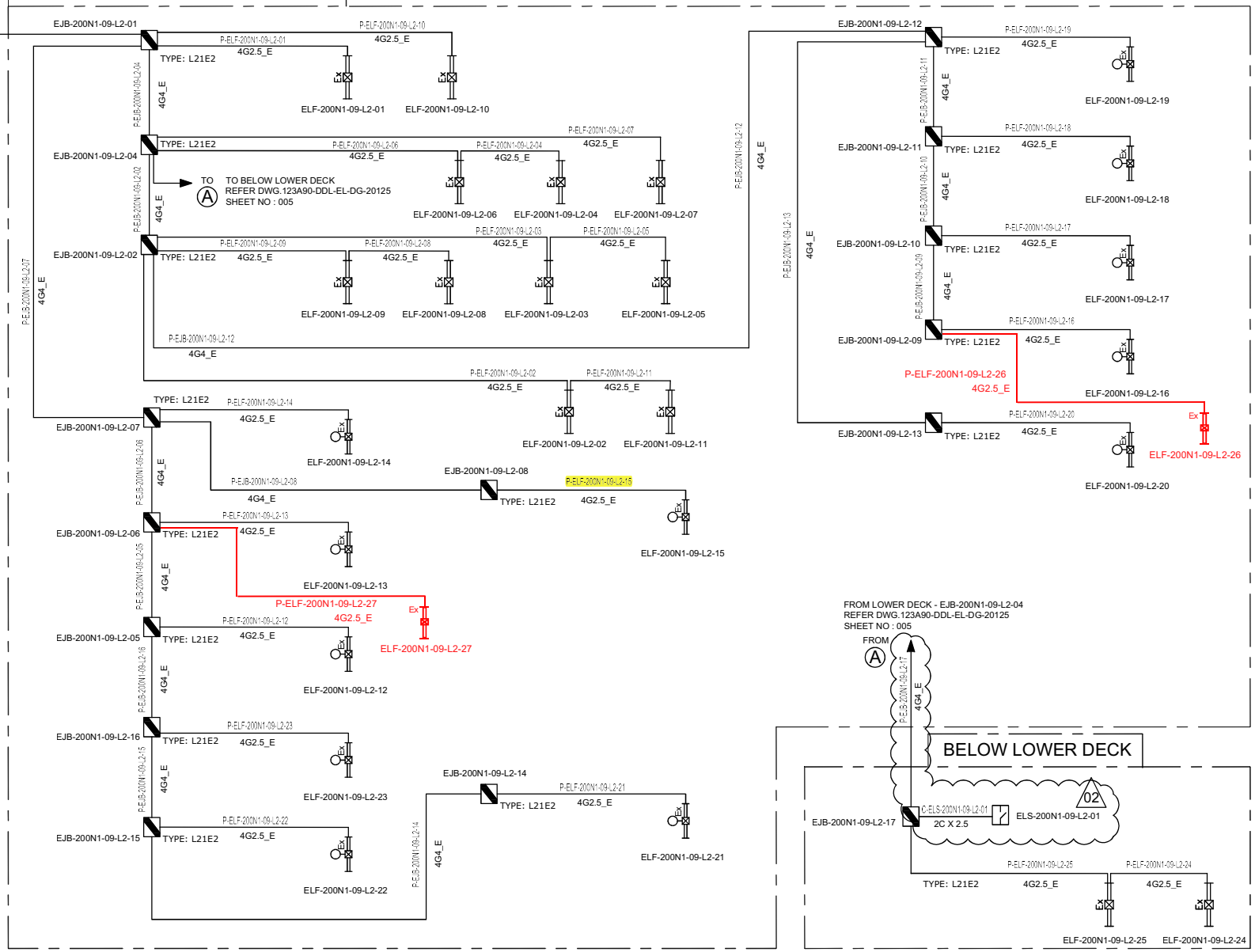
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

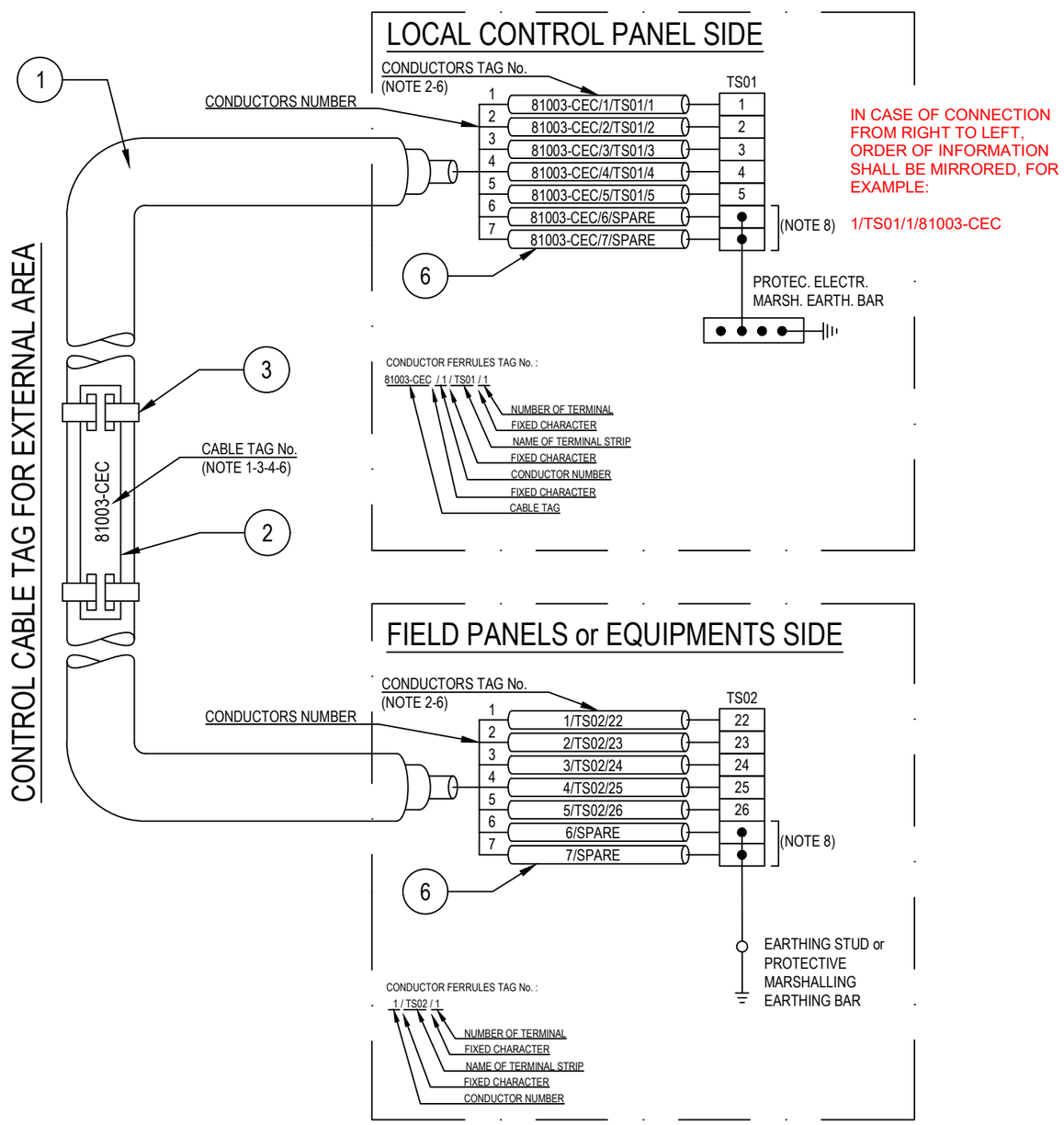
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C04



IN CASE OF CONNECTION FROM RIGHT TO LEFT, ORDER OF INFORMATION SHALL BE MIRRORED, FOR EXAMPLE:

1/TS01/1/81003-CEC

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 50 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

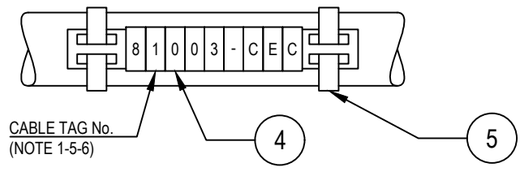
5) THE CABLE TAG FOR INTERNAL AREA SHAL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) THE EARTHING CONNECTION OF THE ARMOUR CABLE IS NOT APPLICABILE IF THE ARMOUR IS CONNECTED TO EARTH WITH METALLIC CABLE GLAND.
WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH RING
- EARTHING BOSS AND EARTH RING
- EARTH BAR AND EARTH BAR (IF ANY).

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

CONTROL CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR CONTROL CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 008 | REV. 02

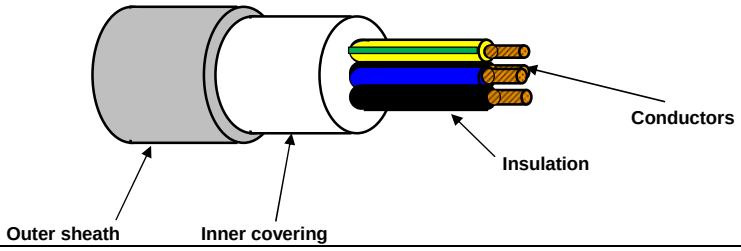
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-15	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-08	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-15	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G2,5mm², E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-128

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-09-L2-09	: Emergency Lighting JB / Normal Lighting JB		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000796	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-10 To EJB-200N1-09-L2-09

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-09	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000796		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

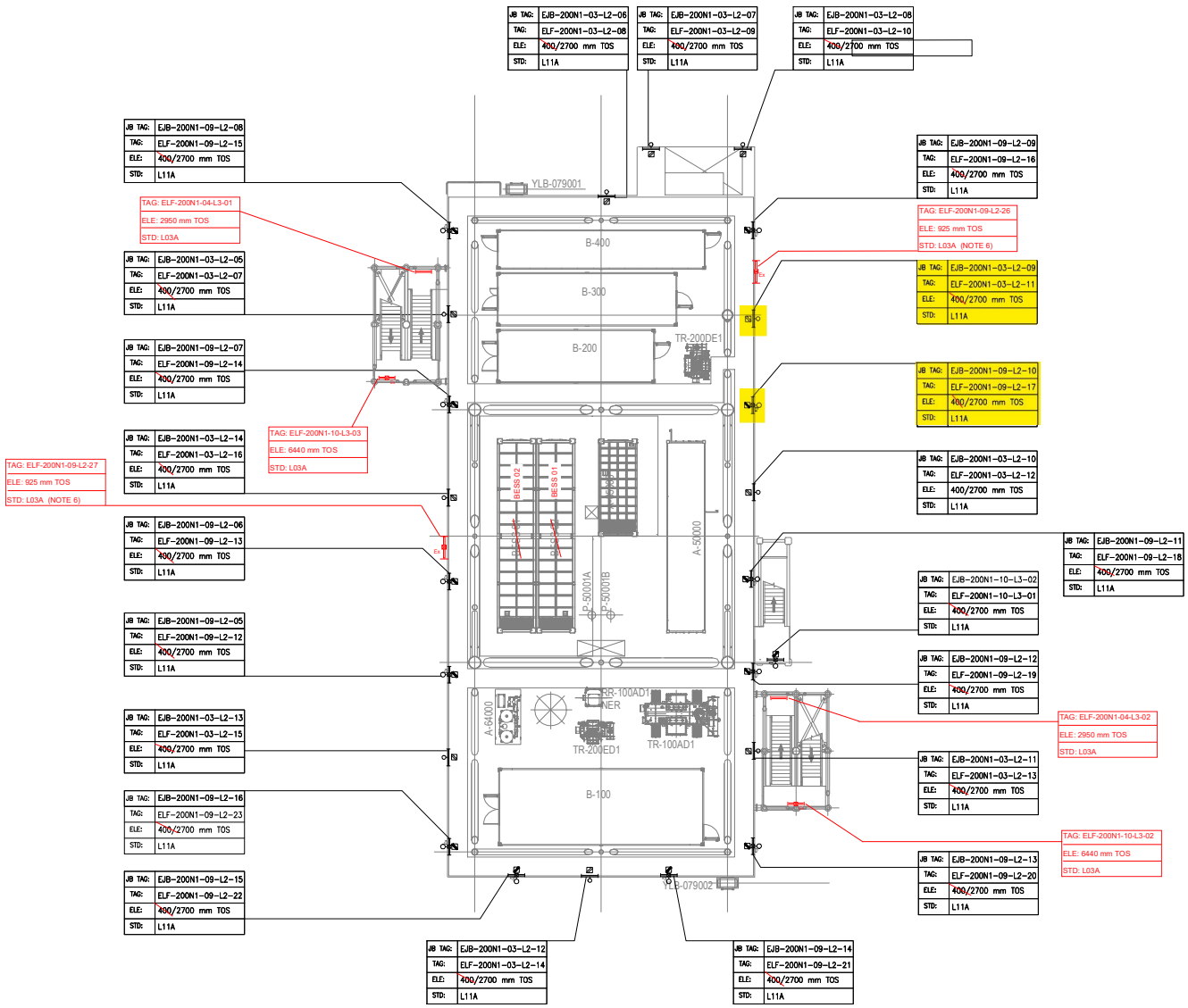
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

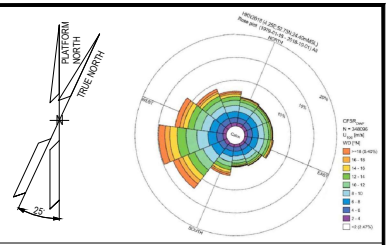
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:18:07.425Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T16:53:38.892Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

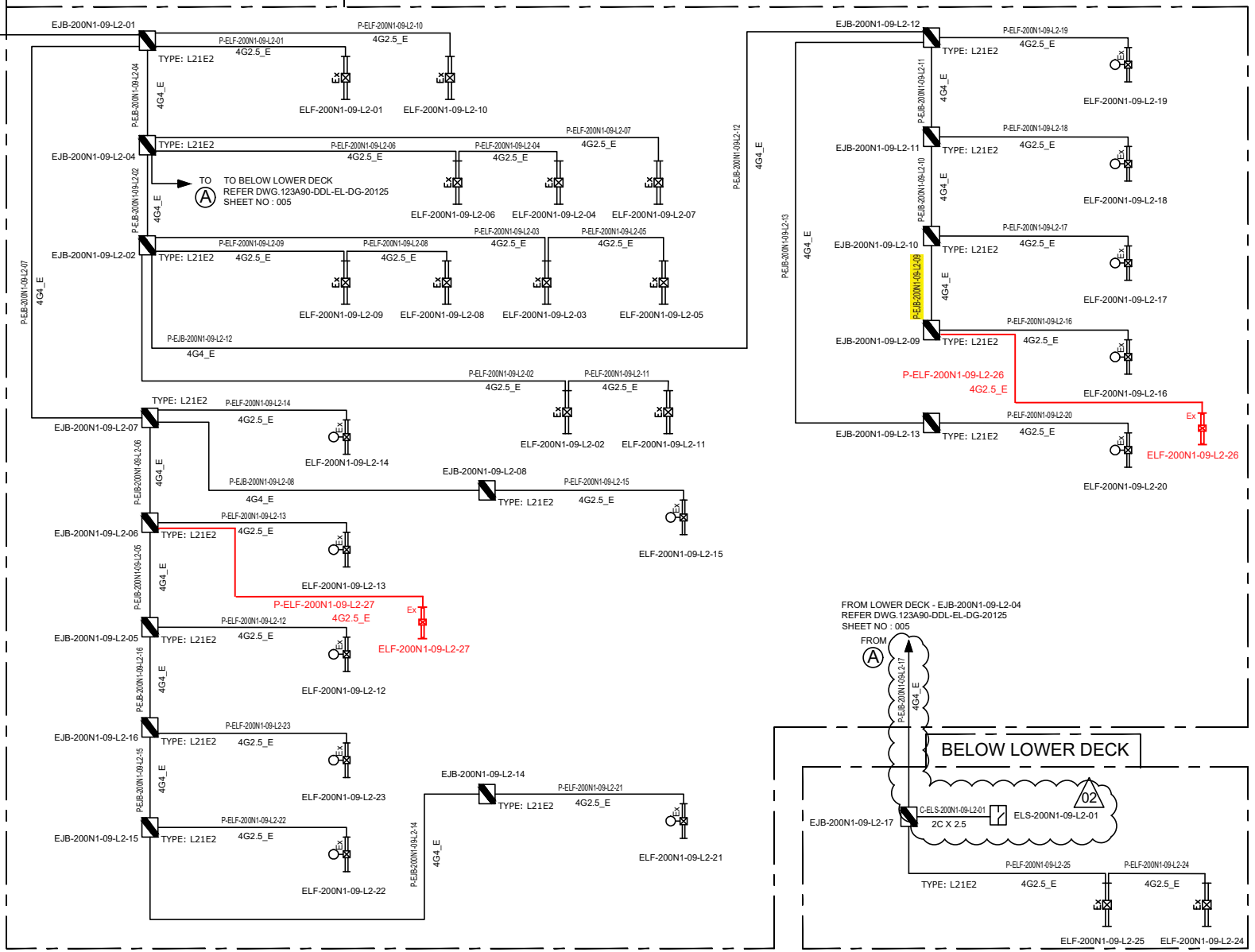
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

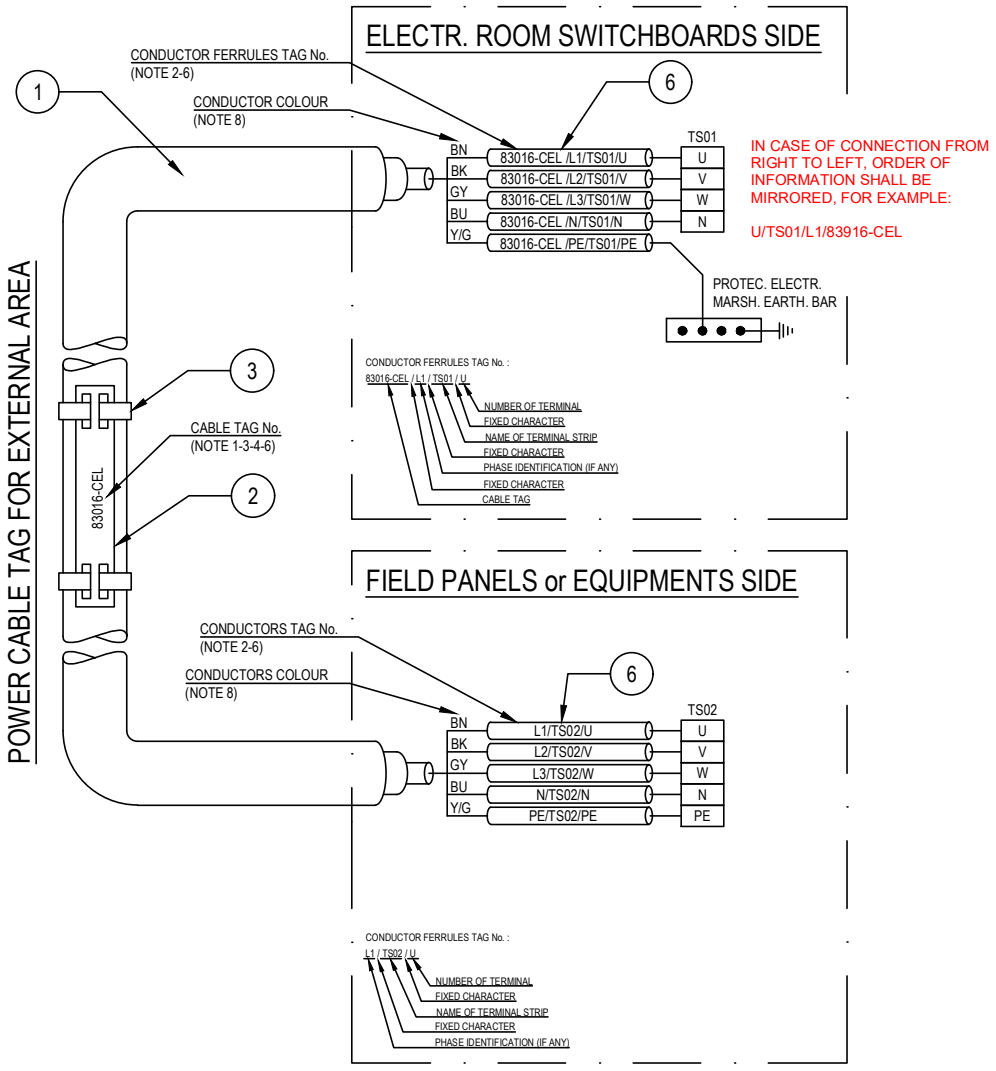
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

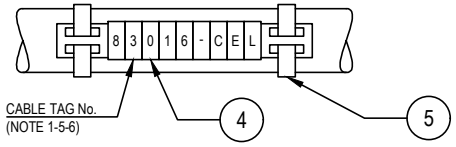
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

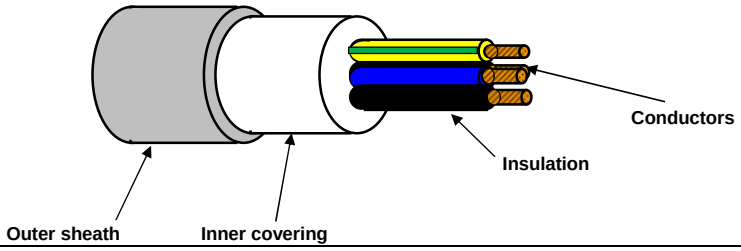
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-09	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-10	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-09	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-115 / L-150-101-LVT-083 / L-50-101-LVT-113

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-16	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000797		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-09 To ELF-200N1-09-L2-16

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	OK
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-16	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000797		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>1G	
11		PH2 / PH1-PH3-A-E	>1G	
12		PH3 / PH1-PH2-A-E	>1G	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

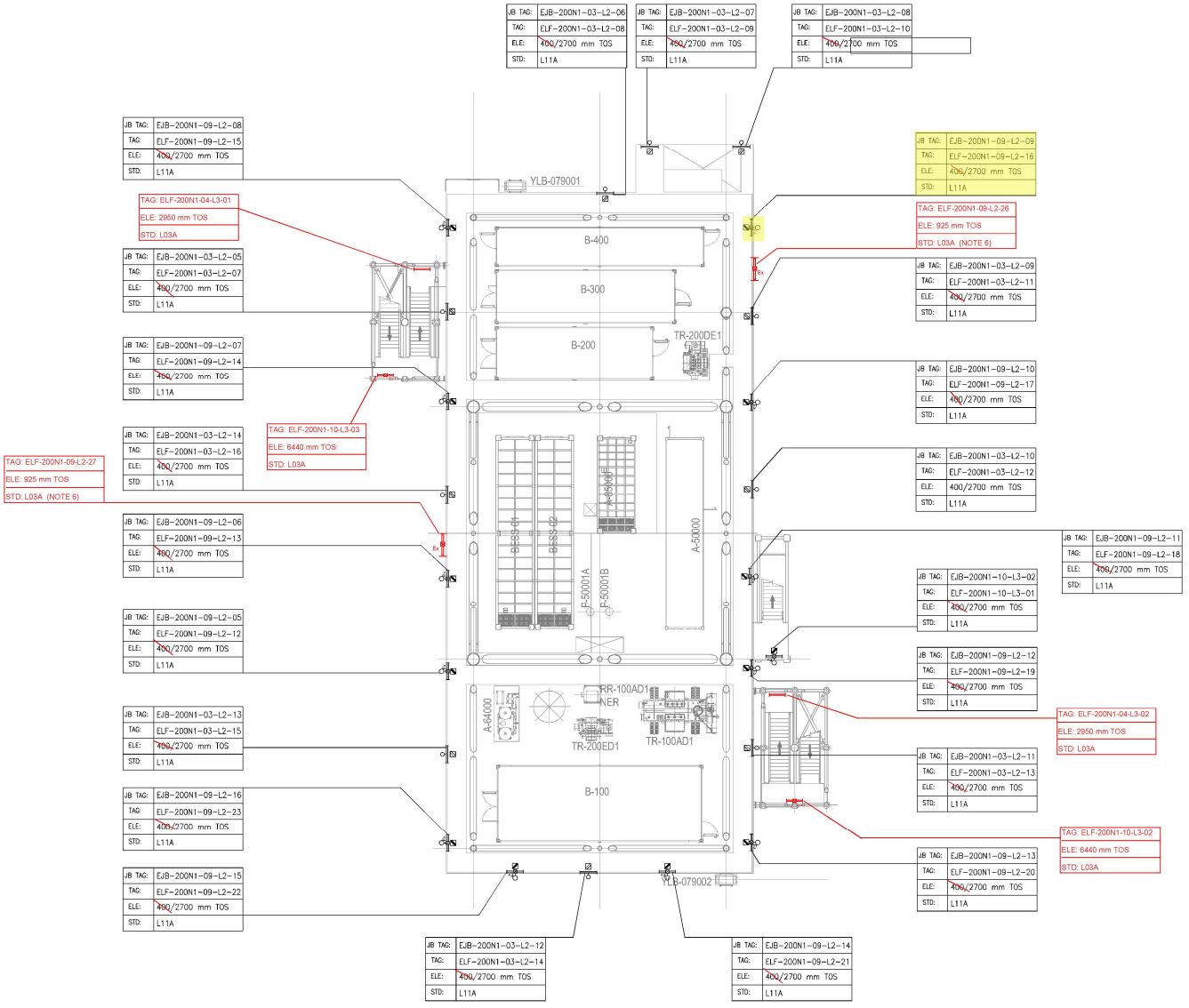
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	KEW3125A/ Serial:W8330207	TYPE / SERIAL N° :	Fluke/Serial:AW1/08(17140769)
Calibration certificate N° and date:	7722/24Date:10/07/24	Calibration certificate N° and date:	7715/24 date:10/07/24

Comments: Nota 4: refer to PL C30000679

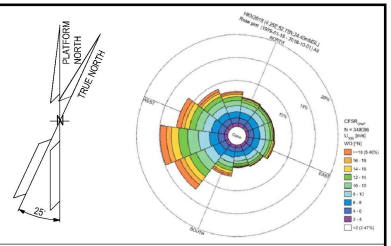
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-22	2024-12-27	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:21:23.608Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-12-27T17:04:22.044Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 80W LED EMERGENCY LUMINARIES
- 80W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

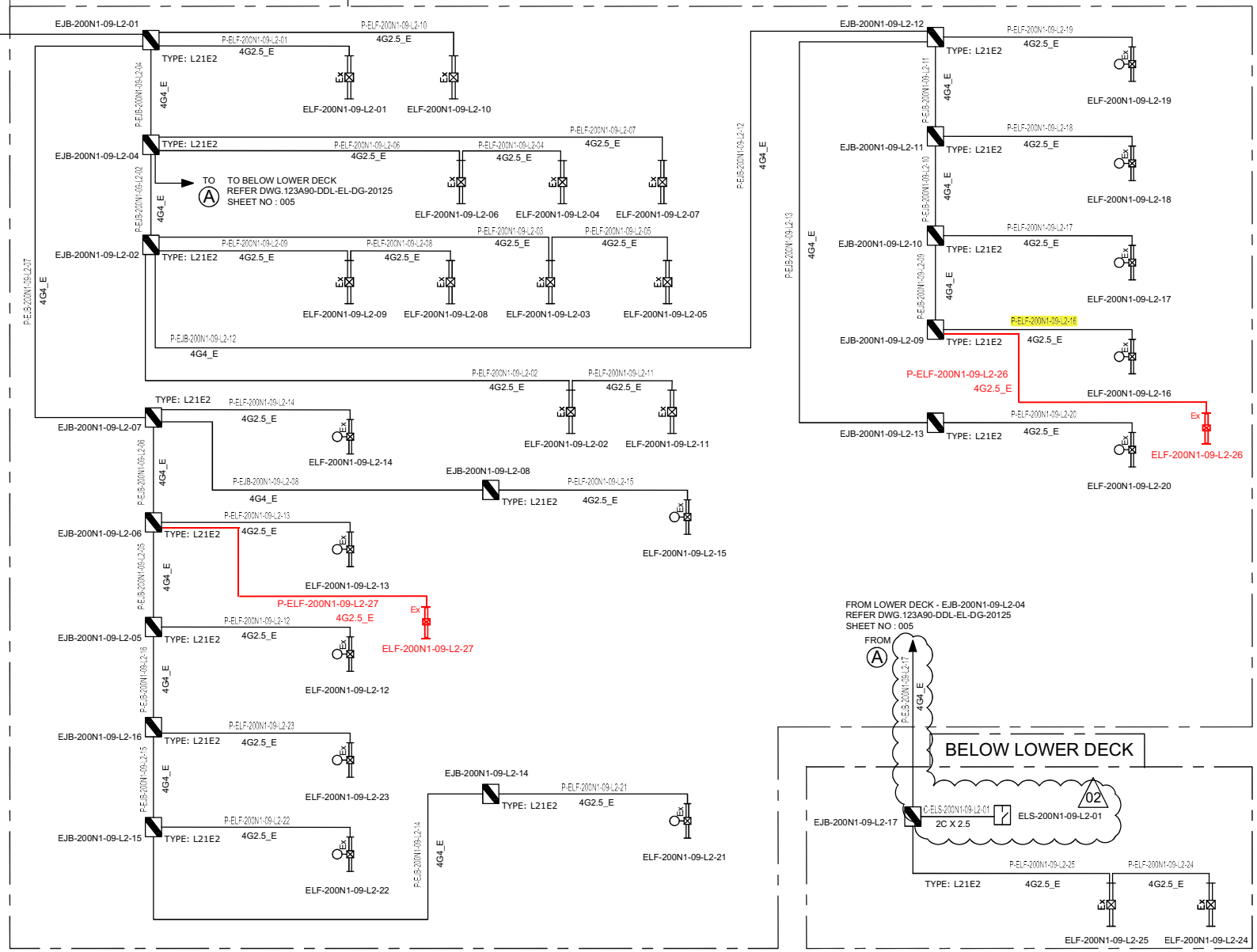
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

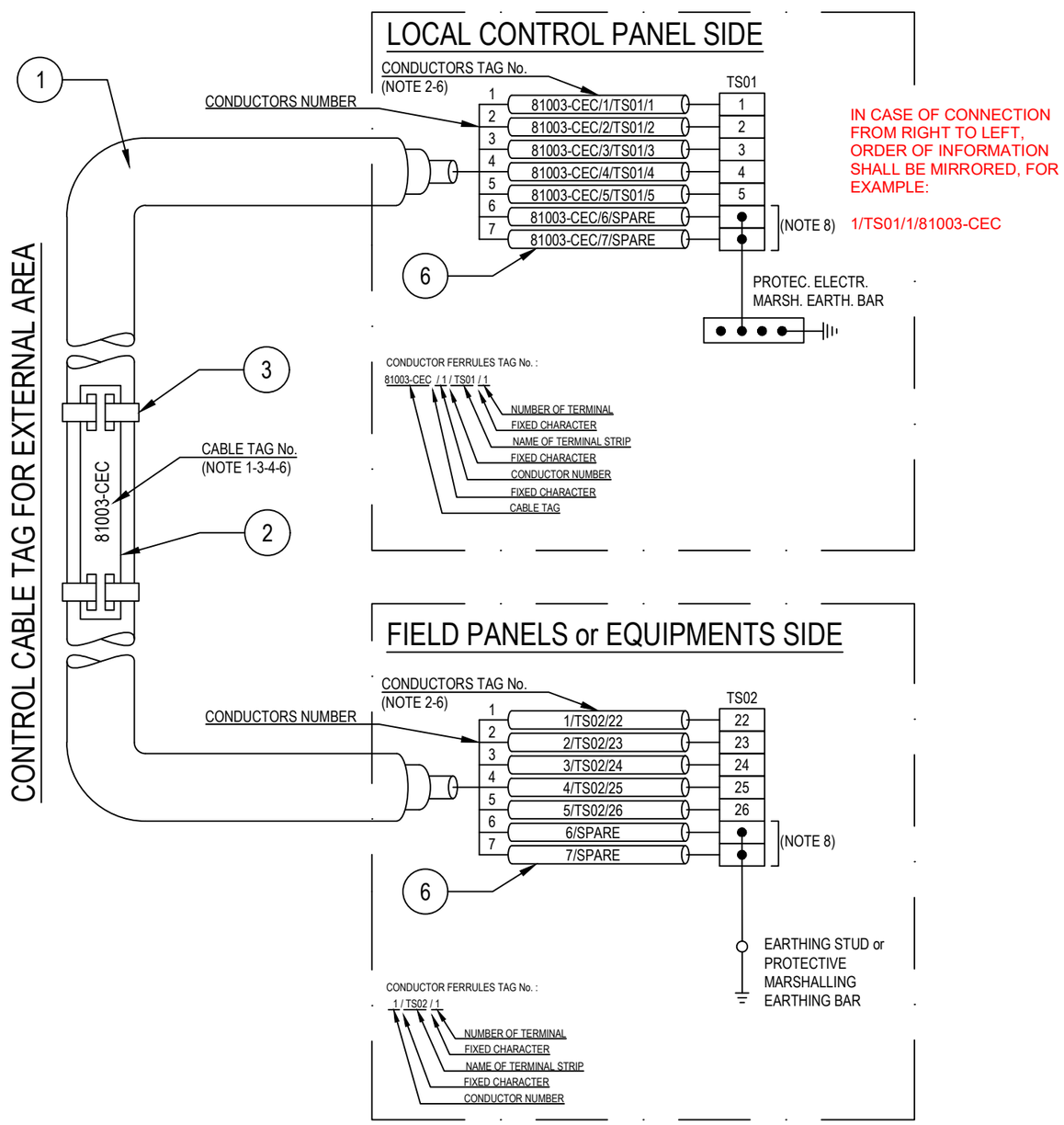
CROSSWIND

ROSETTI MARINO

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

C04



IN CASE OF CONNECTION FROM RIGHT TO LEFT, ORDER OF INFORMATION SHALL BE MIRRORED, FOR EXAMPLE:

1/TS01/1/81003-CEC

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 50 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

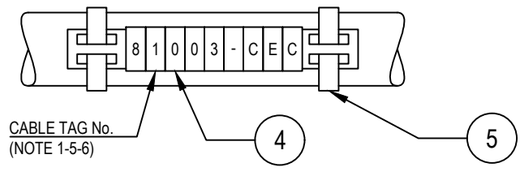
5) THE CABLE TAG FOR INTERNAL AREA SHAL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) THE EARTHING CONNECTION OF THE ARMOUR CABLE IS NOT APPLICABILE IF THE ARMOUR IS CONNECTED TO EARTH WITH METALLIC CABLE GLAND.
WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH RING
- EARTHING BOSS AND EARTH RING
- EARTH BAR AND EARTH BAR (IF ANY).

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

CONTROL CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR CONTROL CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 008 | REV. 02

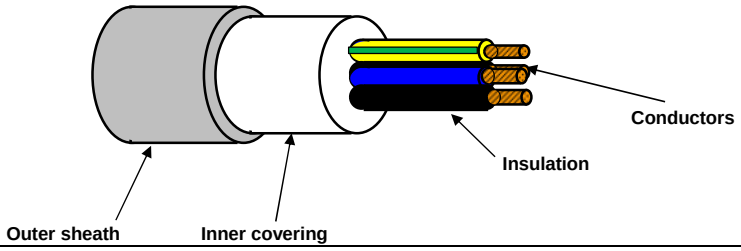
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-16	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-09	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-16	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm², E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-113

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-09-L2-10	: Emergency Lighting JB / Normal Lighting JB		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000798	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-11 To EJB-200N1-09-L2-10

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	OK
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-10	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000798		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	0,6	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

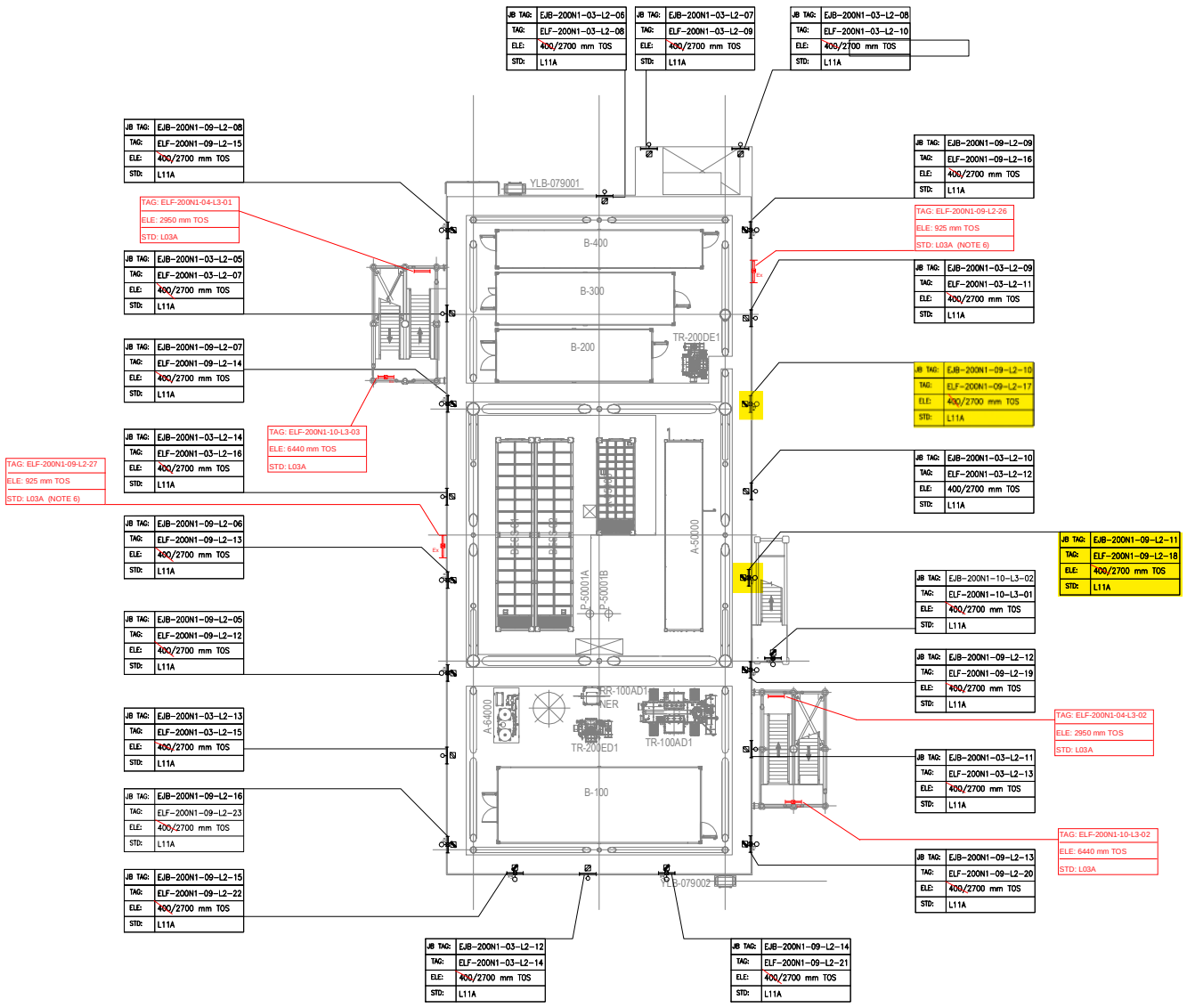
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

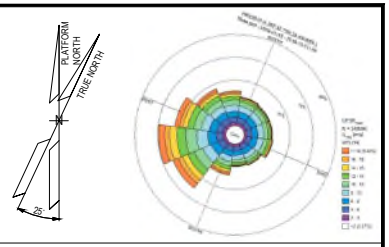
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-07	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T07:52:43.041Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-11T16:17:42.252Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

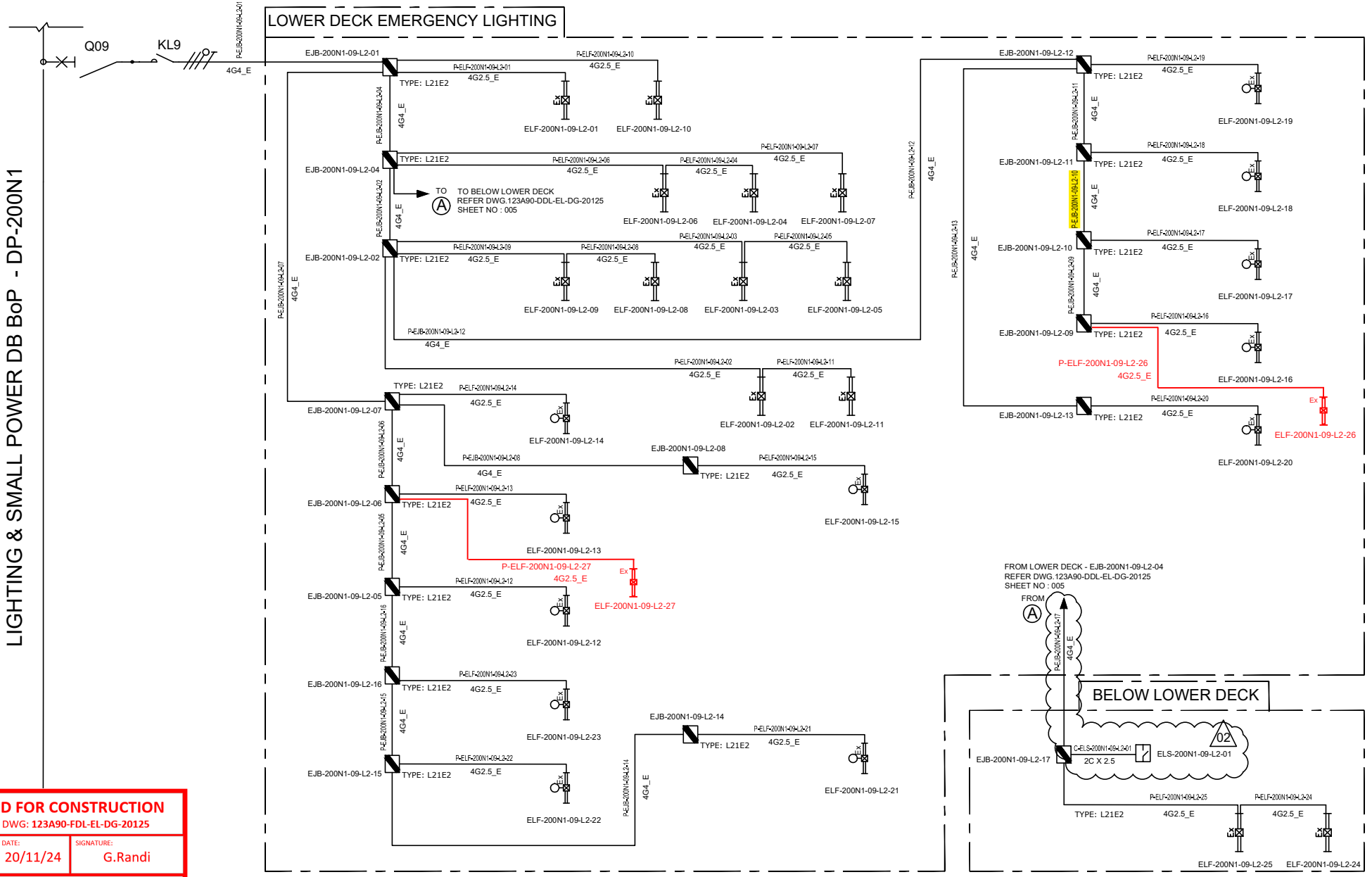
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

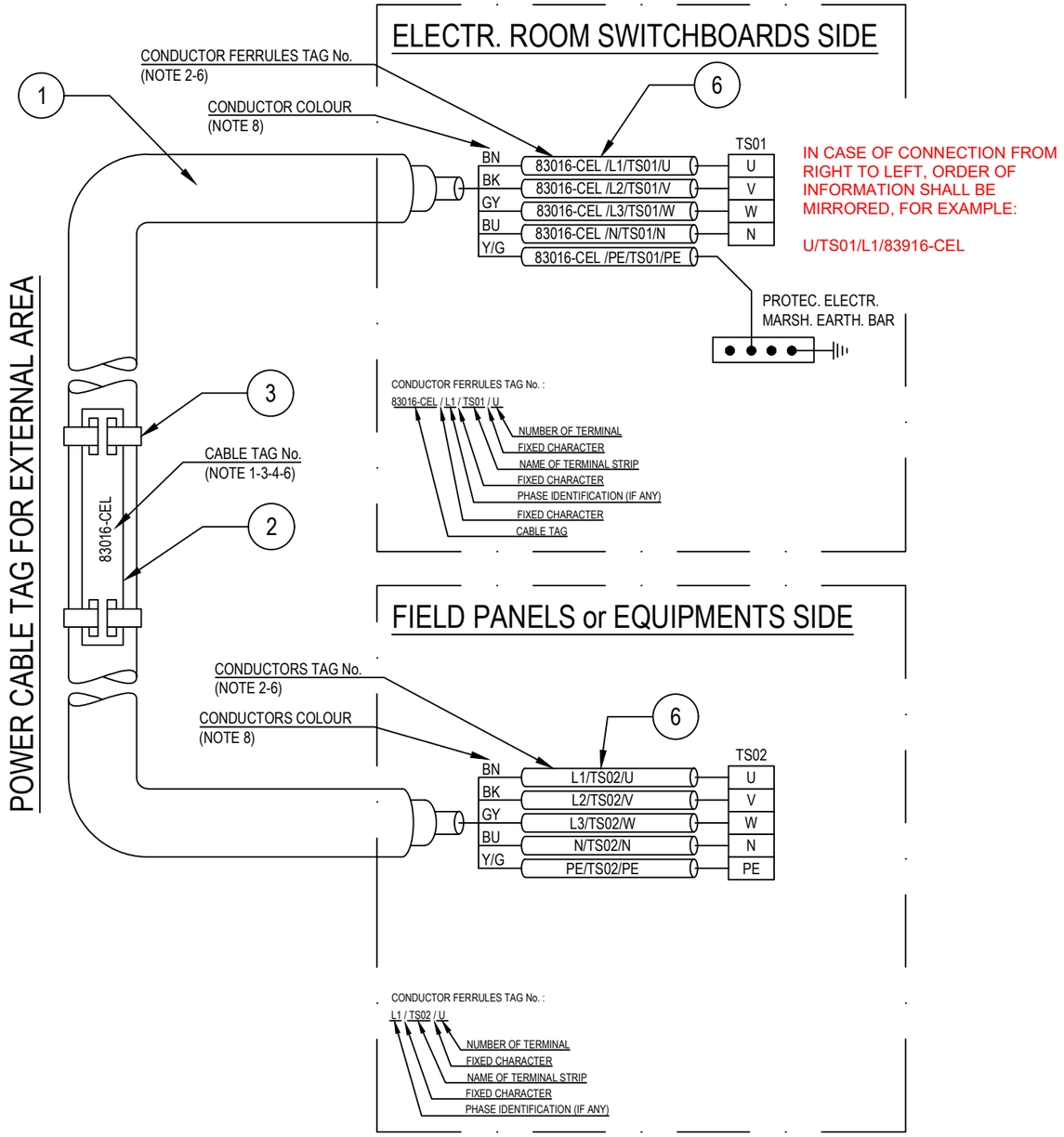
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

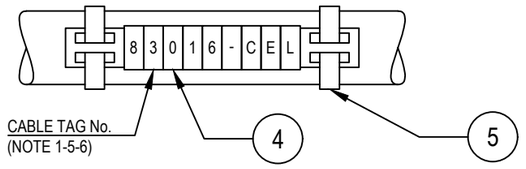
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

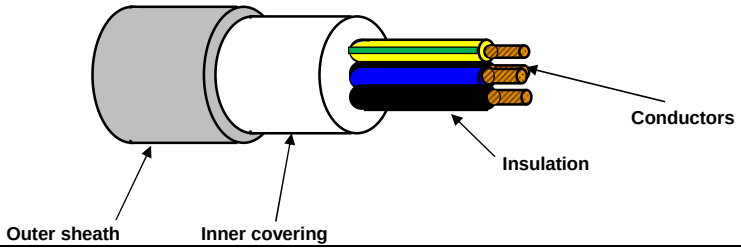
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-10	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-11	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-10	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/E/PR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-117 / L-150-101-LVT-081 / L-150-101-LVT-083 / L-50-101-LVT-115

ITEM	Tag	P-ELF-200N1-09-L2-17	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000799		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-09-L2-10 | To: ELF-200N1-09-L2-17

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	OK
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	PL
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-17	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000799		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,1	
6		PH 2	0,1	
7		PH 3	0,1	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,1	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

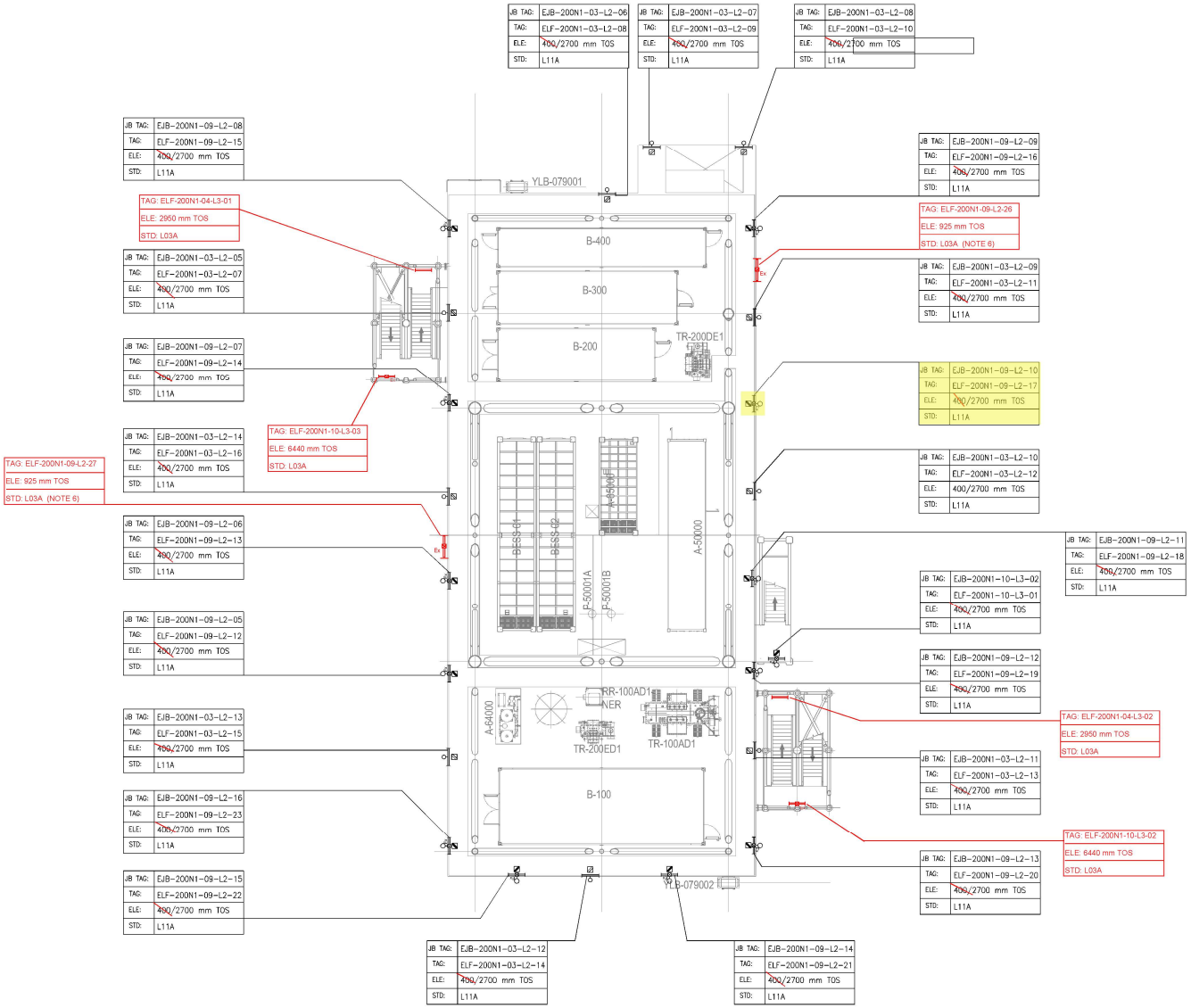
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Giovanni Tangianu	
Date	2024-11-29	2024-12-28	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-11-29T10:32:43.526Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-12-28T07:19:24.532Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S

NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 80W LED EMERGENCY LUMINARIES
- 80W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2
P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
P-EJB-200N1-09-L2-02 4G4_E
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005

EJB-200N1-09-L2-02 — TYPE: L21E2
P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-07 4G4_E
P-EJB-200N1-09-L2-12 4G4_E

P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2
P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E
P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2
P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2
P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-EJB-200N1-09-L2-05 4G4_E
P-ELF-200N1-09-L2-27 4G2.5_E — ELF-200N1-09-L2-27

EJB-200N1-09-L2-05 — TYPE: L21E2
P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2
P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2
P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22
P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-14 — TYPE: L21E2
P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21

EJB-200N1-09-L2-12 — TYPE: L21E2
P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2
P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2
P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2
P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — ELF-200N1-09-L2-26
P-EJB-200N1-09-L2-13 4G4_E

EJB-200N1-09-L2-13 — TYPE: L21E2
P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)
P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17
C-ELS-200N1-09-L2-01 2C X 2.5
02 ELS-200N1-09-L2-01

P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

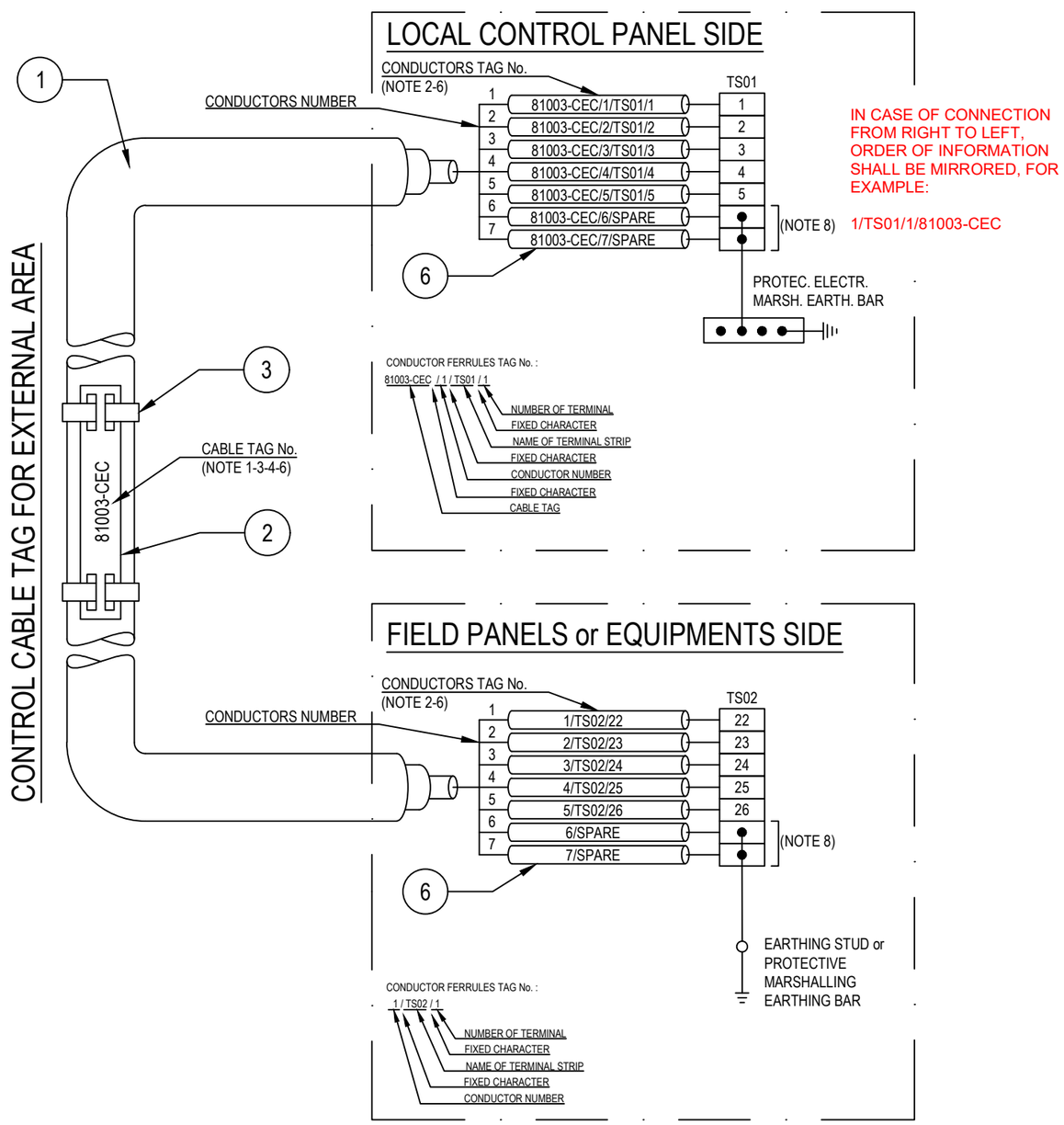
A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND — ROSETTI MARINO

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

C04



IN CASE OF CONNECTION FROM RIGHT TO LEFT, ORDER OF INFORMATION SHALL BE MIRRORED, FOR EXAMPLE:

1/TS01/1/81003-CEC

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 50 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

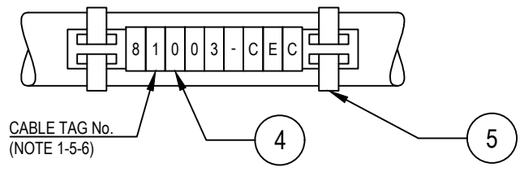
5) THE CABLE TAG FOR INTERNAL AREA SHAL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) THE EARTHING CONNECTION OF THE ARMOUR CABLE IS NOT APPLICABILE IF THE ARMOUR IS CONNECTED TO EARTH WITH METALLIC CABLE GLAND.
WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH RING
- EARTHING BOSS AND EARTH RING
- EARTH BAR AND EARTH BAR (IF ANY).

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

CONTROL CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR CONTROL CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 008 | REV. 02

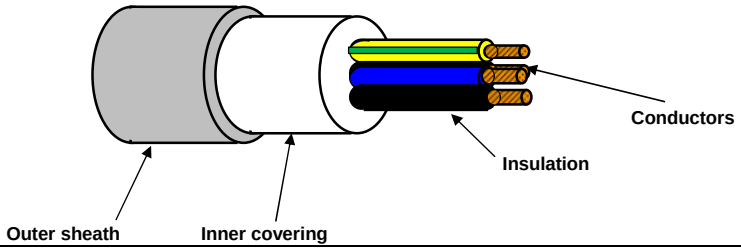
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-17	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-10	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-17	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm², E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-115

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-09-L2-11	: Emergency Lighting JB / Normal Lighting JB		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10000800	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-12 To EJB-200N1-09-L2-11

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-11	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000800		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	0,5	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

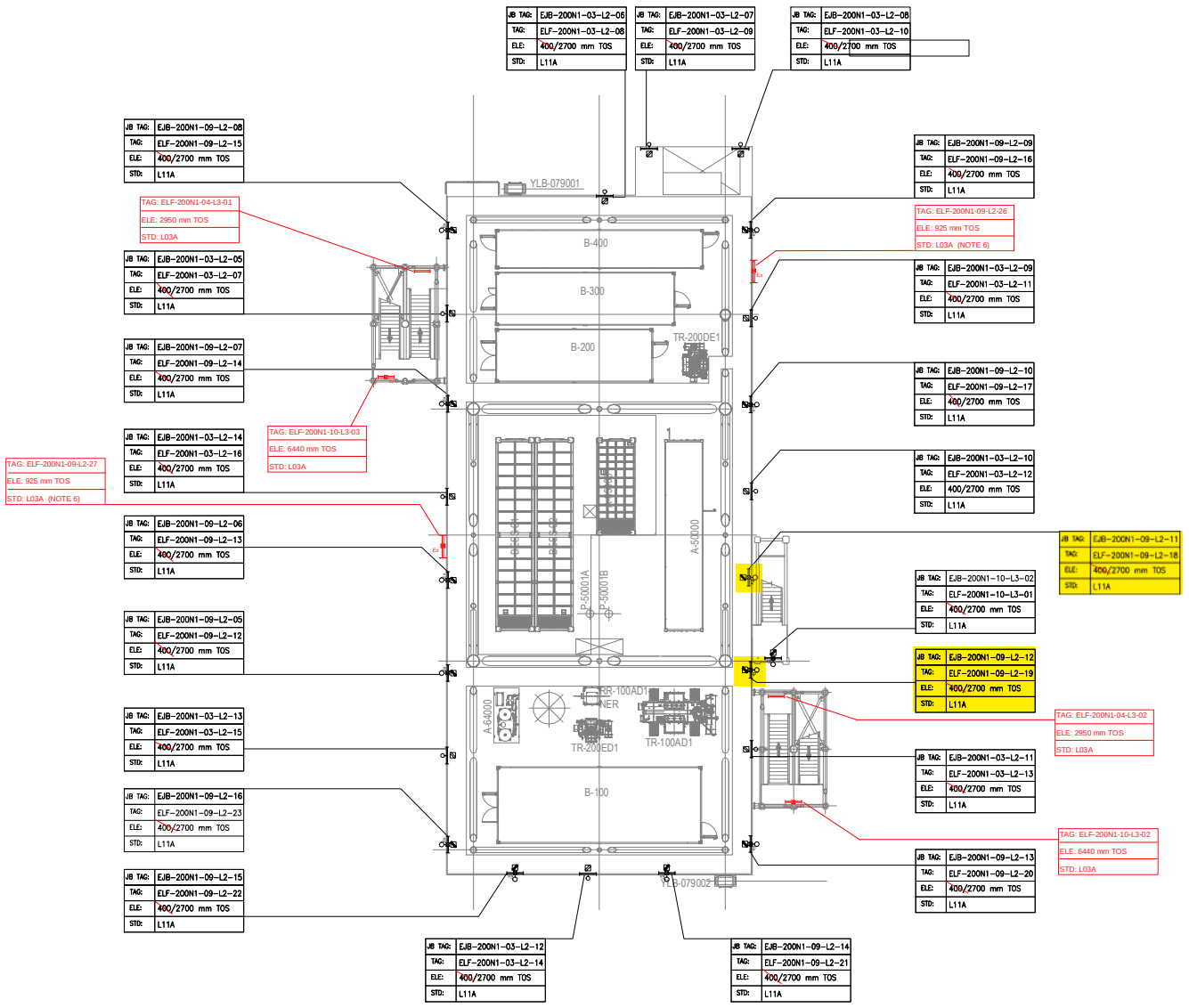
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

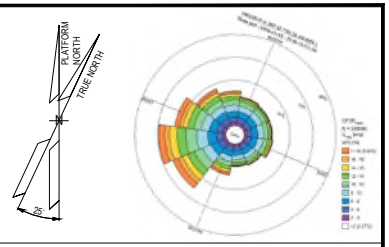
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:05:48.828Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:56:23.128Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

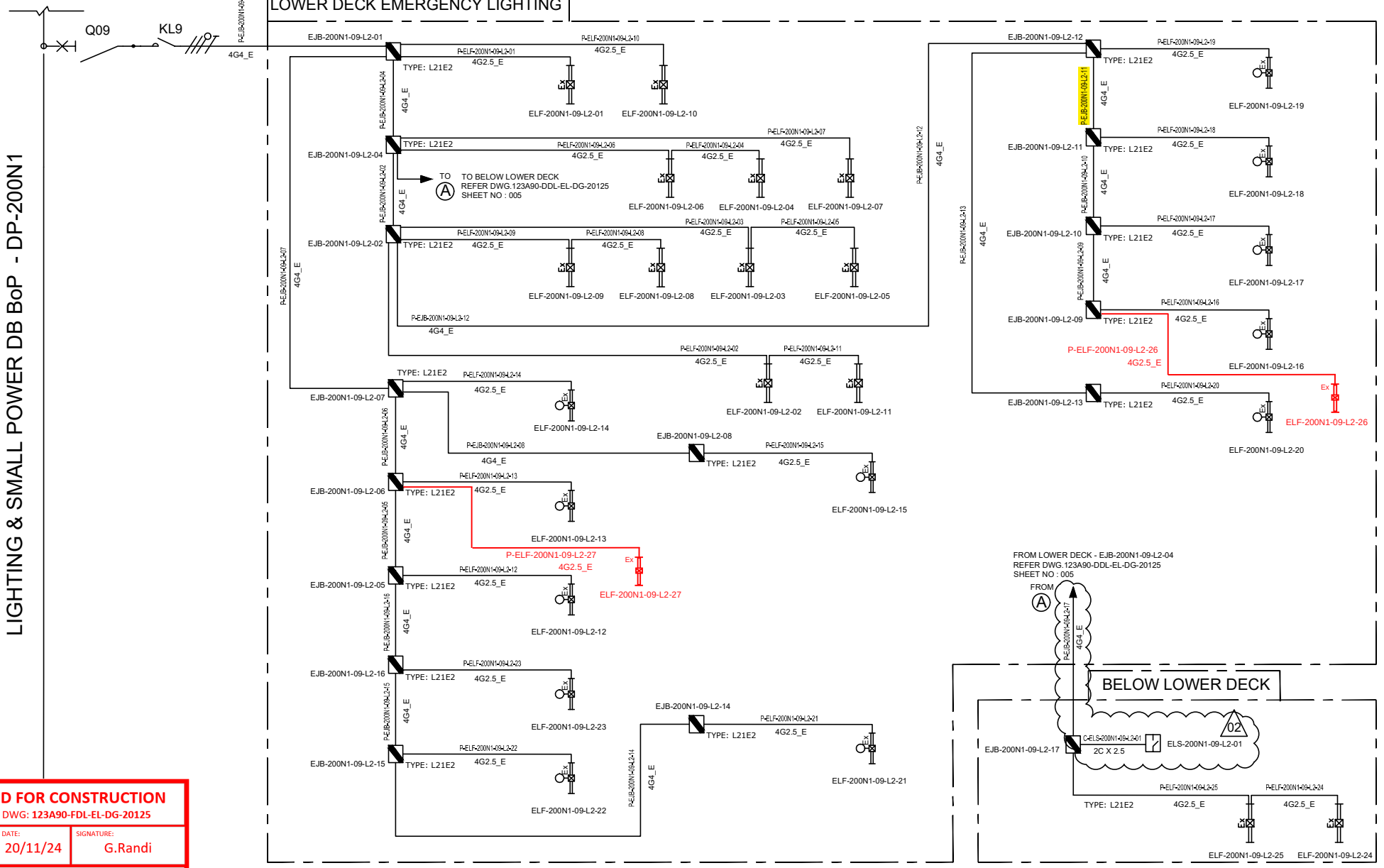
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

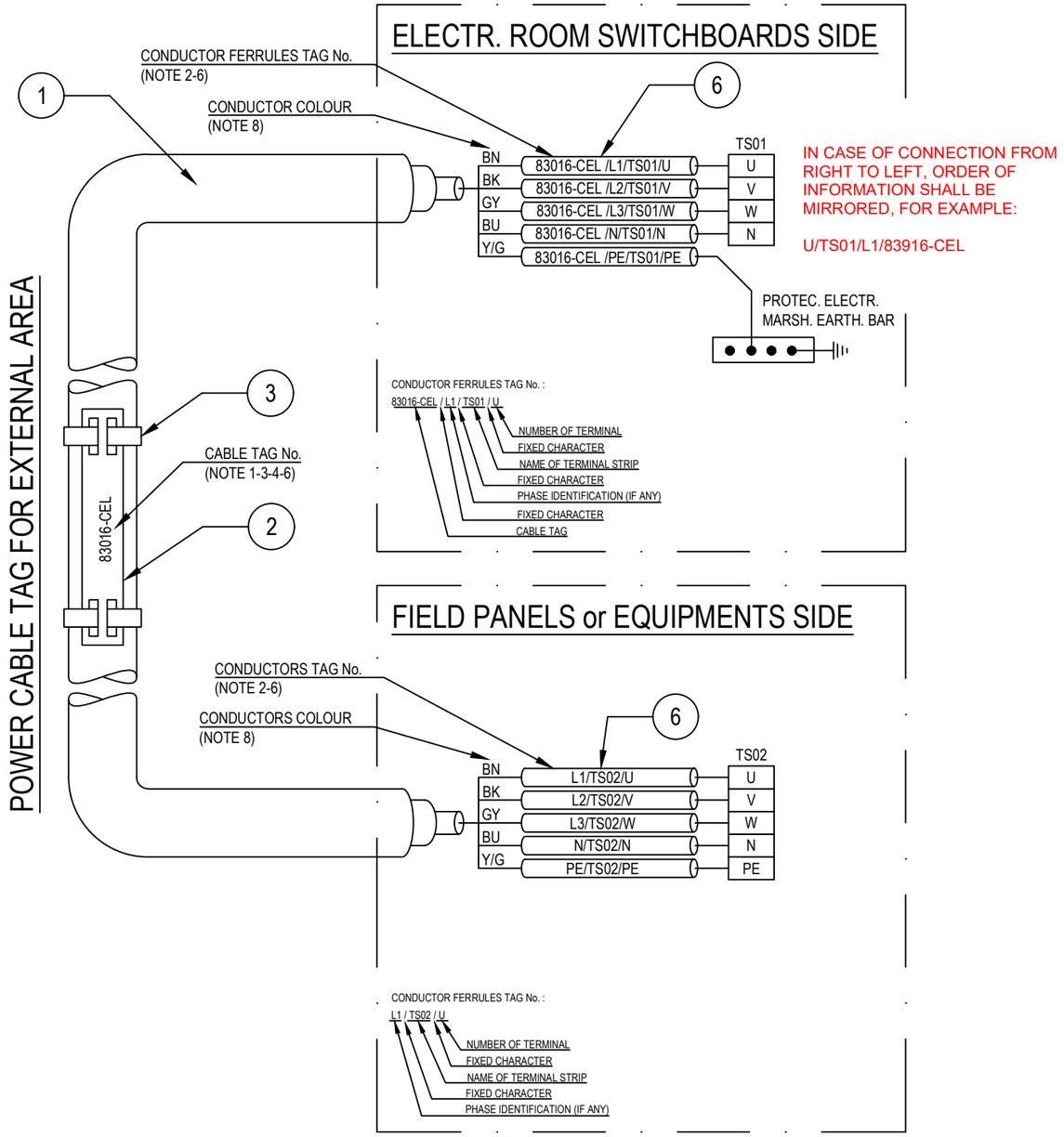
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

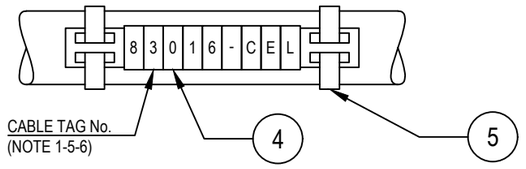
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

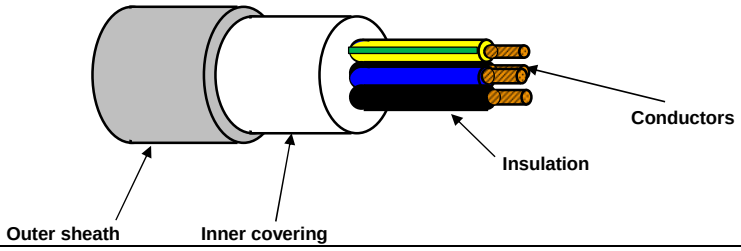
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-11	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-12	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-11	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-118 / L-300-101-LVT-080 / L-150-101-LVT-081 / L-50-101-LVT-145 / L-50-101-LVT-117

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-18	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000801		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-09-L2-11 | To: ELF-200N1-09-L2-18

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-18	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000801		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0.3	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

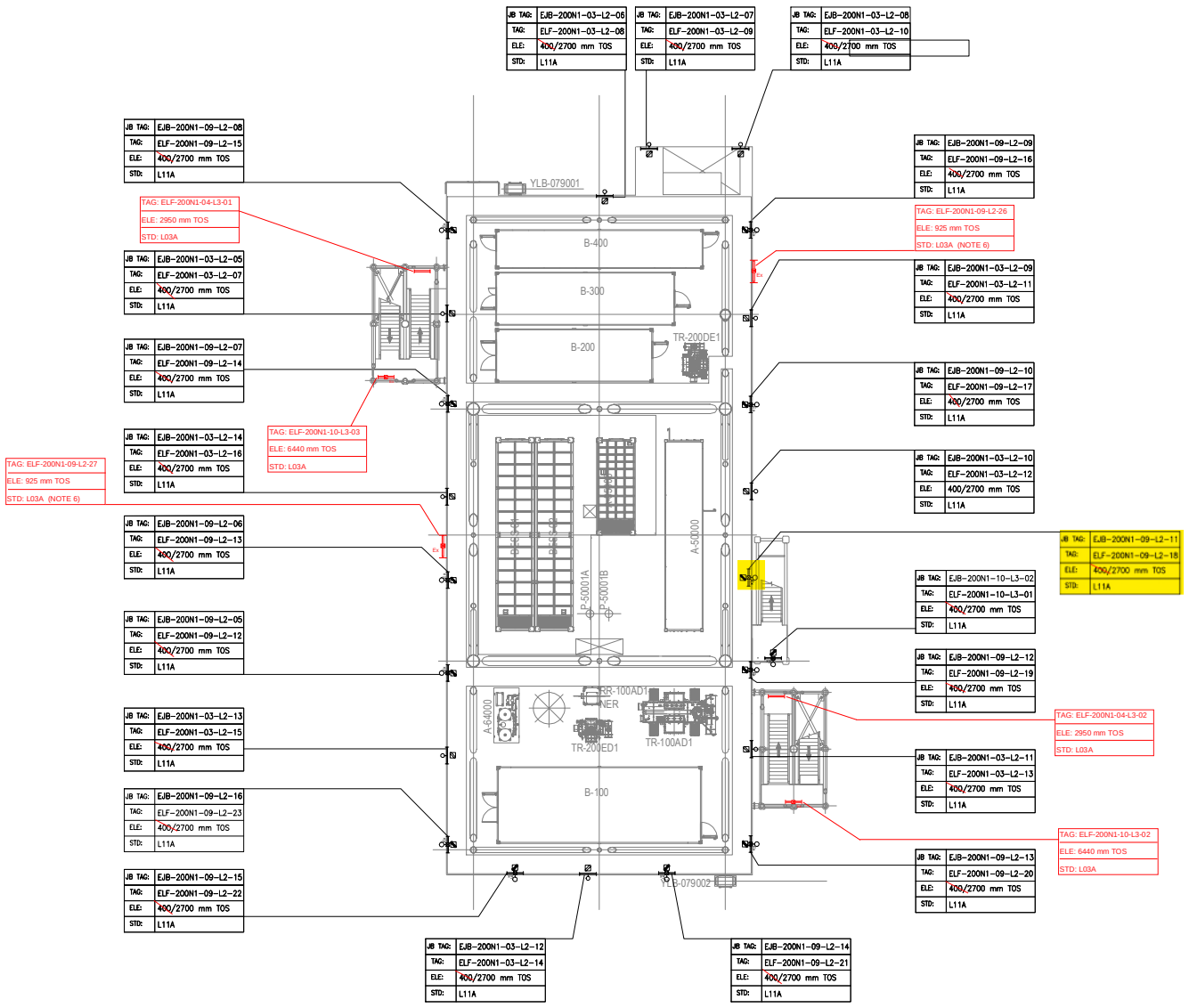
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

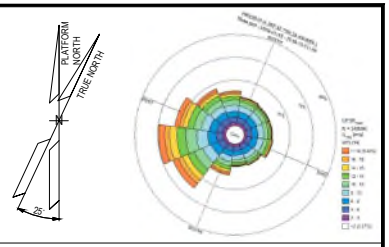
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:05:59.997Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:53:17.865Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

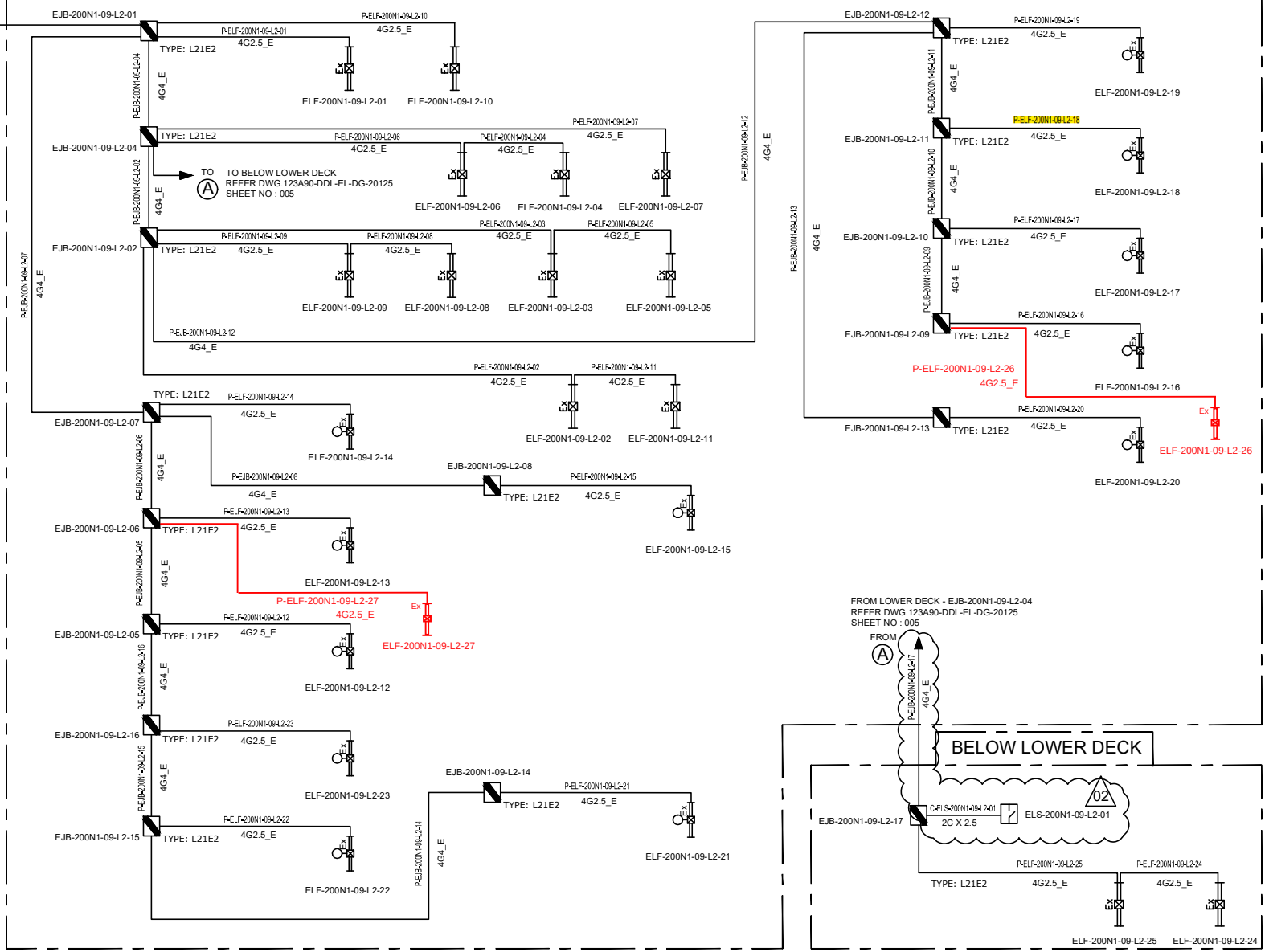
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

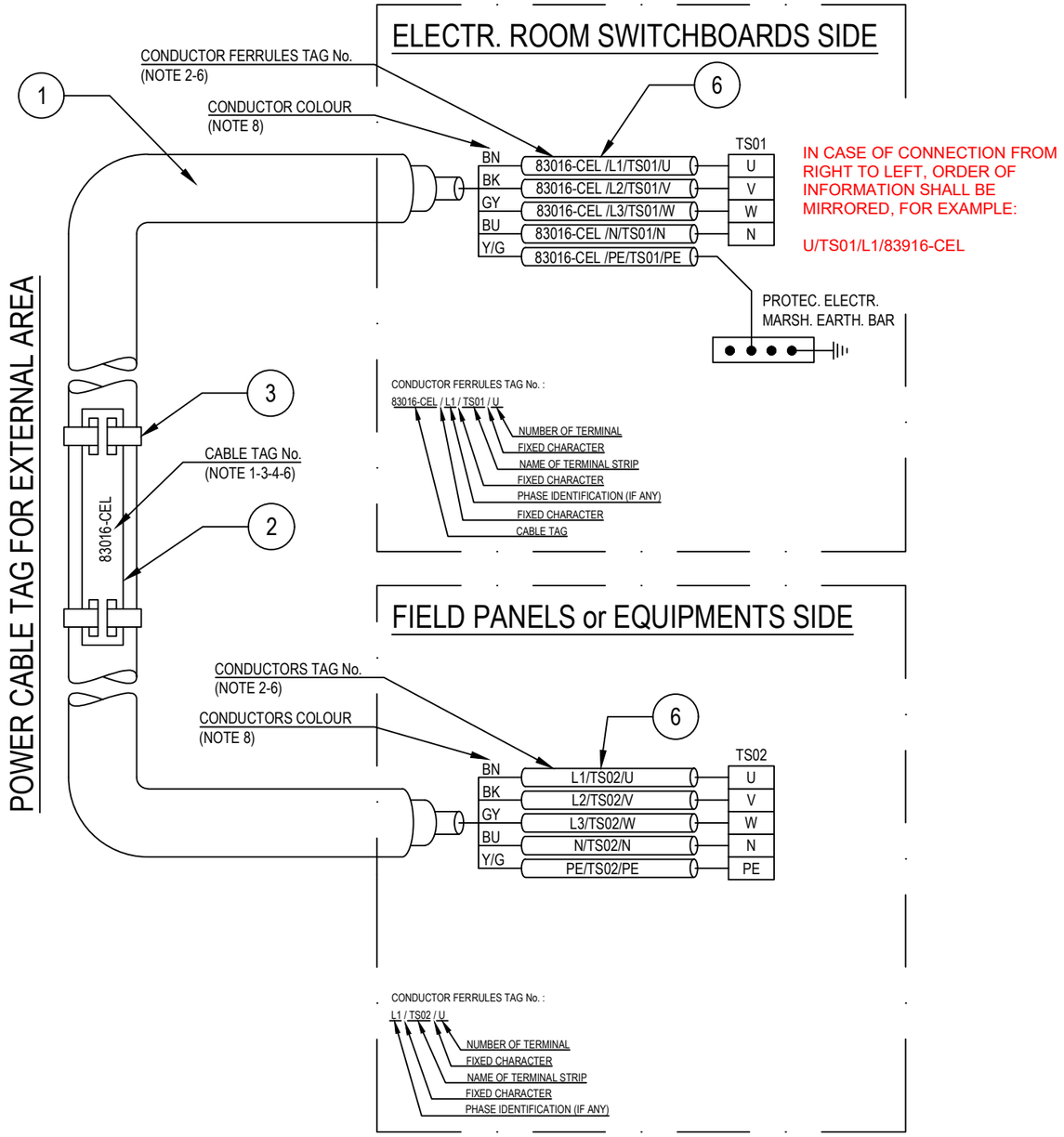
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

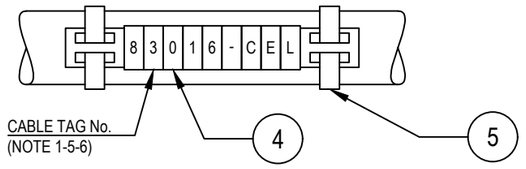
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

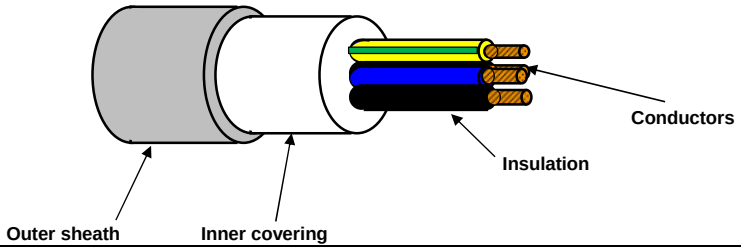
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-18	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-11	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-18	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-117

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-09-L2-12	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000802		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-02 To EJB-200N1-09-L2-12

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	OK
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-12	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000802		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	0,6	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

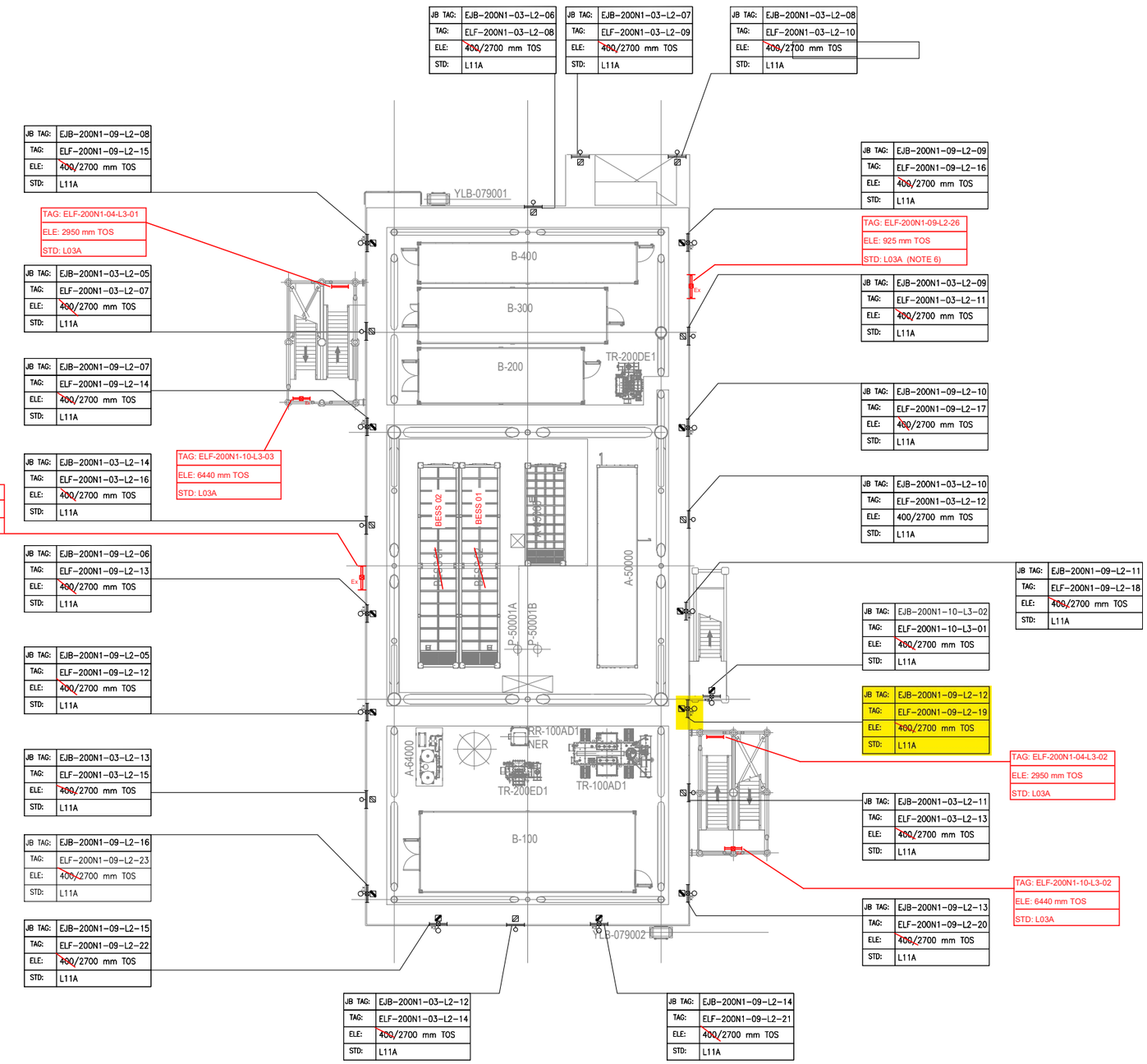
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

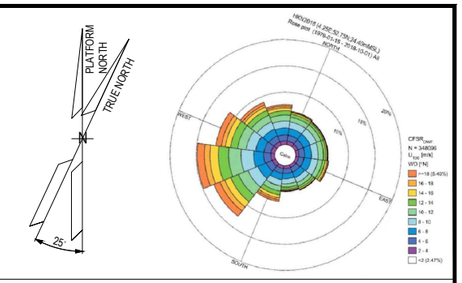
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-07	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T07:53:47.037Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-11T16:11:44.502Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

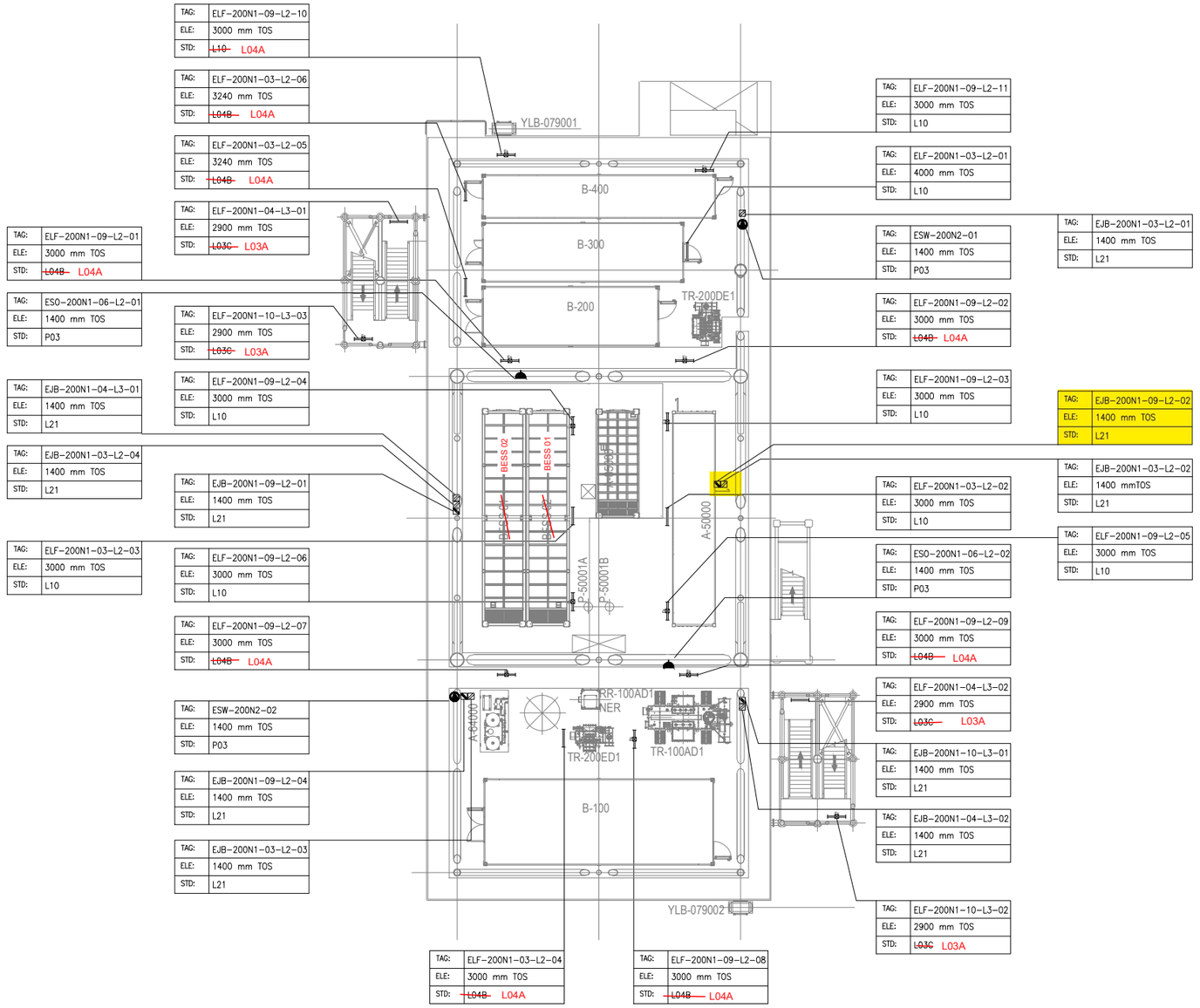
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

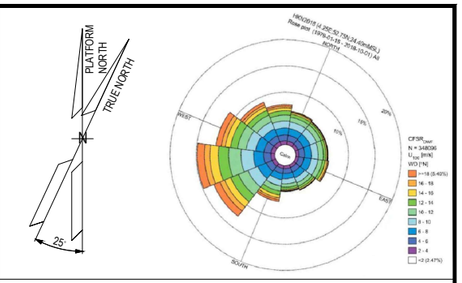
File Name : 123A90-DDL-EL-DL-20119

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE	1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO		DATE	06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119			SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2 — P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
P-EJB-200N1-09-L2-02 4G4_E

EJB-200N1-09-L2-02 — TYPE: L21E2 — P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-12 4G4_E
P-EJB-200N1-09-L2-07 4G4_E

P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2 — P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2 — P-EJB-200N1-09-L2-08 4G4_E
P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2 — P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-EJB-200N1-09-L2-05 4G4_E
P-ELF-200N1-09-L2-27 4G2.5_E — Ex — ELF-200N1-09-L2-27

EJB-200N1-09-L2-05 — TYPE: L21E2 — P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2 — P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2 — P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2 — P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21
P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2 — P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2 — P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2 — P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2 — P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — Ex — ELF-200N1-09-L2-26

EJB-200N1-09-L2-13 — TYPE: L21E2 — P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20
P-EJB-200N1-09-L2-13 4G4_E

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)
P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17 — C-ELS-200N1-09-L2-01 2C X 2.5 — ELS-200N1-09-L2-01 — 02

P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24
TYPE: L21E2

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

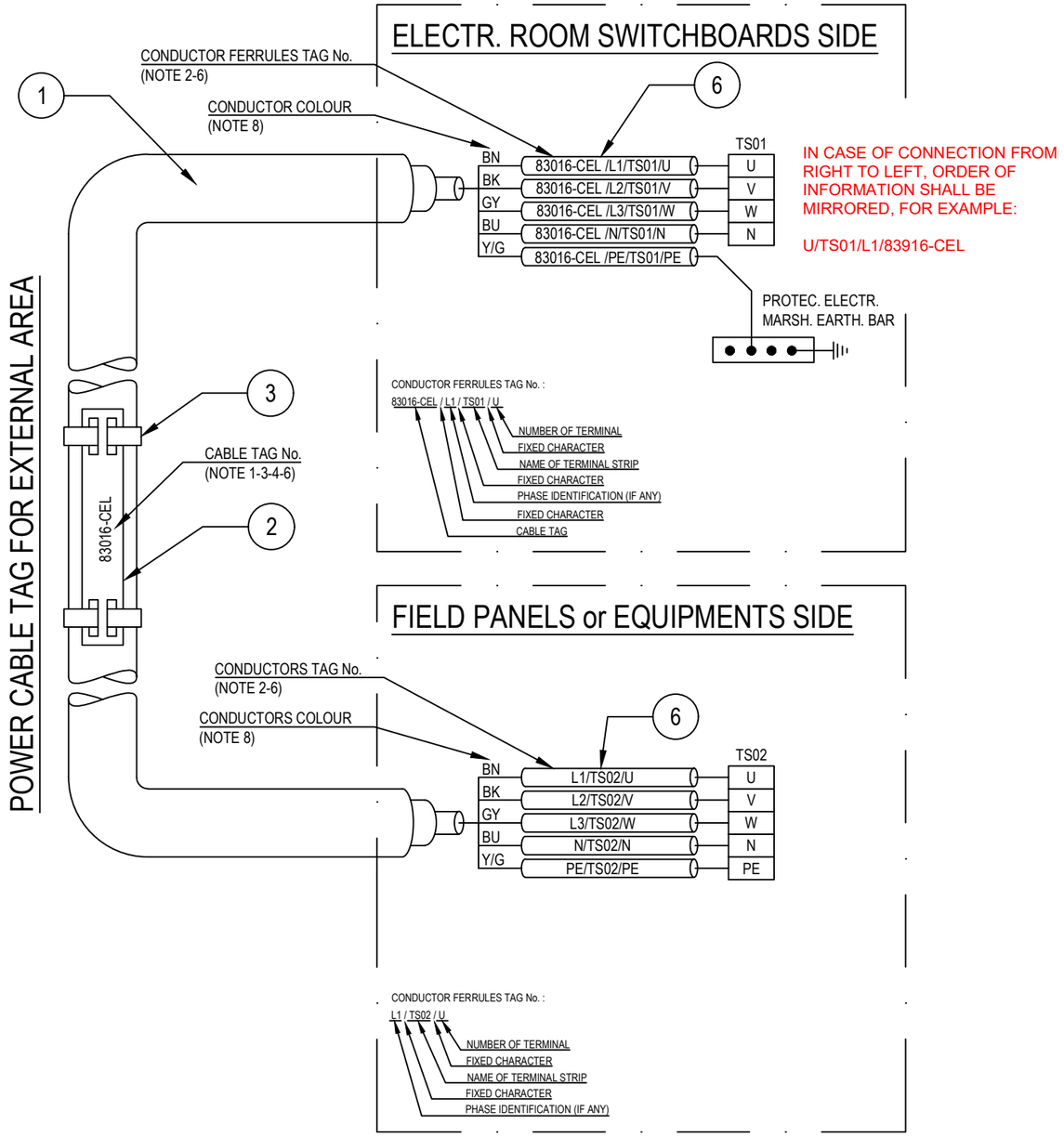
A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND — ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

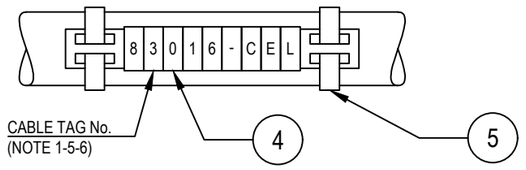
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

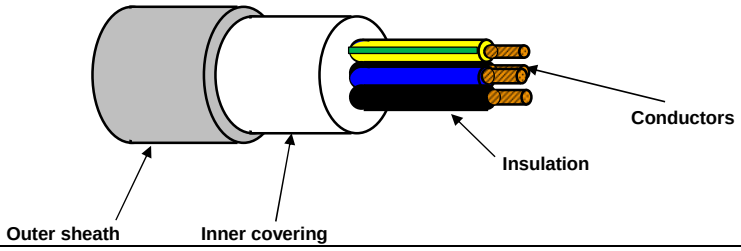
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-12	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-02	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-12	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/E/PR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-087 / L-750-101-LVT-014 / L-300-101-LVT-079 / L-300-101-LVT-080 / L-50-101-LVT-118

ITEM	Tag	P-ELF-200N1-09-L2-19	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000803		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-12 To ELF-200N1-09-L2-19

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	PL
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-19	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000803		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	0,3	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

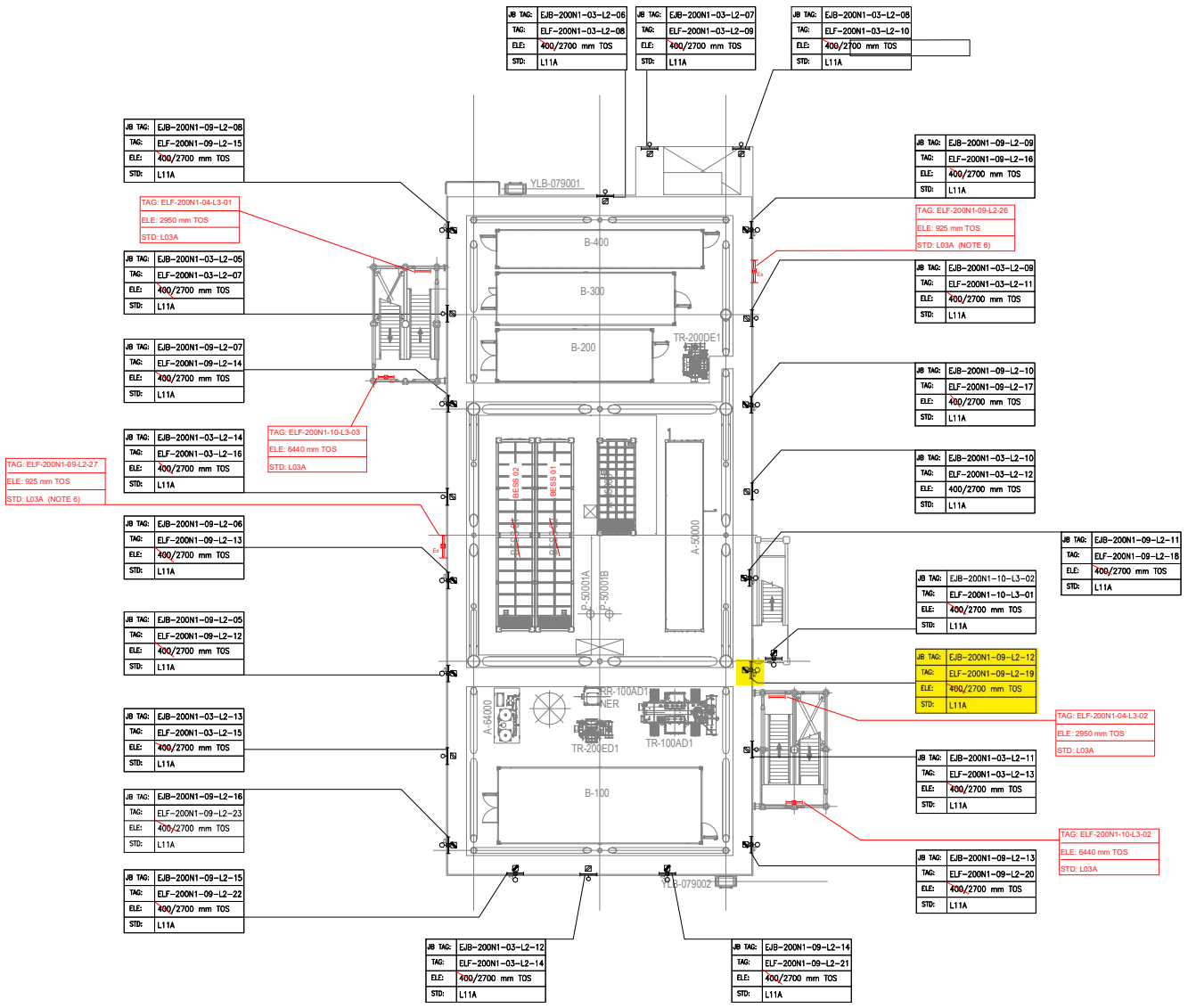
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

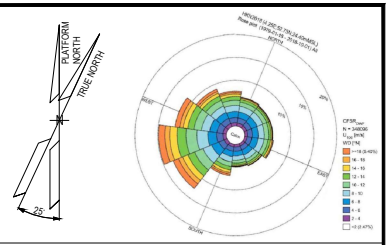
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Luca Mussi	
Date	2024-11-22	2025-01-02	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:21:39.356Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-02T13:35:12.470Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

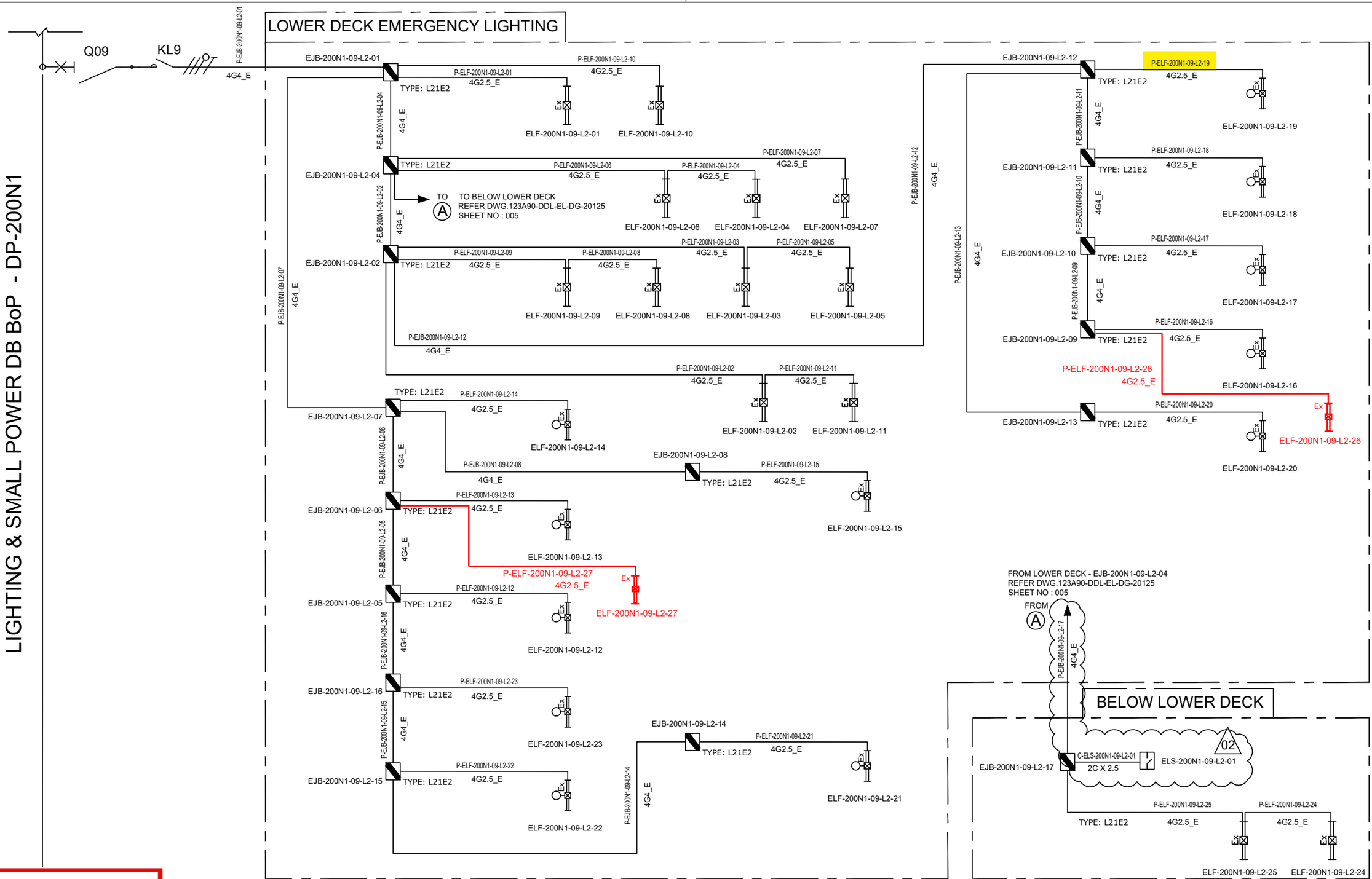
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

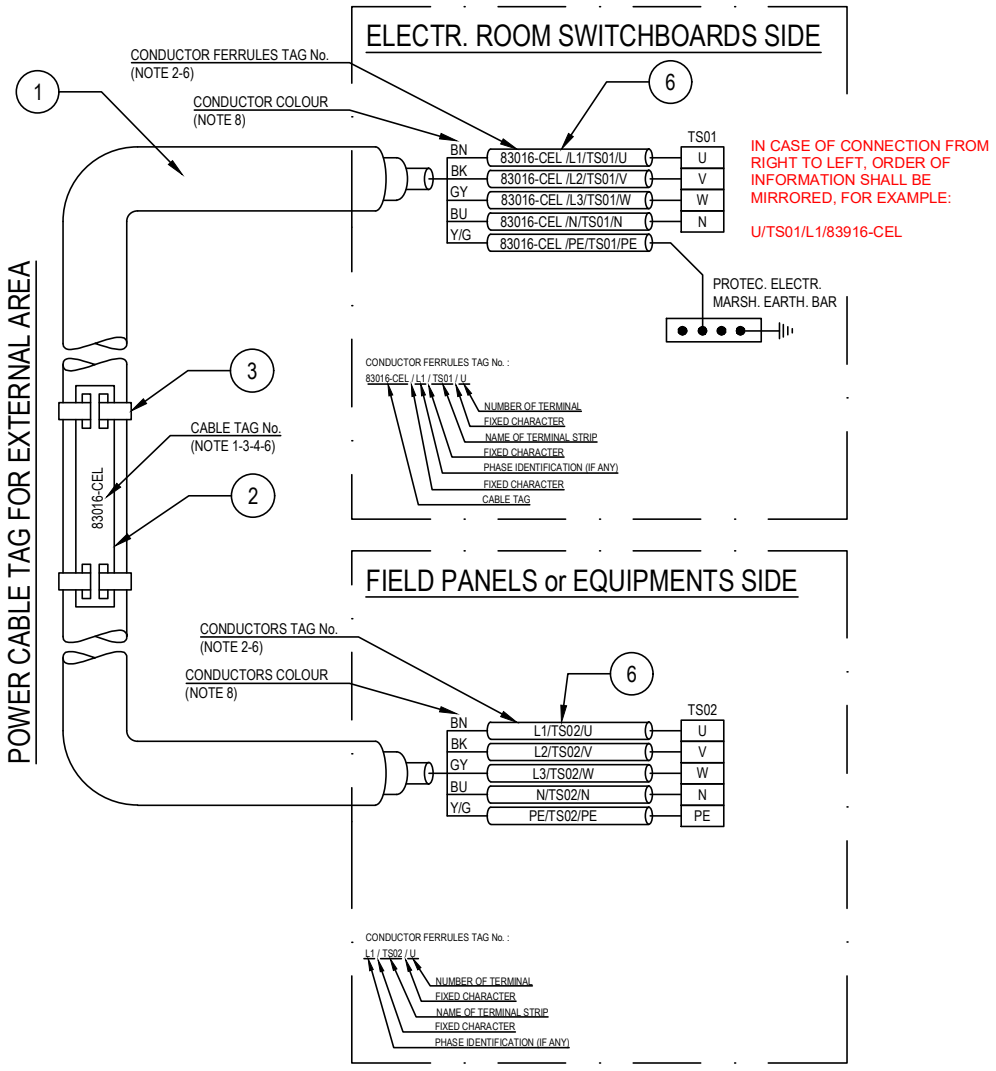
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

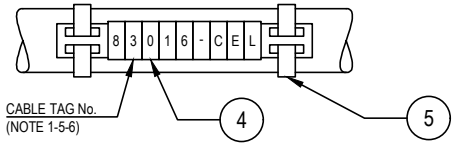
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

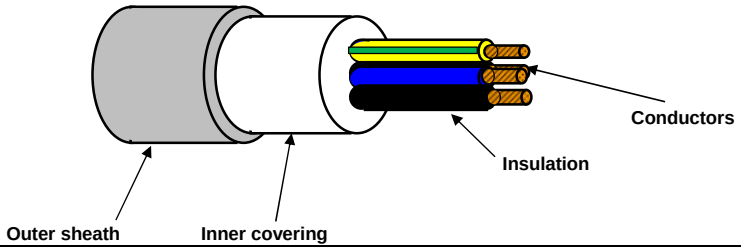
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-19	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-12	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-19	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-118

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-09-L2-13	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000804		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-12 To EJB-200N1-09-L2-13

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-13	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000804		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0.2	
6		PH 2	0.1	
7		PH 3	0.2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

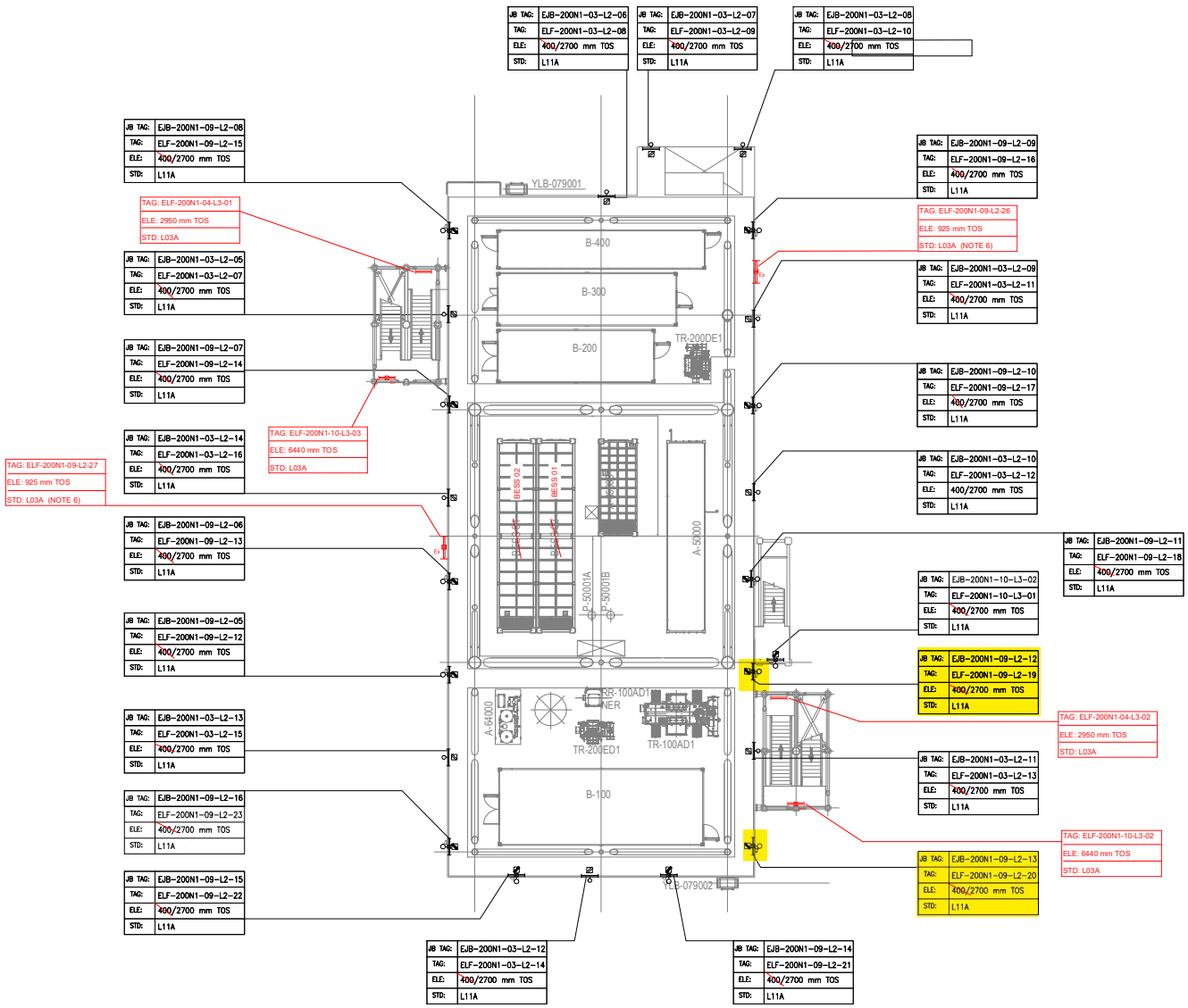
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

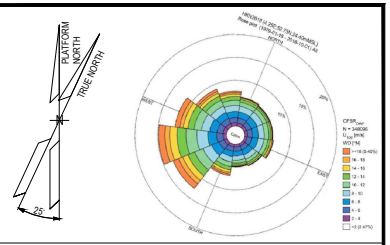
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-11	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:06:12.646Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:24:11.591Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

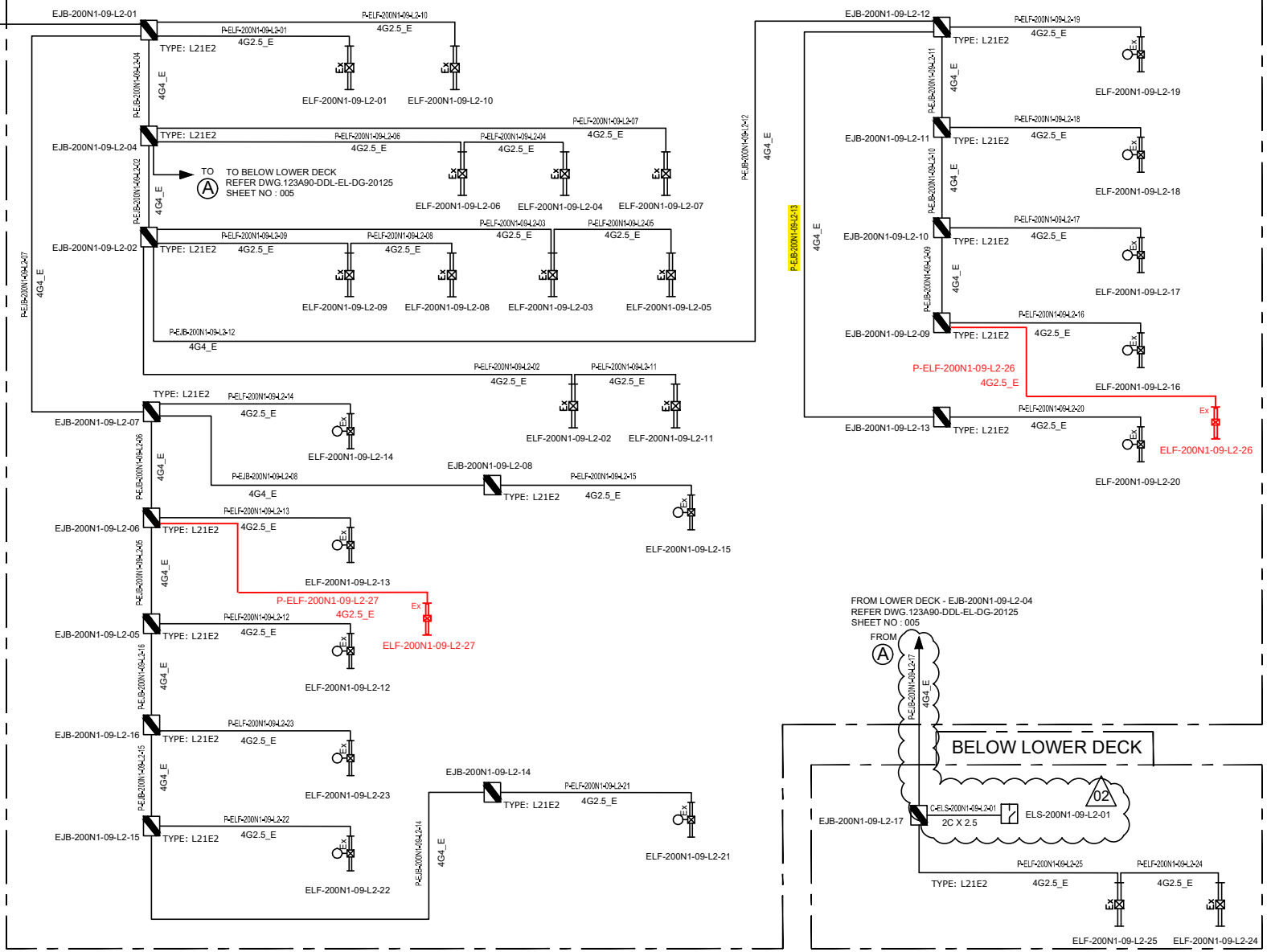
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

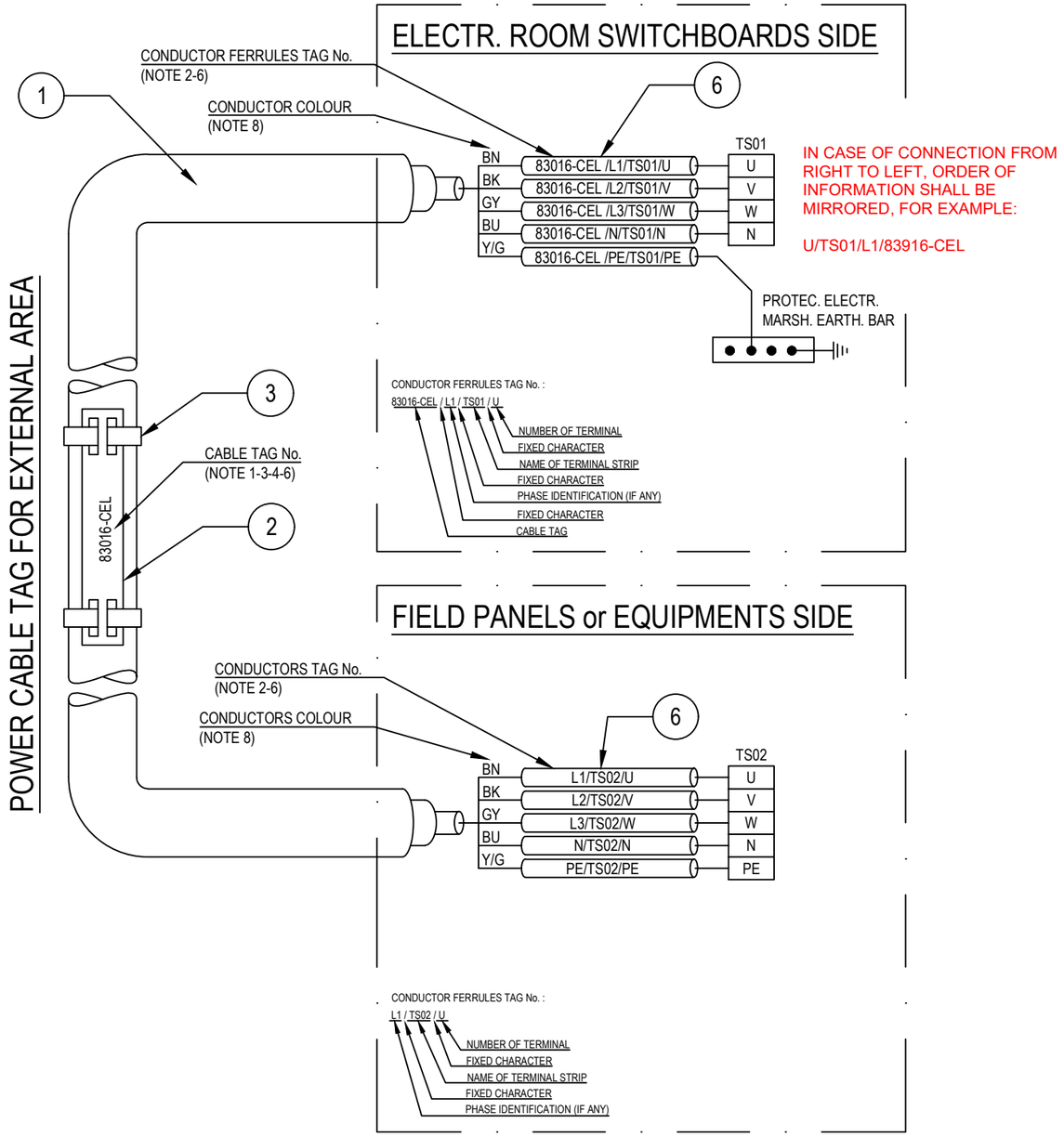
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

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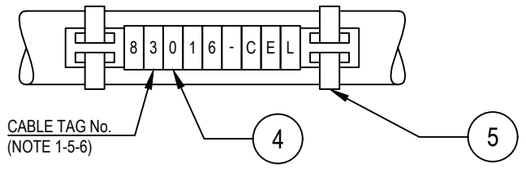
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

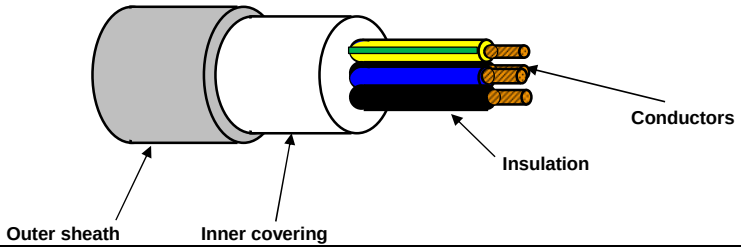
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-13	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-12	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-13	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/E/PR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-118 / L-300-101-LVT-080 / L-150-101-LVT-082 / L-50-101-LVT-120

ITEM	Tag	P-ELF-200N1-09-L2-20	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000805		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-13 To ELF-200N1-09-L2-20

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-20	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000805		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	0,3	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

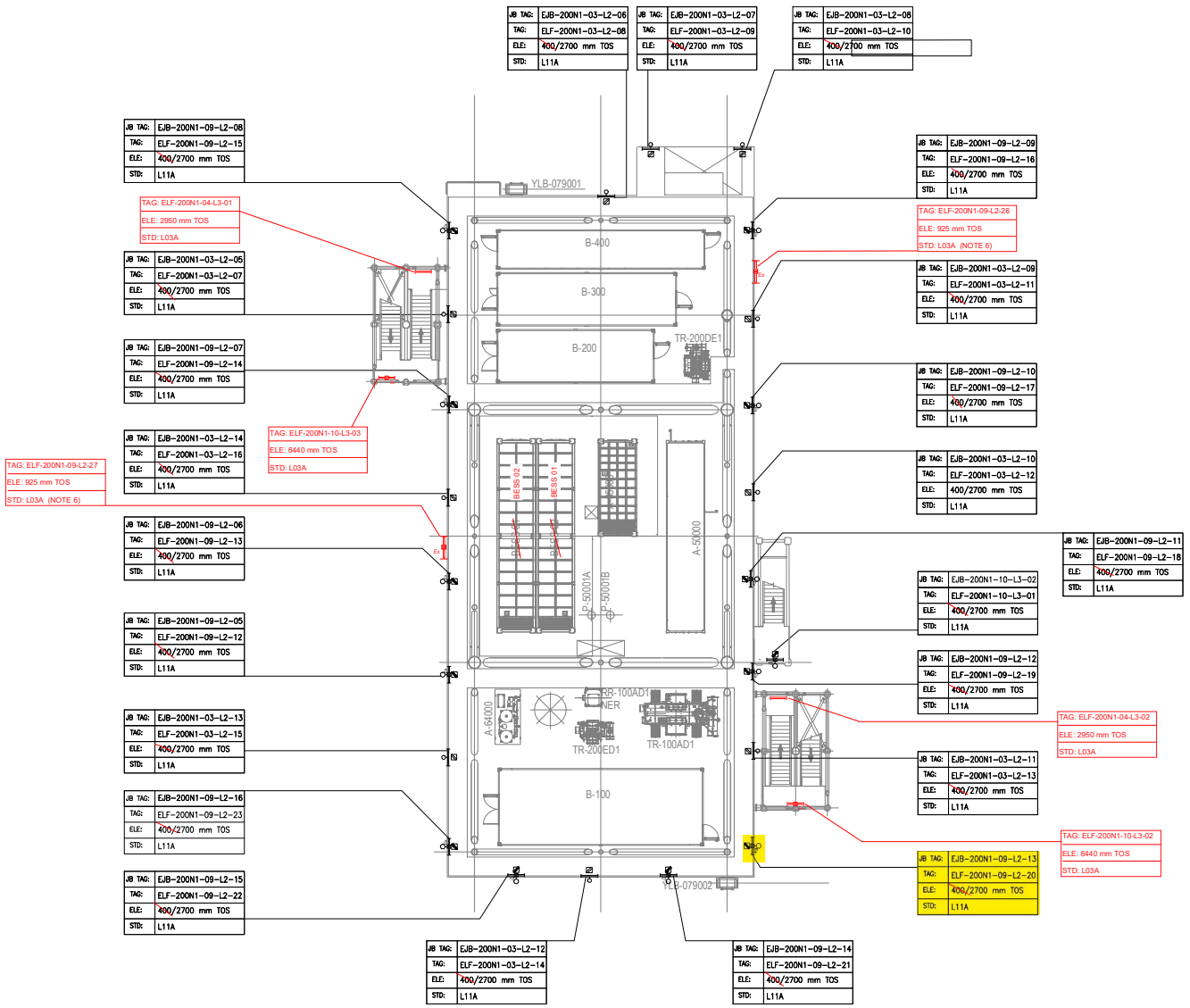
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

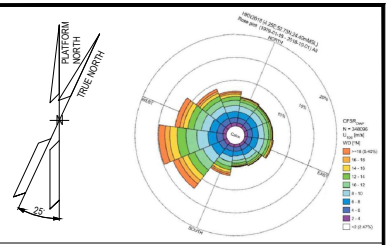
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Luca Mussi	
Date	2024-11-22	2025-01-02	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:21:55.690Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-02T13:29:30.622Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

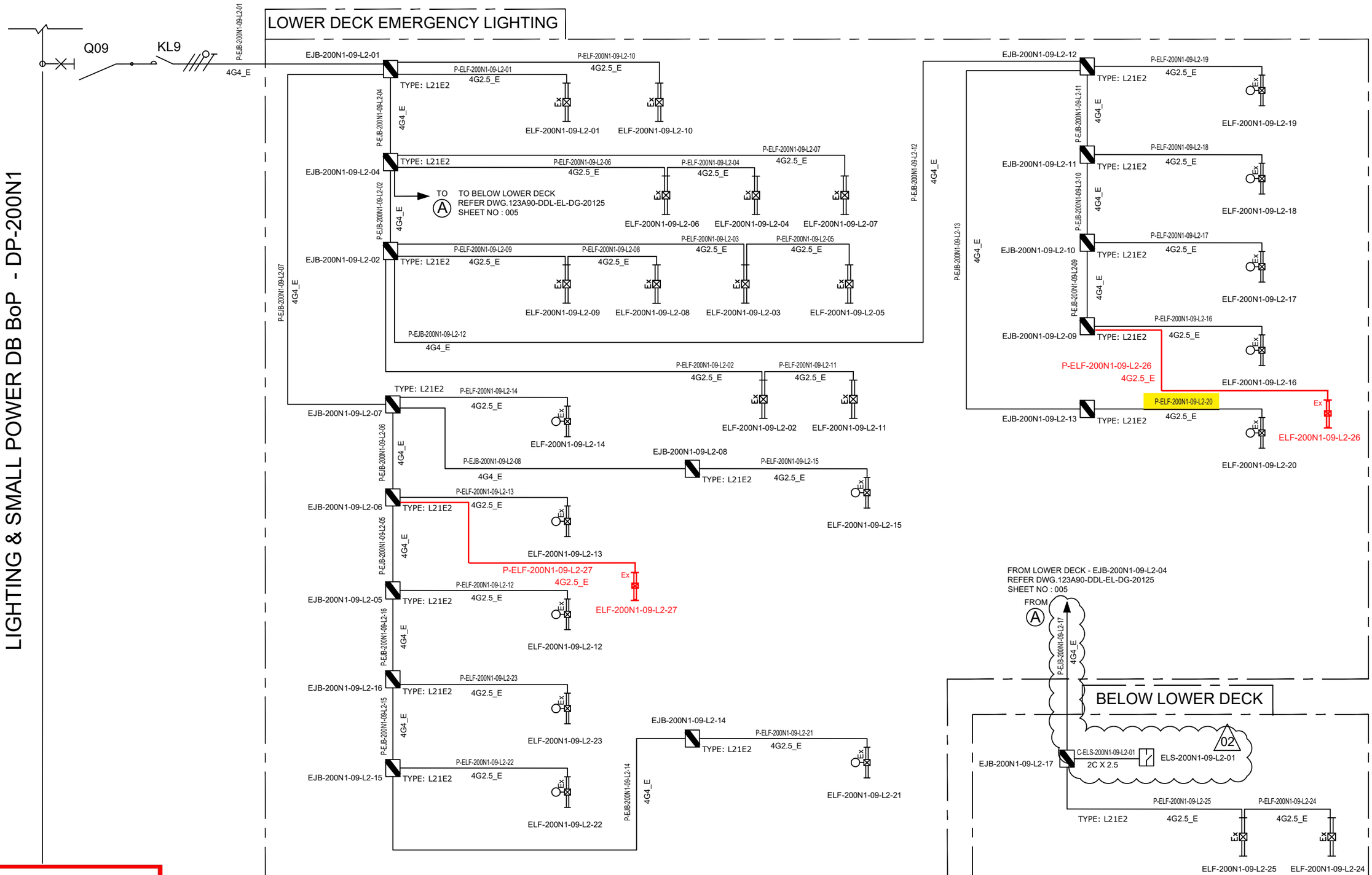
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

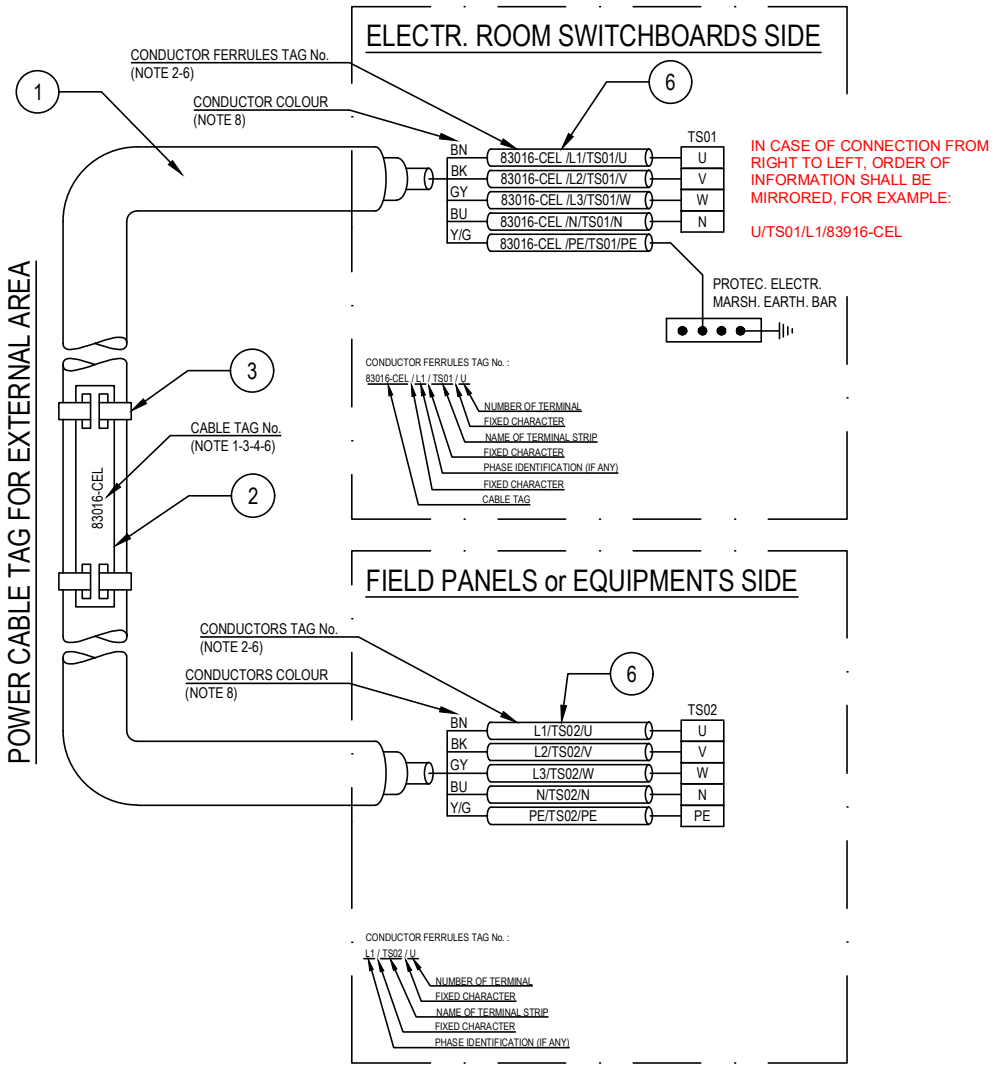
SHEET 005

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

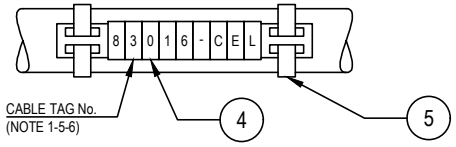
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

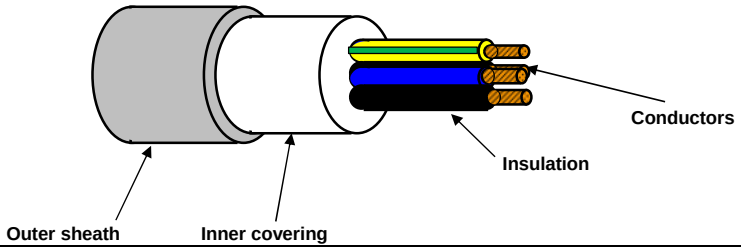
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-20	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-13	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-20	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-120

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-09-L2-14	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000806		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-15 To EJB-200N1-09-L2-14

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-14	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000806		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	0,5	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

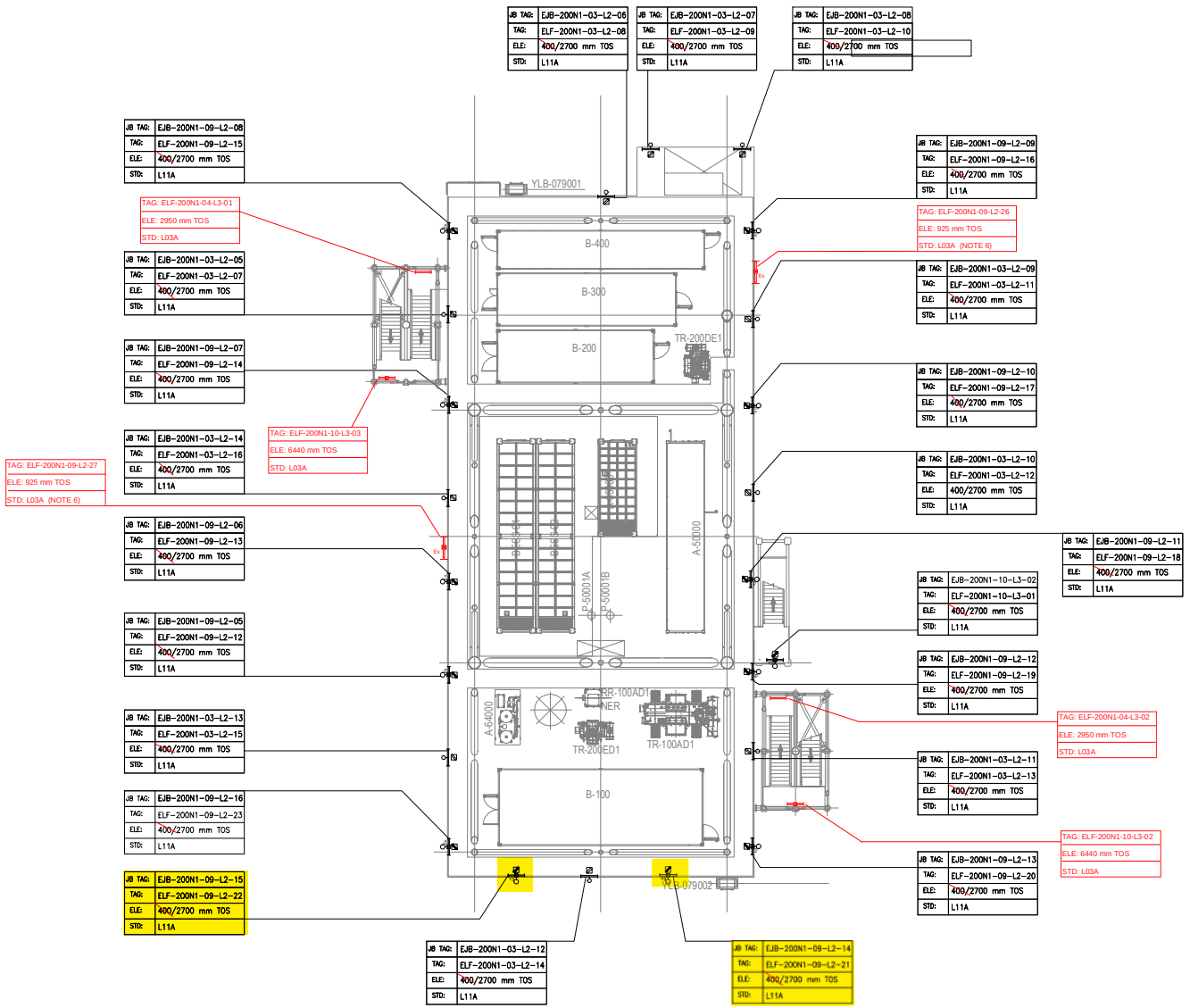
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

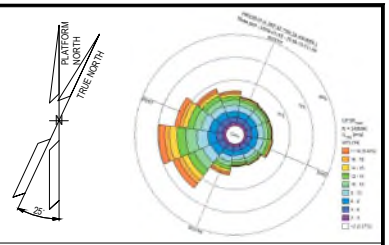
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Andrea Andreani	
Date	2024-11-22	2024-12-12	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:22:06.274Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:33:11.285Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

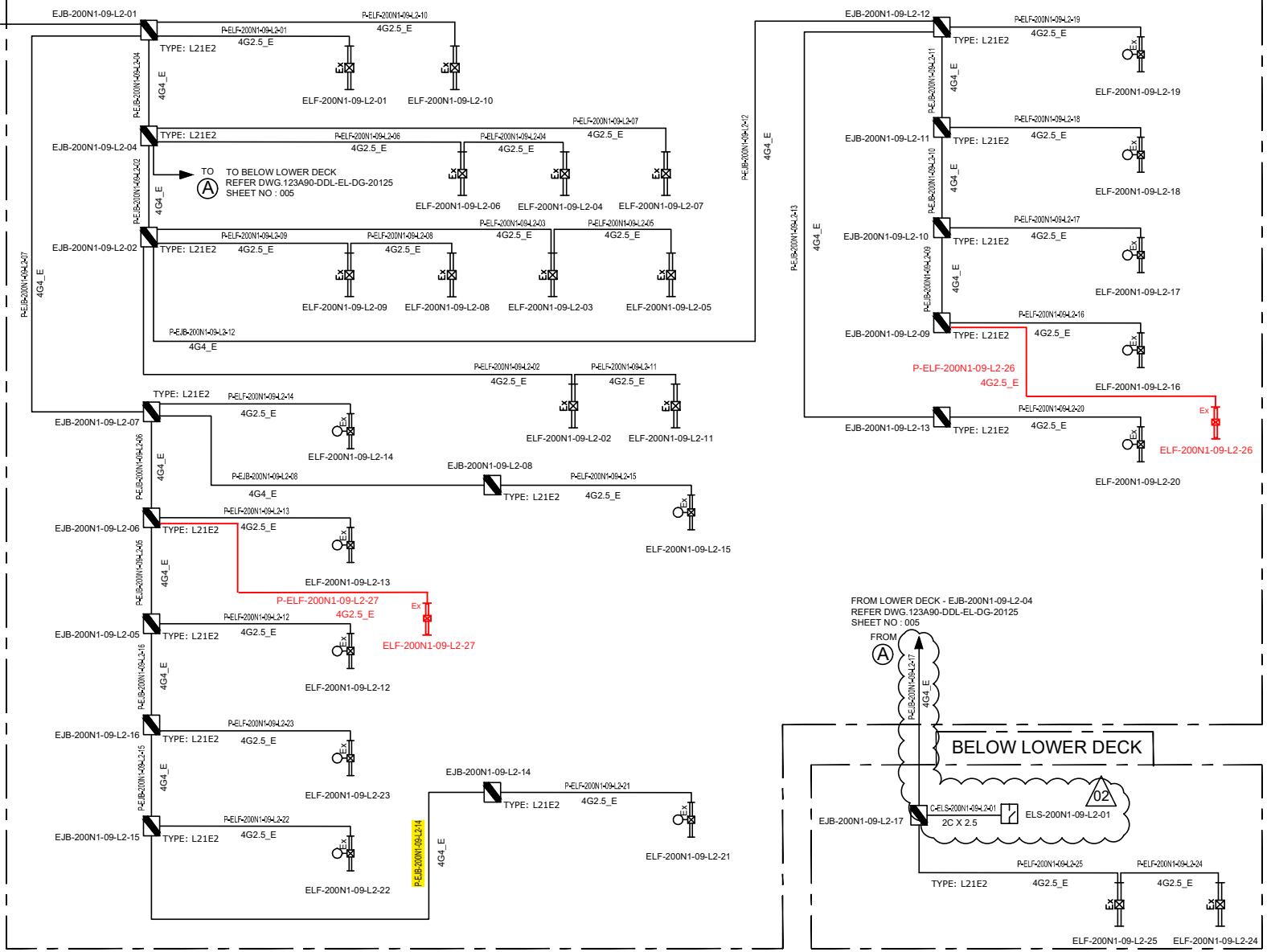
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

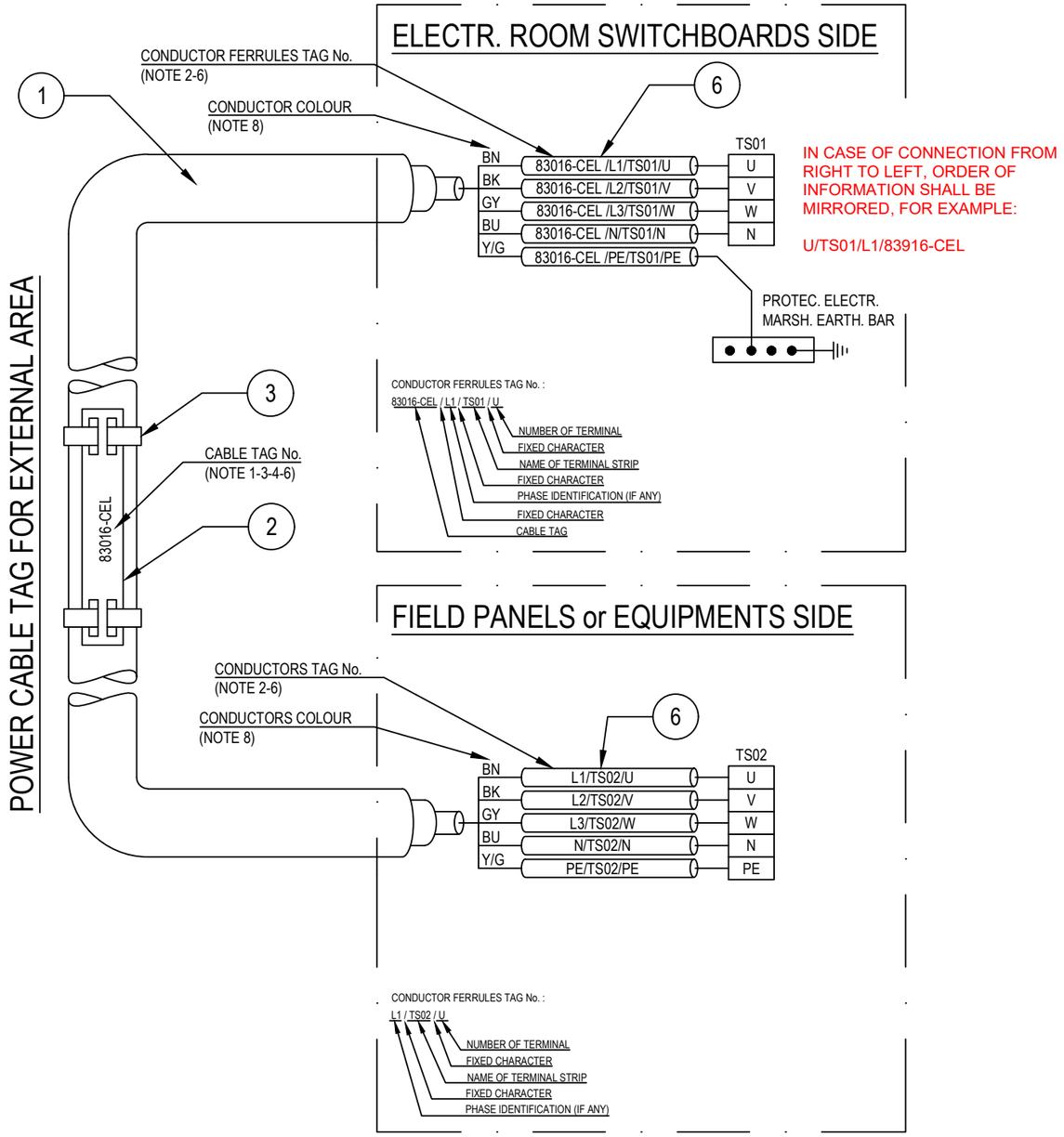
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

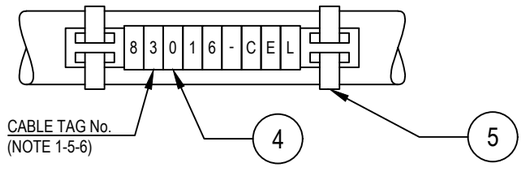
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

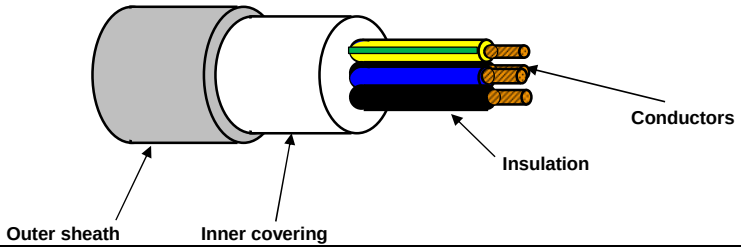
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-14	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-15	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-14	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-132 / L-150-101-LVT-108 / L-150-101-LVT-107 / L-150-101-LVT-085 / L-50-101-LVT-134

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-09-L2-21	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000807		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-14 To ELF-200N1-09-L2-21

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-21	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000807		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,3	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

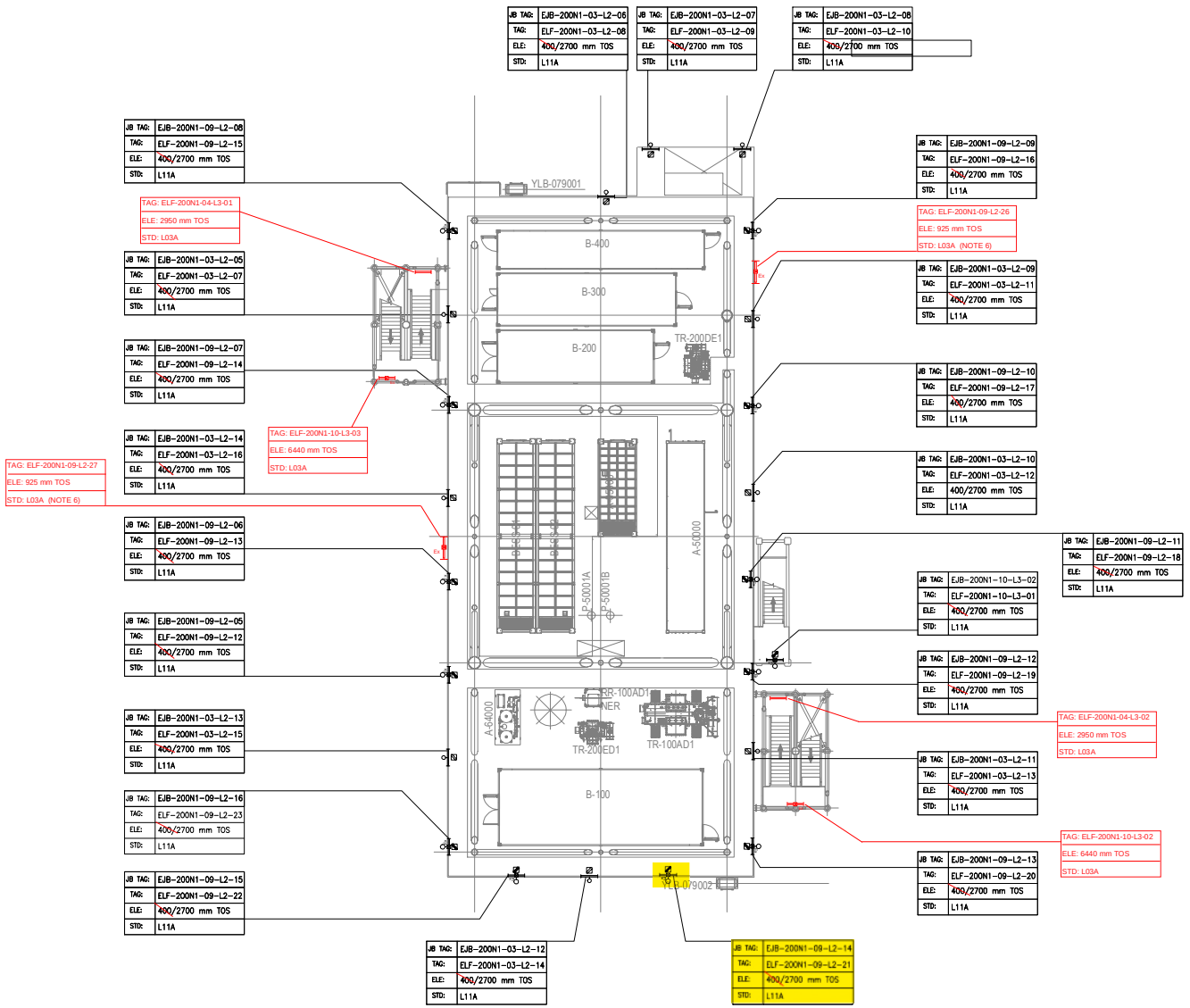
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

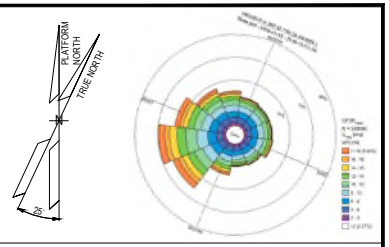
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-11	2024-12-16	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:06:25.082Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-16T16:29:09.493Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

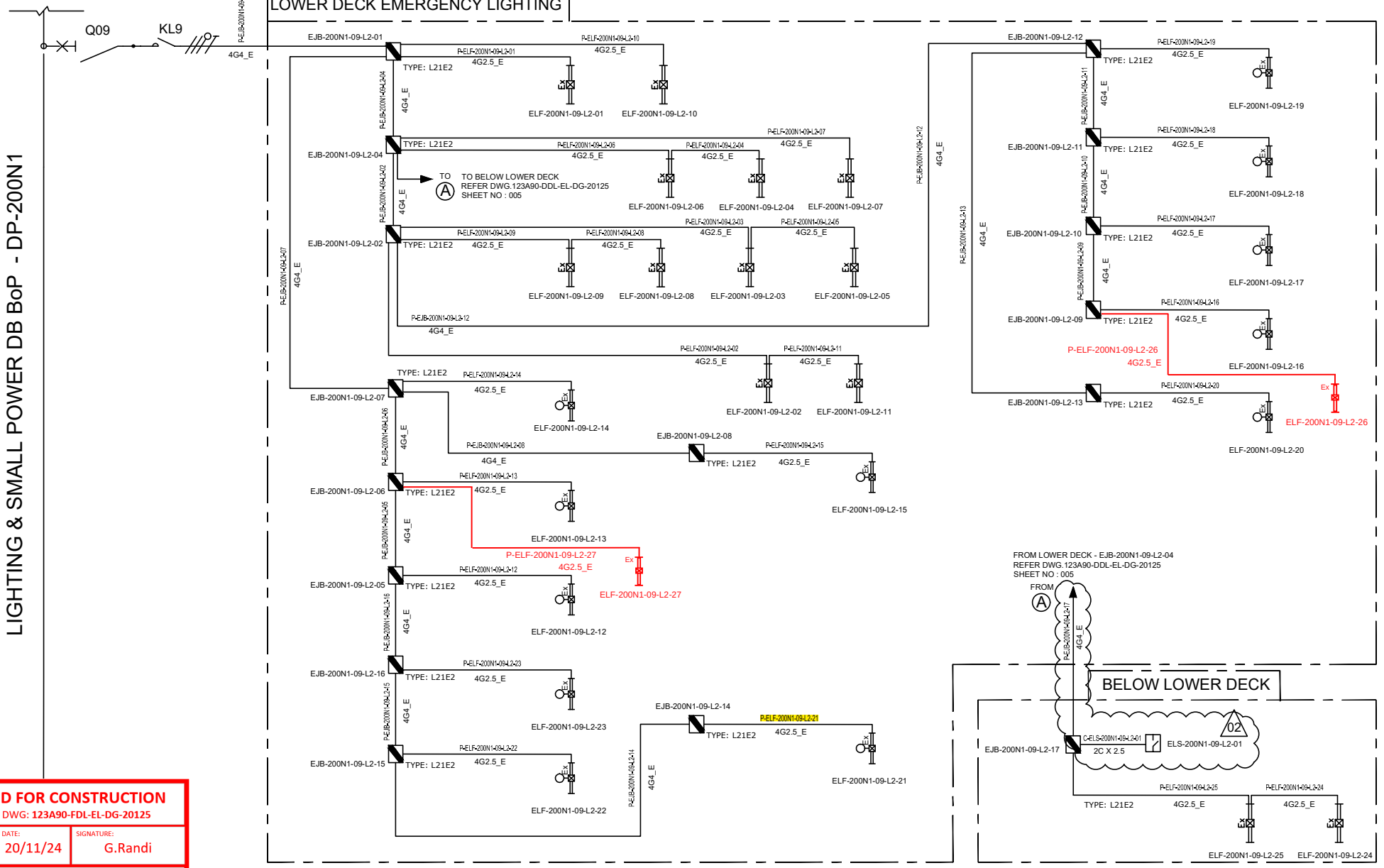
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

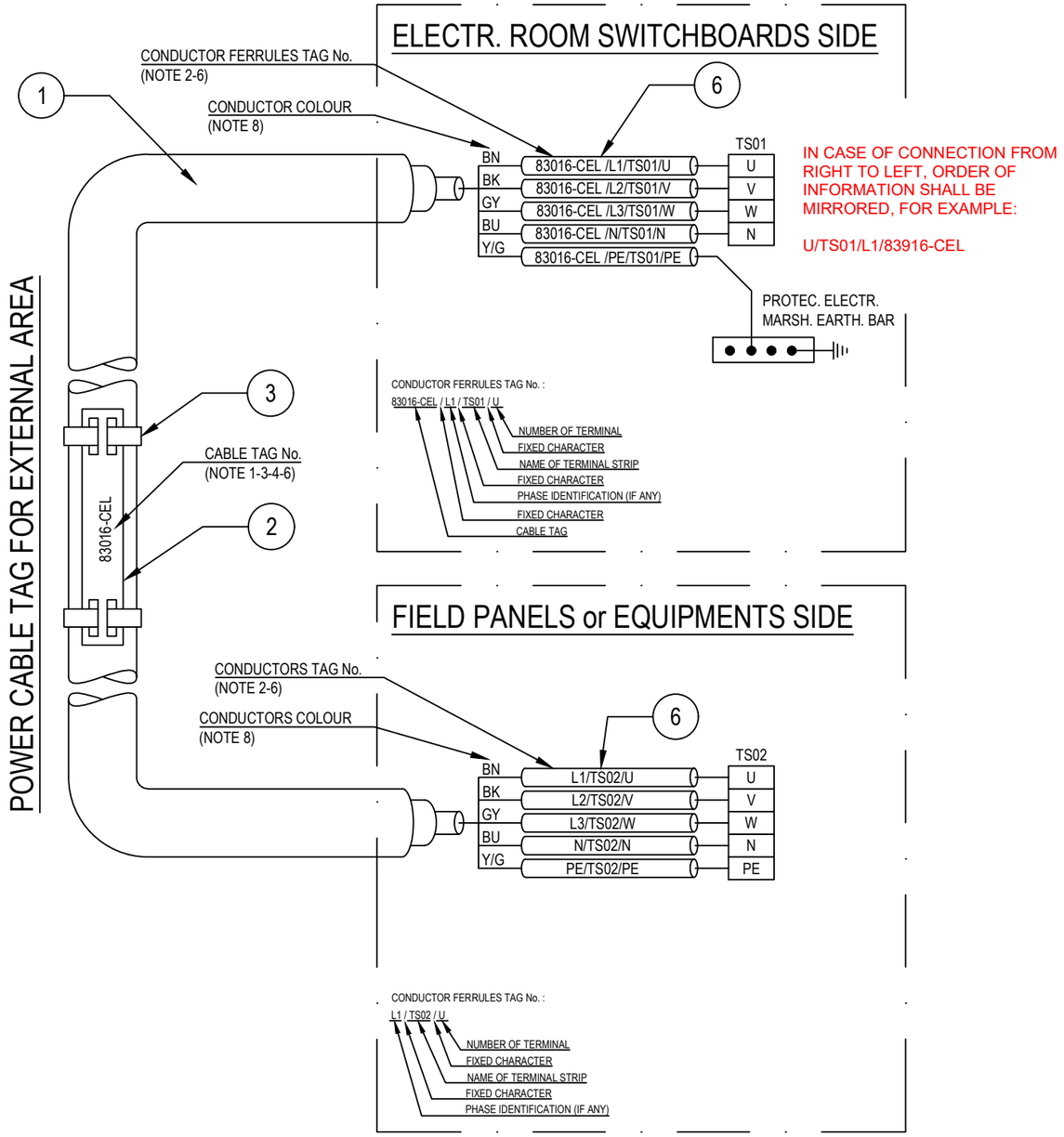
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

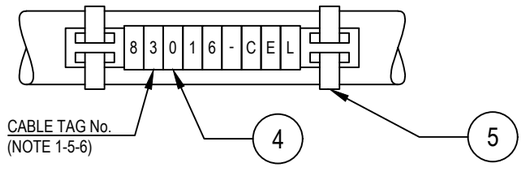
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

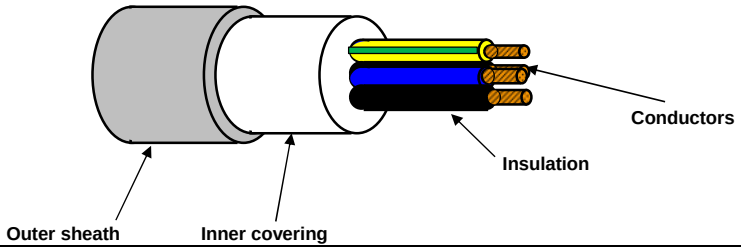
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-21	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-14	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-21	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-134

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-EJB-200N1-09-L2-15	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000808		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-16 To EJB-200N1-09-L2-15

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-EJB-200N1-09-L2-15	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000808		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	0,5	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

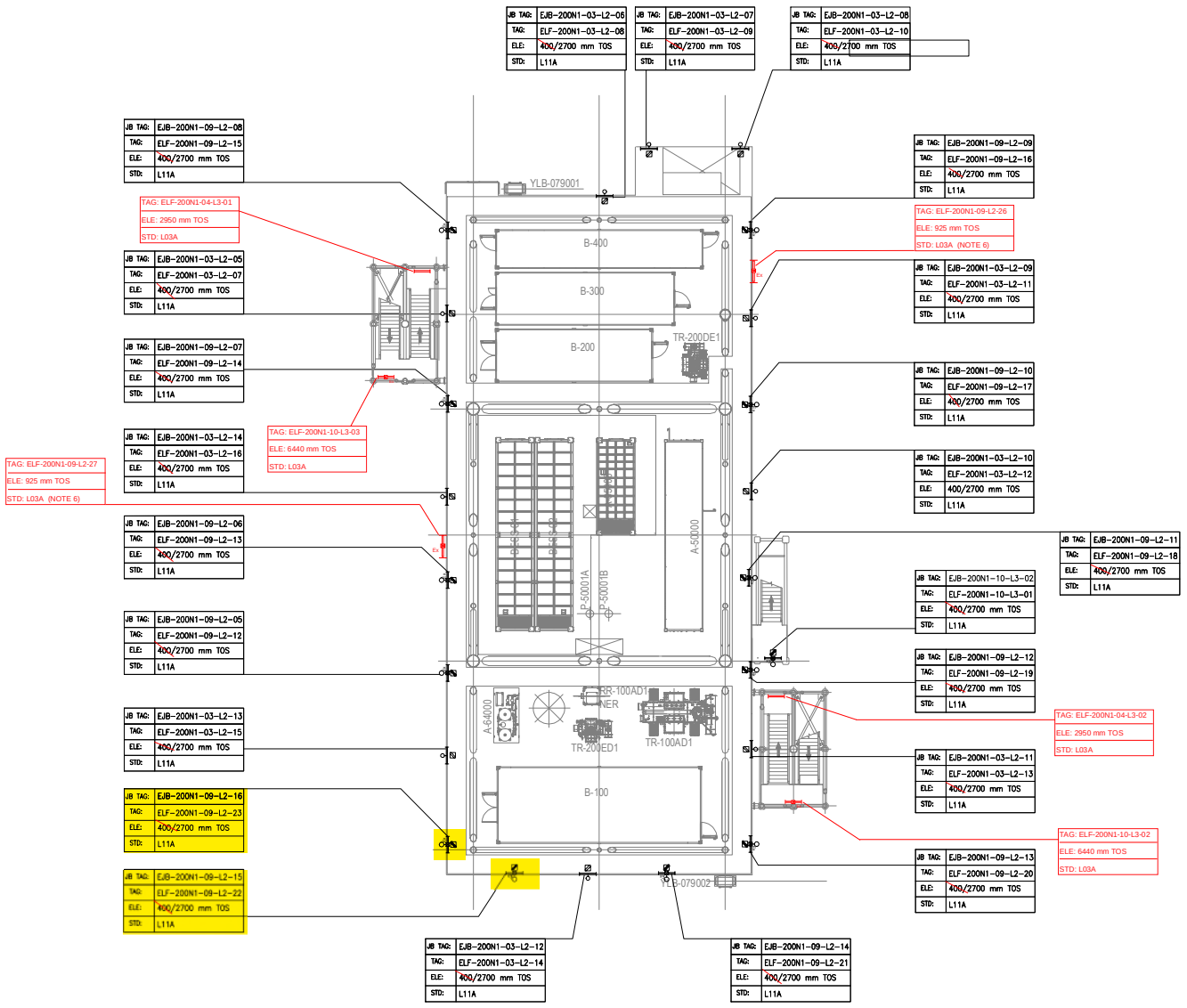
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

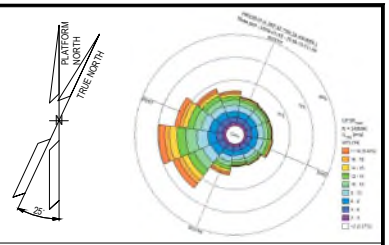
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-12	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-12T12:43:08.707Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:29:27.937Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

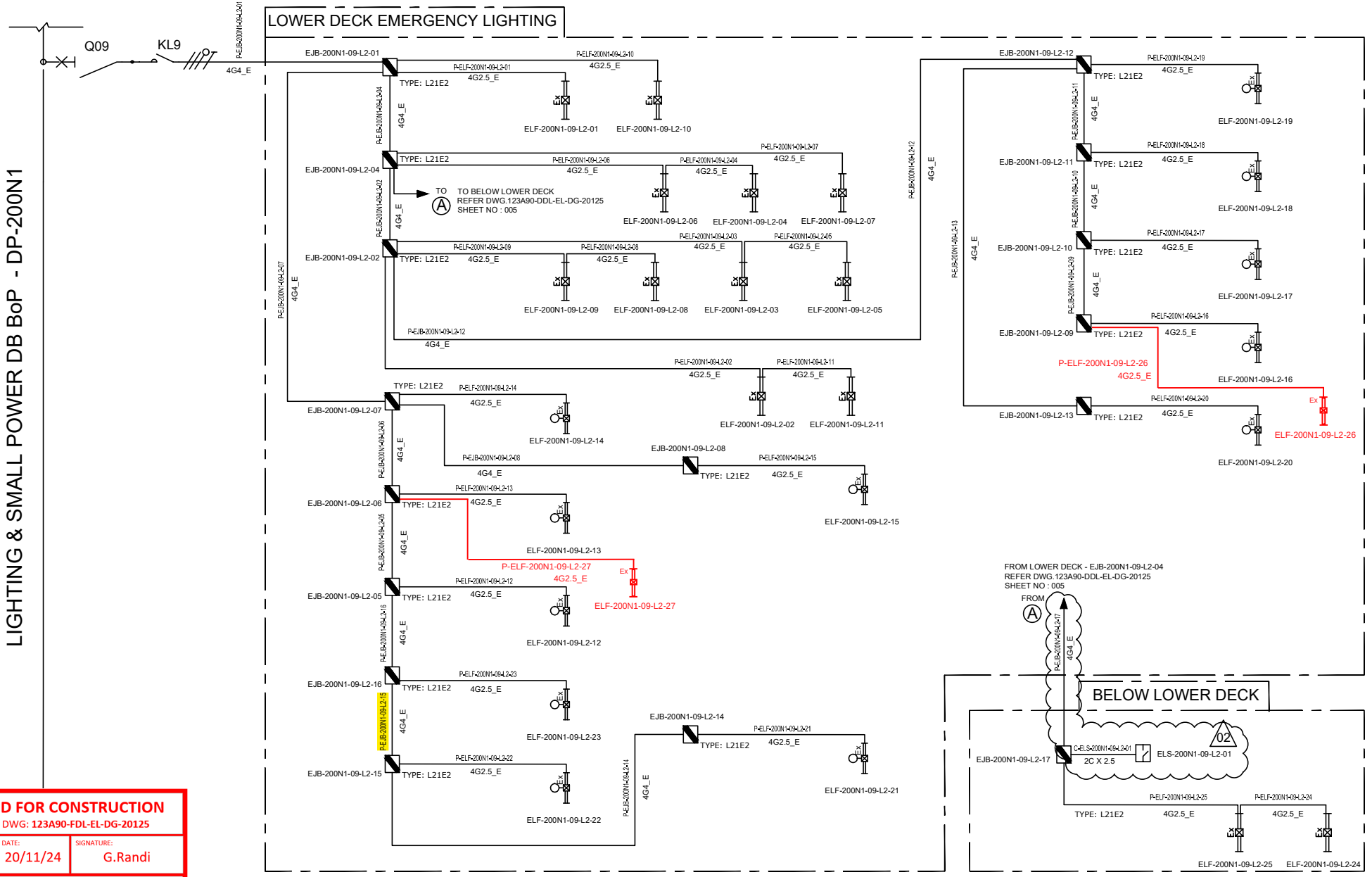
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

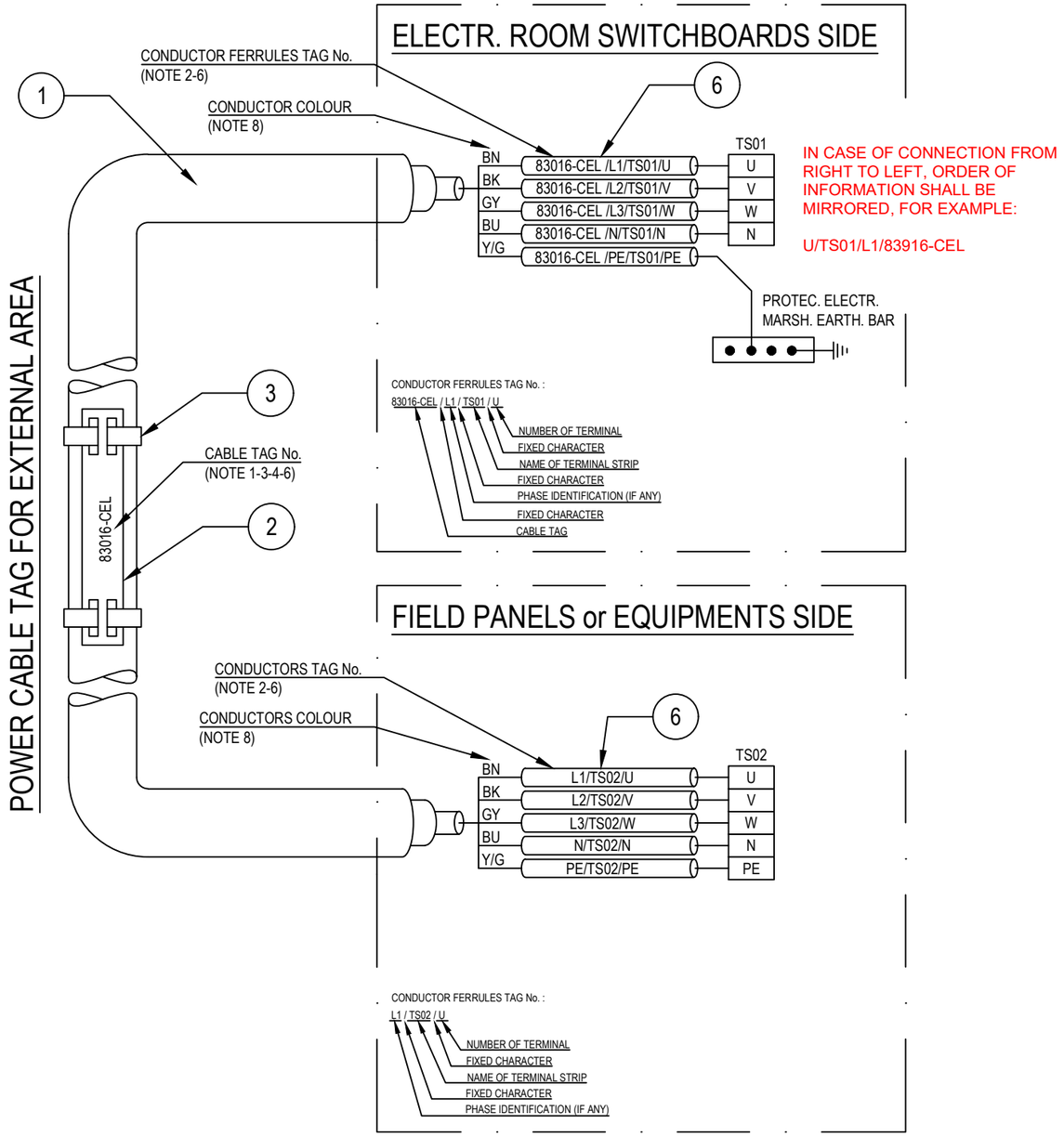
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

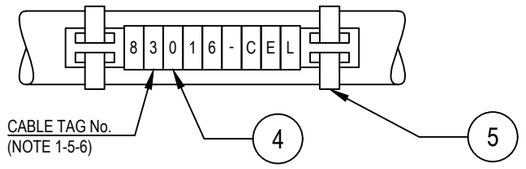
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

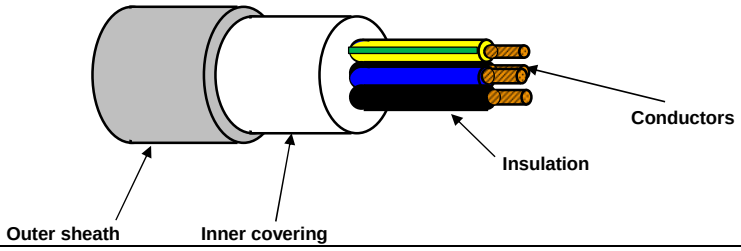
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-15	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-16	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-15	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/E/PR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-121 / L-150-101-LVT-108 / L-50-101-LVT-132

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-22	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000809		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-09-L2-15 | To: ELF-200N1-09-L2-22

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	PL
7	Check gland plate for single core cables is non ferrous (non -magnetic).	OK
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	PL
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-22	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000809		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

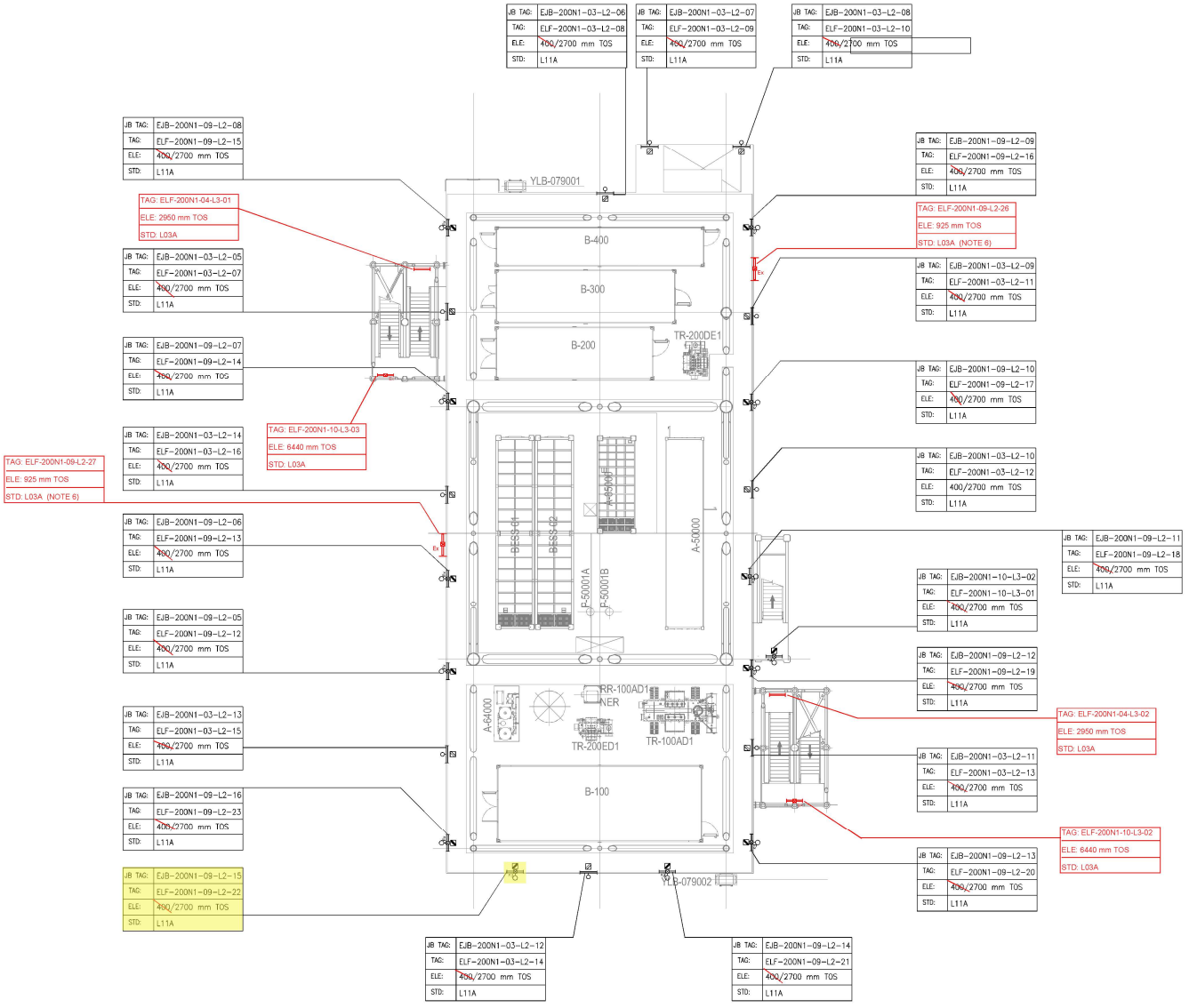
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769)
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

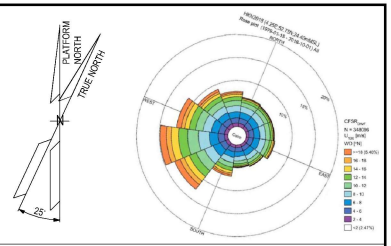
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Giovanni Tangianu	
Date	2024-11-22	2024-12-28	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:22:17.186Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2024-12-28T07:29:57.720Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 80W LED EMERGENCY LUMINARIES
- 80W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

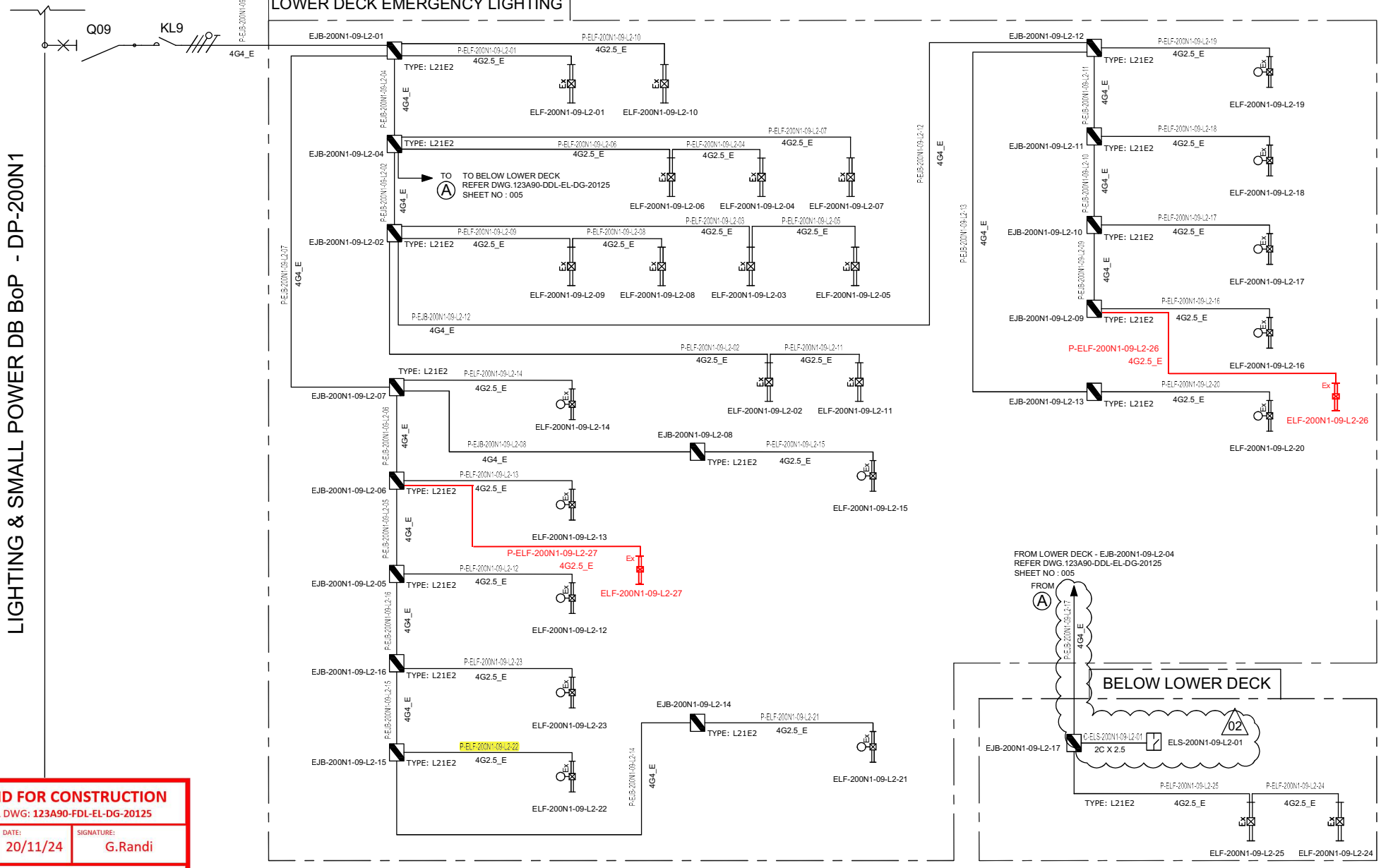
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

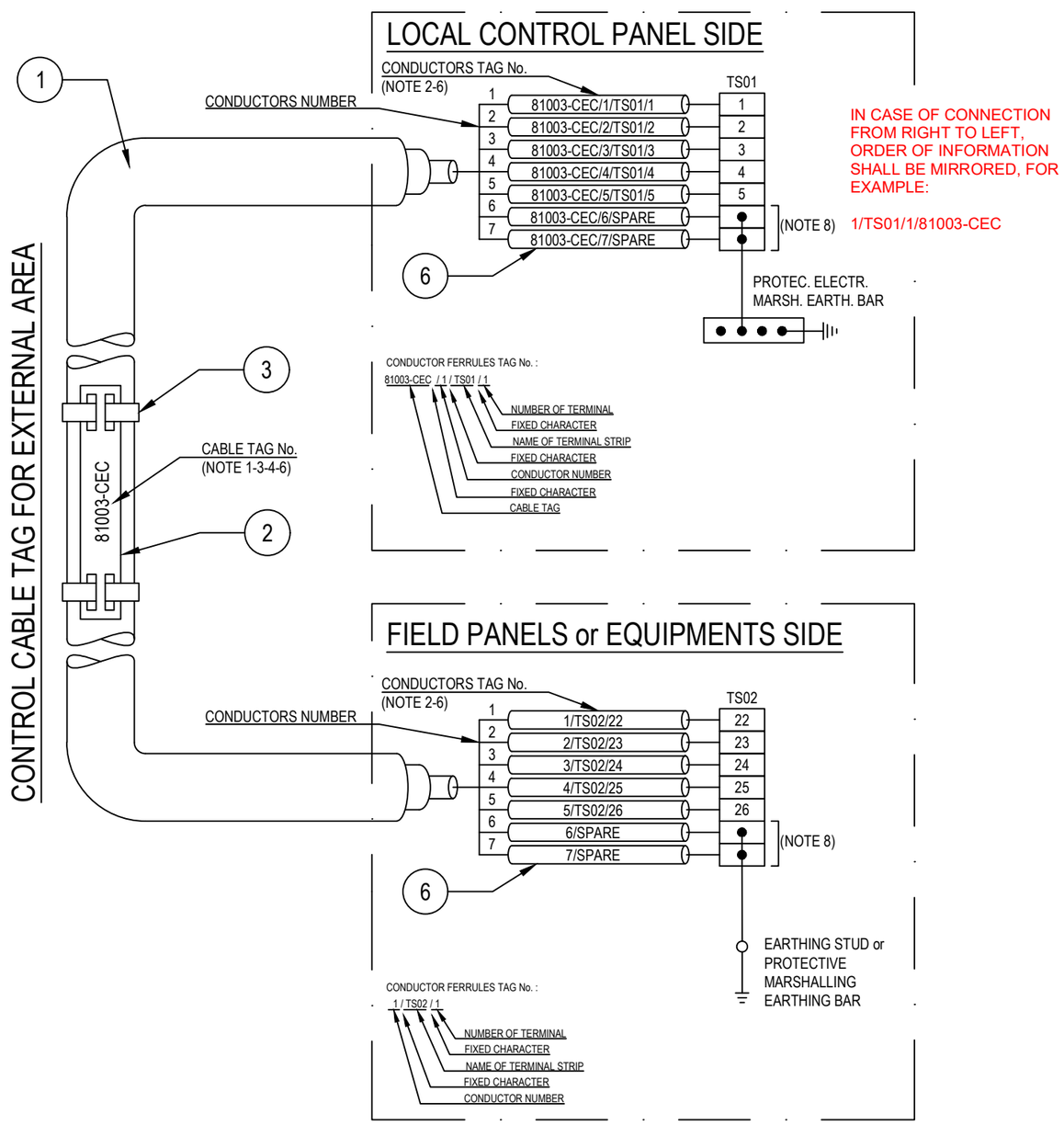
CROSSWIND

ROSETTI MARINO

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

C04



IN CASE OF CONNECTION FROM RIGHT TO LEFT, ORDER OF INFORMATION SHALL BE MIRRORED, FOR EXAMPLE:

1/TS01/1/81003-CEC

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 50 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

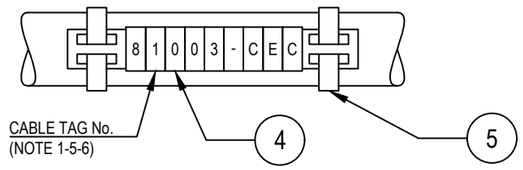
5) THE CABLE TAG FOR INTERNAL AREA SHAL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) THE EARTHING CONNECTION OF THE ARMOUR CABLE IS NOT APPLICABILE IF THE ARMOUR IS CONNECTED TO EARTH WITH METALLIC CABLE GLAND.
WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH RING
- EARTHING BOSS AND EARTH RING
- EARTH BAR AND EARTH BAR (IF ANY).

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

CONTROL CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20092

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR CONTROL CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 008 | REV. 02

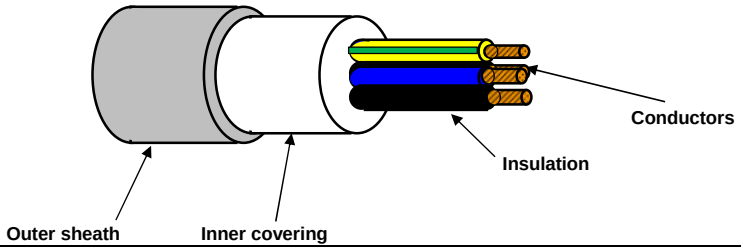
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-22	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-15	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-22	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G2,5mm², E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-132

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-EJB-200N1-09-L2-16	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000810		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-05 To EJB-200N1-09-L2-16

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-EJB-200N1-09-L2-16	: Emergency Lighting JB / Normal Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000810		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0.3	
6		PH 2	0.2	
7		PH 3	0.2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0.2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

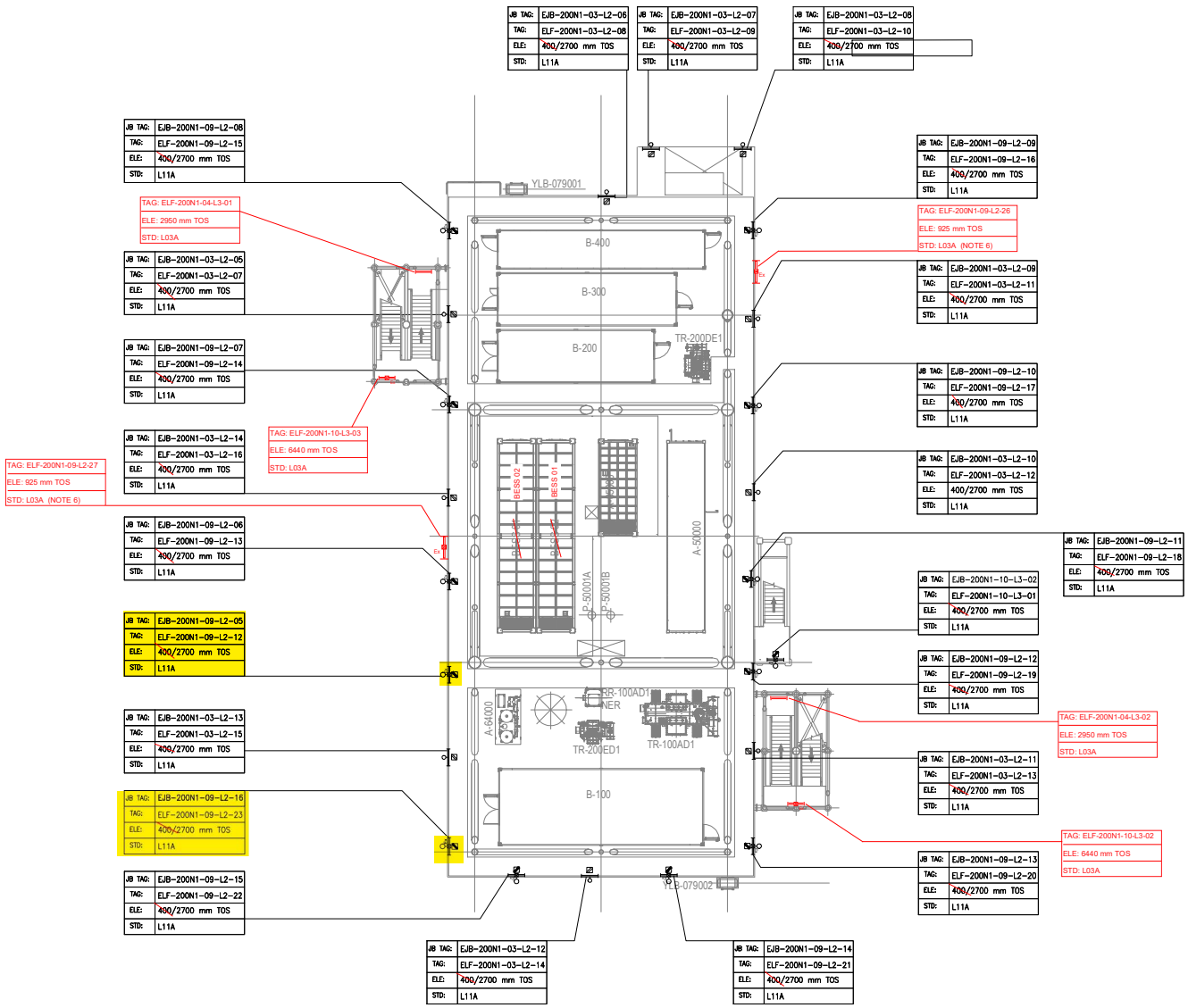
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

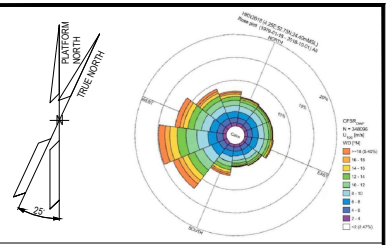
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-11	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:06:43.921Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-13T13:29:56.373Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

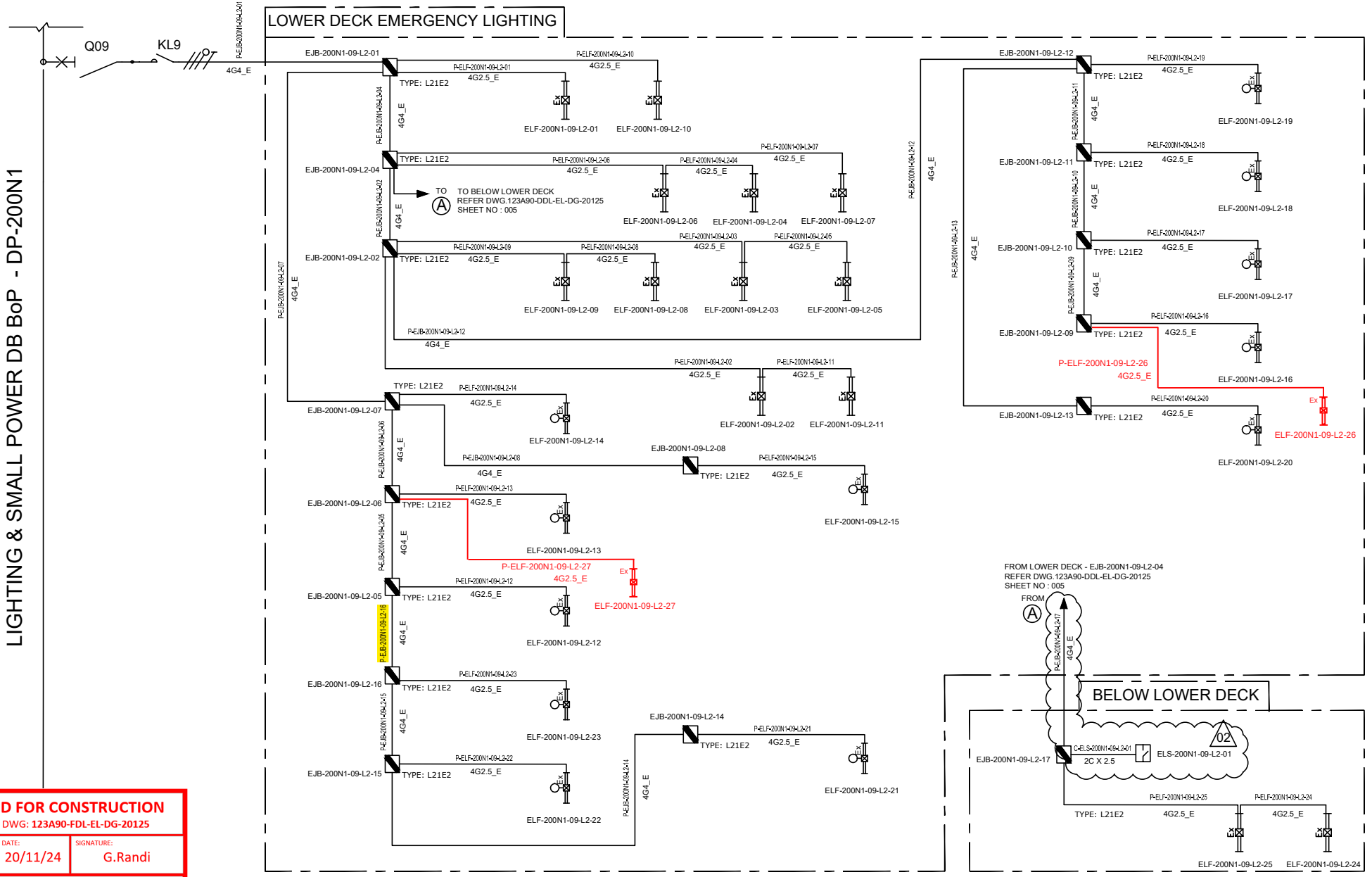
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

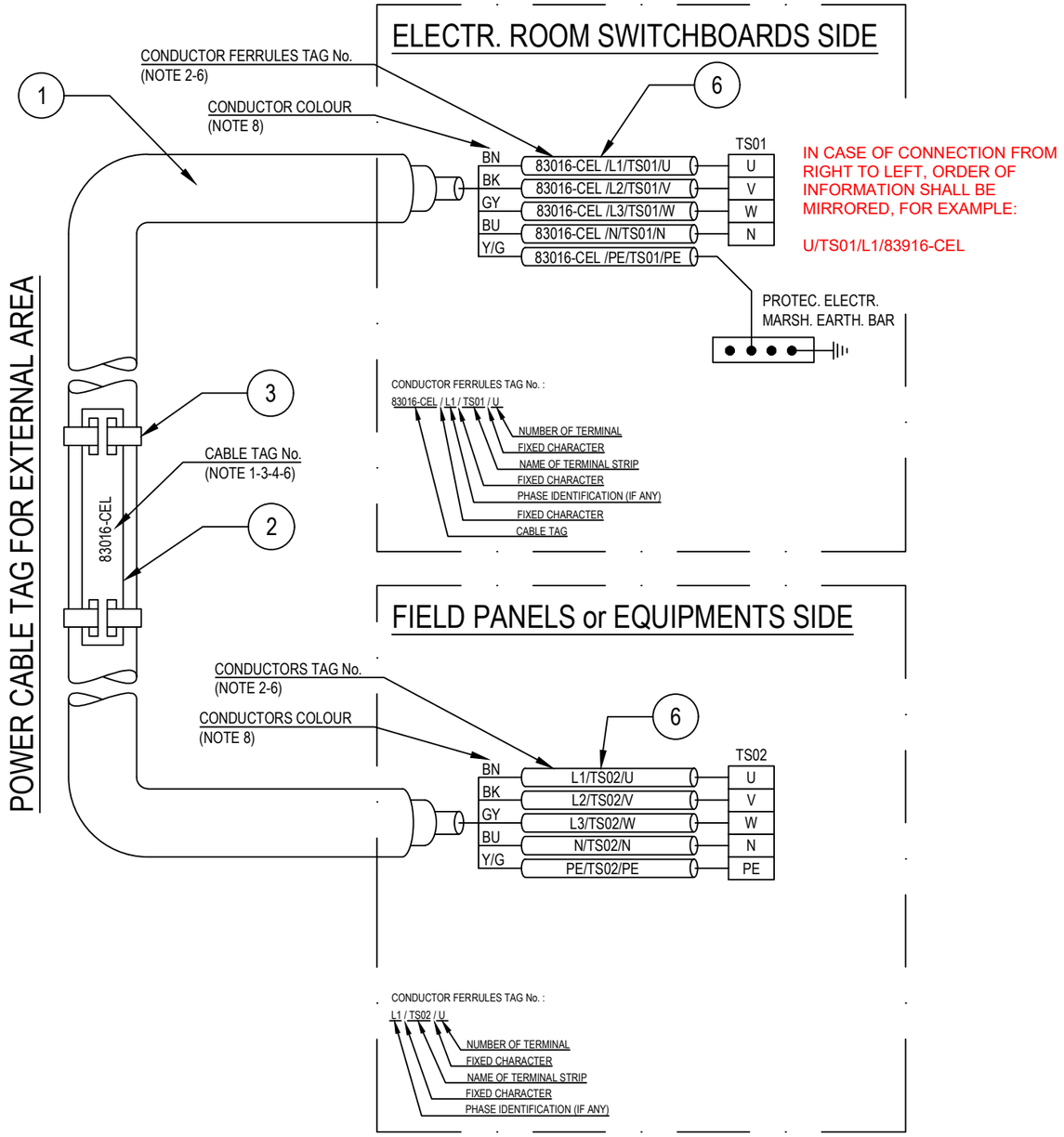
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

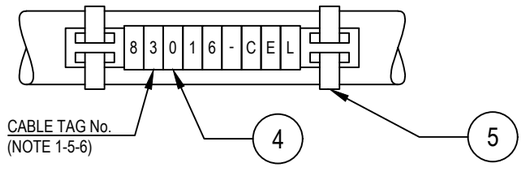
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

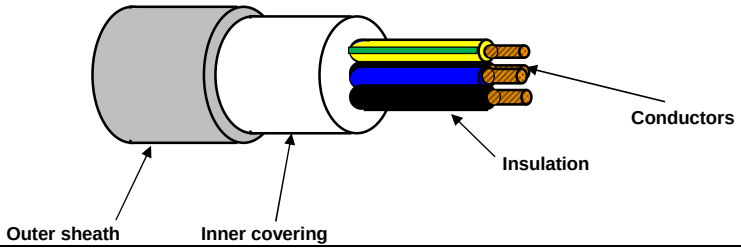
A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DD-20092	007	02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-16	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-05	Emergency Lighting JB	Lower Deck		EJB-200N1-09-L2-16	Emergency Lighting JB	Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-101-LVT-123 / L-150-101-LVT-108 / L-50-101-LVT-121

ITEM	Tag	P-ELF-200N1-09-L2-23	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000811		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-16 To ELF-200N1-09-L2-23

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	PL
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-23	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10000811		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,5	
6		PH 2	0,5	
7		PH 3	0,5	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,5	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

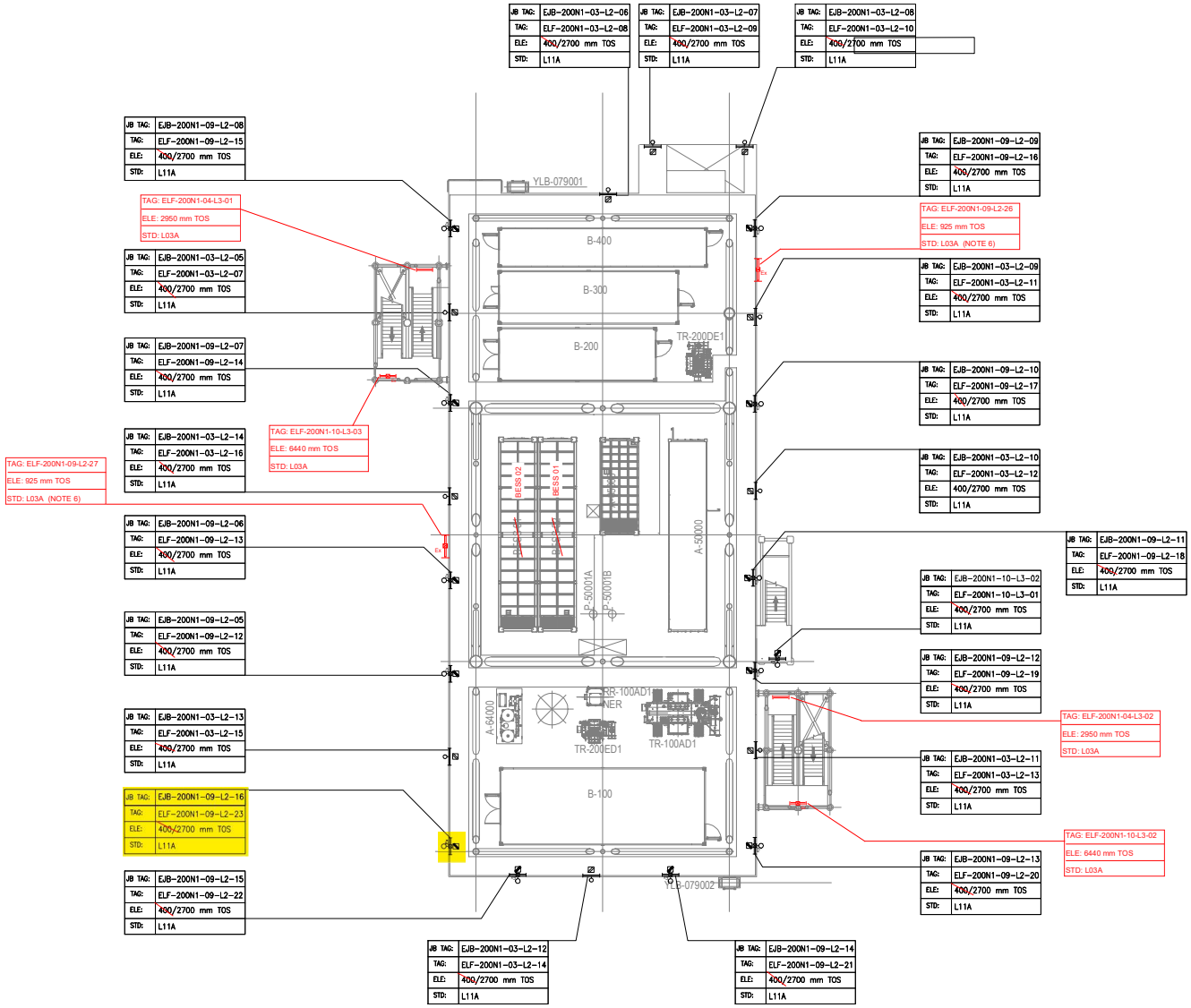
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETER: FLUKE 175 SERIAL:AW1/018(17140769
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	N°7715/24 _ 10/07/2024

Comments: Nota 4: refer to PL C30000679

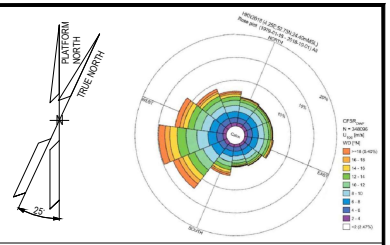
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:08:12.680Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-13T13:52:00.450Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

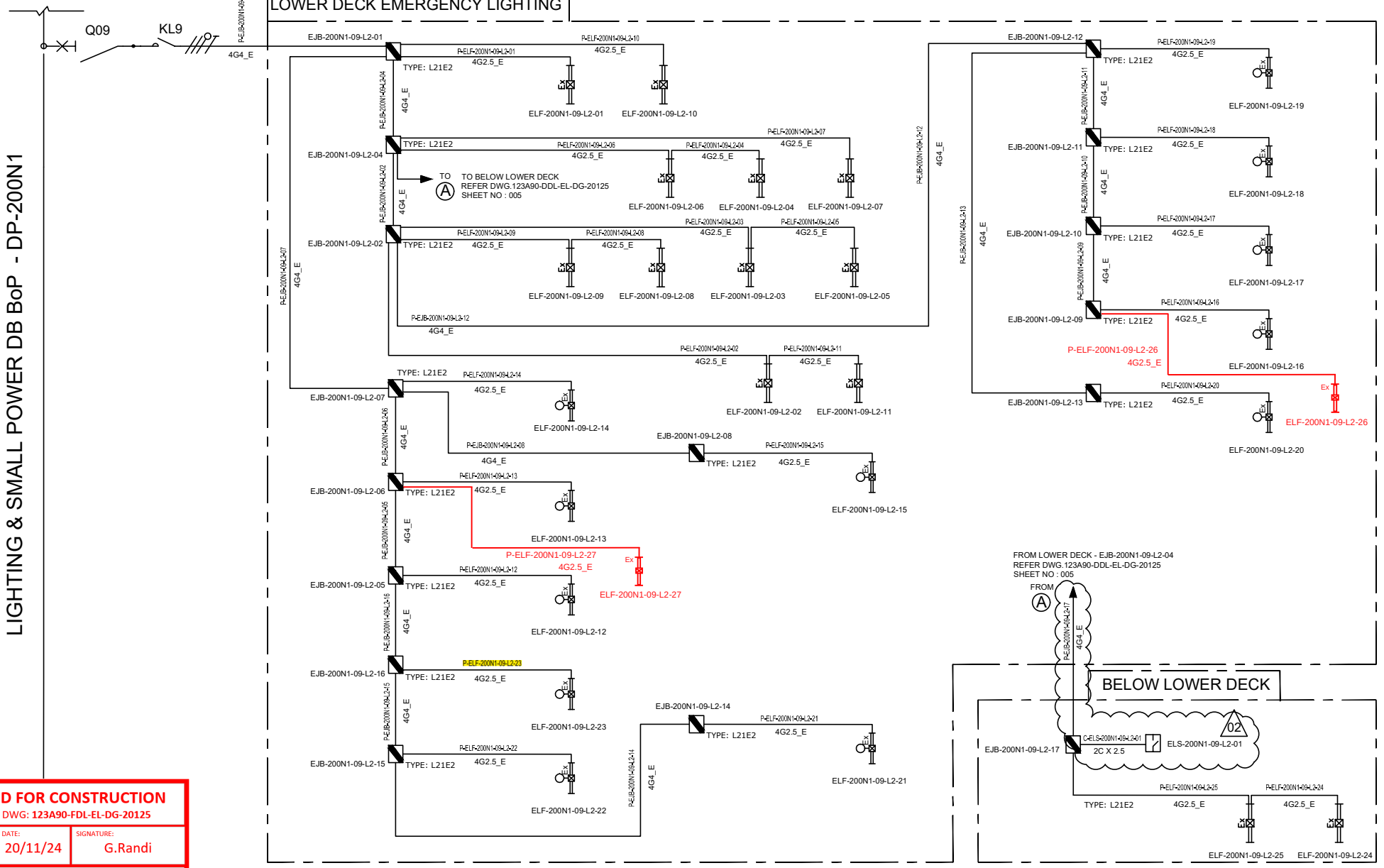
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

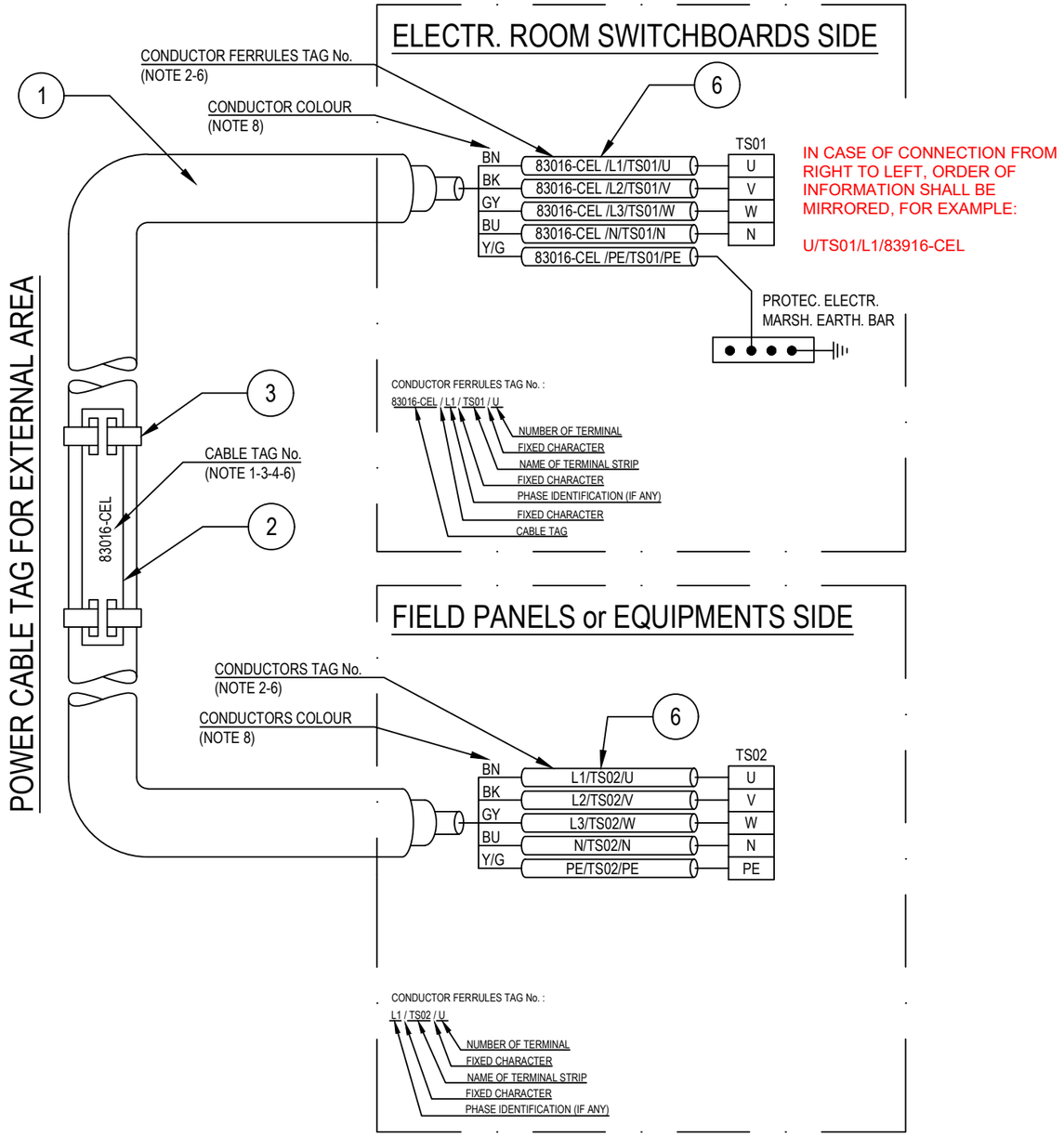
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

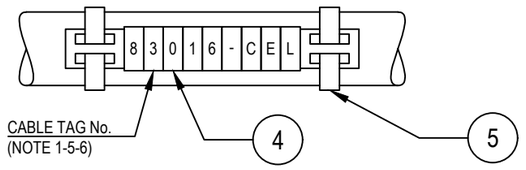
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_B	28/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

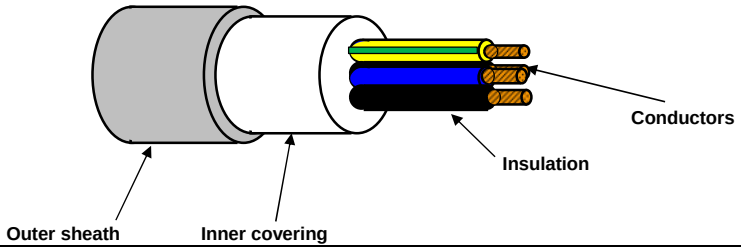
A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-23	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-16	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-23	Emergency Lighting Fixture	Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-101-LVT-121

ITEM	Tag	C-ELS-200N1-09-L2-01	: Emergency Lighting JB / Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	TP
TASK	code	C10000818		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E mm2 | Color: GREY

From: EJB-200N1-09-L2-17 | To: ELS-200N1-09-L2-01

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	PL
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	C-ELS-200N1-09-L2-01	: Emergency Lighting JB / Emergency Lighting JB			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000818		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-24	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T05:57:02.899Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-24T09:32:27.455Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02

TAG:	ELF-200N1-10-L3-08
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELS-200N1-09-L2-01
ELE:	1275 mm TOF
STD:	L46A

TAG:	EJB-200N1-09-L2-17
ELE:	1275 mm TOF ⚠2
STD:	L21

TAG:	ELF-200N1-10-L3-07
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-14
ELE:	4300 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-06
ELE:	5000 mm TOF
STD:	L02

TAG:	EJB-200N1-10-L3-07
ELE:	200 mm TOF
STD:	L02

TAG:	ELF-200N1-10-L3-13
ELE:	2500 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-09
ELE:	2800 mm TOF
STD:	L03A

TAG:	ESO-200N1-06-L2-03
ELE:	1600mm TOS ⚠2
STD:	P03

TAG:	ELF-200N1-09-L2-24
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-06
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-10
ELE:	2800 mm TOF
STD:	L03A

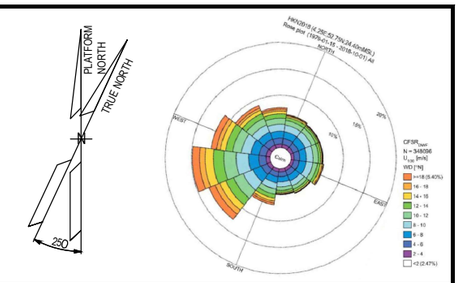
TAG:	ELF-200N1-09-L2-25
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-11
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-12
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-05
ELE:	2800 mm TOF
STD:	L02

PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, ⚠2 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

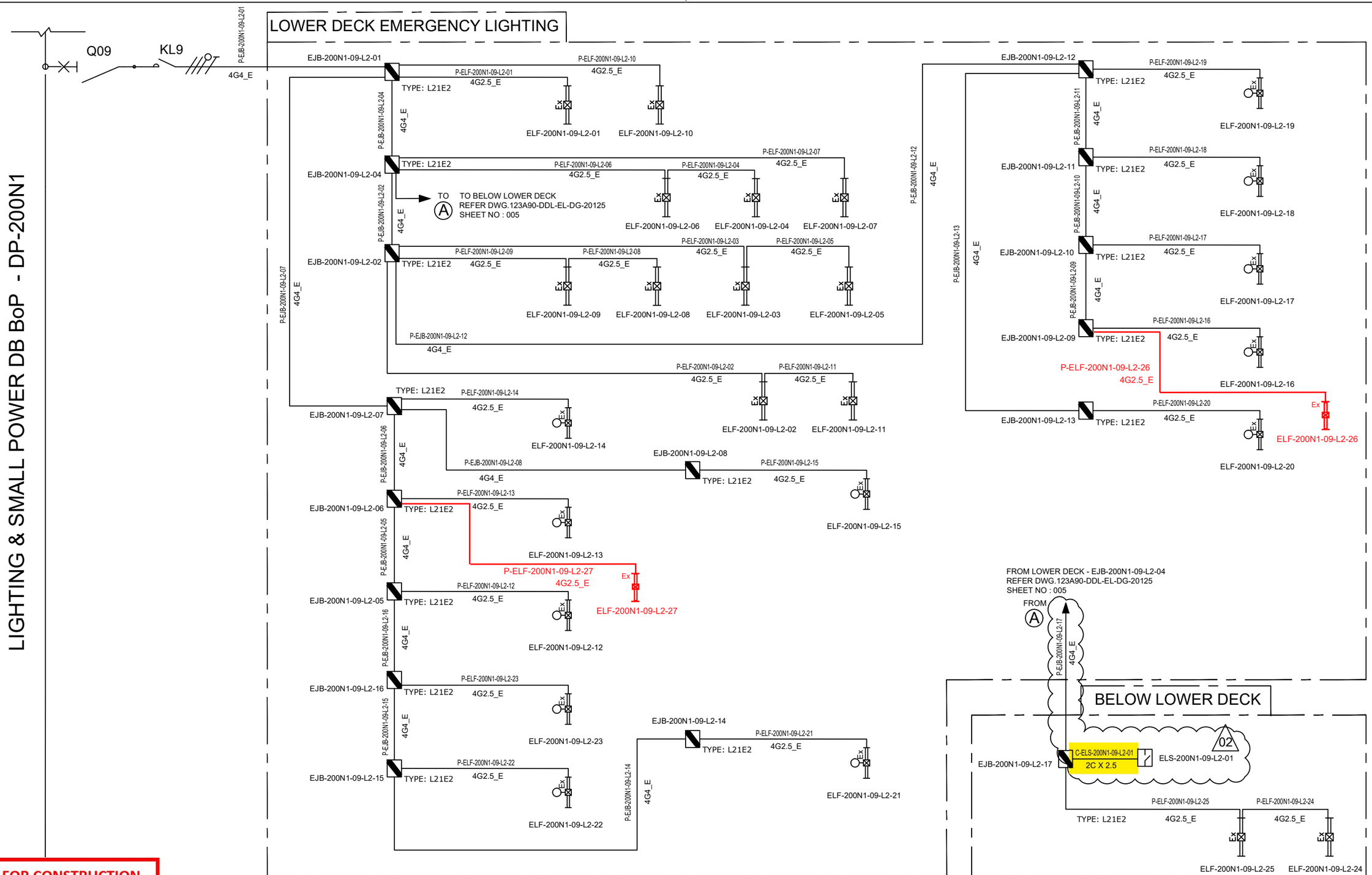
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

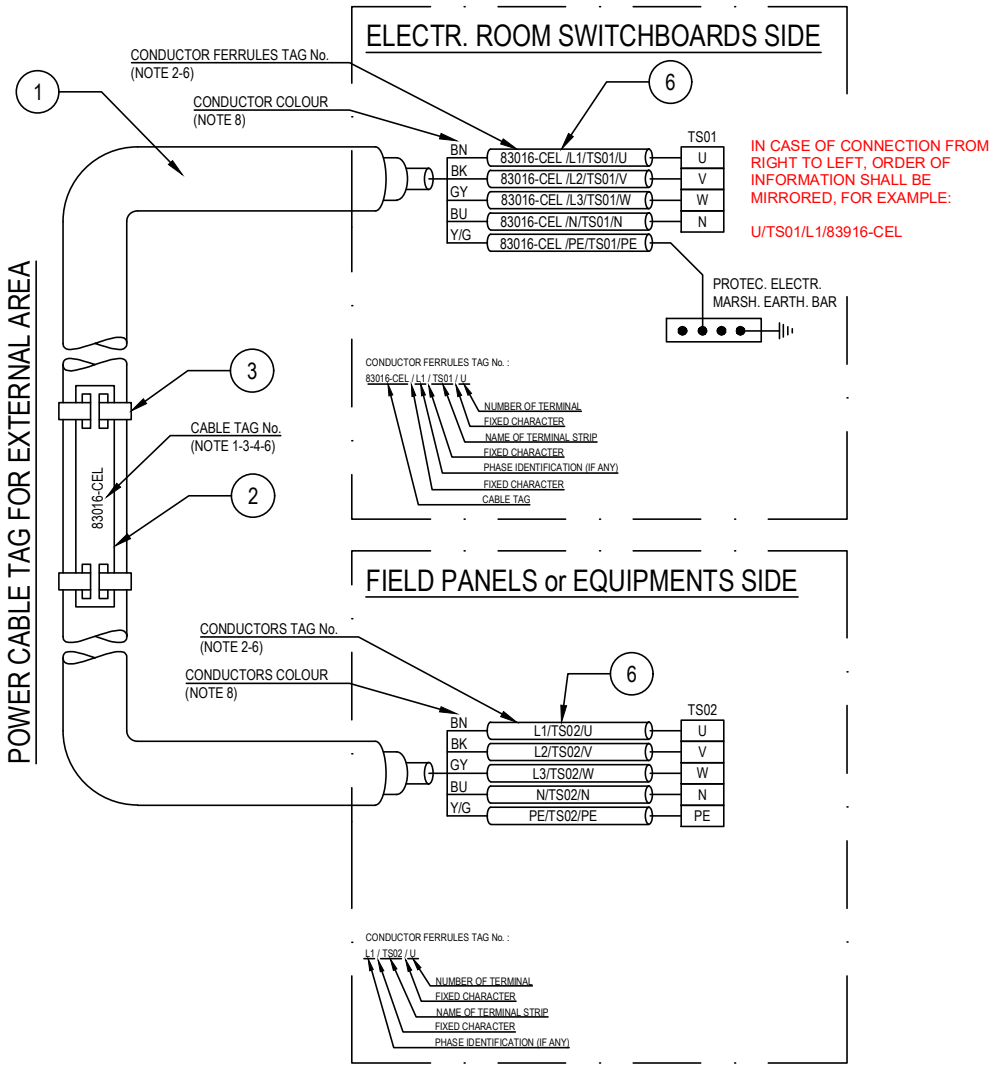
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

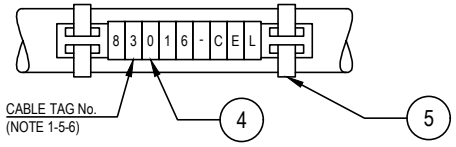
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

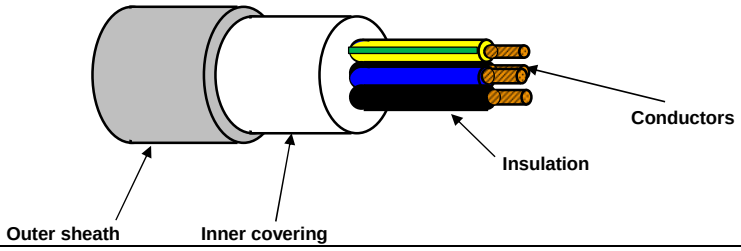
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
C-ELS-200N1-09-L2-01	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-17	Emergency Lighting JB	Below Lower Deck	Junction Box	ELS-200N1-09-L2-01	Local Switch	Transition Piece	Switch Box	ELECV23-2X2,5	Cable Cu Cl.2/MGT/EPR/LSZH/GSWB/LSZH 0,6/1kV 2Cx2,5mm² - Orange (bk. numb.)	M20	T2_M20_Double				T2_M20_Double				L-50-100-LVT-023

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-09-L2-24	: Emergency Lighting JB / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	TP
TASK	code	C10000819		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH Cores/Size mm²: 4G2,5_E mm2 Color: GREY

From: ELF-200N1-09-L2-25 To: ELF-200N1-09-L2-24

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ITEM	Tag	P-ELF-200N1-09-L2-24	: Emergency Lighting JB / Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	TP	
TASK	code	C10000819	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,3	
6		PH 2	0,3	
7		PH 3	0,3	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,3	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

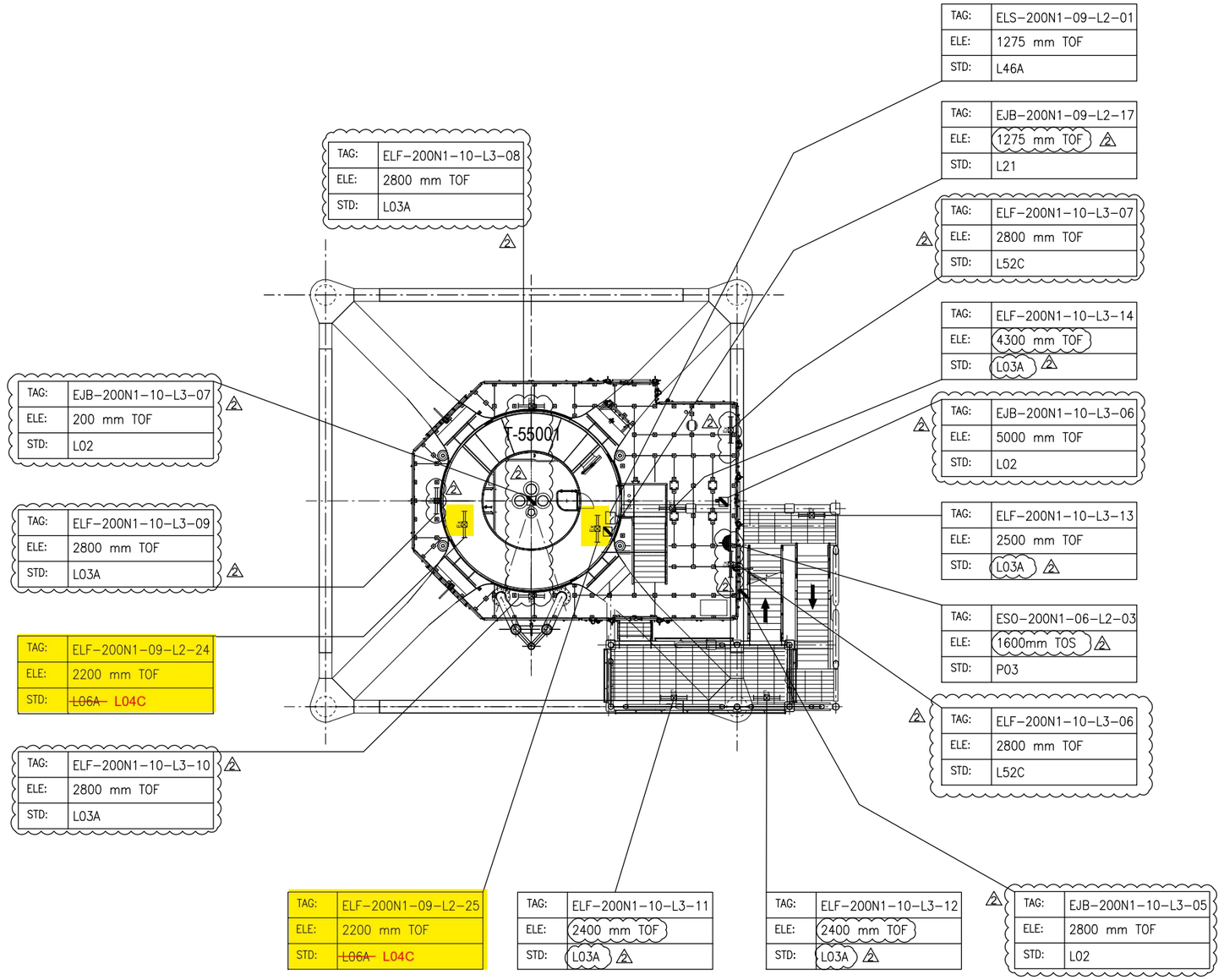
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Note: The from is EJB-200N1-09-L2-17 and to is ELF-200N1-09-L2-24, the new wiring revision will be updated.

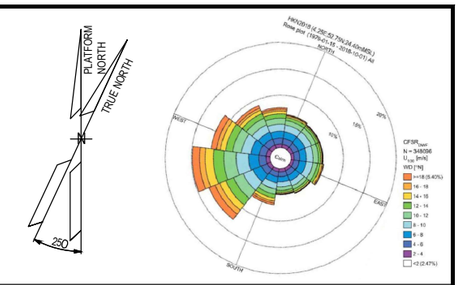
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-24	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T05:57:43.816Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-24T12:18:45.994Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

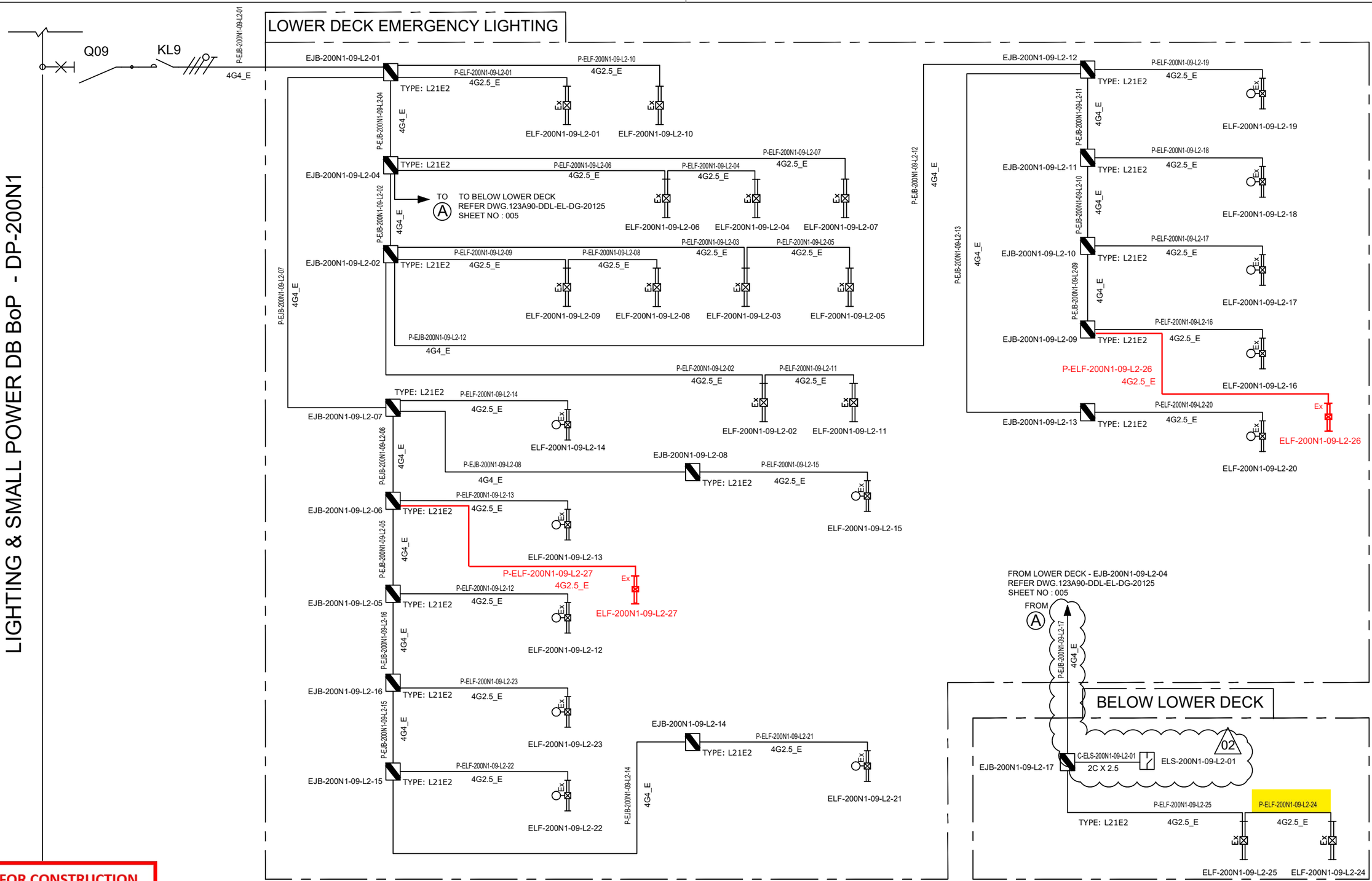
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

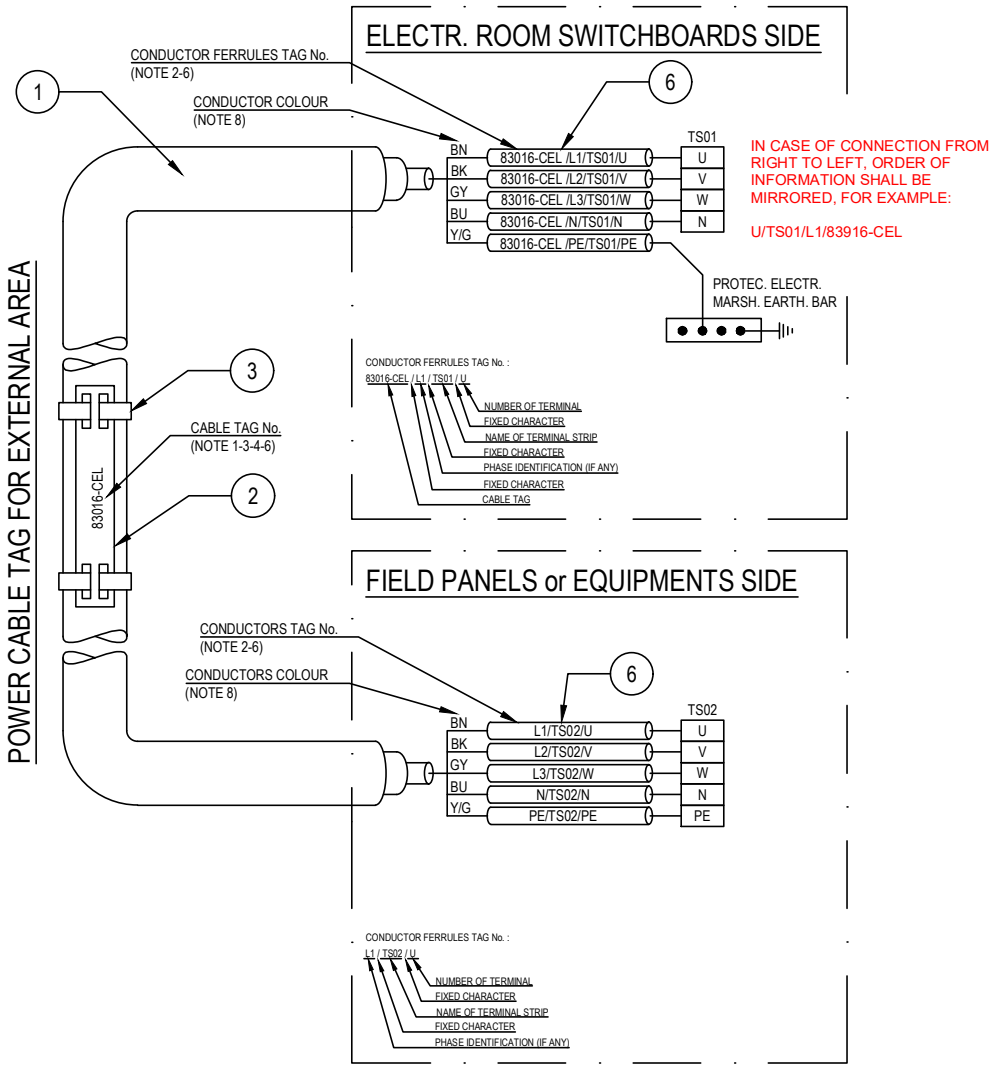
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

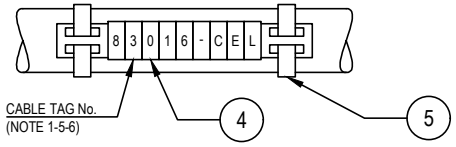
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

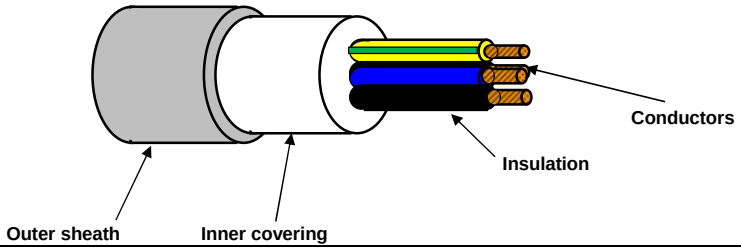
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-24	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-09-L2-25	Emergency Lighting Fixture	Below Lower Deck		ELF-200N1-09-L2-24	Emergency Lighting Fixture	Below Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-100-LVT-023 / L-150-100-LVT-001

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	P-ELF-200N1-09-L2-25	: Emergency Lighting Fixture / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	TP
TASK	code	C10000820		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5_E mm2 Color GREY

From EJB-200N1-09-L2-17 To ELF-200N1-09-L2-25

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	OK
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

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ITEM	Tag	P-ELF-200N1-09-L2-25	: Emergency Lighting Fixture / Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	TP
TASK	code	C10000820		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,4	
6		PH 2	0,4	
7		PH 3	0,4	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,4	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

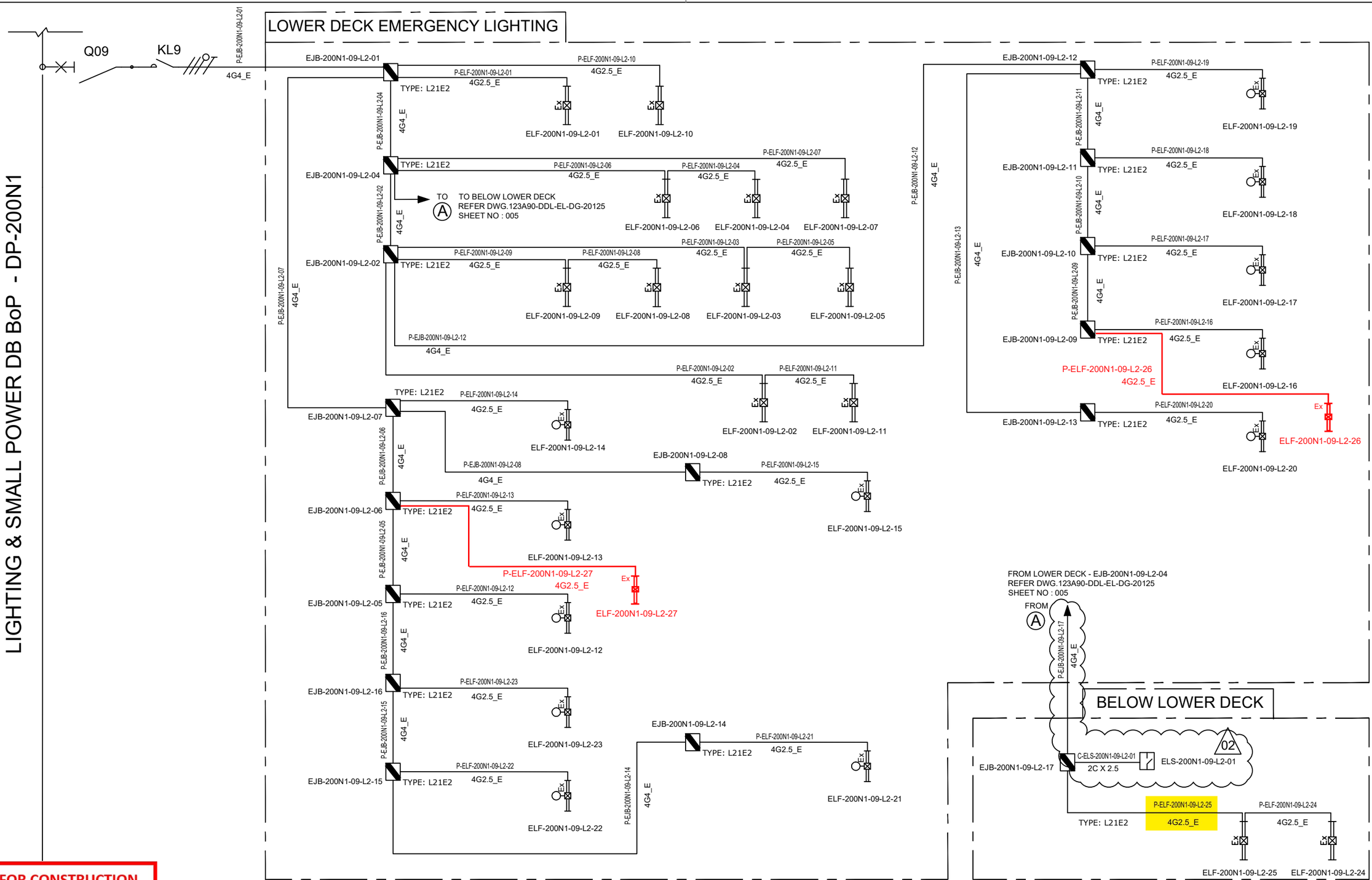
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Note: The from is ELF-200N1-09-L2-24 and to is ELF-200N1-09-L2-25, the new wiring revision will be updated.

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-28	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T05:58:33.820Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-28T08:55:19.334Z	

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

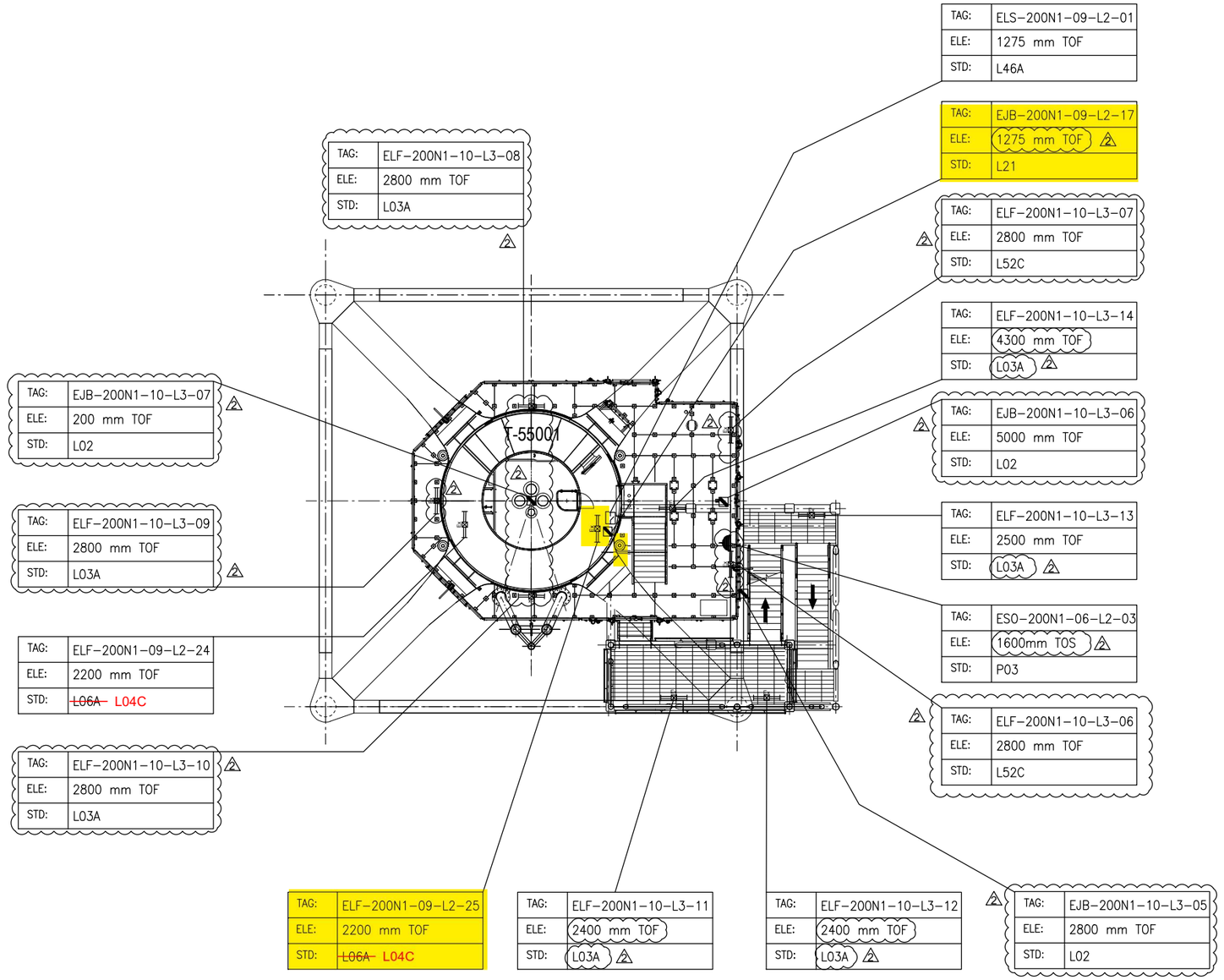
A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

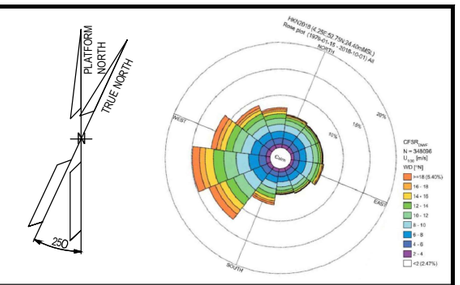
File Name : 123A90-DDL-EL-DG-20125

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

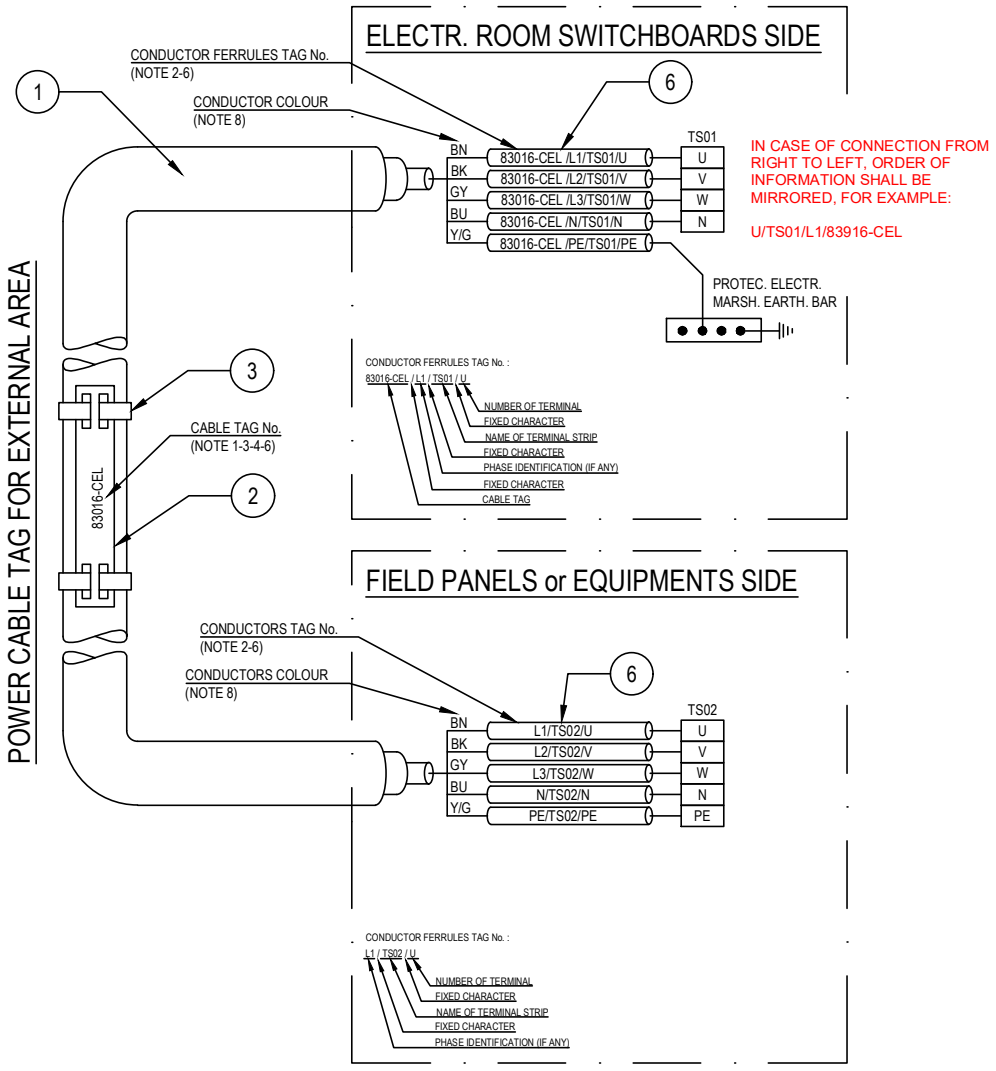
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

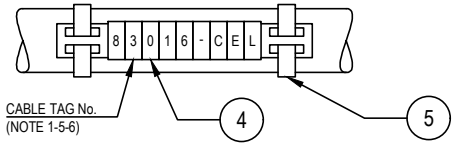
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

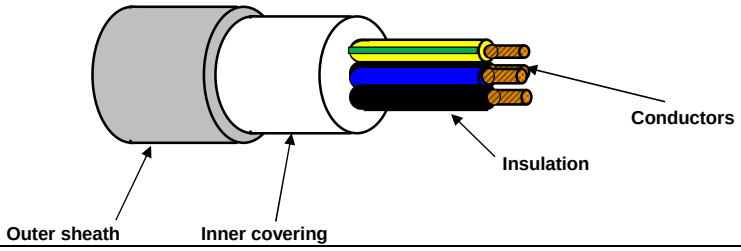
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-24	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELF-200N1-09-L2-25	Emergency Lighting Fixture	Below Lower Deck		ELF-200N1-09-L2-24	Emergency Lighting Fixture	Below Lower Deck		ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm²_E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Single	M20	ADAP_M20Mx M25F		L-50-100-LVT-023 / L-150-100-LVT-001

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	EJB-200N1-09-L2-05	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001235		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

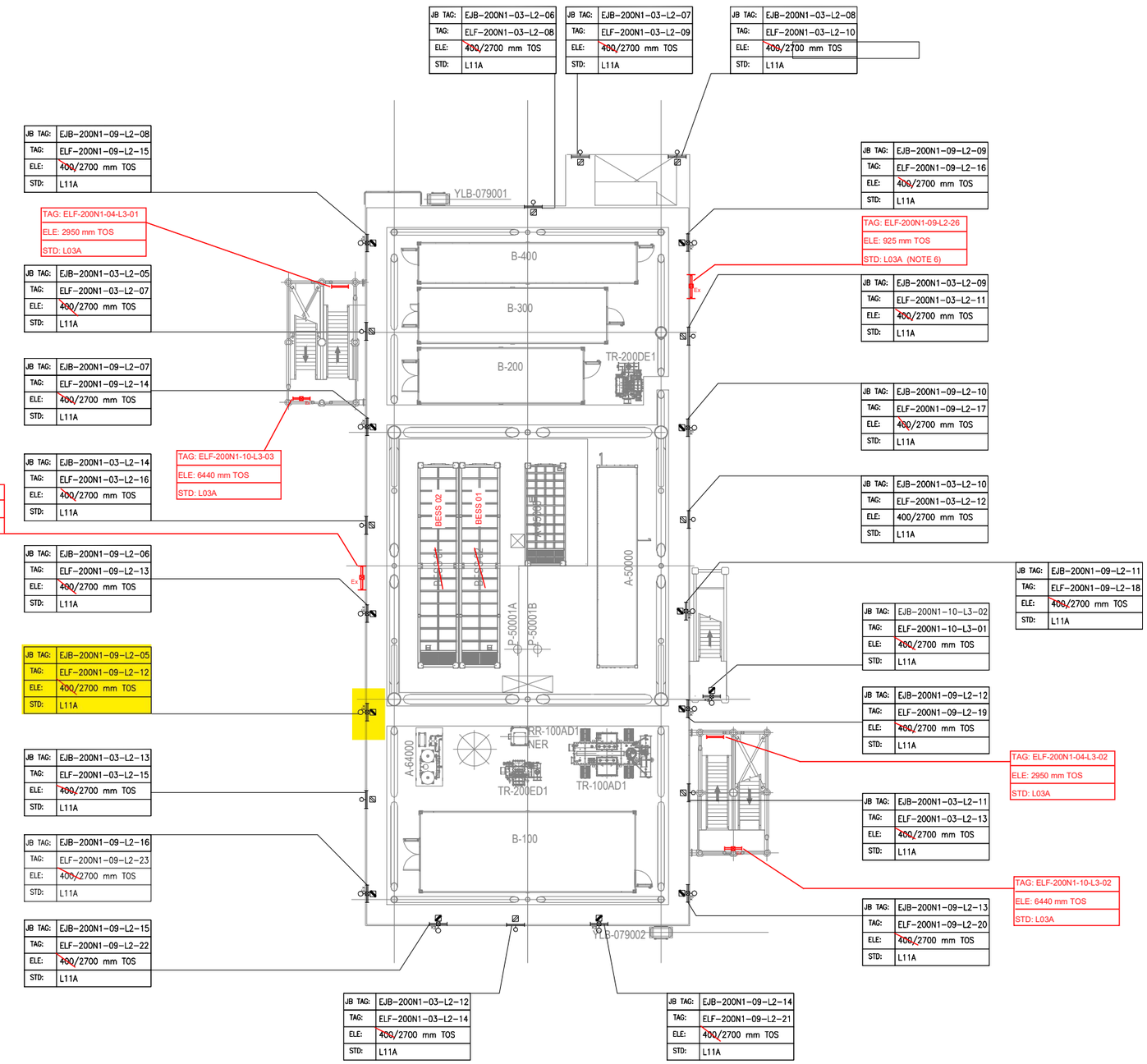
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

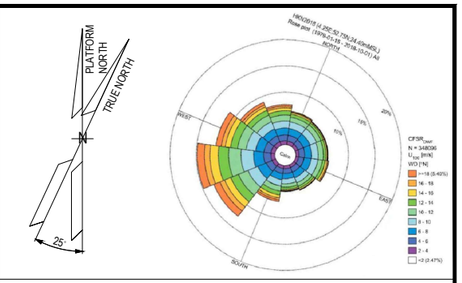
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Paolo Schintu	
Date	2024-12-28	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:31:17.745Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-13T08:48:32.756Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

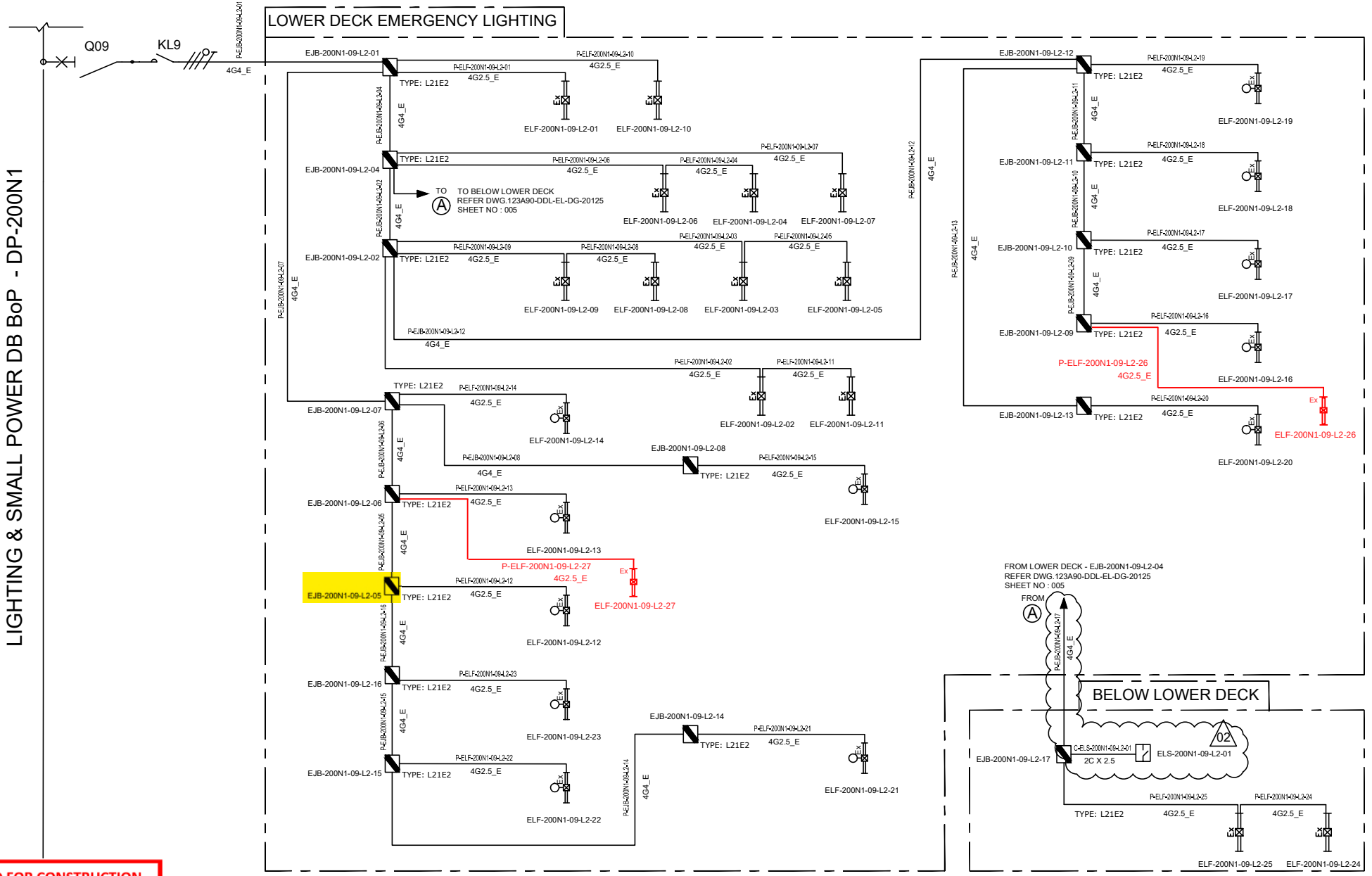
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

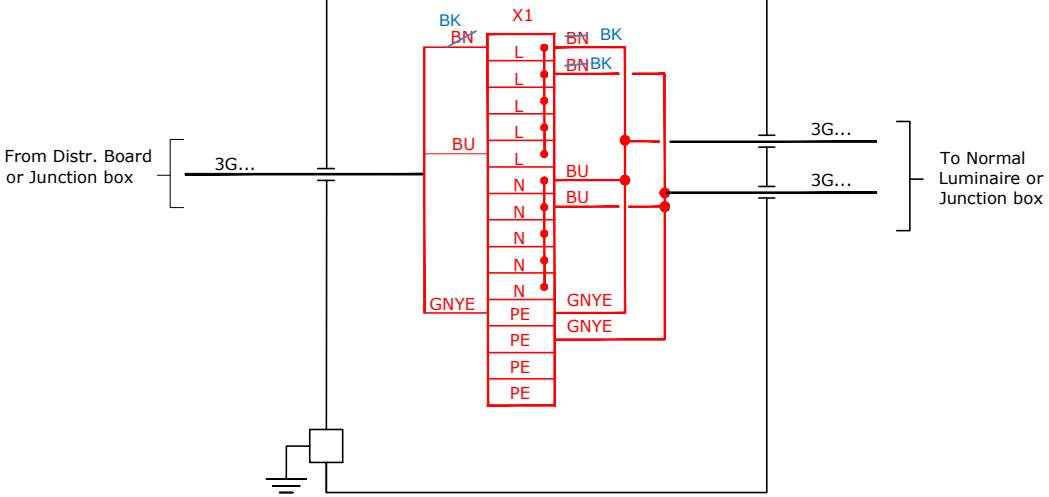
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

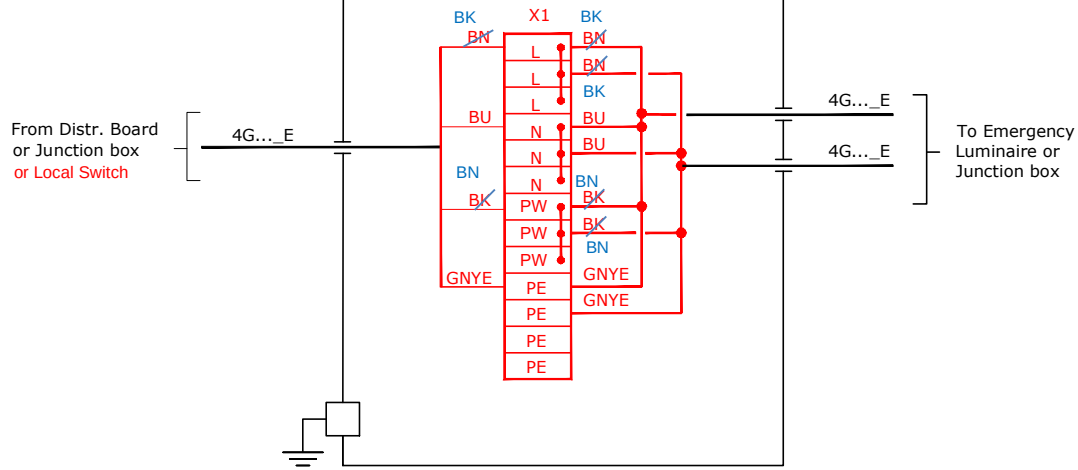
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

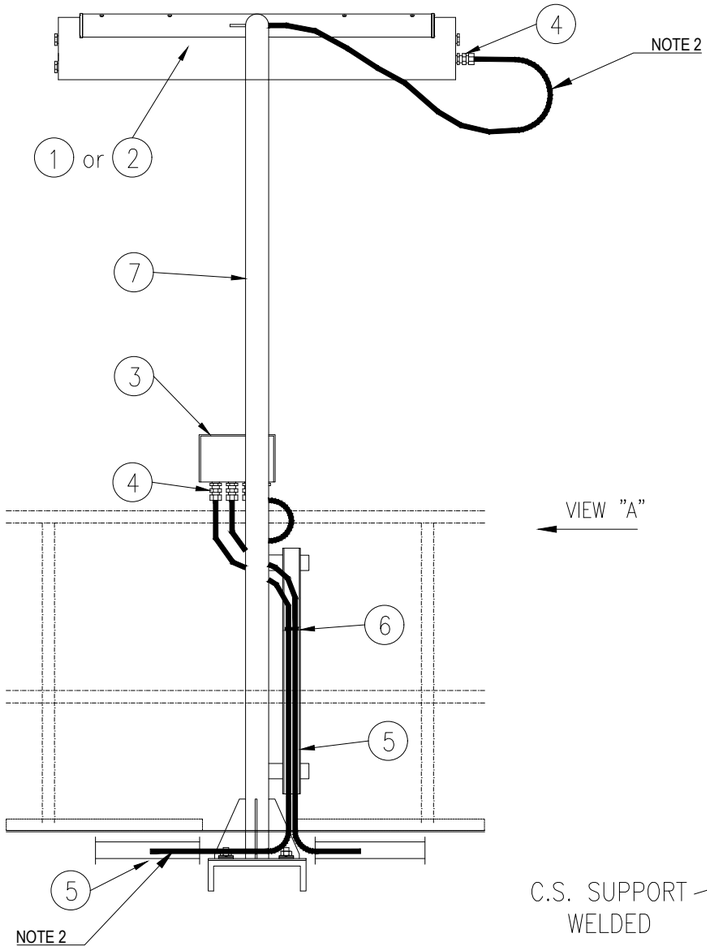
SHEET 016

REV. 01

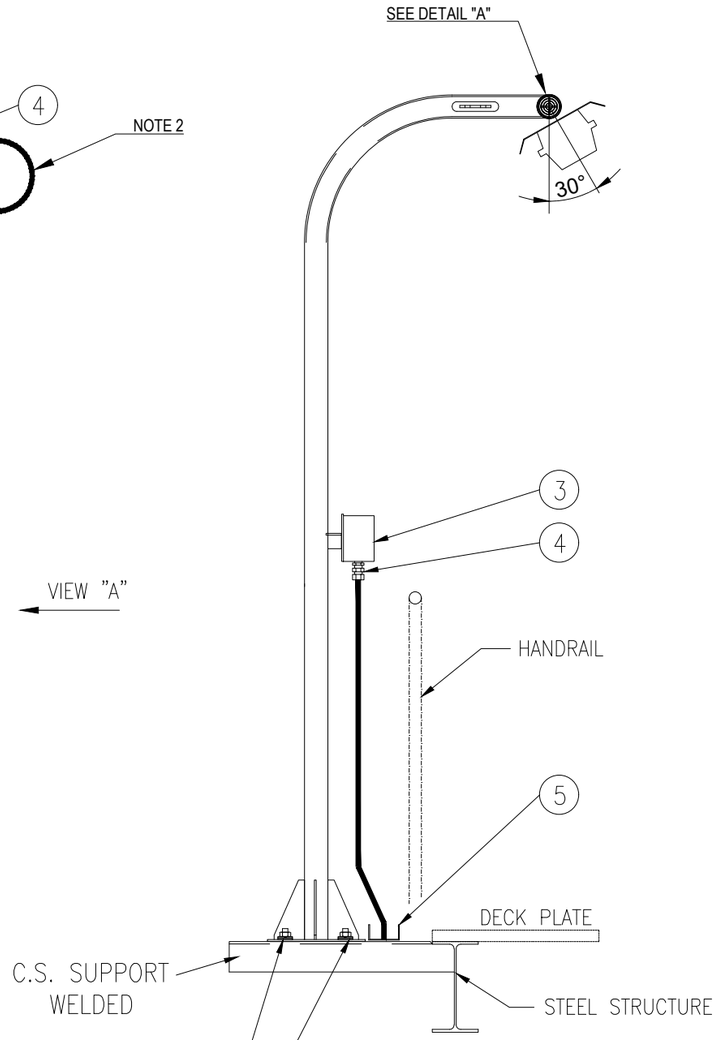
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L11A

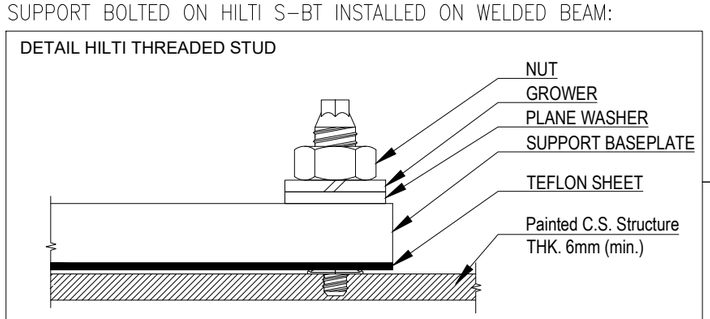


VIEW "A"

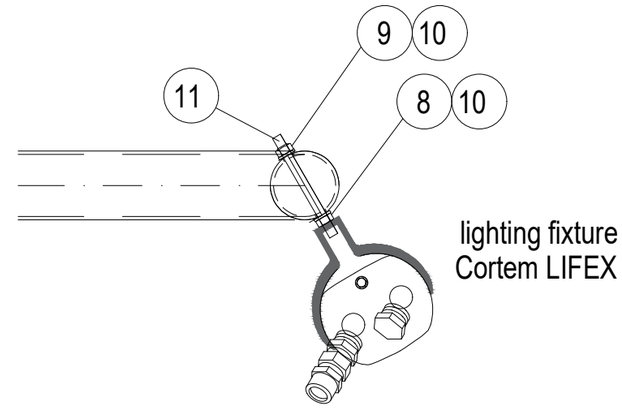


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

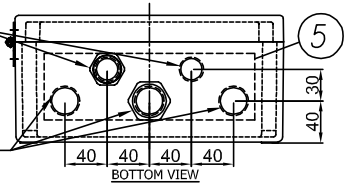
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

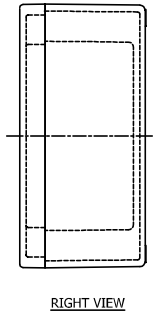
WARNINGS : DO NOT OPEN WHEN ENERGIZED

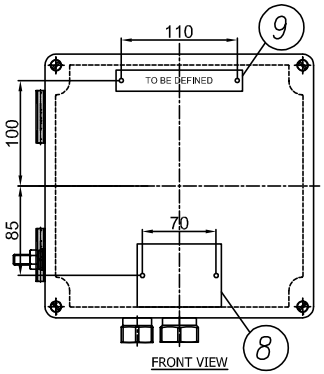
(9) PLATE DETAIL



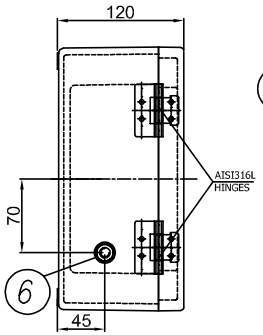
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

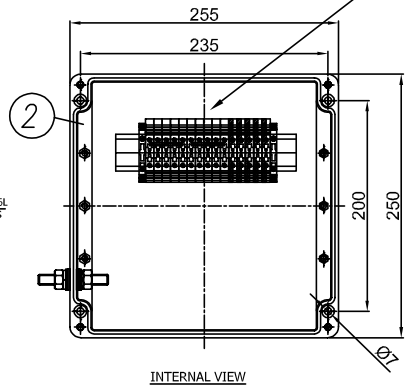

RIGHT VIEW



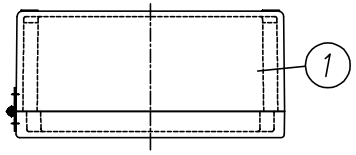
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

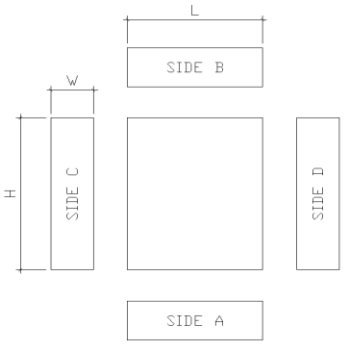
SHEET 005

REV. 04

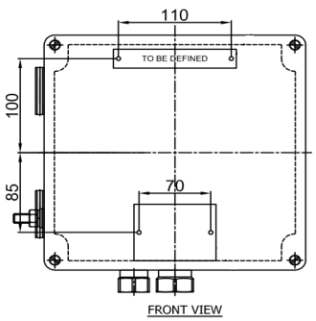
F.to UNI A3: 420mmx297mm

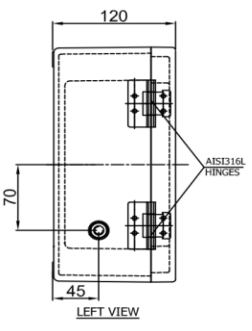
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-06	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001236		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

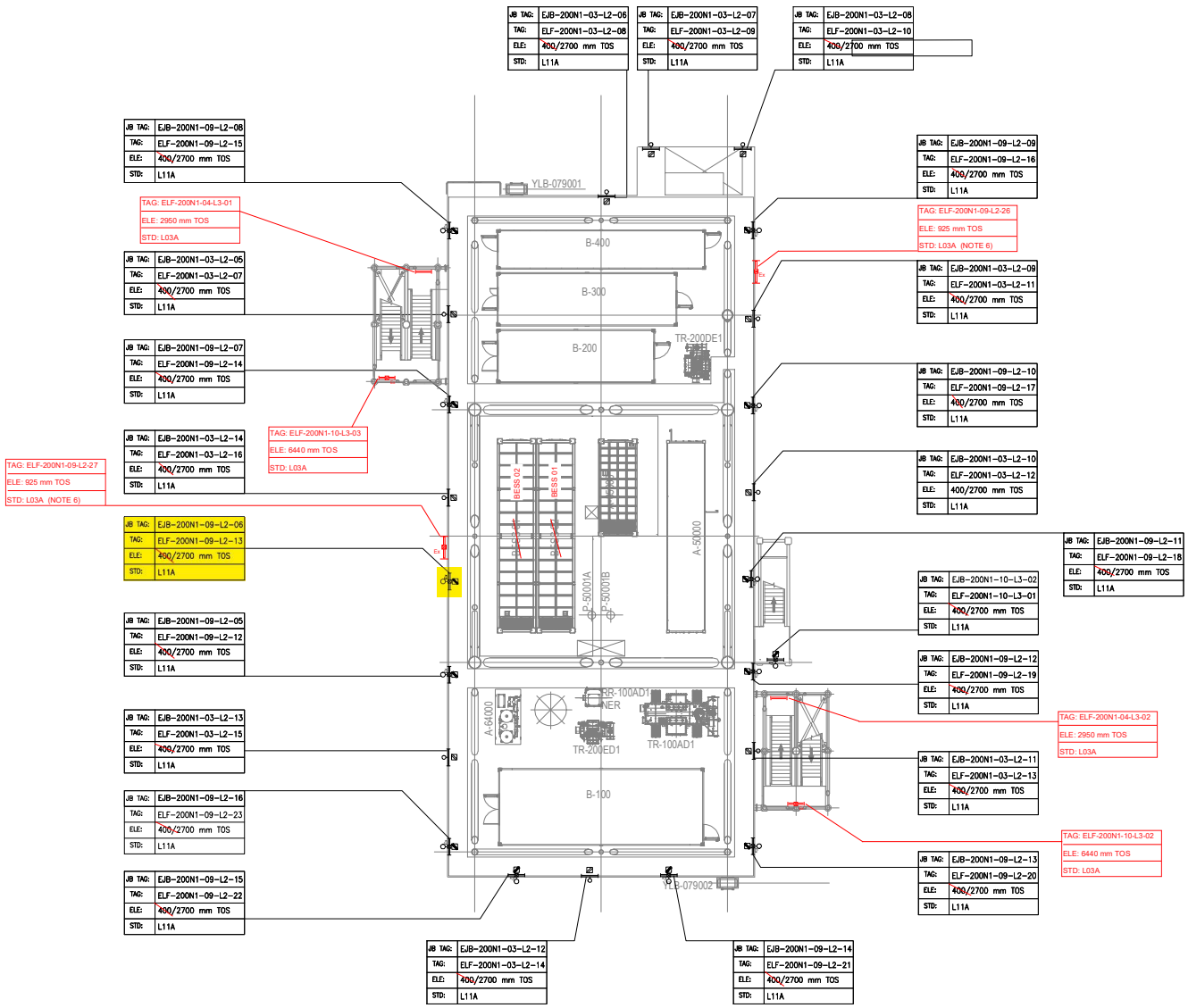
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

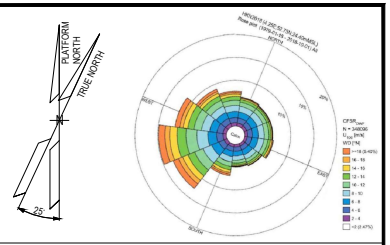
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-17	2025-01-17	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-17T07:46:19.215Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-17T16:16:42.206Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

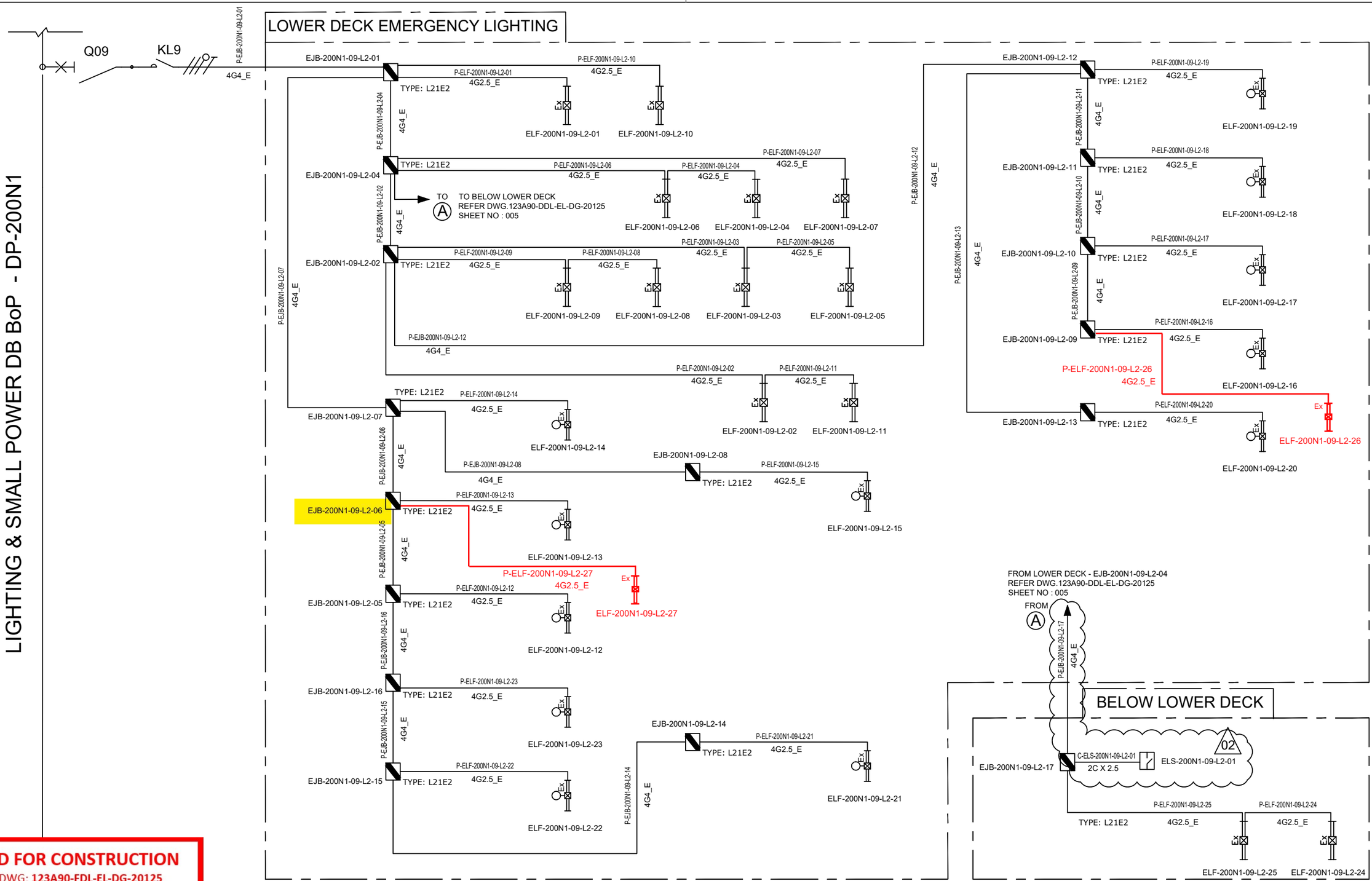
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

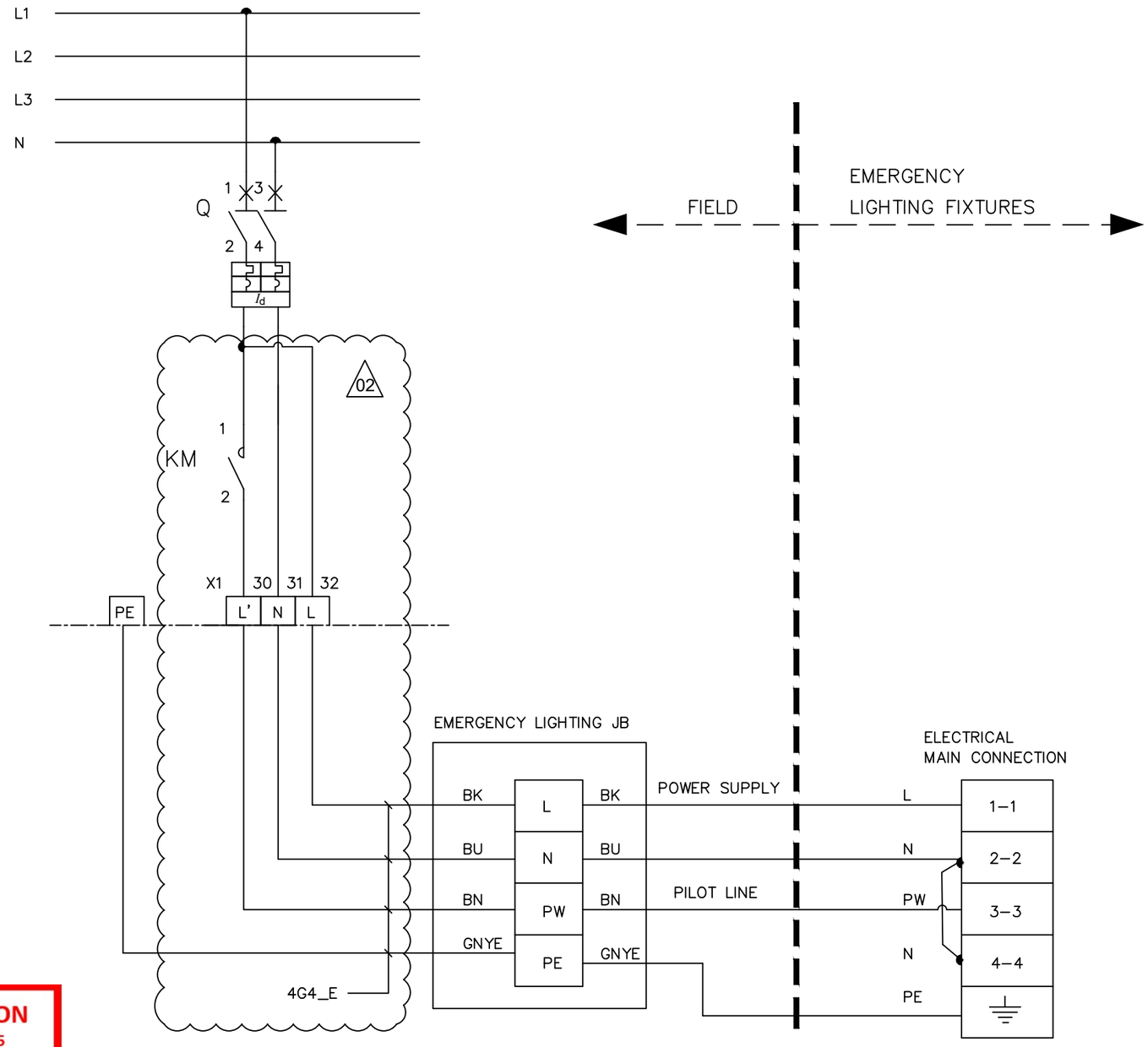
A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

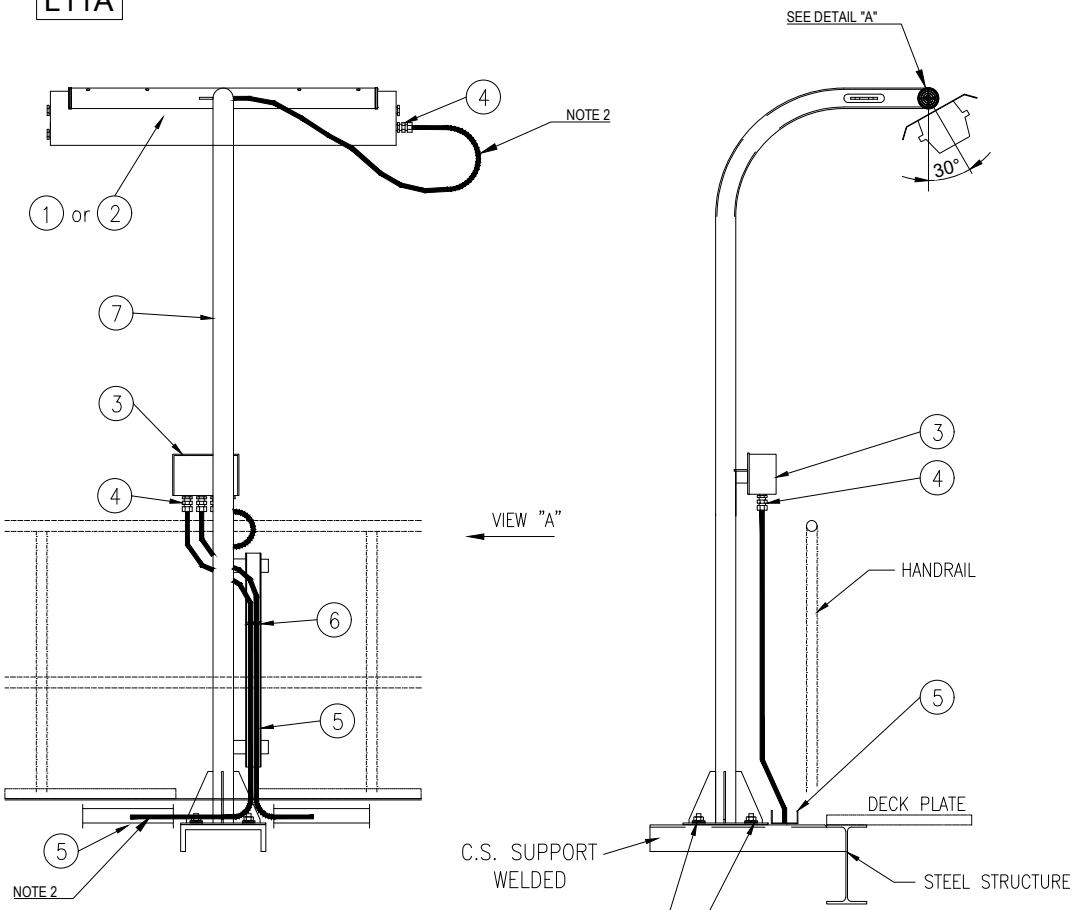
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

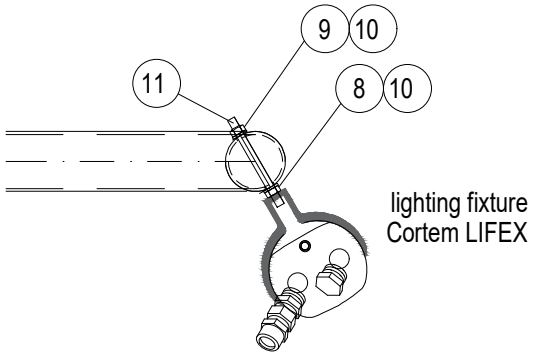
File Name : 123A90–DDL–EL–DG–20125

L11A



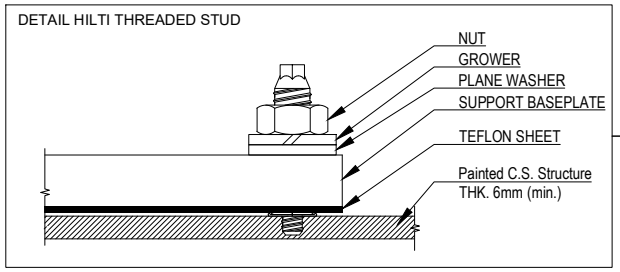
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

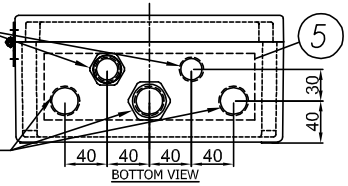
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

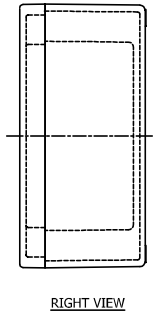
WARNINGS : DO NOT OPEN WHEN ENERGIZED

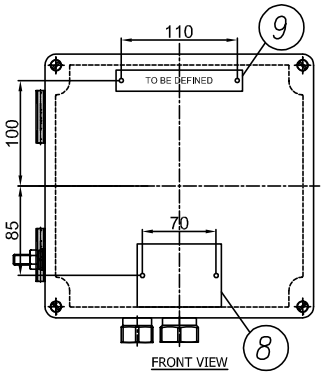
(9) PLATE DETAIL



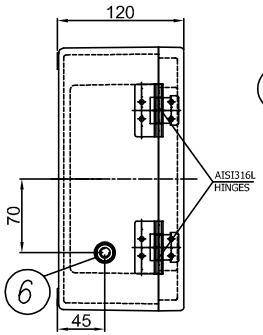
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

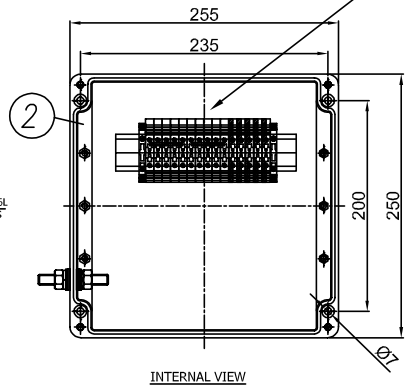

RIGHT VIEW



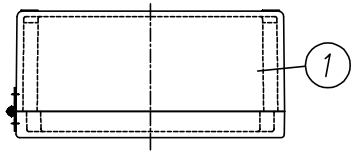
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

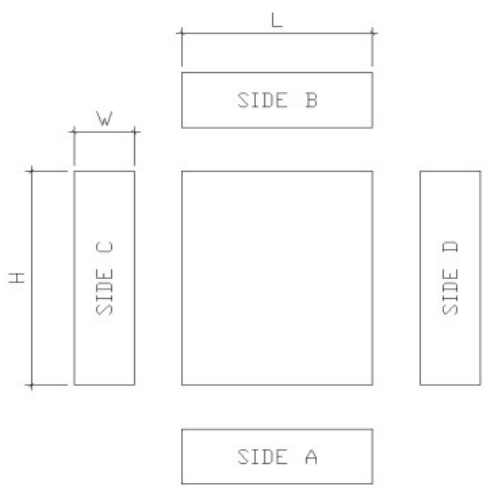
SHEET 005

REV. 04

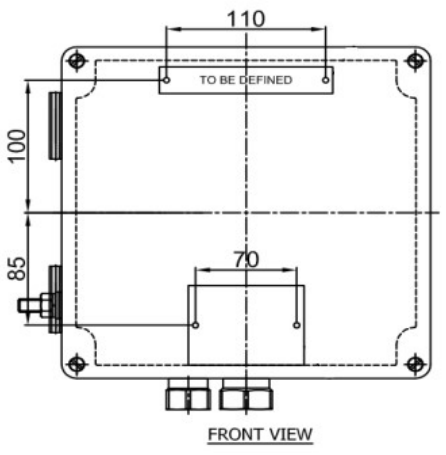
F.to UNI A3: 420mmx297mm

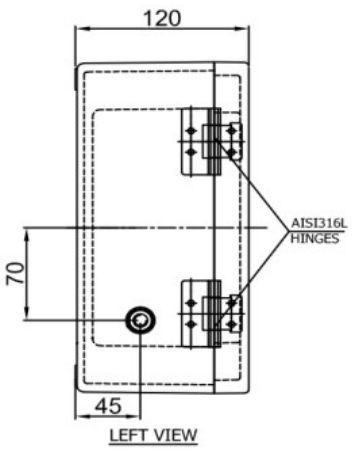
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	EJB-200N1-09-L2-07	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001237		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

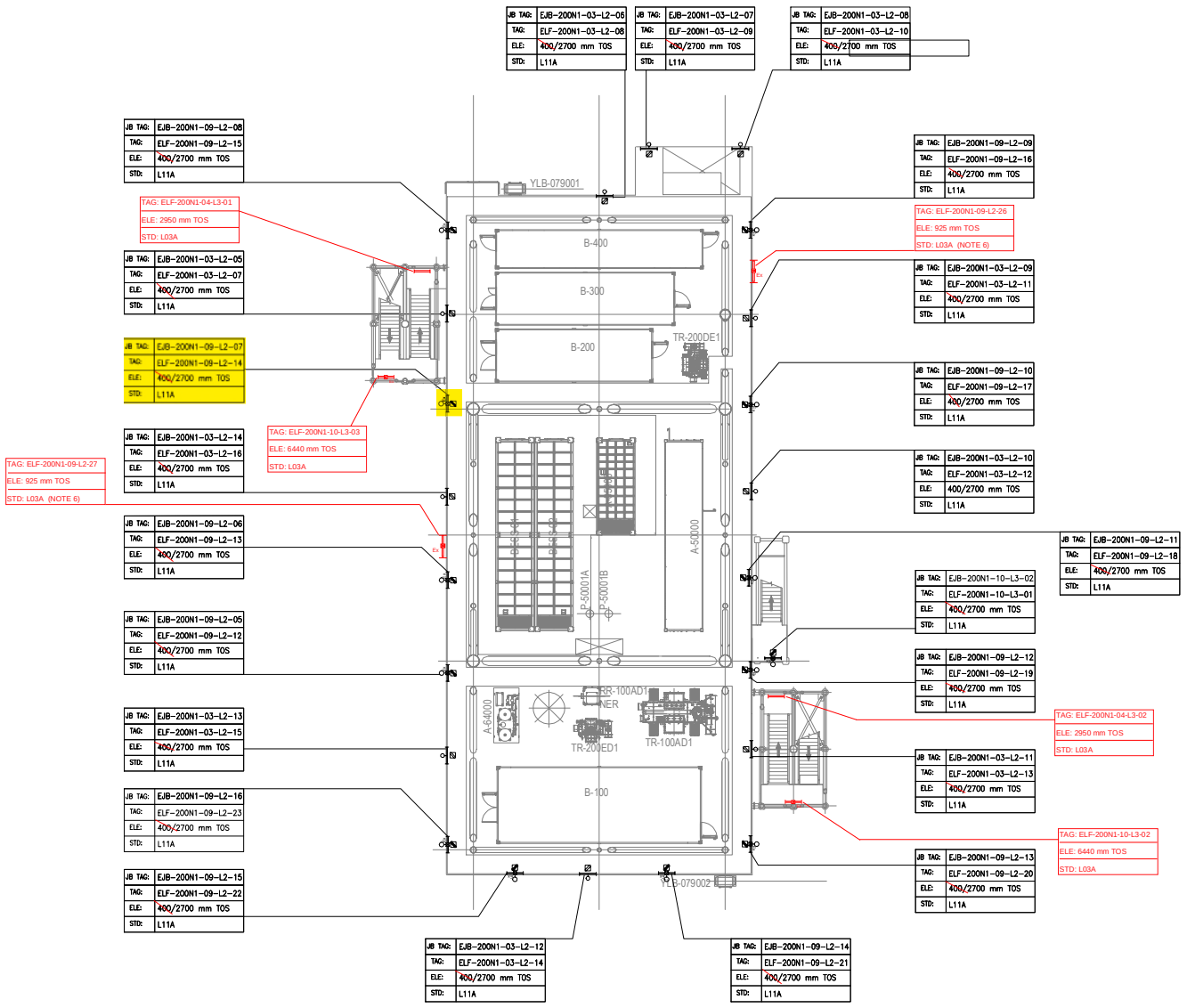
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

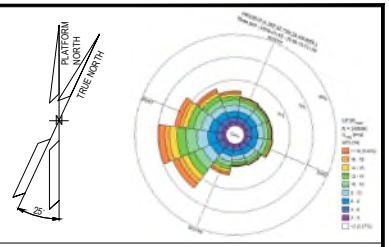
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:10:08.610Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:52:52.515Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

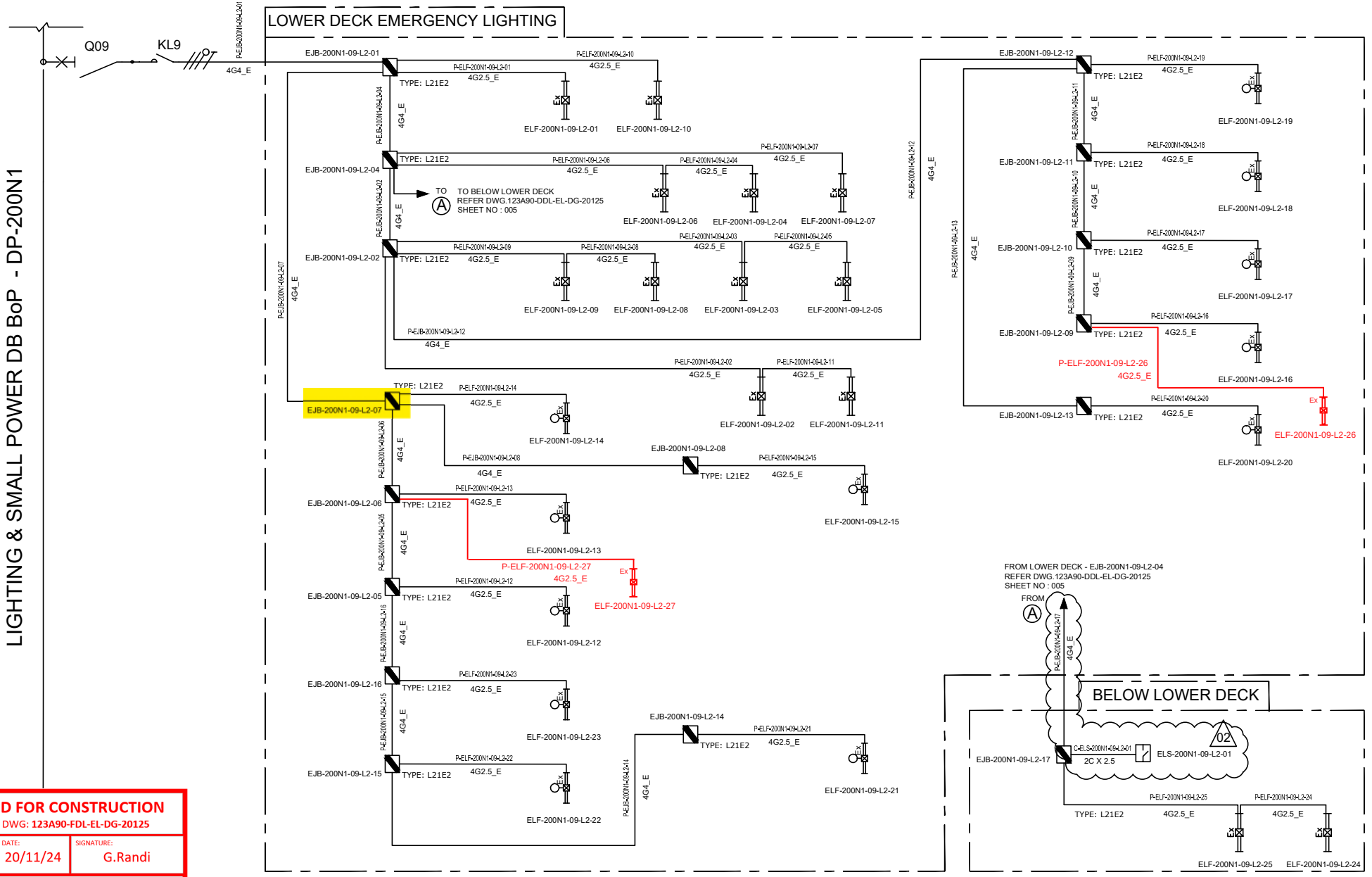
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

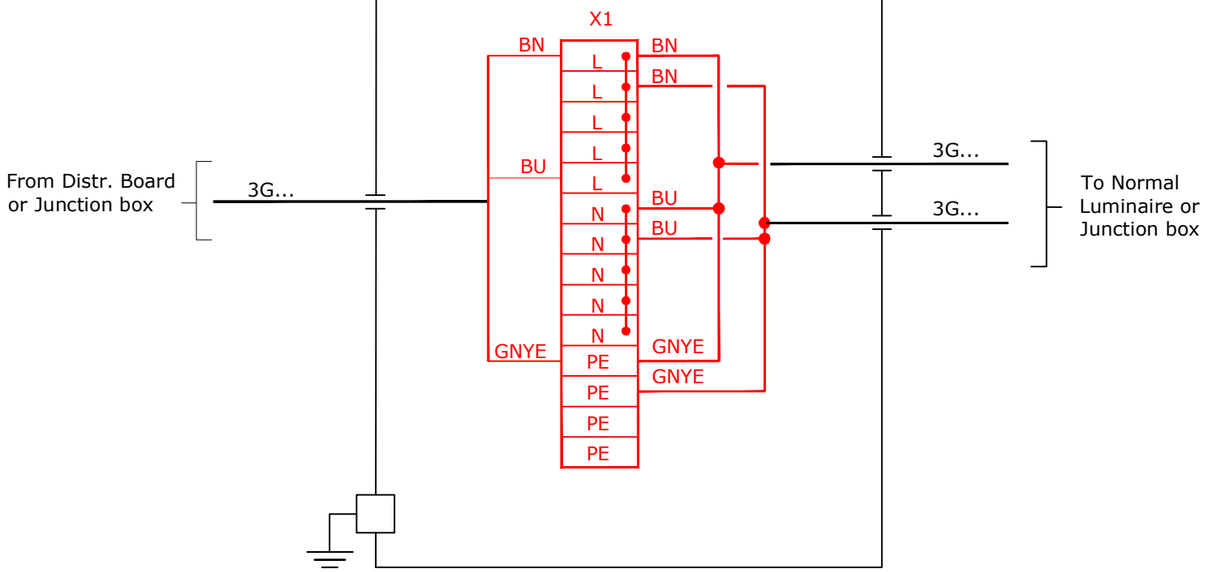
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

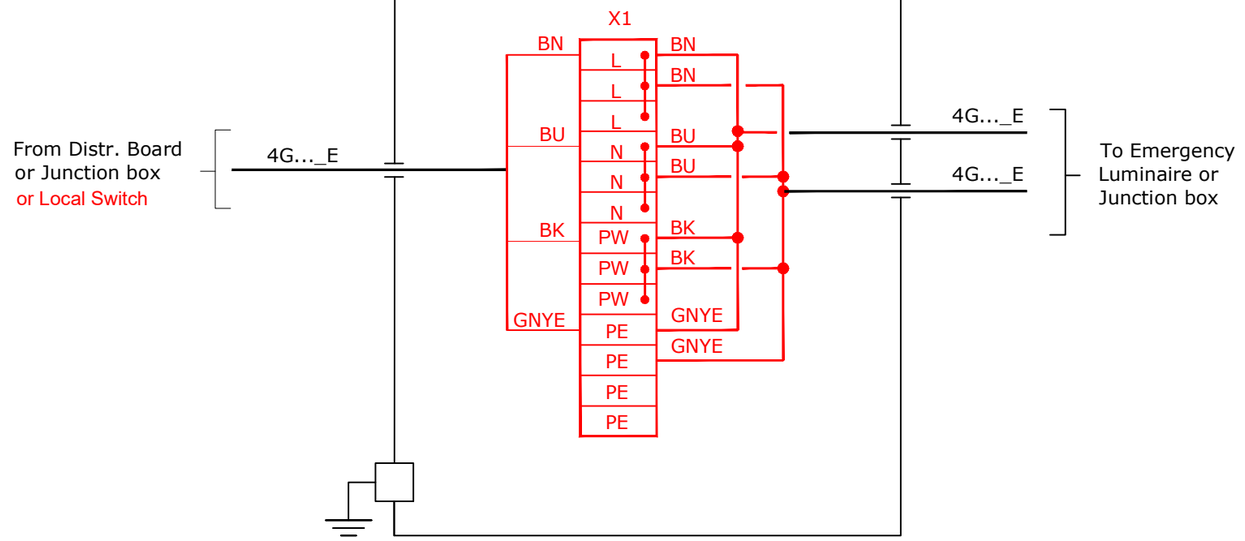
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

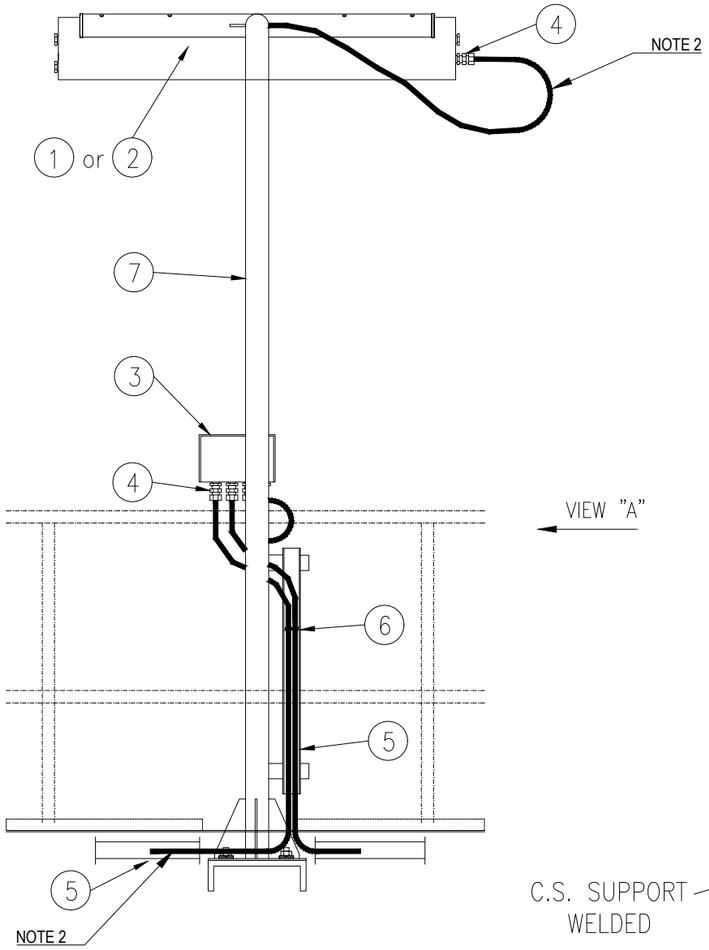
SHEET 016

REV. 01

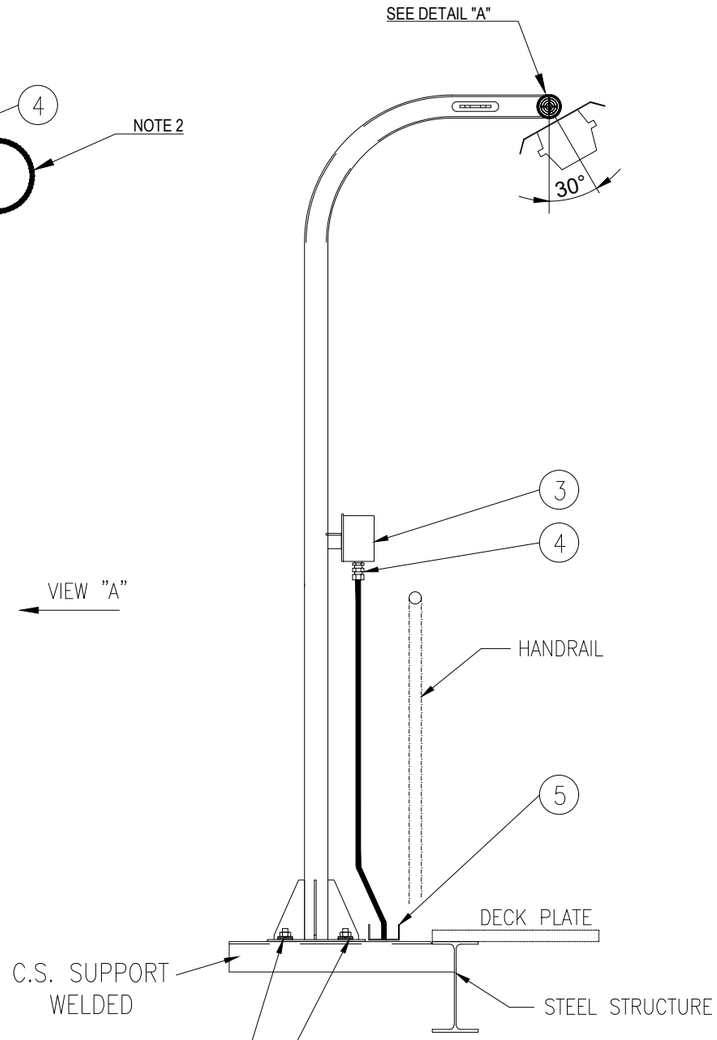
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

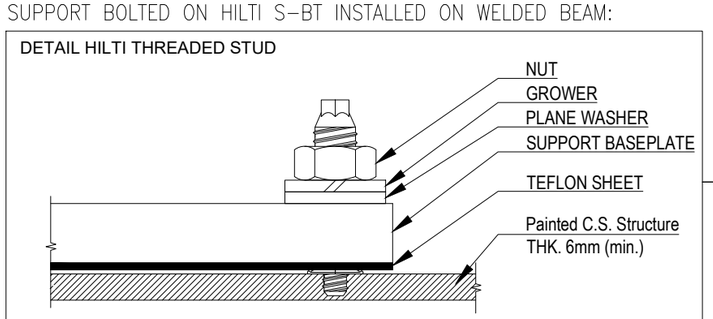


VIEW "A"

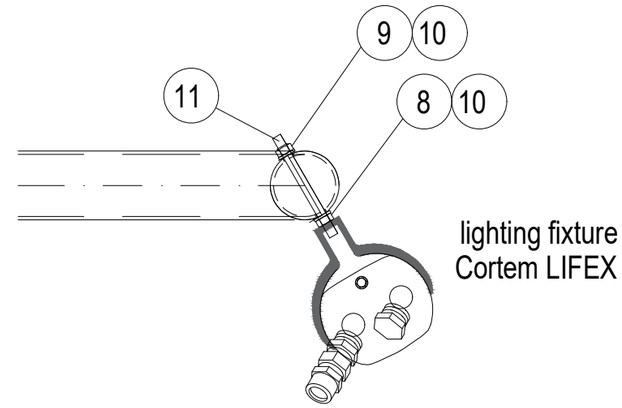


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

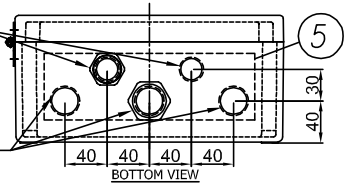
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

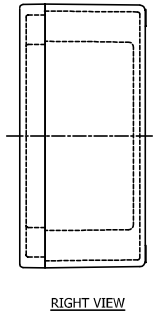
WARNINGS : DO NOT OPEN WHEN ENERGIZED

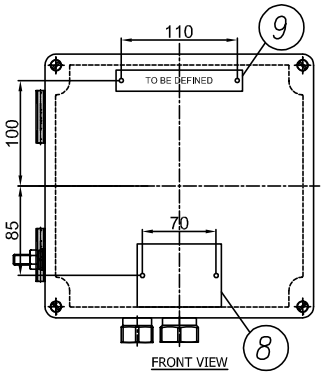
(9) PLATE DETAIL



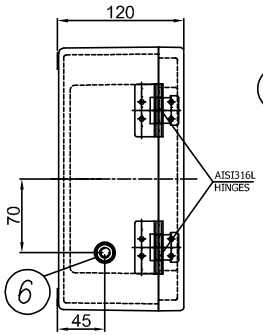
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

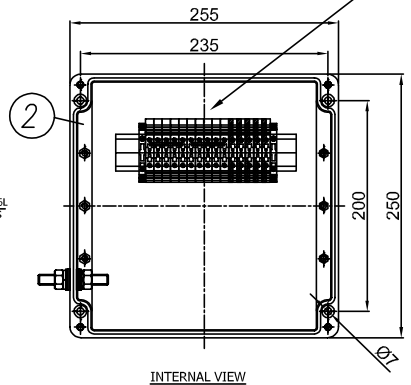

RIGHT VIEW



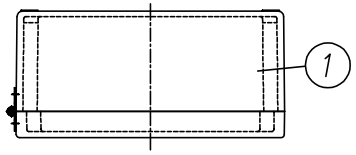
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

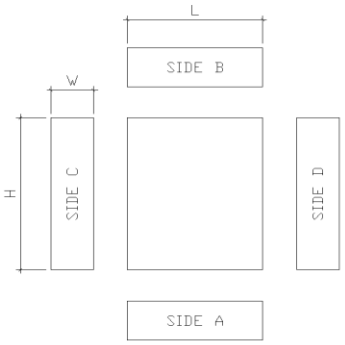
SHEET 005

REV. 04

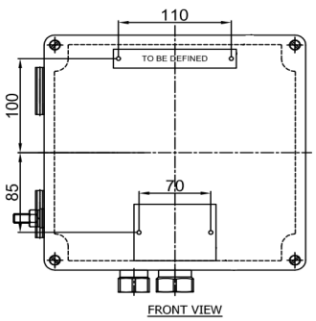
F.to UNI A3: 420mmx297mm

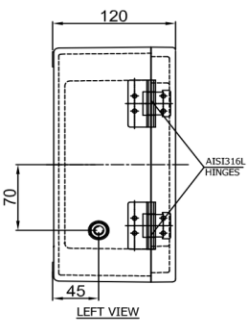
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-08	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001238		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

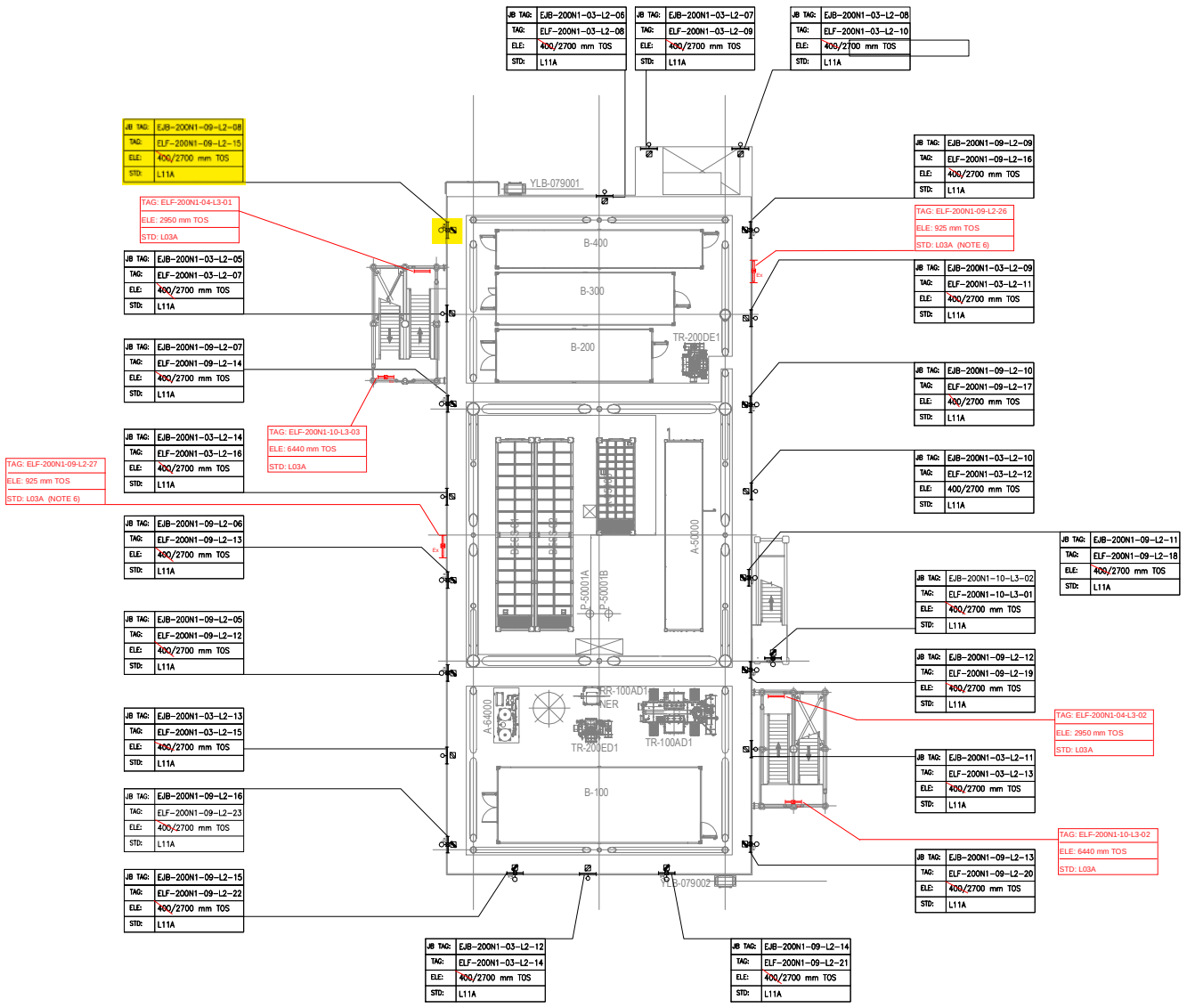
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	NA
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

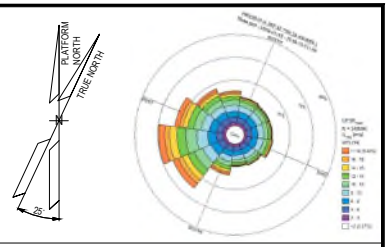
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-07	2024-12-11	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:00:14.615Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-11T16:02:04.180Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

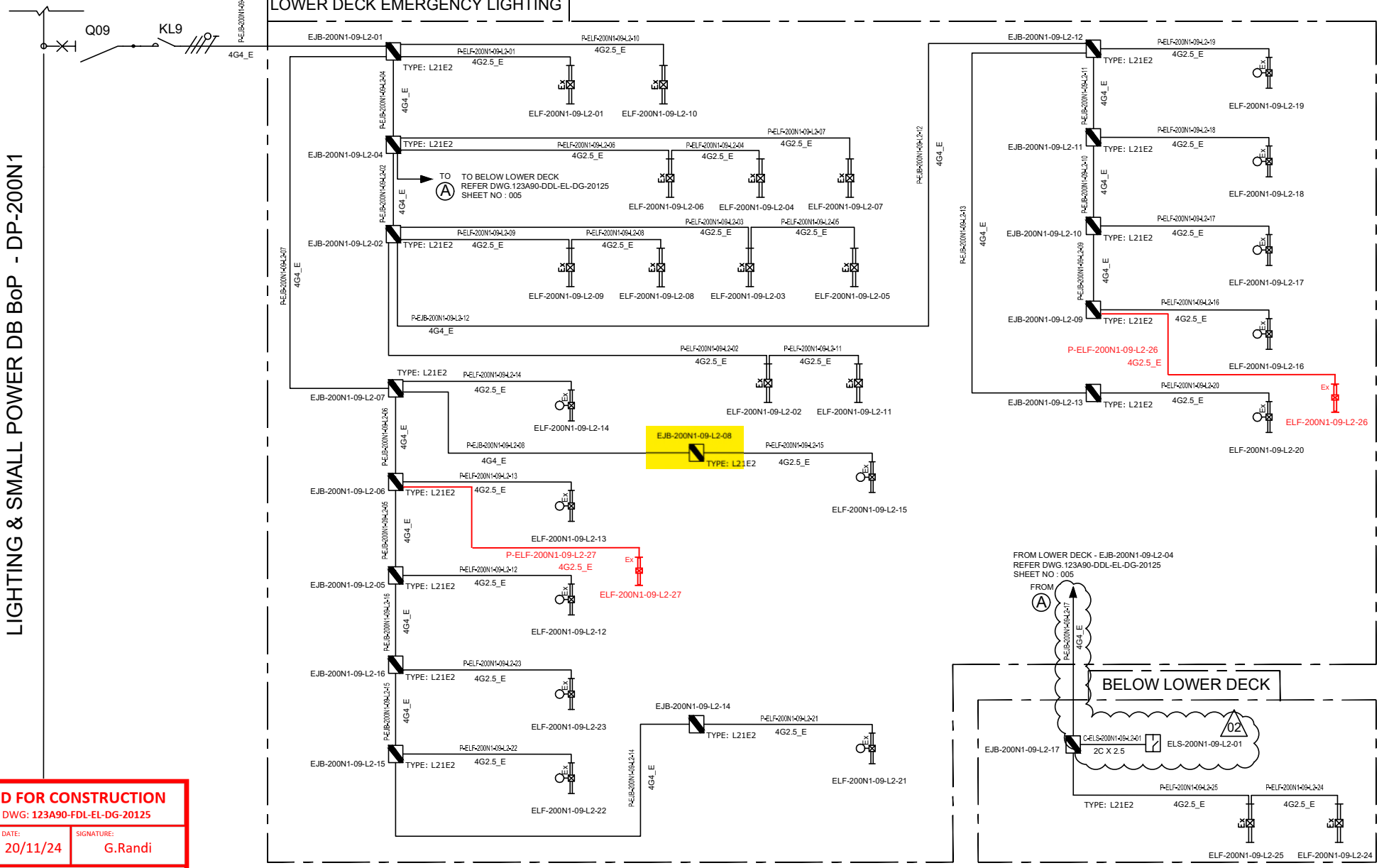
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

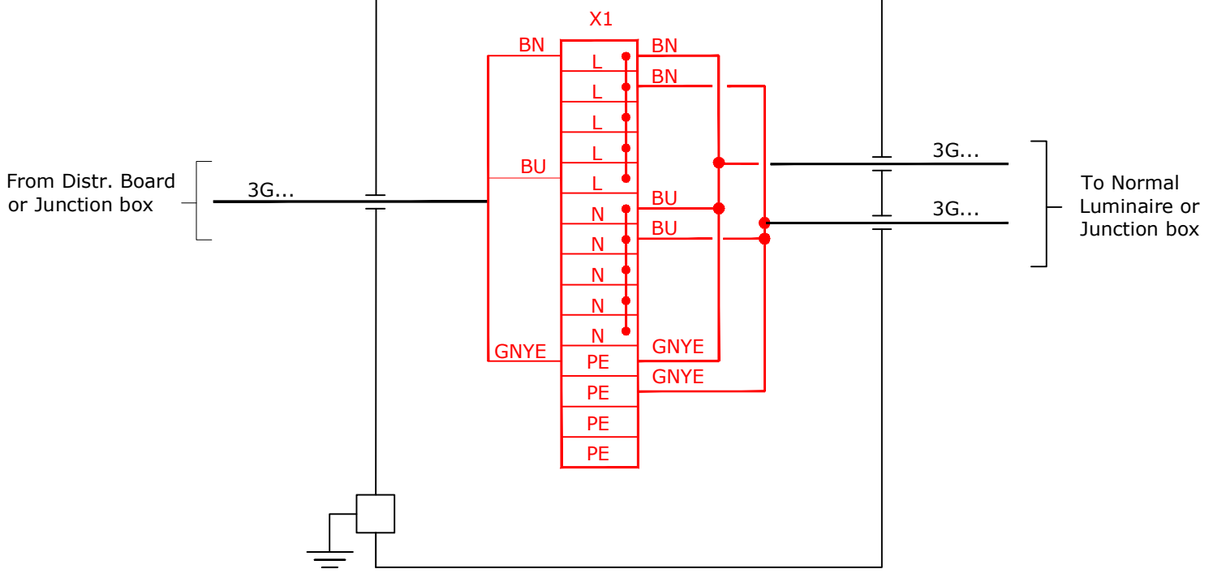
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

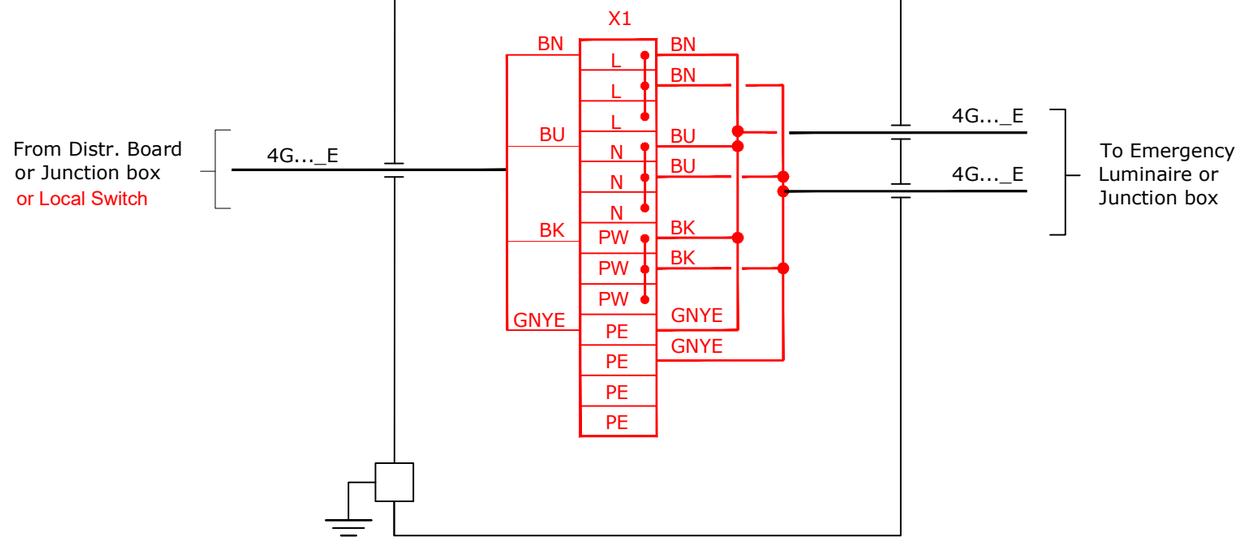
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

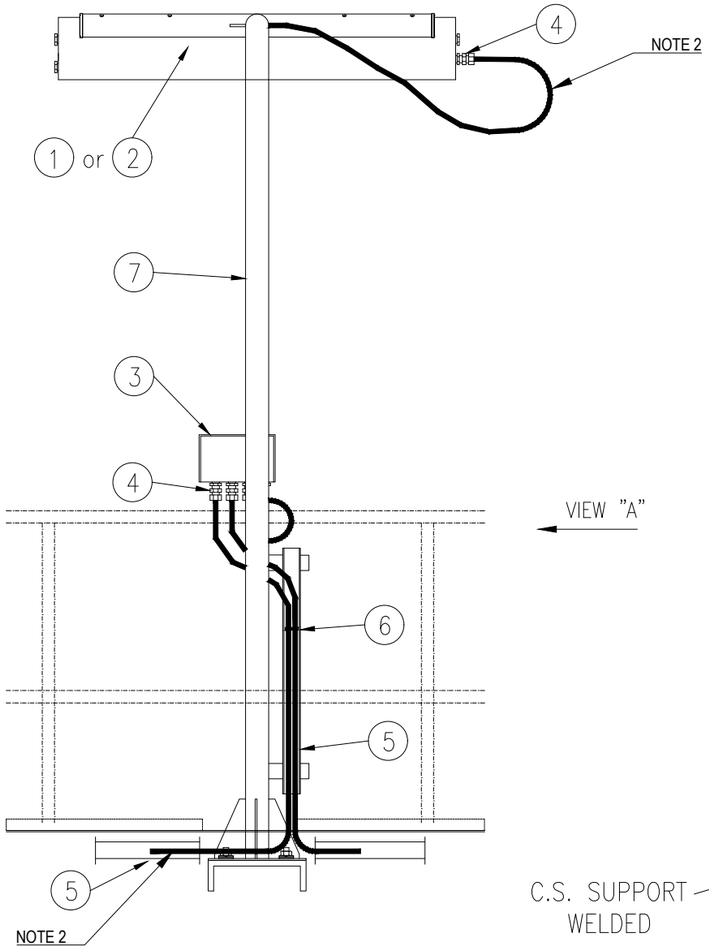
SHEET 016

REV. 01

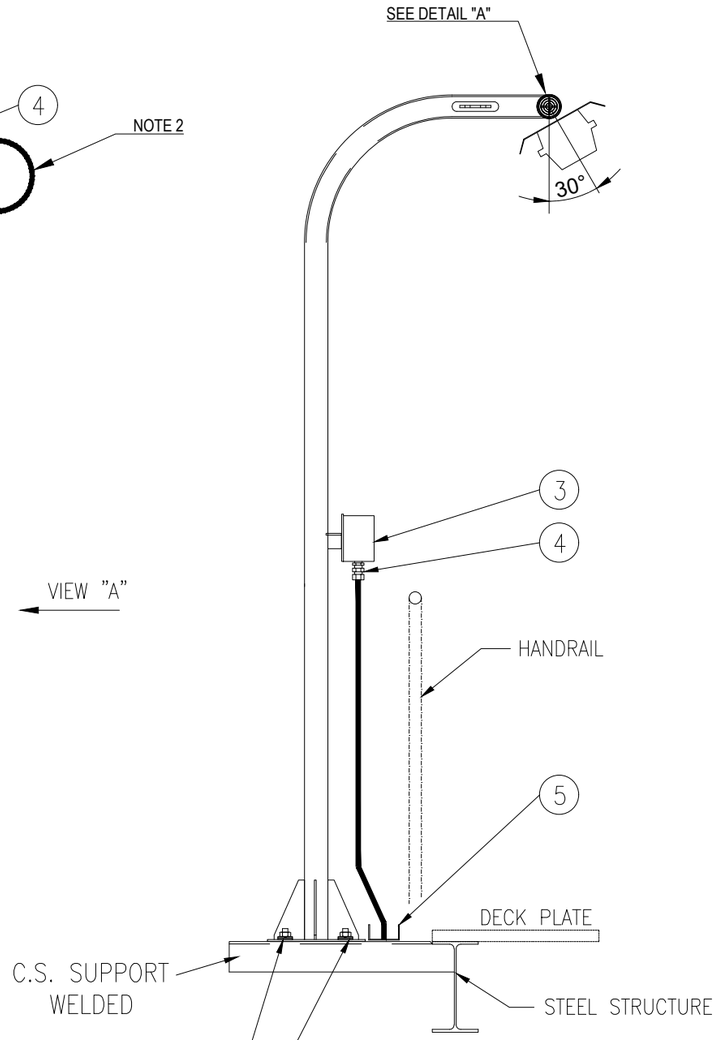
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

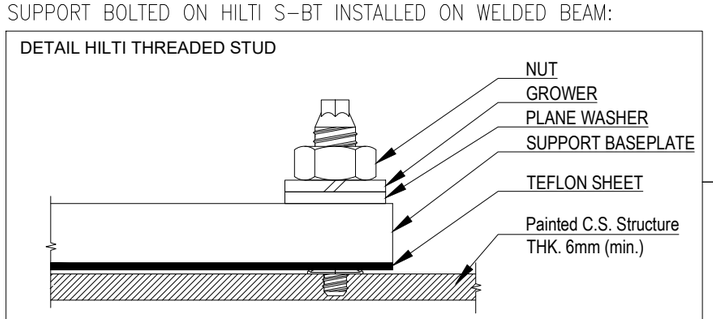


VIEW "A"

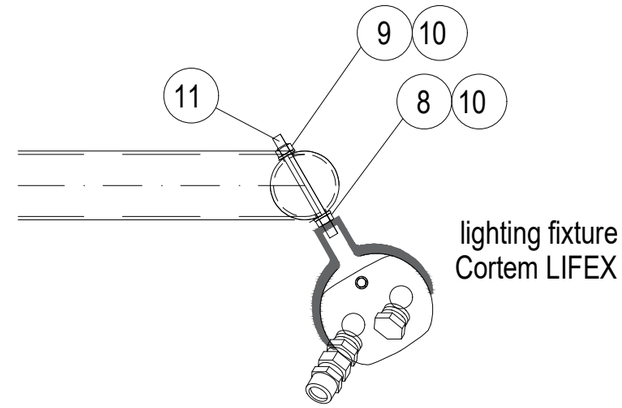


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

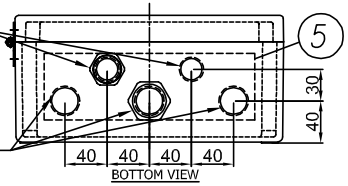
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

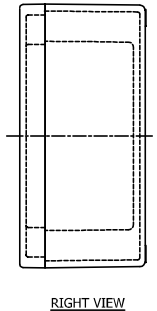
WARNINGS : DO NOT OPEN WHEN ENERGIZED

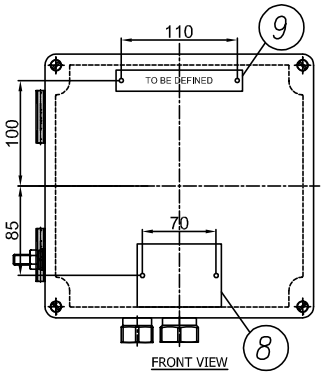
(9) PLATE DETAIL



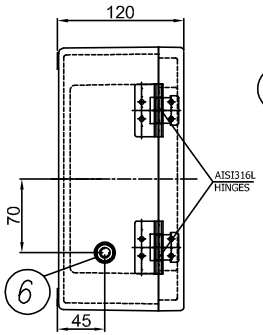
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

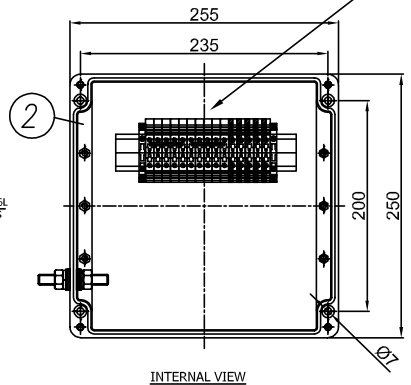

RIGHT VIEW



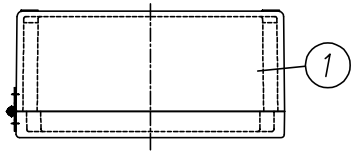
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

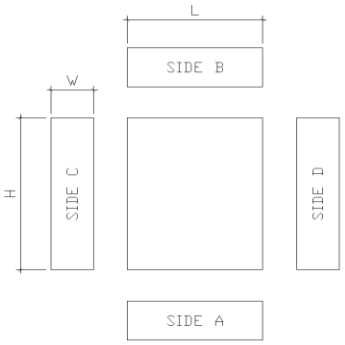
SHEET 005

REV. 04

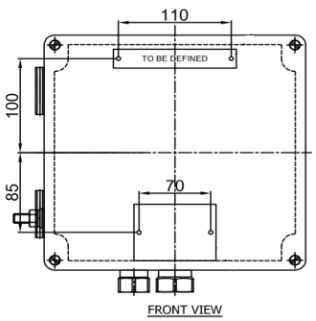
F.to UNI A3: 420mmx297mm

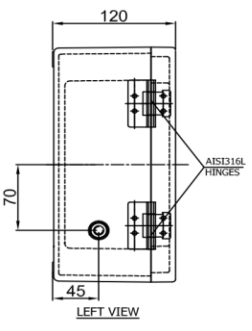
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-09	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001239		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

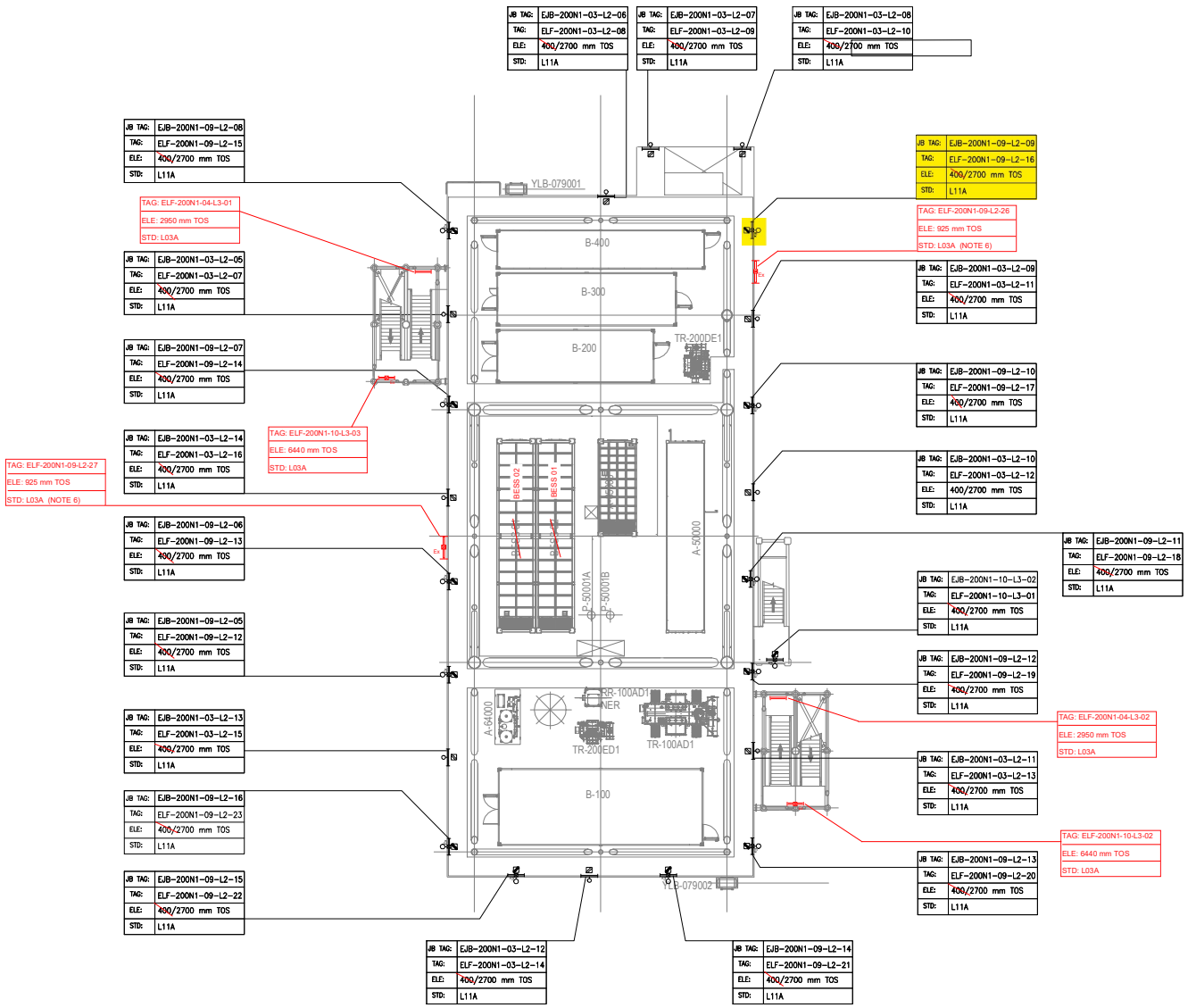
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	PL
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

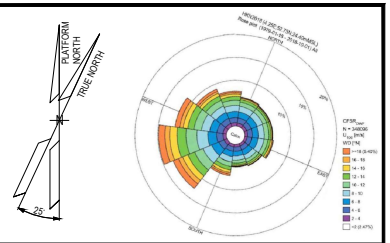
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-13	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-13T09:00:14.071Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T17:16:39.409Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

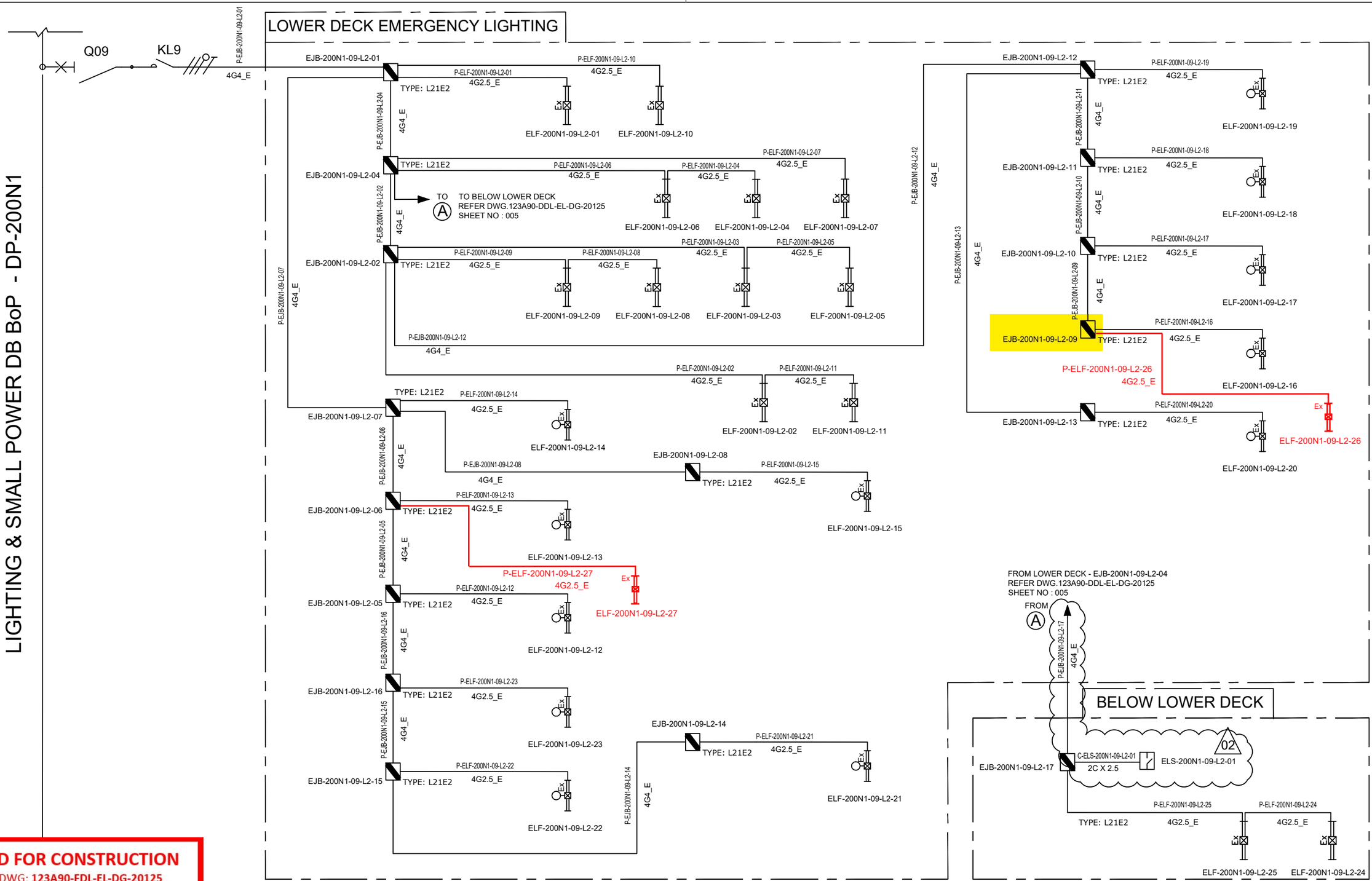
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

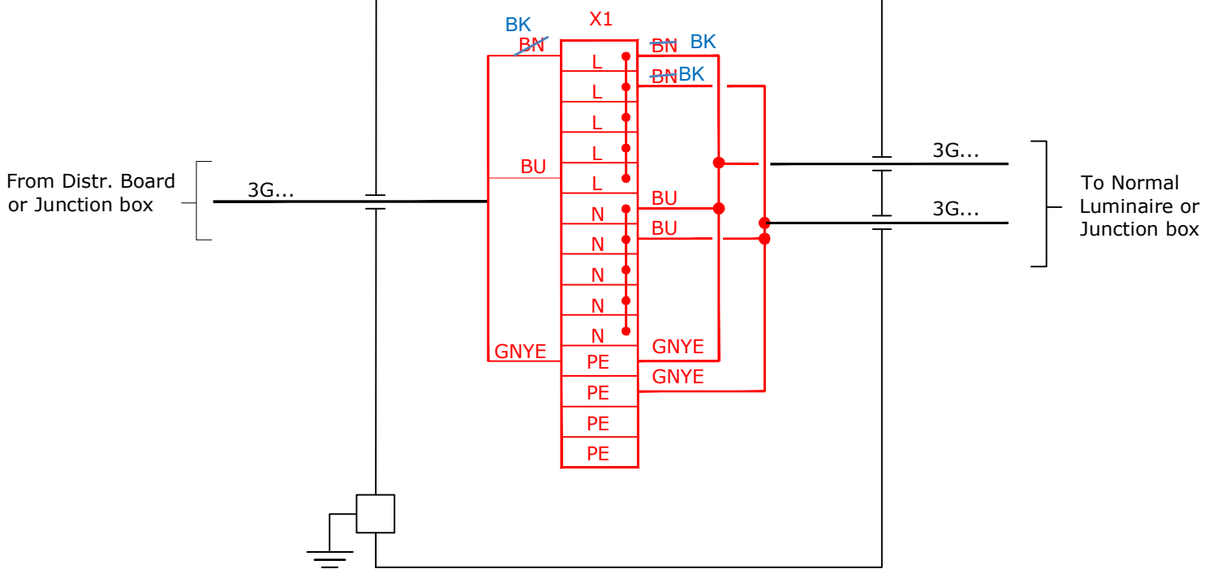
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

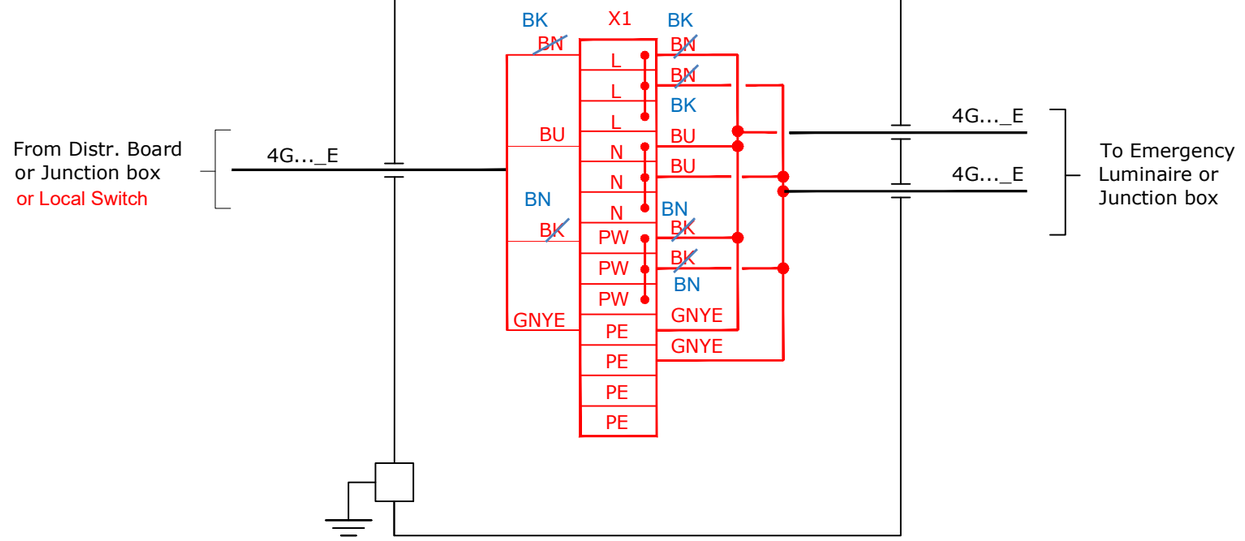
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

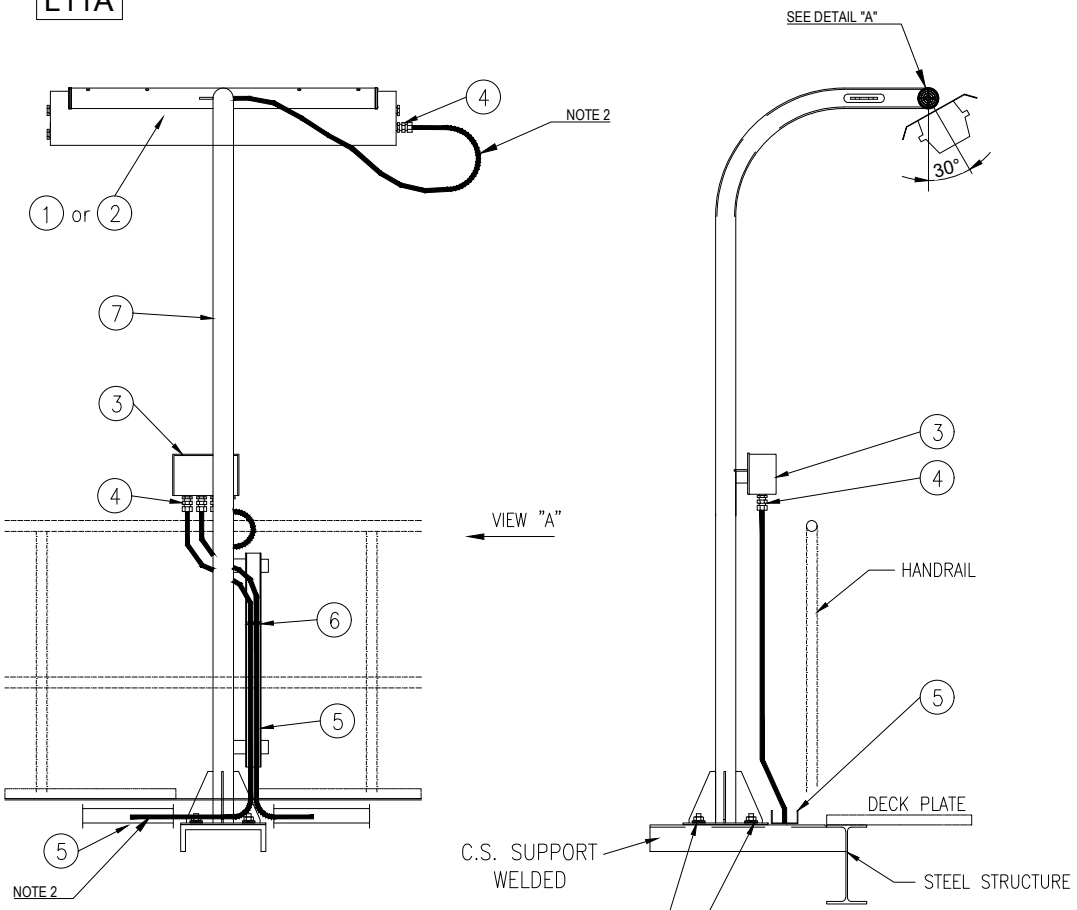
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	016	01

F.to UNI A3: 420mmx297mm

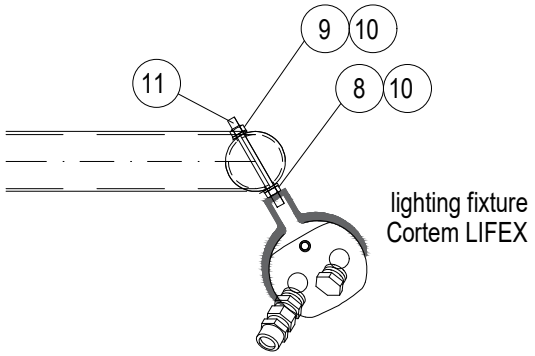
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L11A



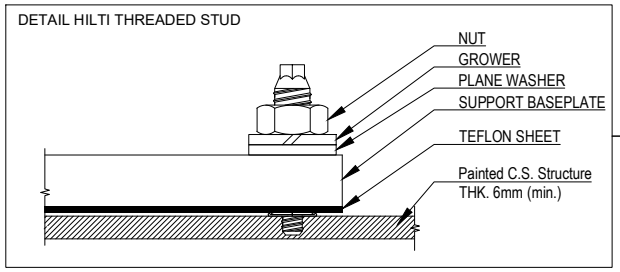
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

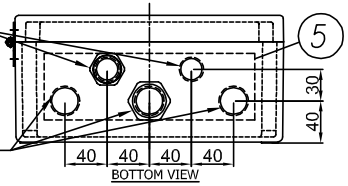
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

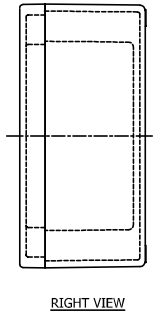
WARNINGS : DO NOT OPEN WHEN ENERGIZED

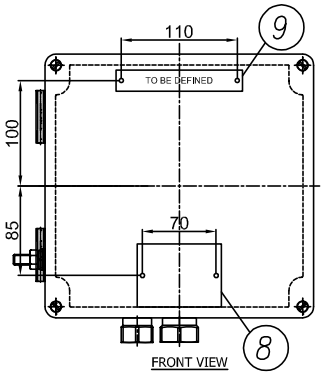
(9) PLATE DETAIL



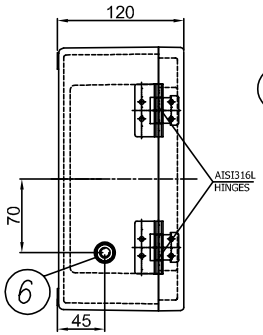
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

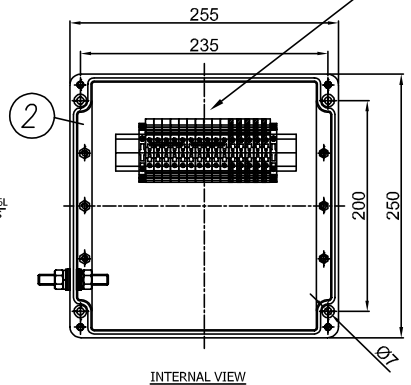

RIGHT VIEW



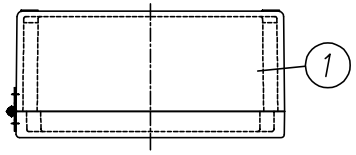
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

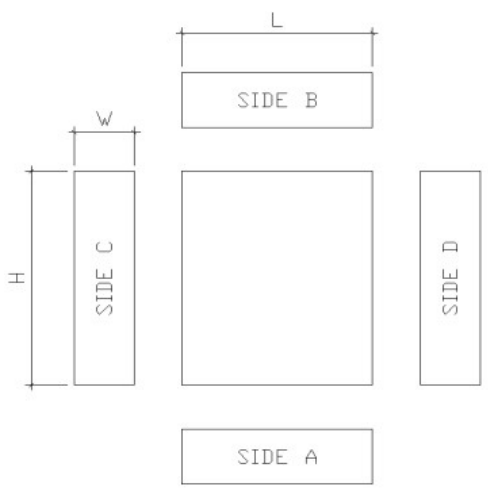
SHEET 005

REV. 04

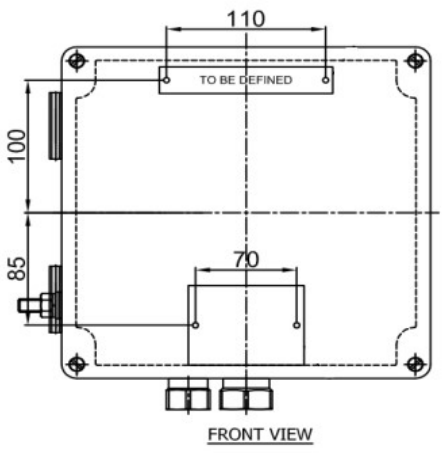
File Name : 1724001481-EL-DA-00003 Rev. 01

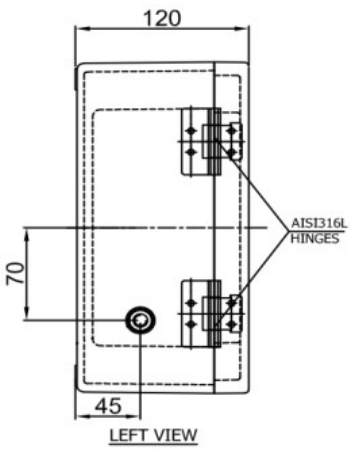
F.to UNI A3: 420mmx297mm

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-10	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001240		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

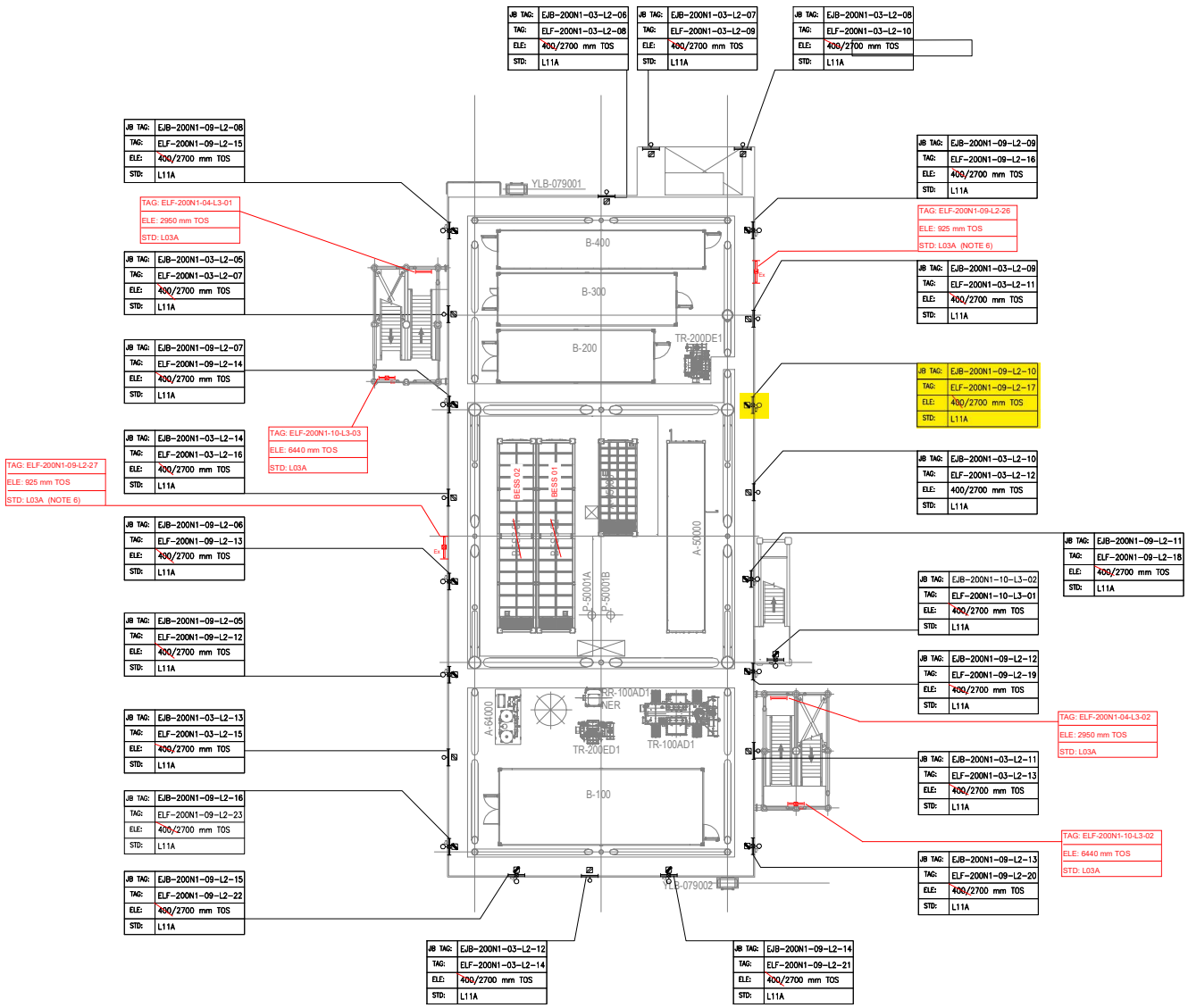
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	PL
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

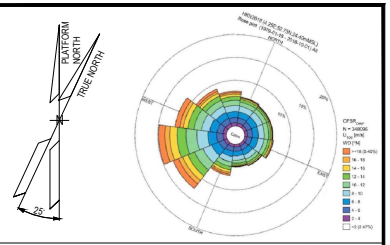
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-08	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:18:42.808Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-16T17:14:15.745Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

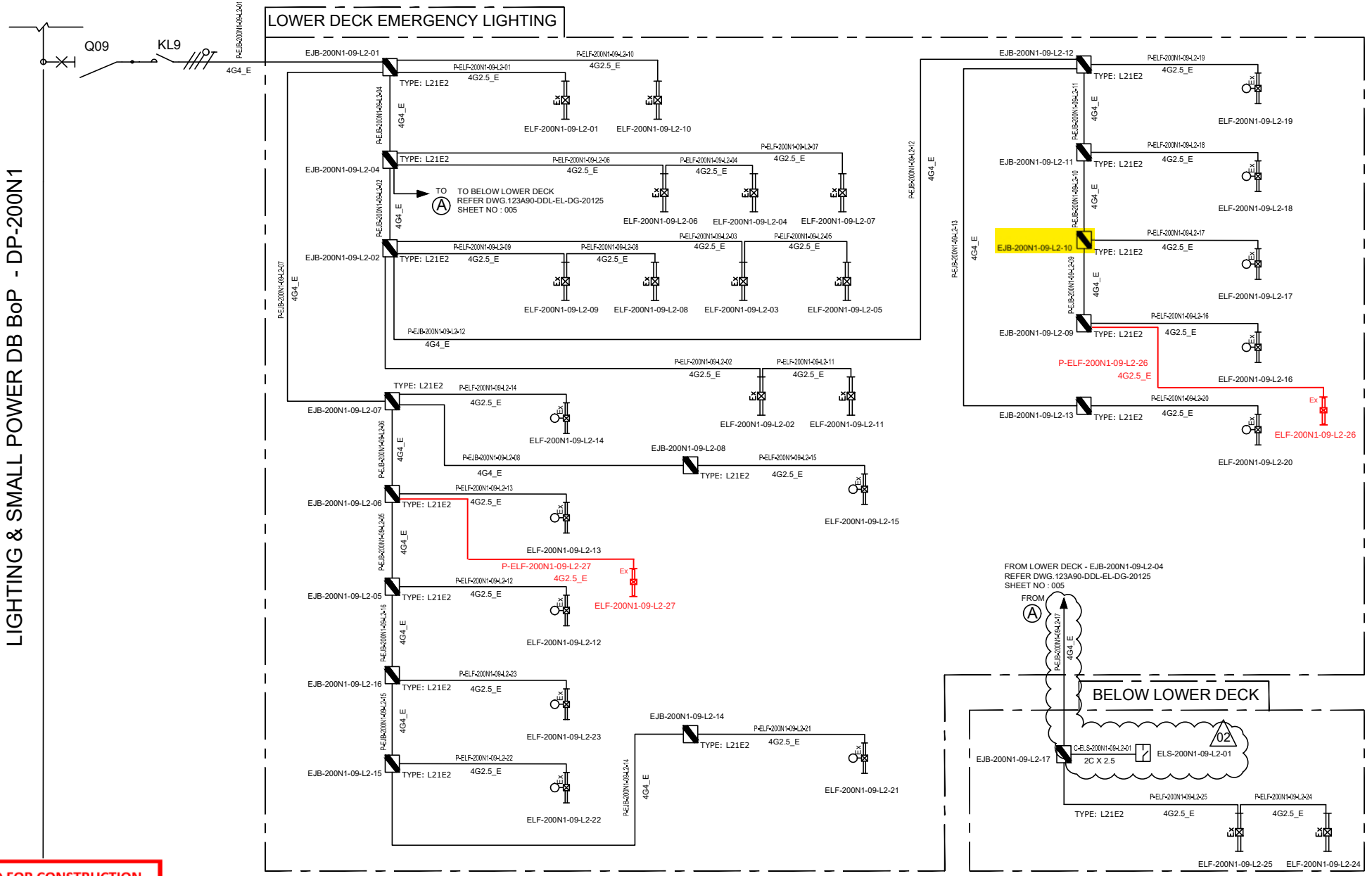
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

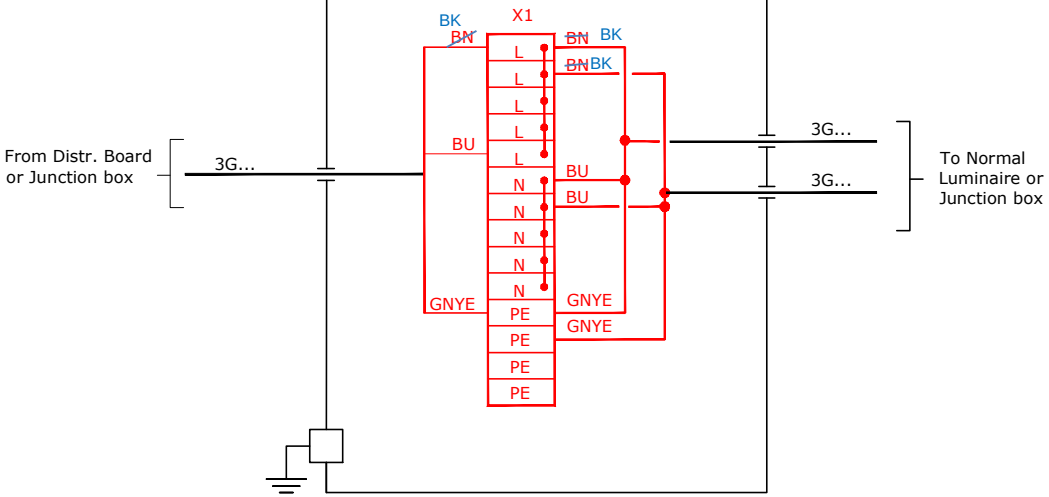
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

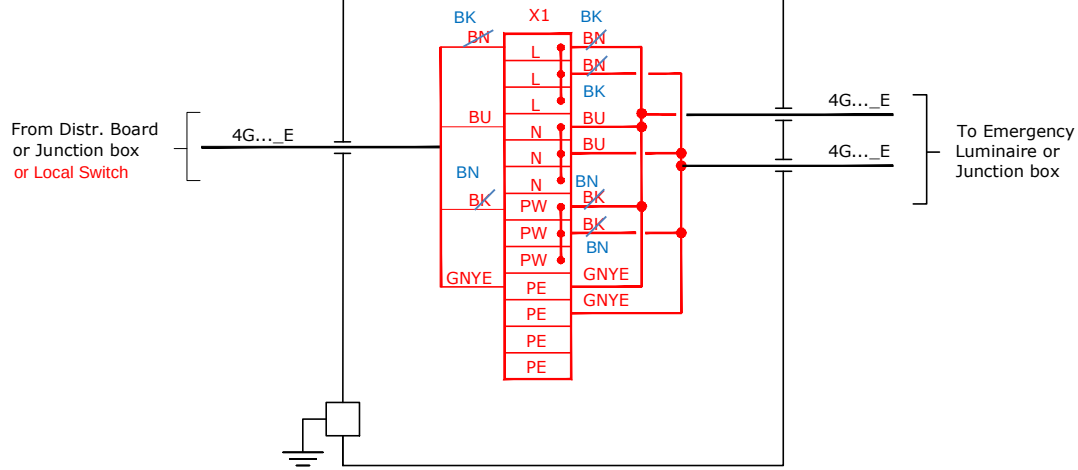
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

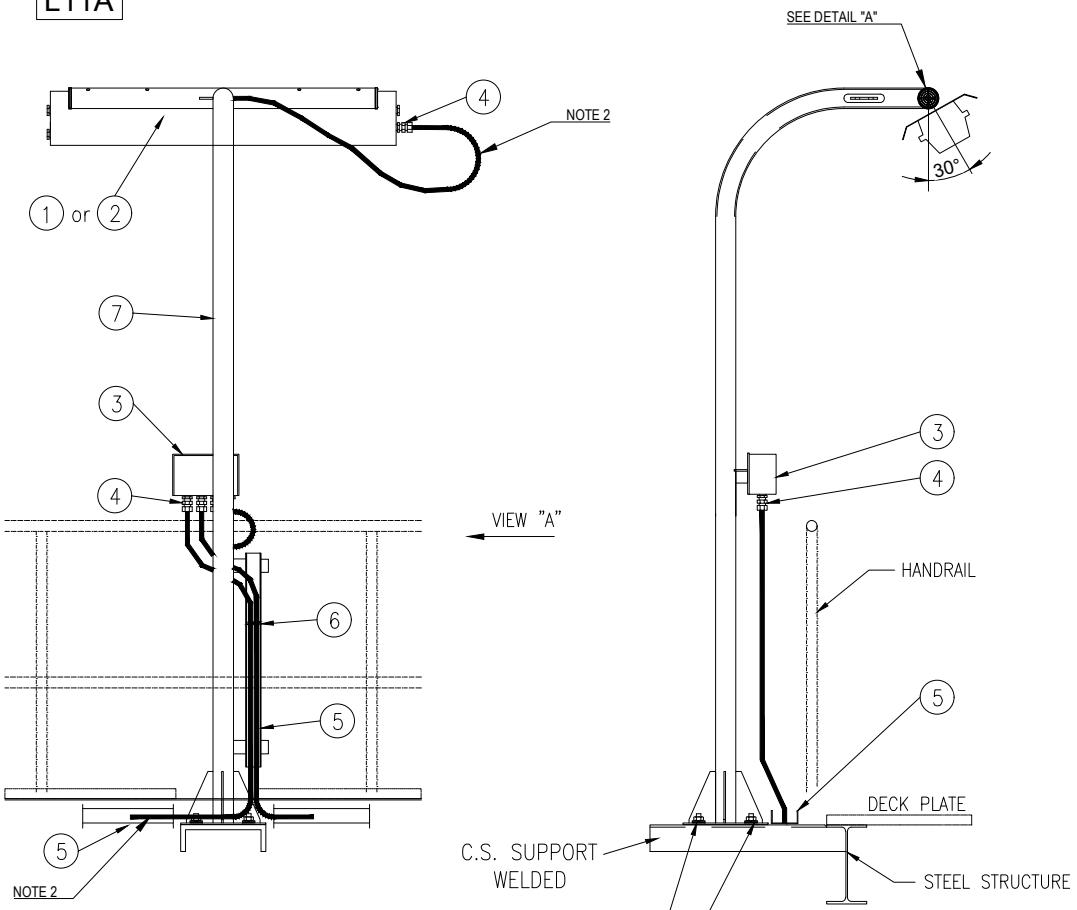
SHEET 016

REV. 01

F.to UNI A3: 420mmx297mm

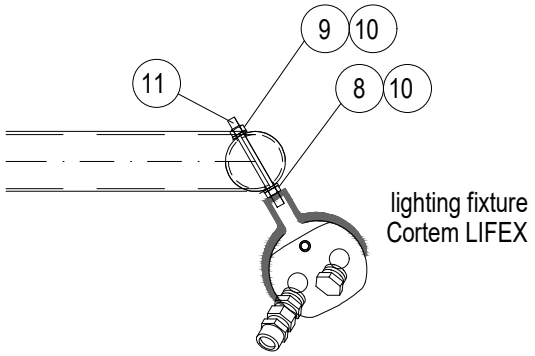
File Name : 123A90-DDL-EL-DG-20125

L11A



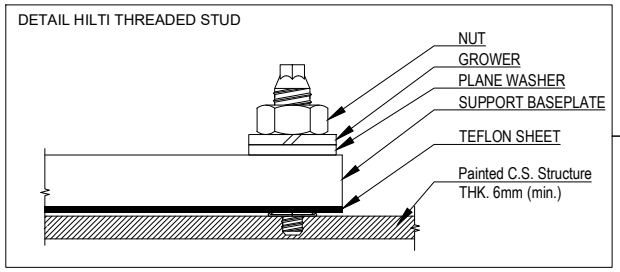
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

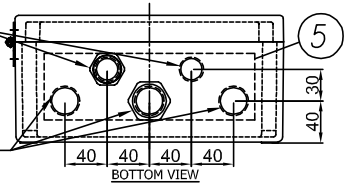
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

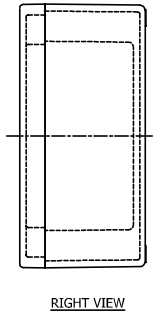
WARNINGS : DO NOT OPEN WHEN ENERGIZED

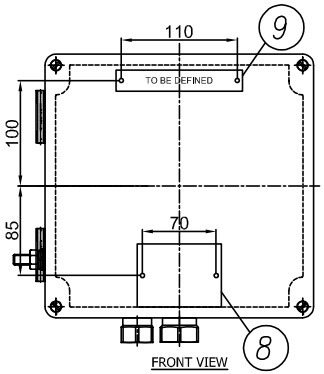
(9) PLATE DETAIL



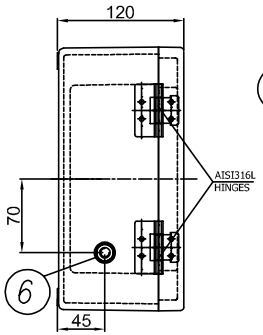
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

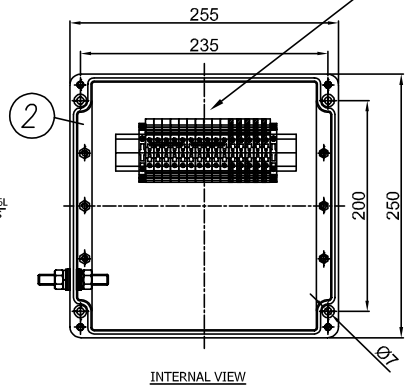

RIGHT VIEW



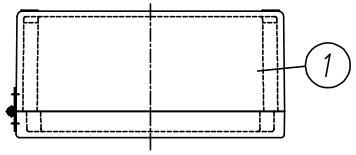
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

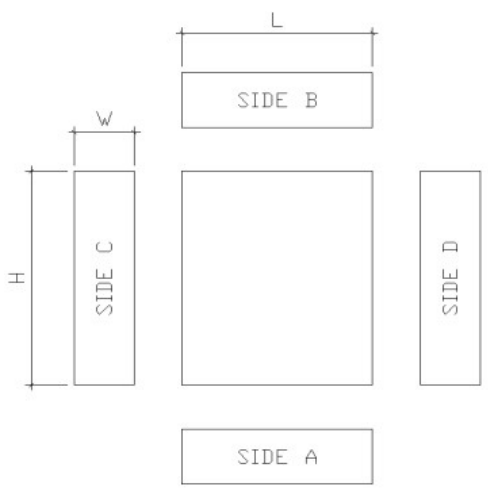
SHEET 005

REV. 04

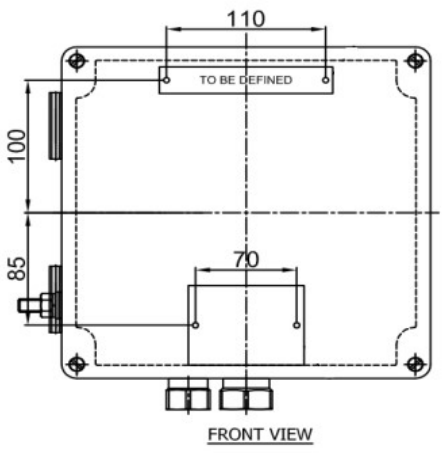
File Name : 1724001481-EL-DA-00003 Rev. 01

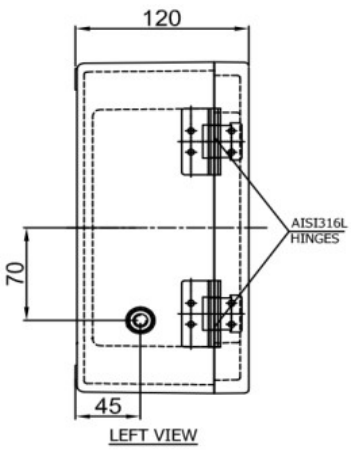
F.to UNI A3: 420mmx297mm

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-11	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001241		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

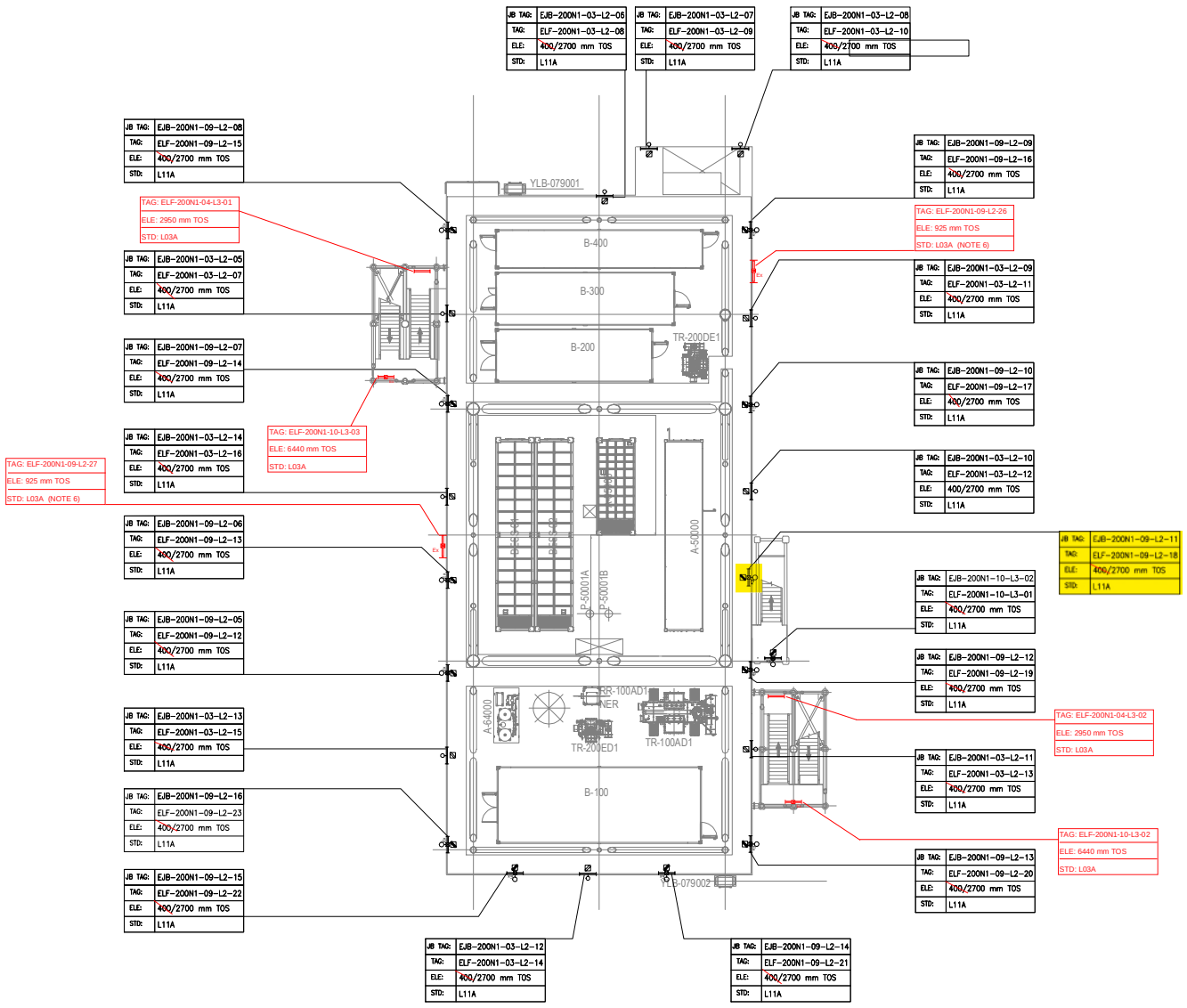
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

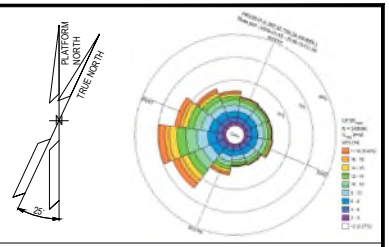
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:10:18.865Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:58:43.820Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

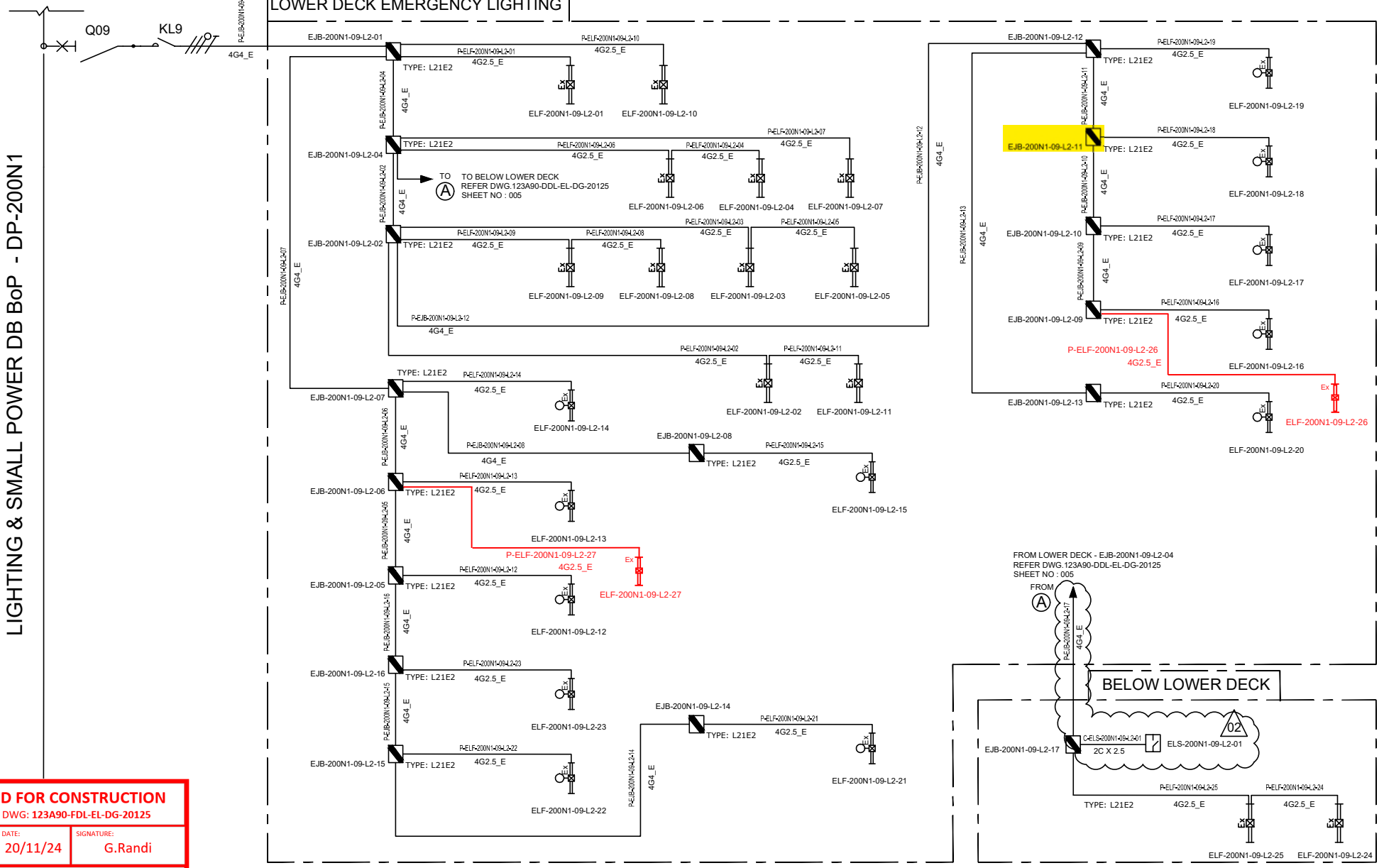
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

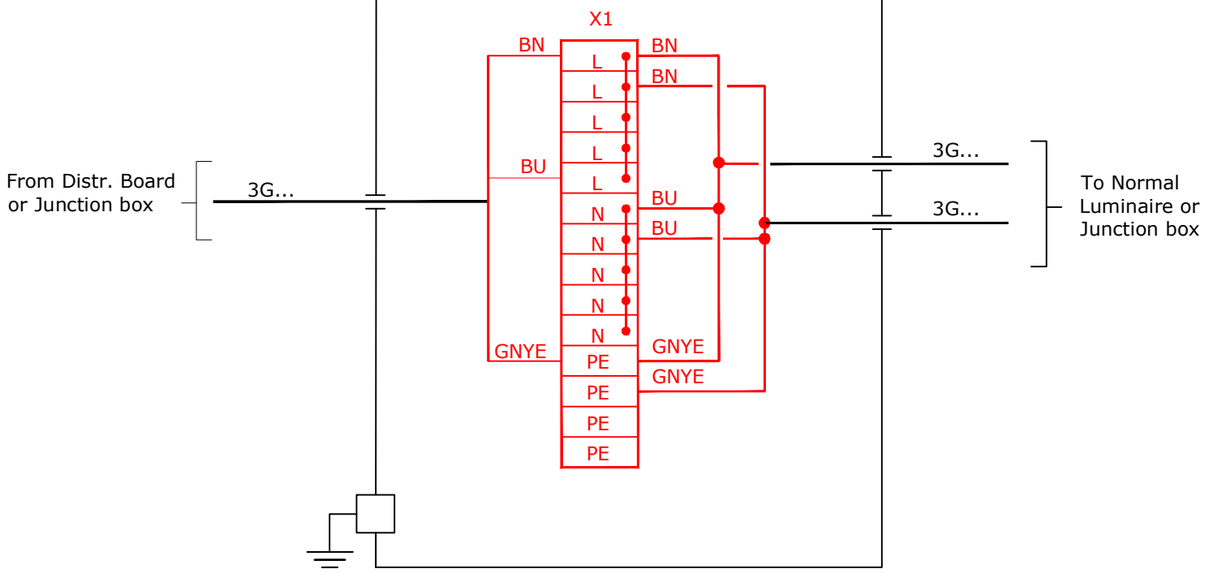
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

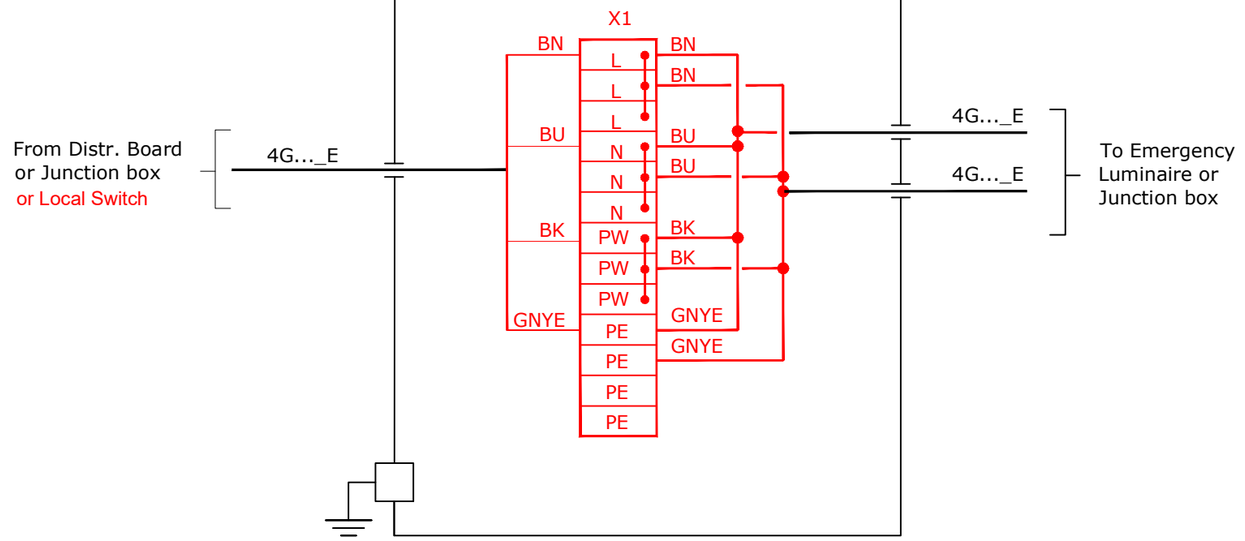
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

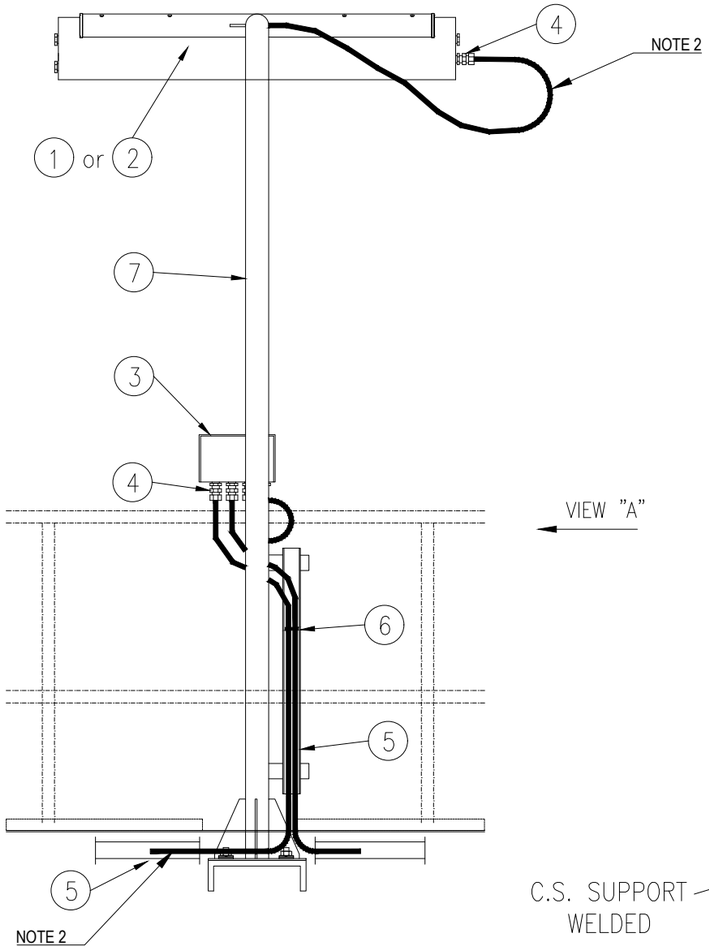
SHEET 016

REV. 01

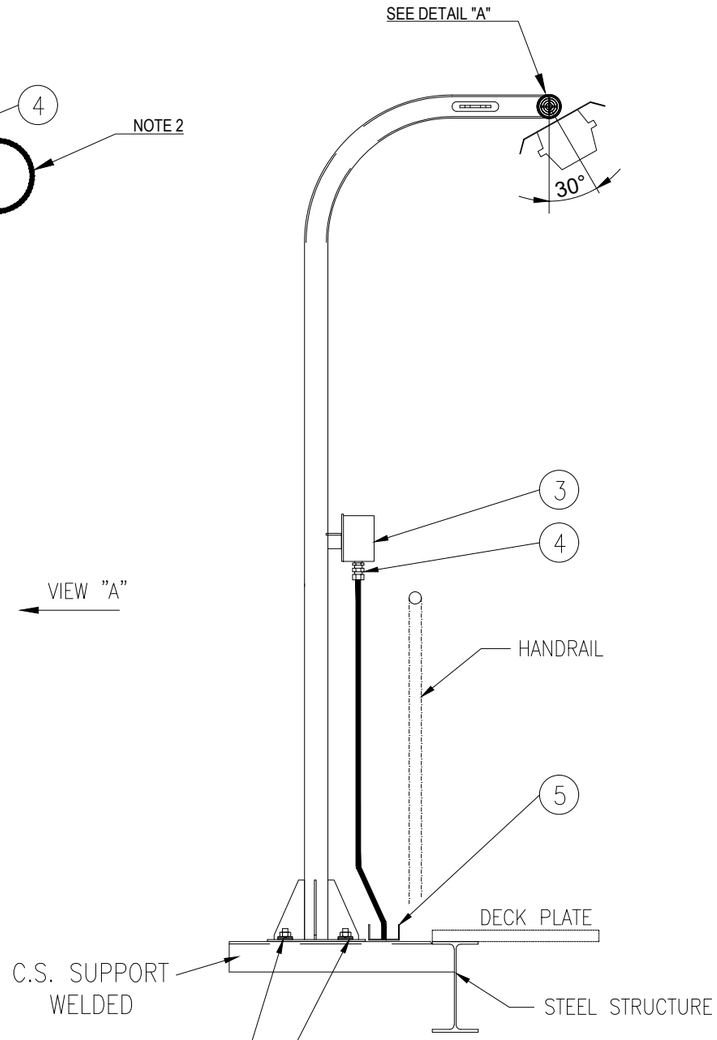
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

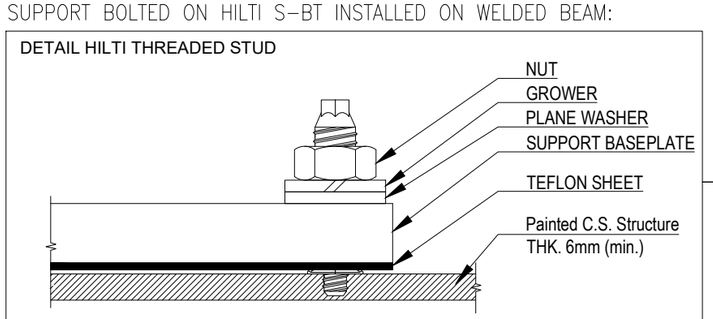


VIEW "A"

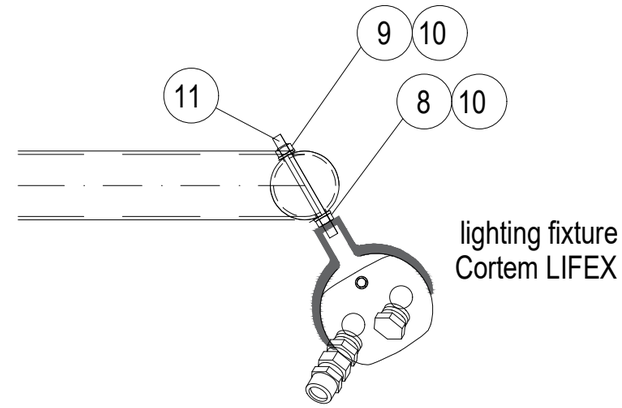


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

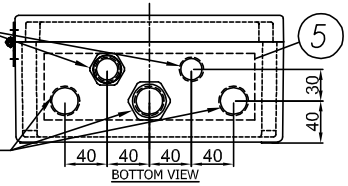
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

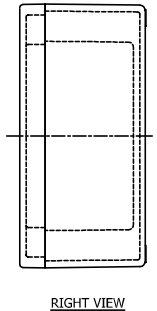
WARNINGS : DO NOT OPEN WHEN ENERGIZED

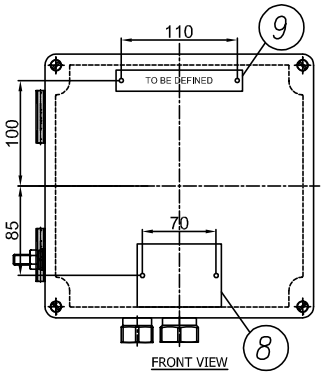
(9) PLATE DETAIL



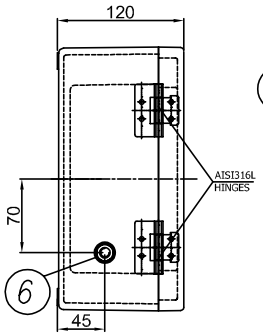
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

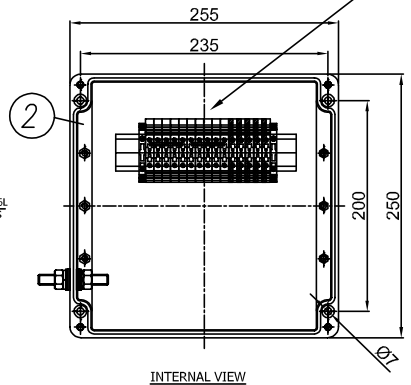

RIGHT VIEW



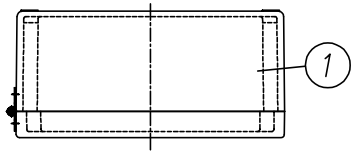
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

SHEET 005

REV. 04

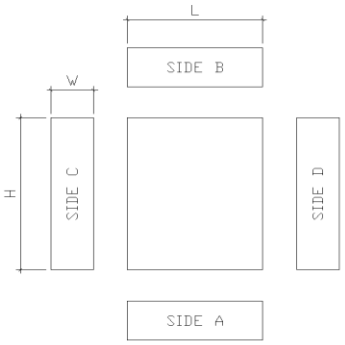
F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

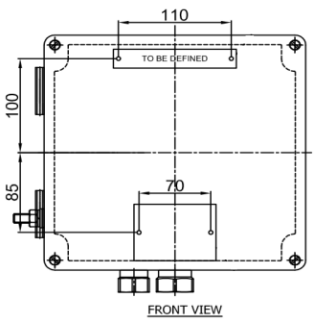
1	General				
2		Required	Manufacturer Proposal	Comments	
3	Manufacturer	by Vendor	TECHNOR-ITALSMEA		01
4	Order Status	for Purchase			00
5	General - Electrical Input Data				
6	System Voltage	400/230 V ac			00
7	Voltage Variation (Steady State)	±5 %			00
8	Rated Frequency	50Hz			00
9	Frequency Variation (Steady State)	±2 %			00
10	Number of Phases	3ph /1ph + neutral TN-S system			00
11	Installation conditions				
12	Ambient Temperature	-8.4°C to +25°C			00
13	Relative humidity (%)	Maximum 95 %			00
14	Atmosphere	Marine Offshore-fixed			00
15	Altitude > 1000 m (m)	not more than 1000 m			00

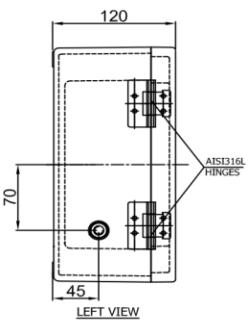
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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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ITEM	Tag	EJB-200N1-09-L2-12	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001242		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

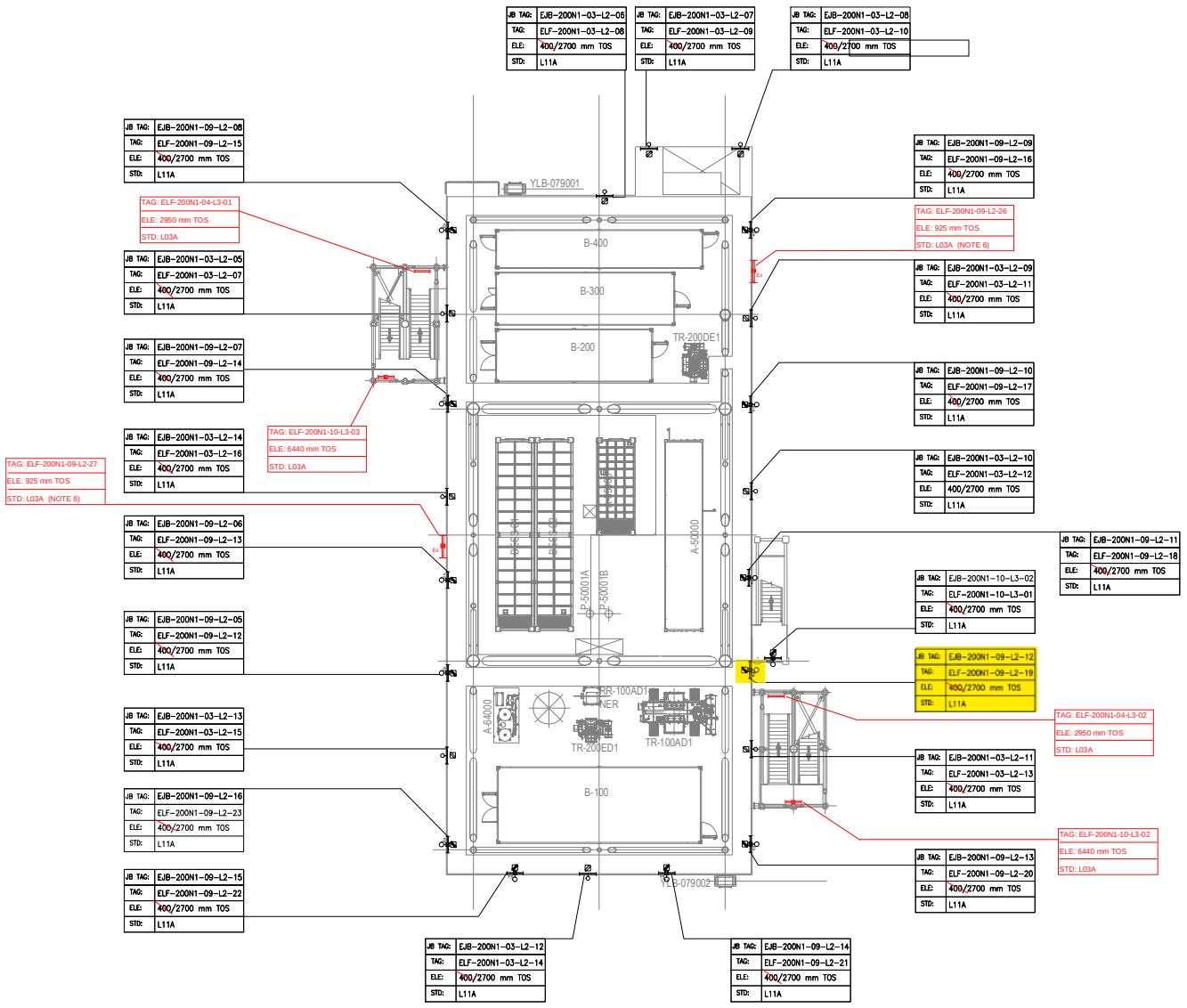
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	PL
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

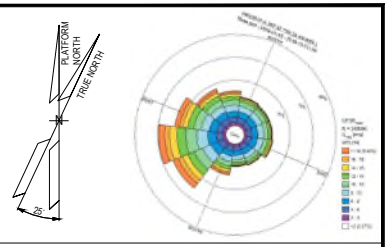
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:10:30.030Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:37:46.864Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

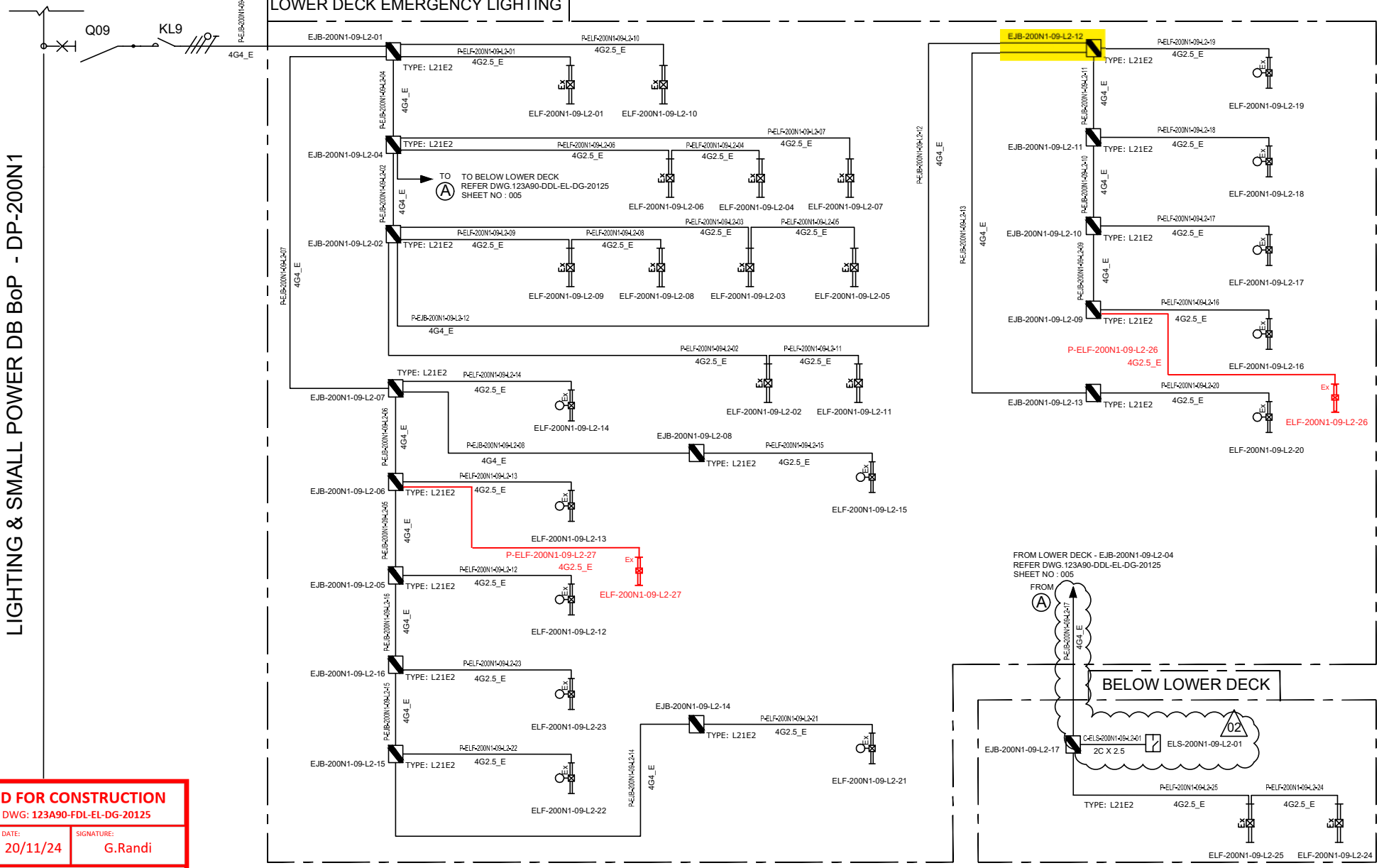
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

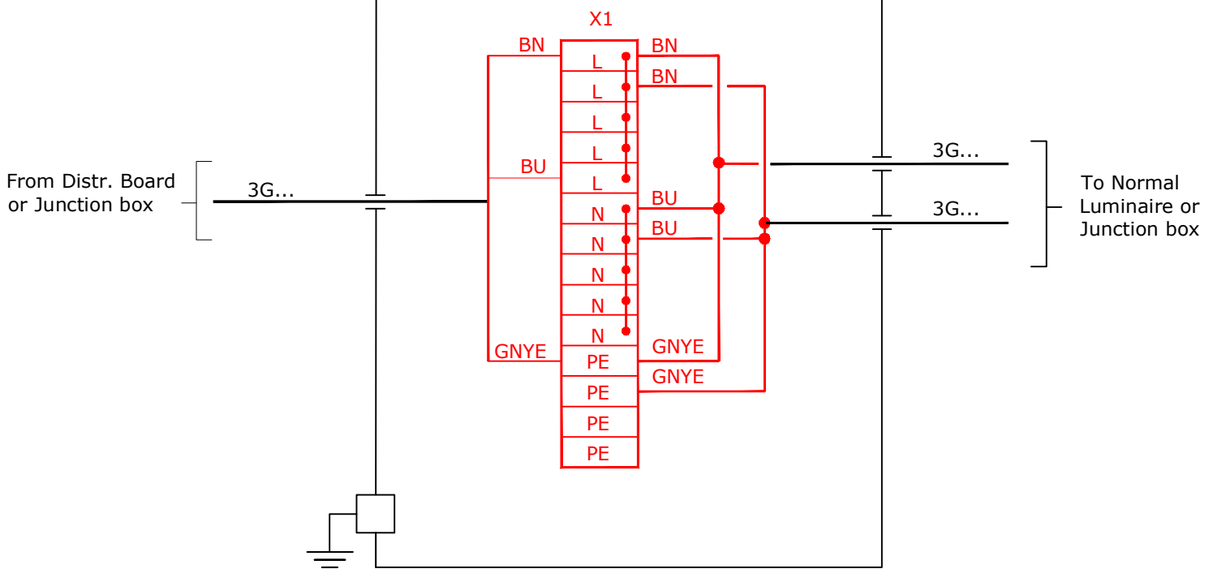
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

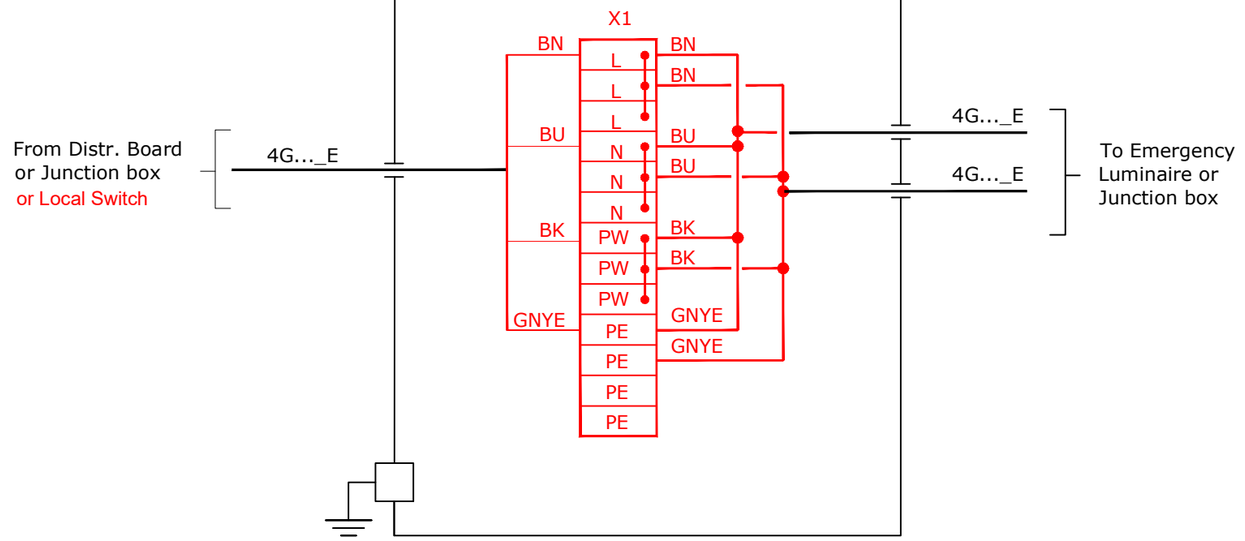
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

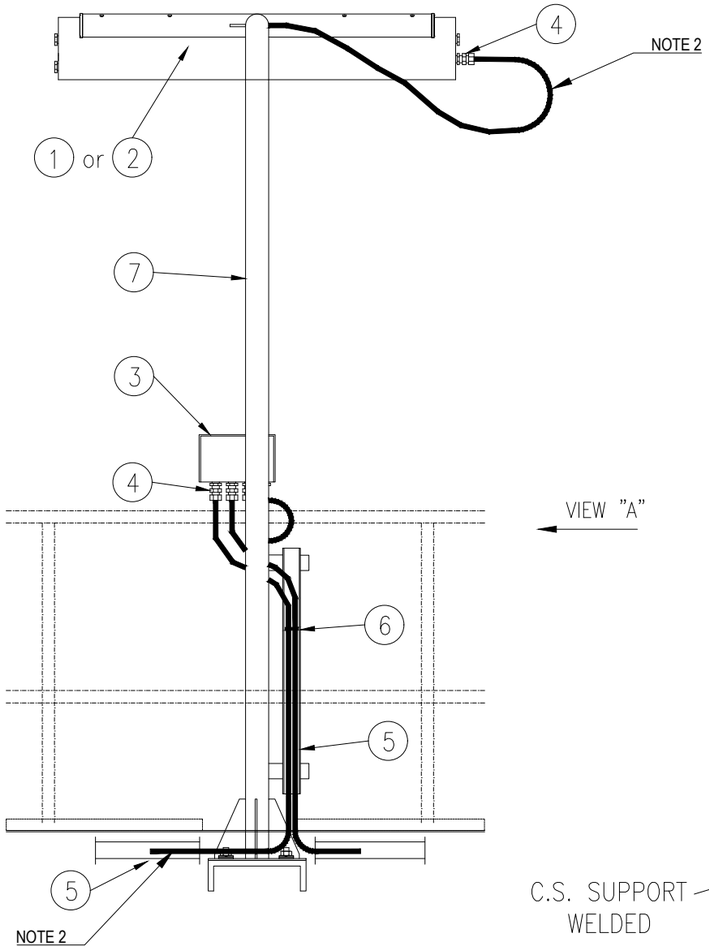
SHEET 016

REV. 01

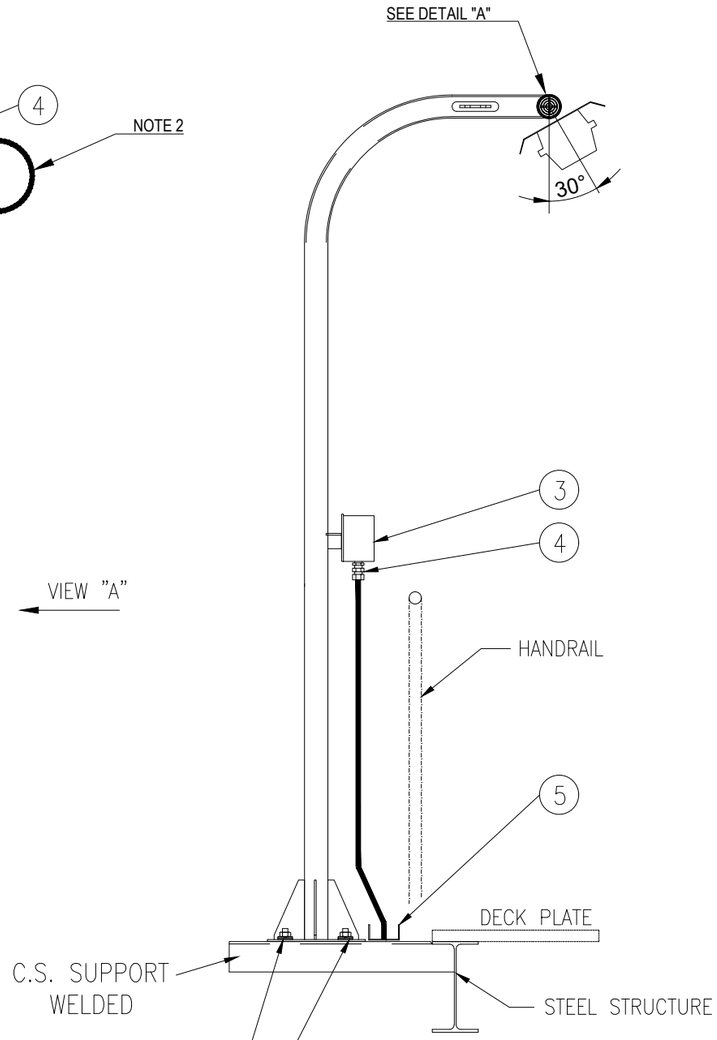
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

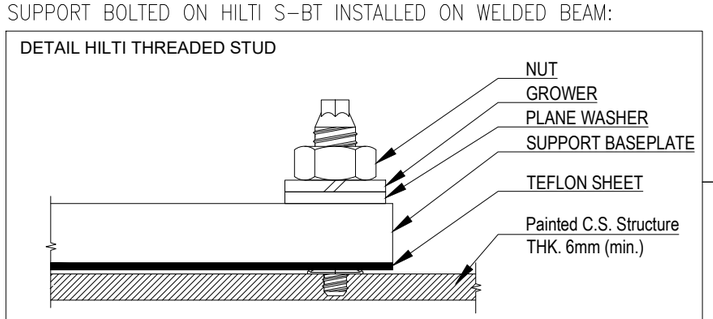


VIEW "A"

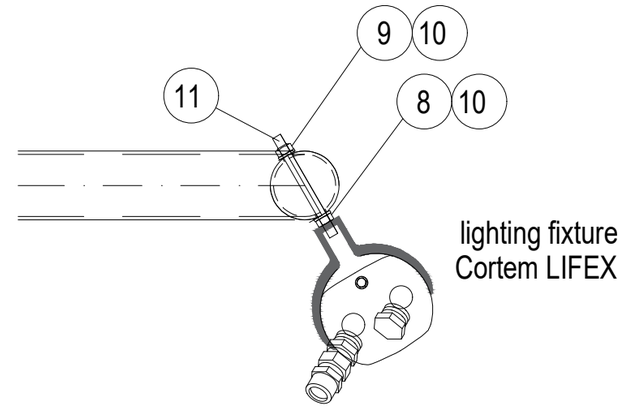


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

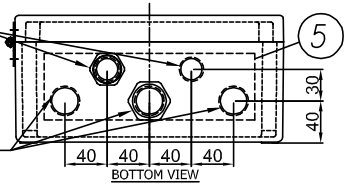
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

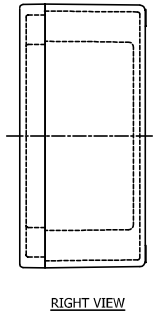
WARNINGS : DO NOT OPEN WHEN ENERGIZED

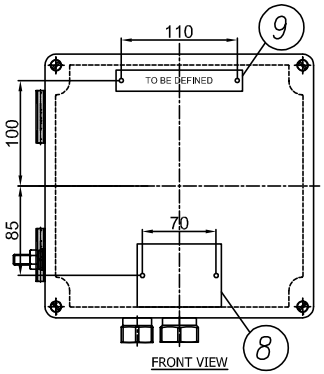
(9) PLATE DETAIL



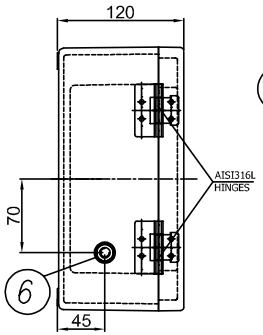
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

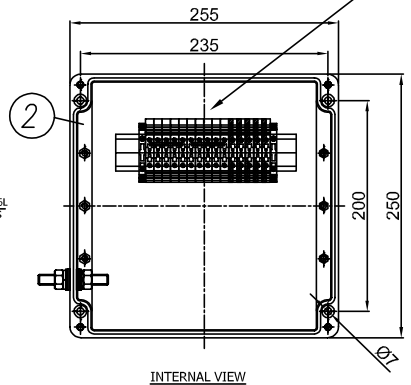

RIGHT VIEW



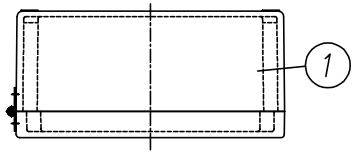
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

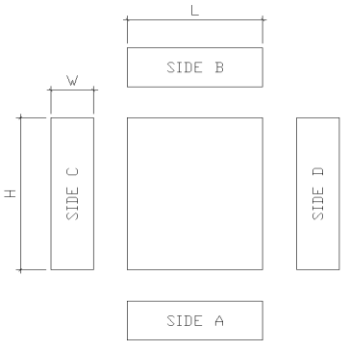
SHEET 005

REV. 04

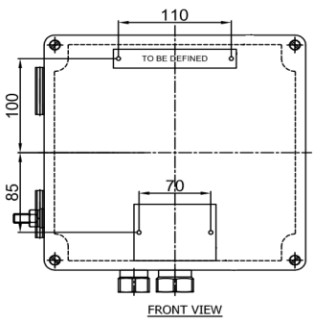
F.to UNI A3: 420mmx297mm

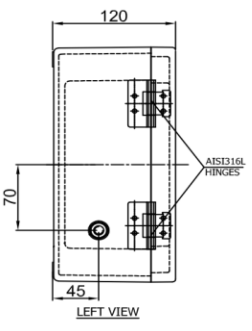
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	EJB-200N1-09-L2-13	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001243		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

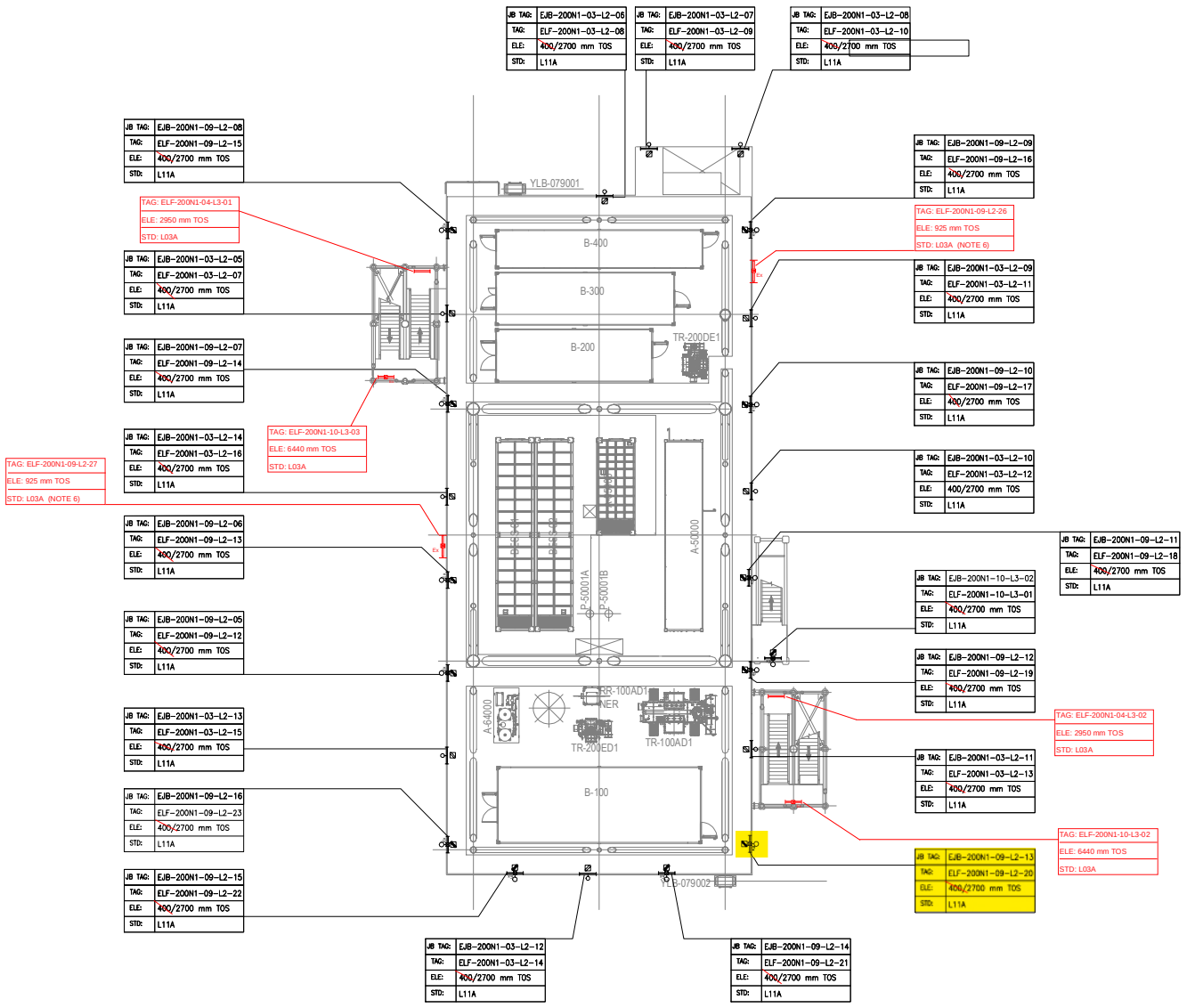
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

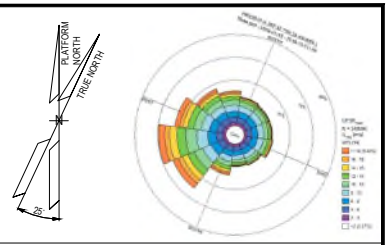
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-04	2024-12-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-04T16:16:00.468Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-07T08:00:14.148Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

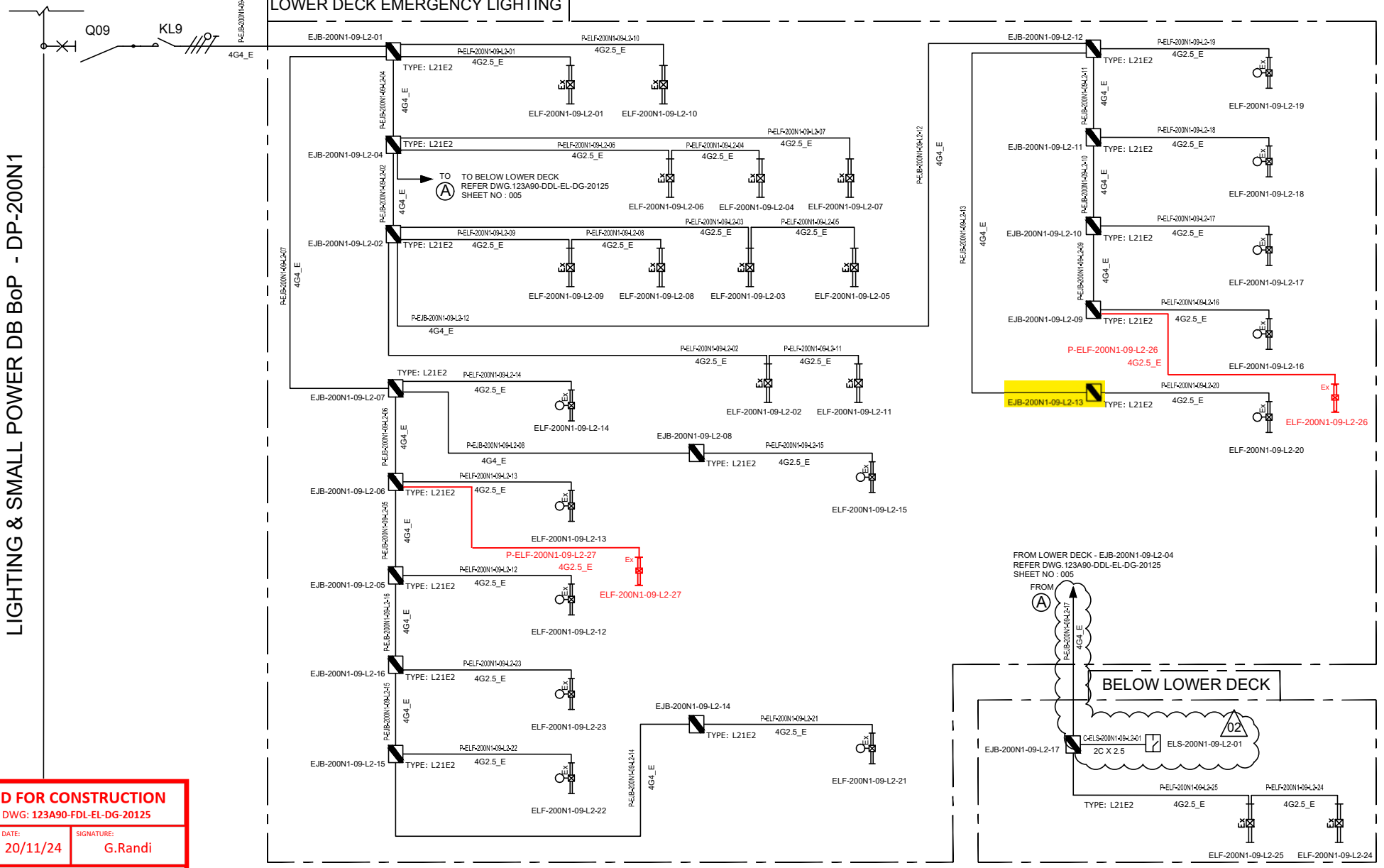
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

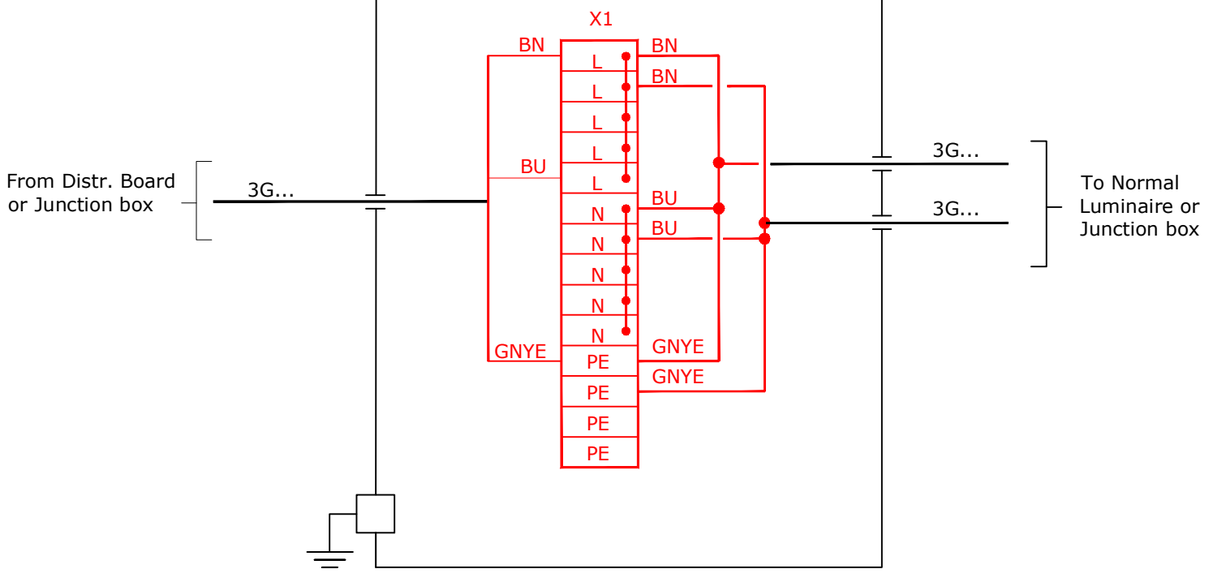
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

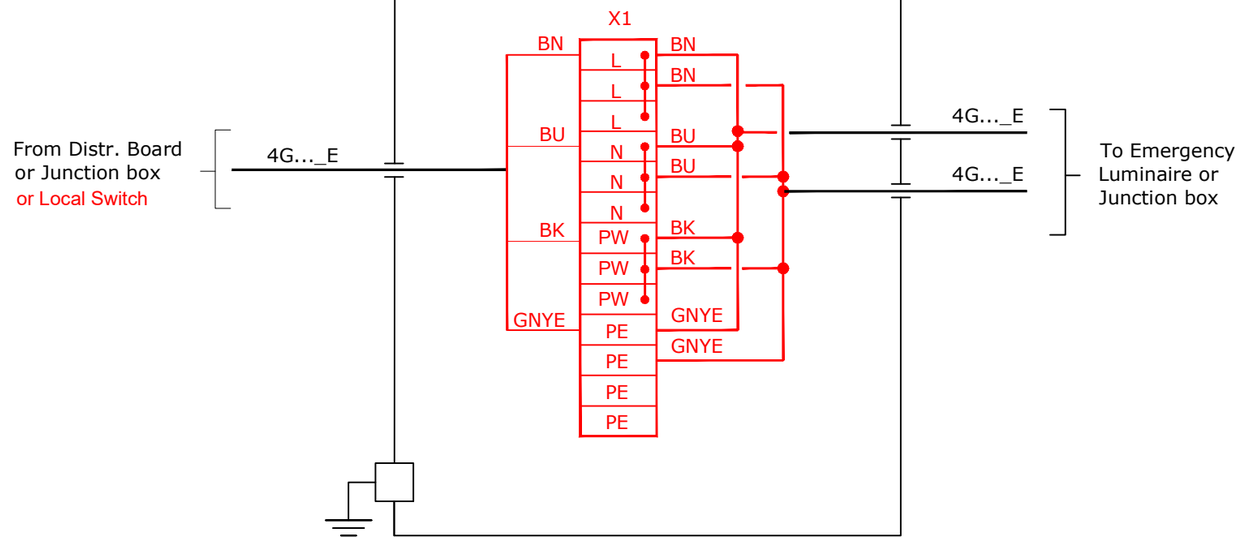
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

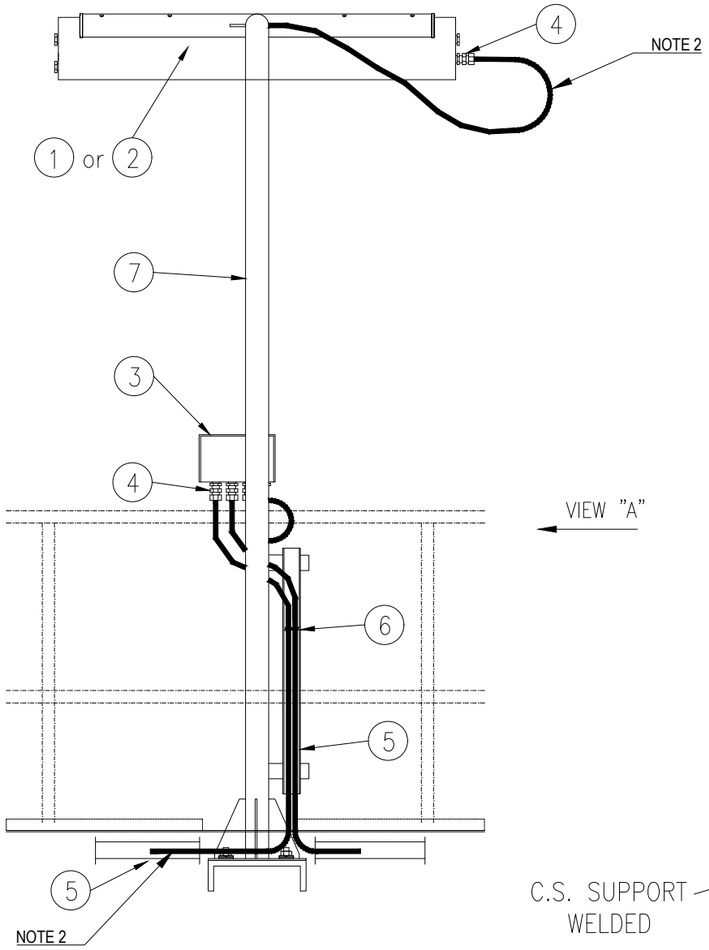
SHEET 016

REV. 01

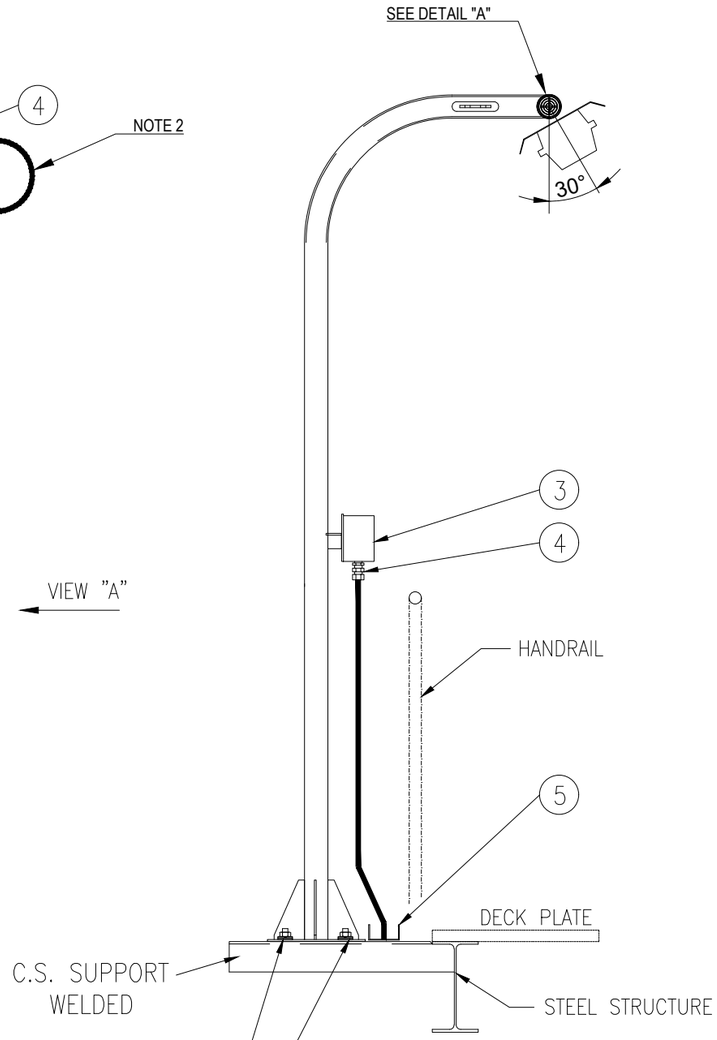
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

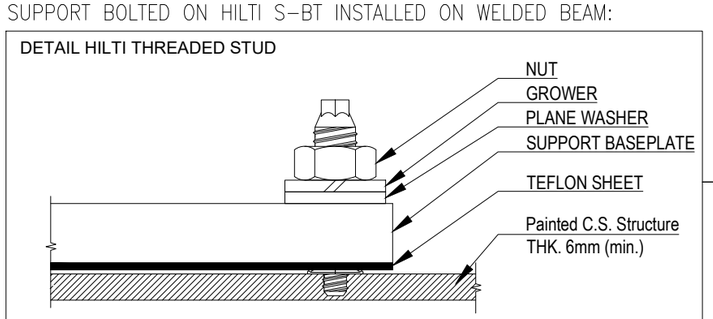


VIEW "A"

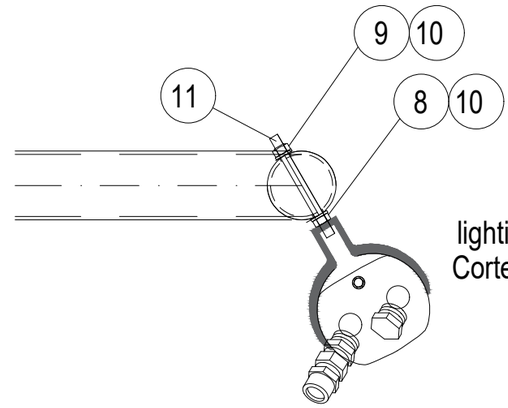


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

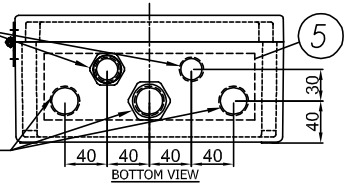
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

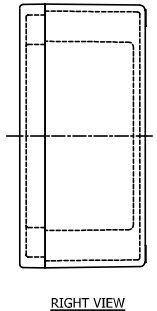
WARNINGS : DO NOT OPEN WHEN ENERGIZED

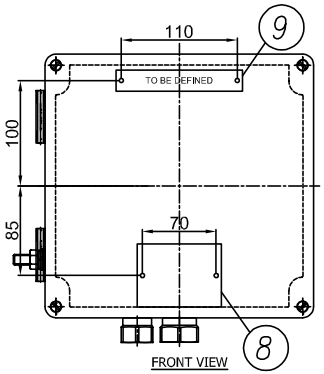
(9) PLATE DETAIL



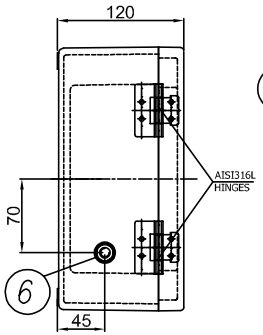
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

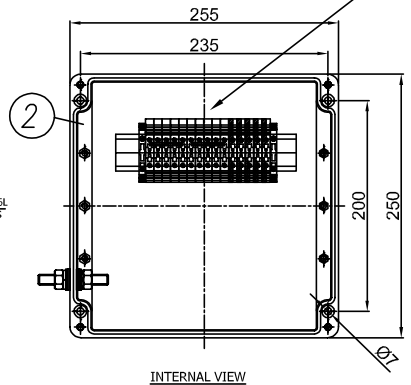

RIGHT VIEW



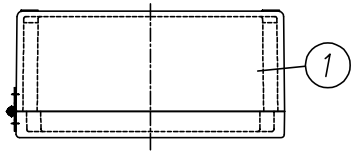
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

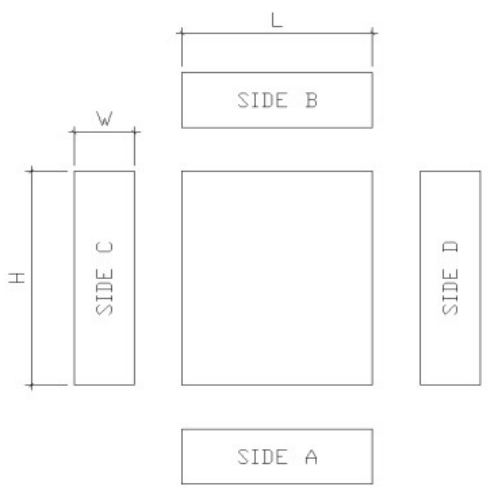
SHEET 005

REV. 04

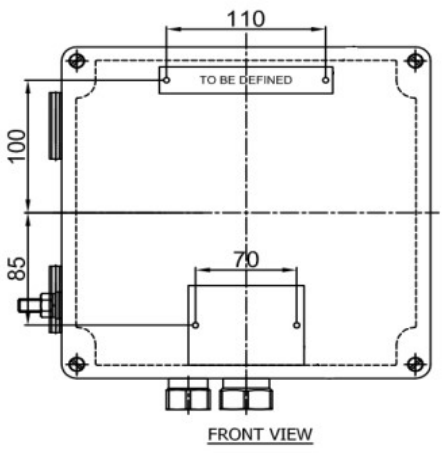
F.to UNI A3: 420mmx297mm

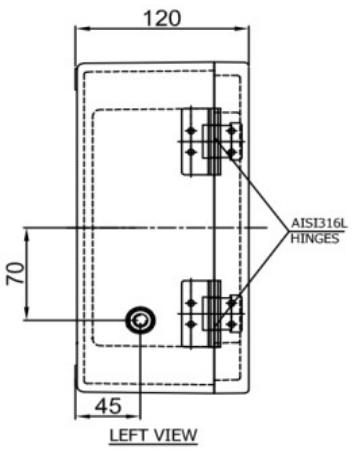
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO — CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-14	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001244		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 — Junction and Marshalling Box

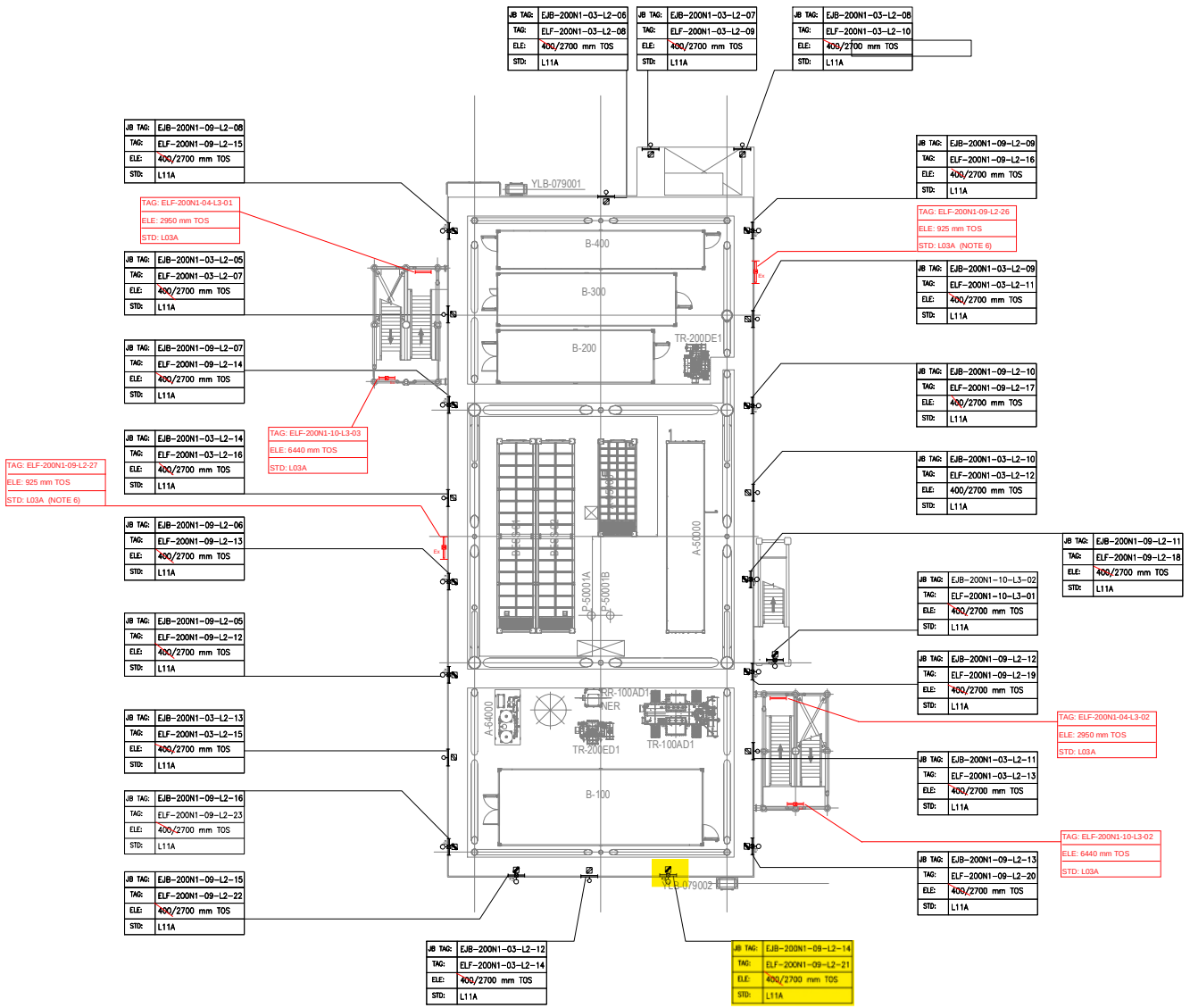
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

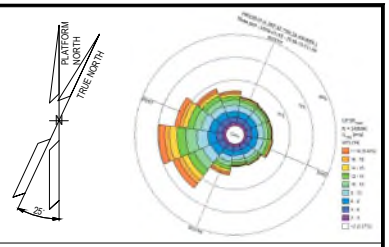
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:10:44.321Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:35:01.343Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2 — P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
P-EJB-200N1-09-L2-02 4G4_E

EJB-200N1-09-L2-02 — TYPE: L21E2 — P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-12 4G4_E
P-EJB-200N1-09-L2-07 4G4_E

P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2 — P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2 — P-EJB-200N1-09-L2-08 4G4_E
P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2 — P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-EJB-200N1-09-L2-05 4G4_E
P-ELF-200N1-09-L2-27 4G2.5_E — Ex — ELF-200N1-09-L2-27

EJB-200N1-09-L2-05 — TYPE: L21E2 — P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2 — P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2 — P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22
P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-14 — TYPE: L21E2 — P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21

EJB-200N1-09-L2-12 — TYPE: L21E2 — P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2 — P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2 — P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2 — P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — Ex — ELF-200N1-09-L2-26

EJB-200N1-09-L2-13 — TYPE: L21E2 — P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20
P-EJB-200N1-09-L2-13 4G4_E

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A) — P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17 — C-ELS-200N1-09-L2-01 2C X 2.5 — ELS-200N1-09-L2-01 — 02

TYPE: L21E2 — P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND — ROSETTI MARINO

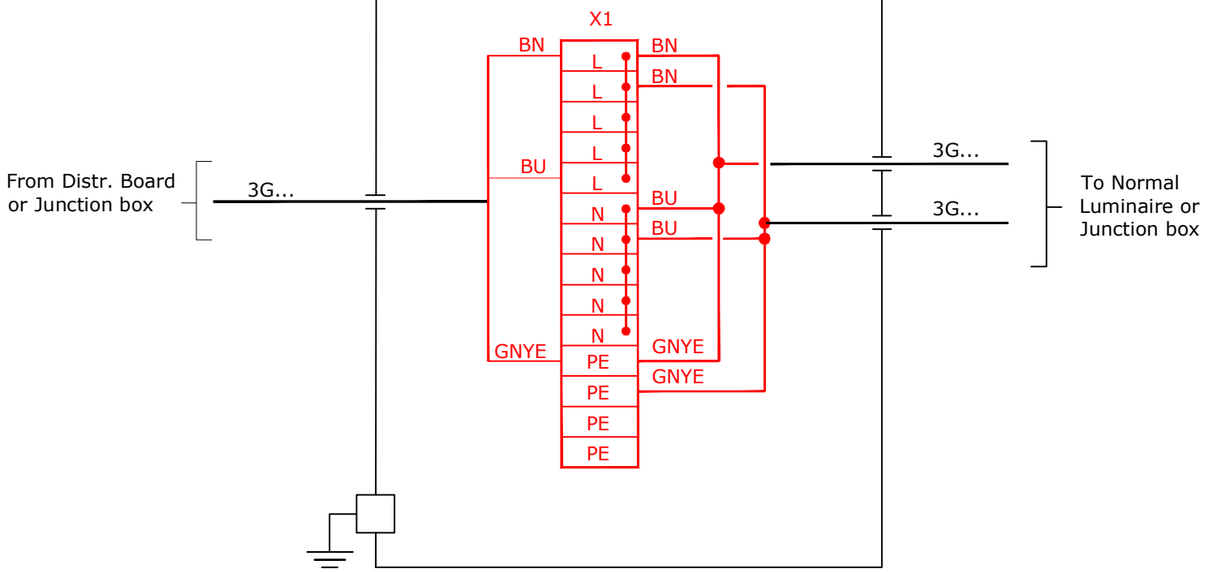
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

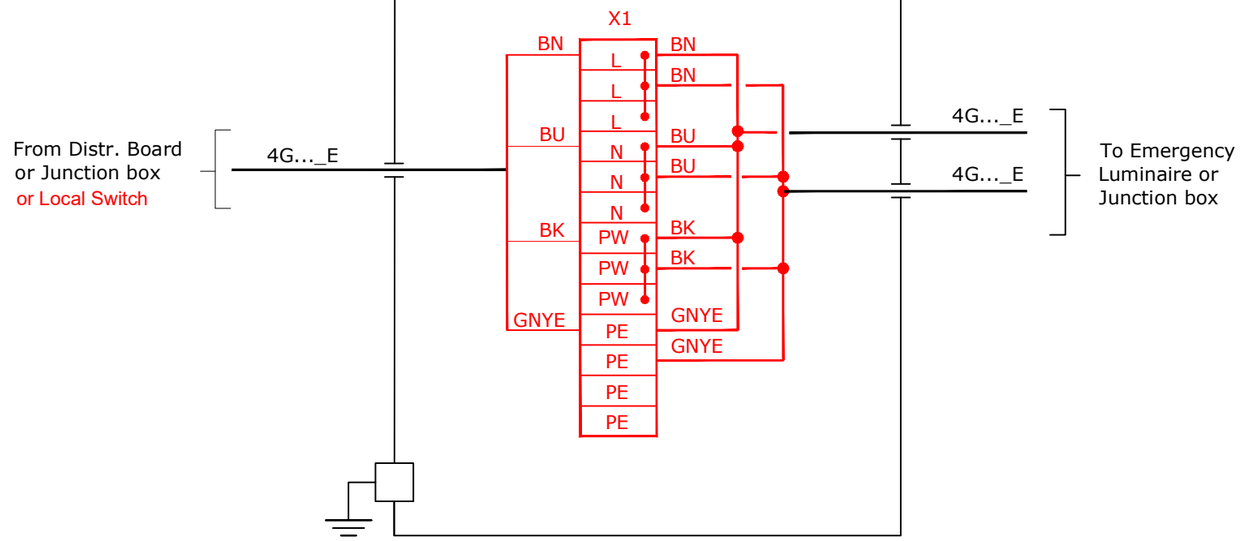
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

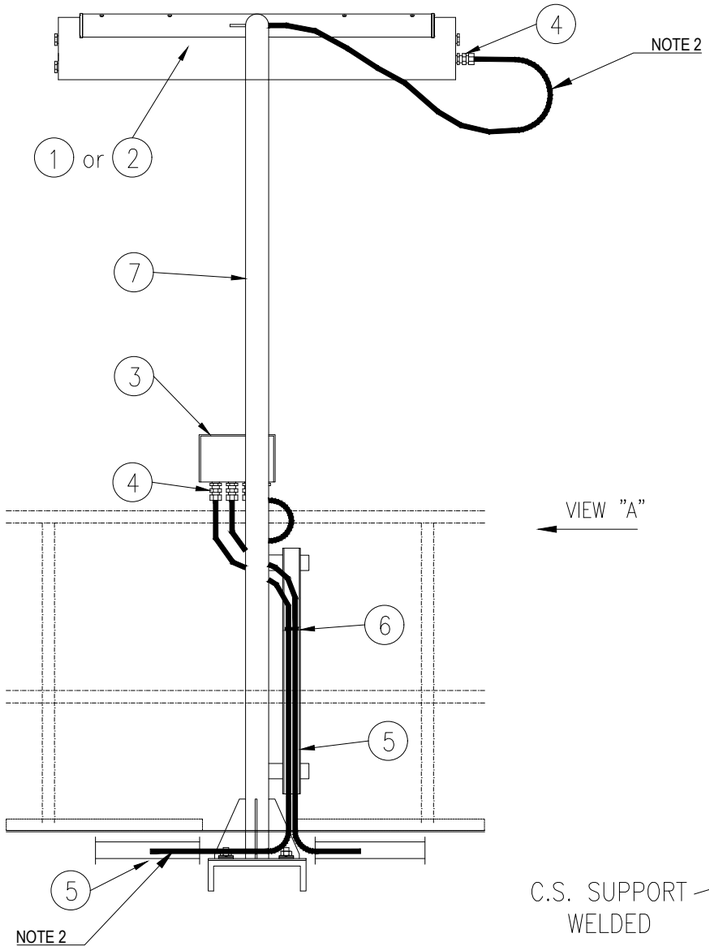
SHEET 016

REV. 01

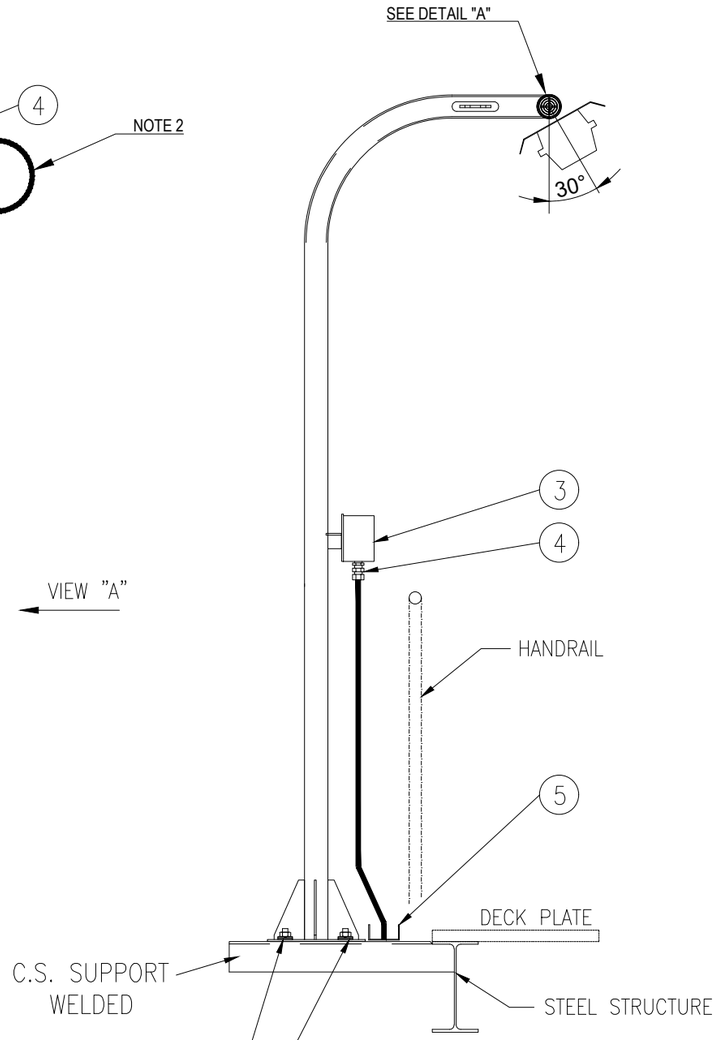
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

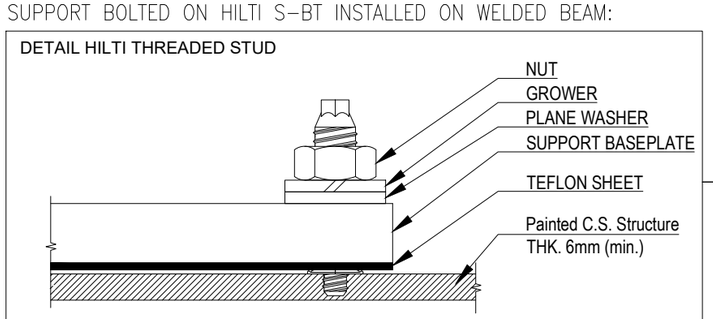


VIEW "A"

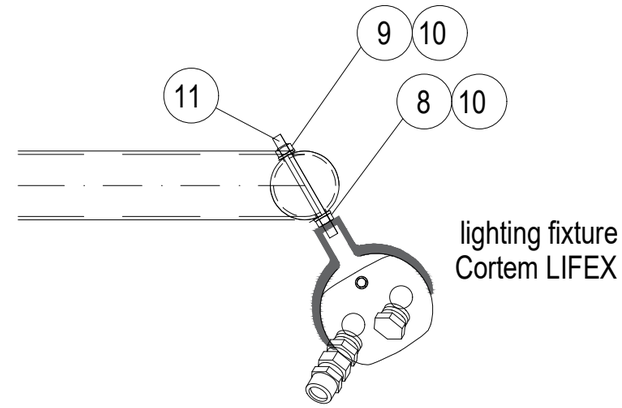


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

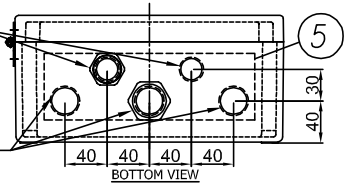
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

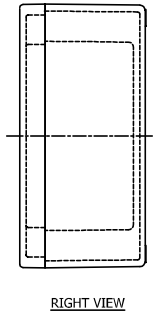
WARNINGS : DO NOT OPEN WHEN ENERGIZED

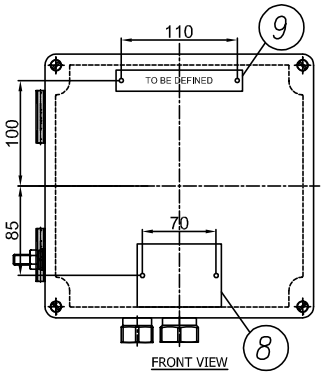
(9) PLATE DETAIL



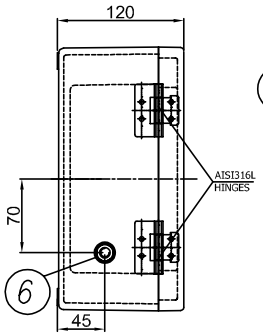
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

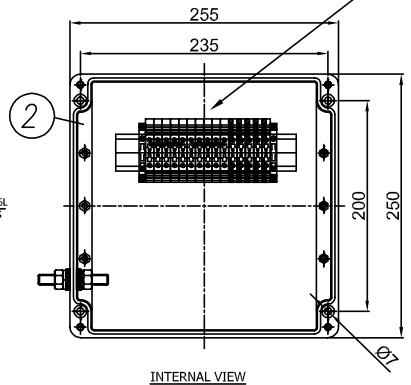

RIGHT VIEW



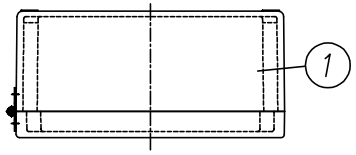
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

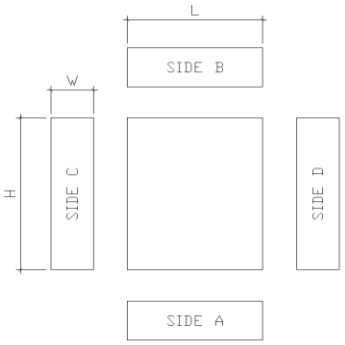
SHEET 005

REV. 04

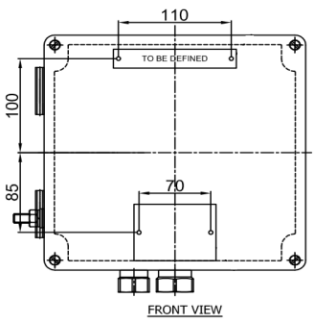
F.to UNI A3: 420mmx297mm

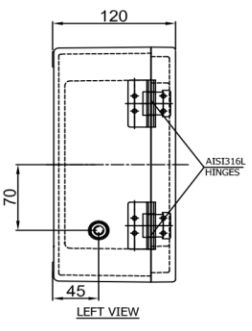
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	EJB-200N1-09-L2-15	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001245		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

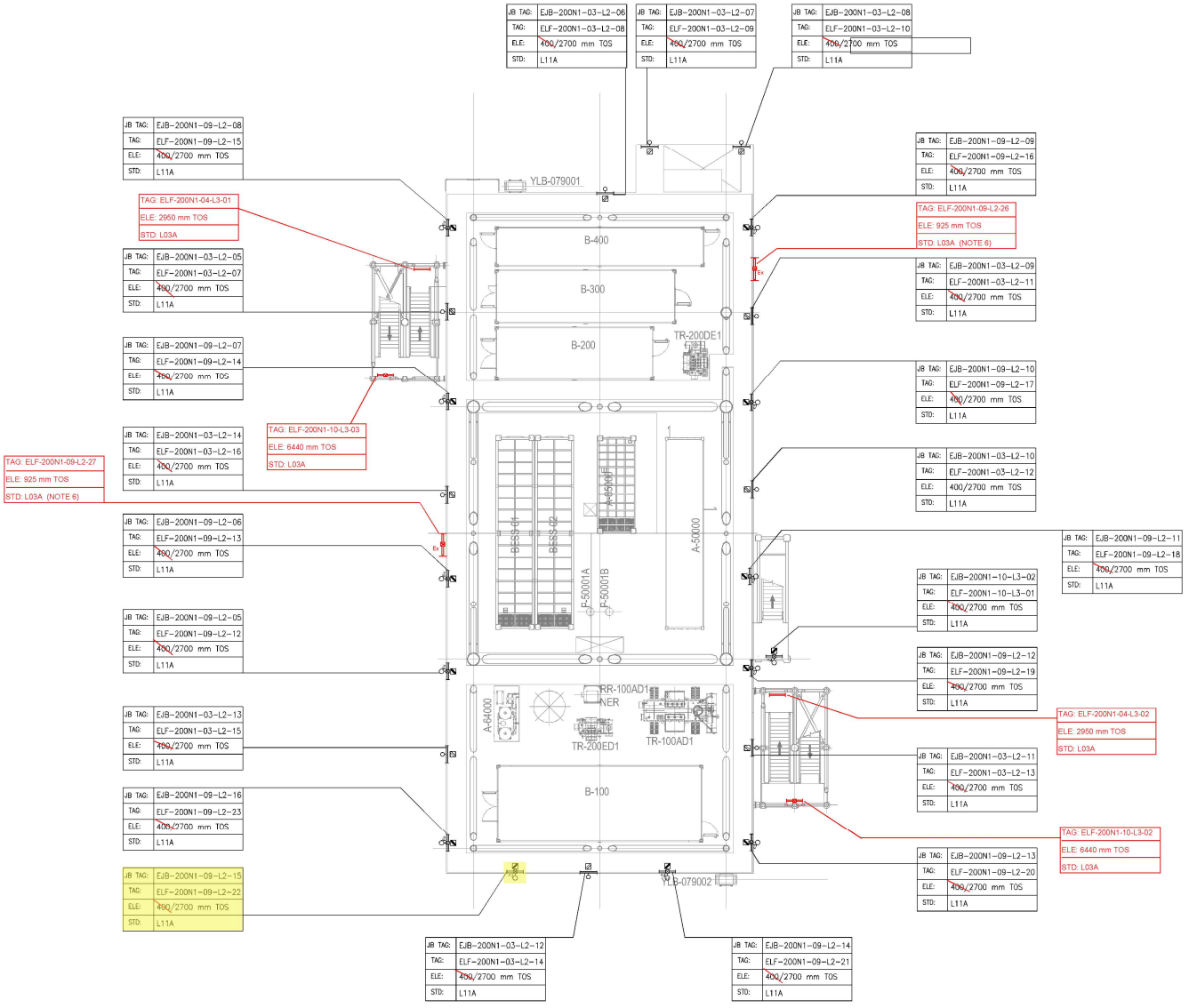
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

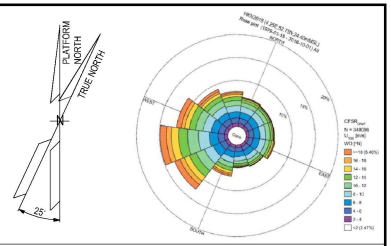
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Andrea Andreani	
Date	2024-11-22	2024-12-12	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:28:52.238Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:23:53.788Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 80W LED EMERGENCY LUMINARIES
- 80W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2
P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
P-EJB-200N1-09-L2-02 4G4_E
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005

EJB-200N1-09-L2-02 — TYPE: L21E2
P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-07 4G4_E
P-EJB-200N1-09-L2-12 4G4_E

P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2
P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E
P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2
P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2
P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-ELF-200N1-09-L2-27 4G2.5_E — ELF-200N1-09-L2-27
P-EJB-200N1-09-L2-05 4G4_E

EJB-200N1-09-L2-05 — TYPE: L21E2
P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2
P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2
P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22
P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-14 — TYPE: L21E2
P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21

P-EJB-200N1-09-L2-12 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2
P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2
P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2
P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2
P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — ELF-200N1-09-L2-26
P-EJB-200N1-09-L2-13 4G4_E

EJB-200N1-09-L2-13 — TYPE: L21E2
P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)
P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17
C-ELS-200N1-09-L2-01 2C X 2.5
02 ELS-200N1-09-L2-01

P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND — ROSETTI MARINO

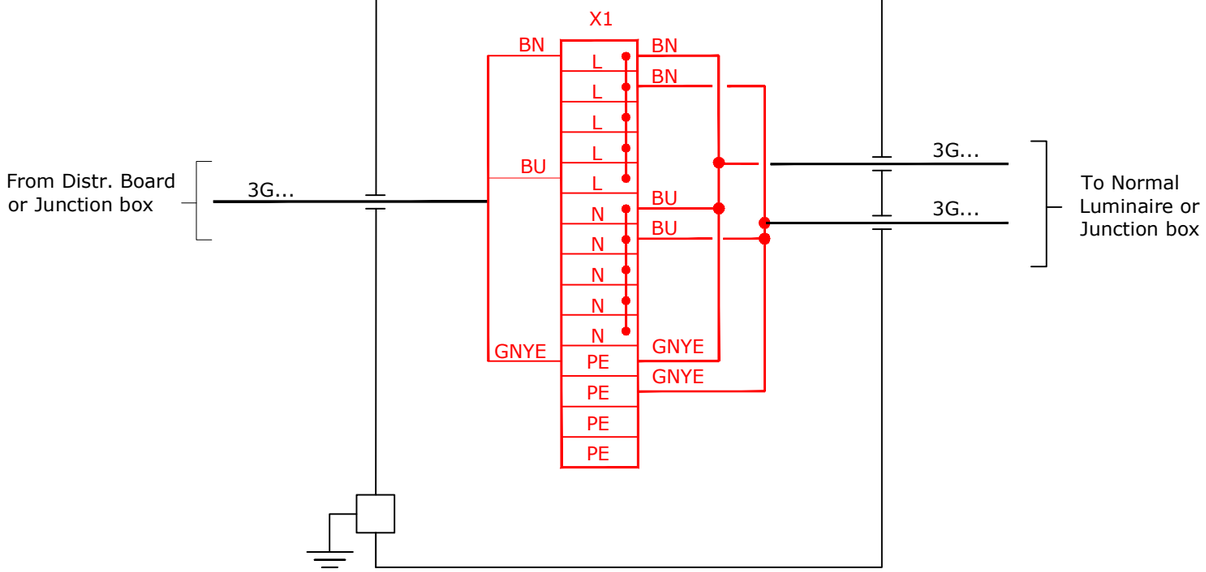
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

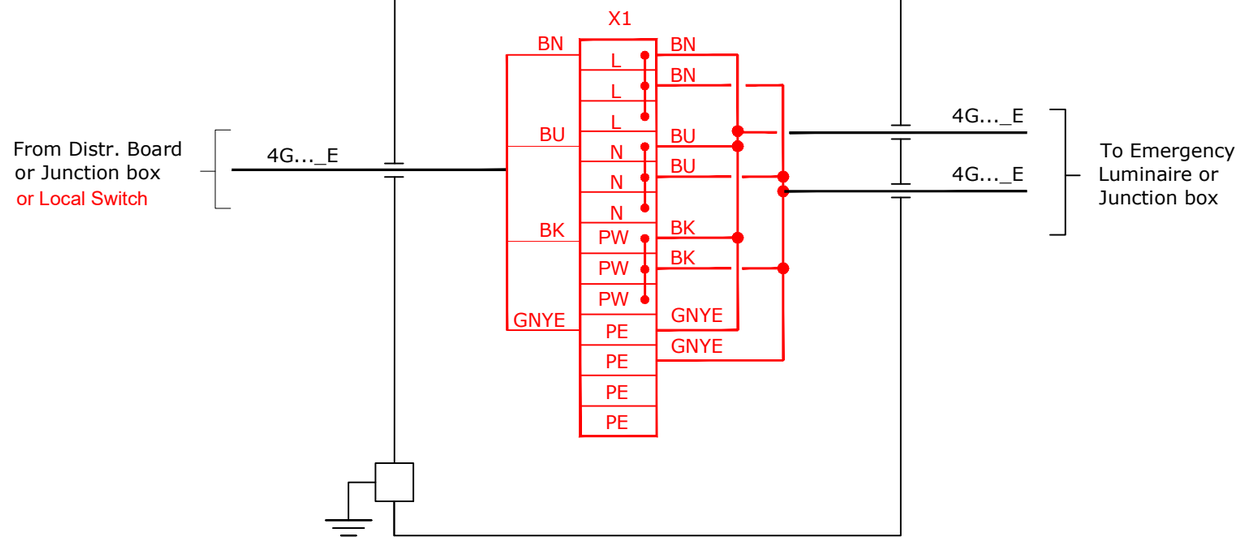
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

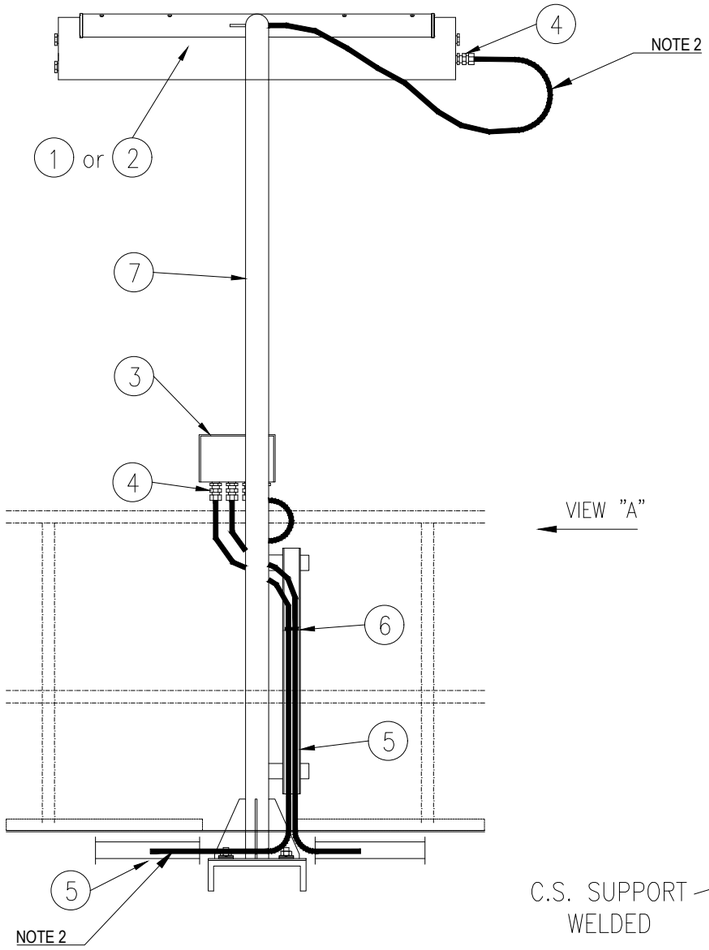
SHEET 016

REV. 01

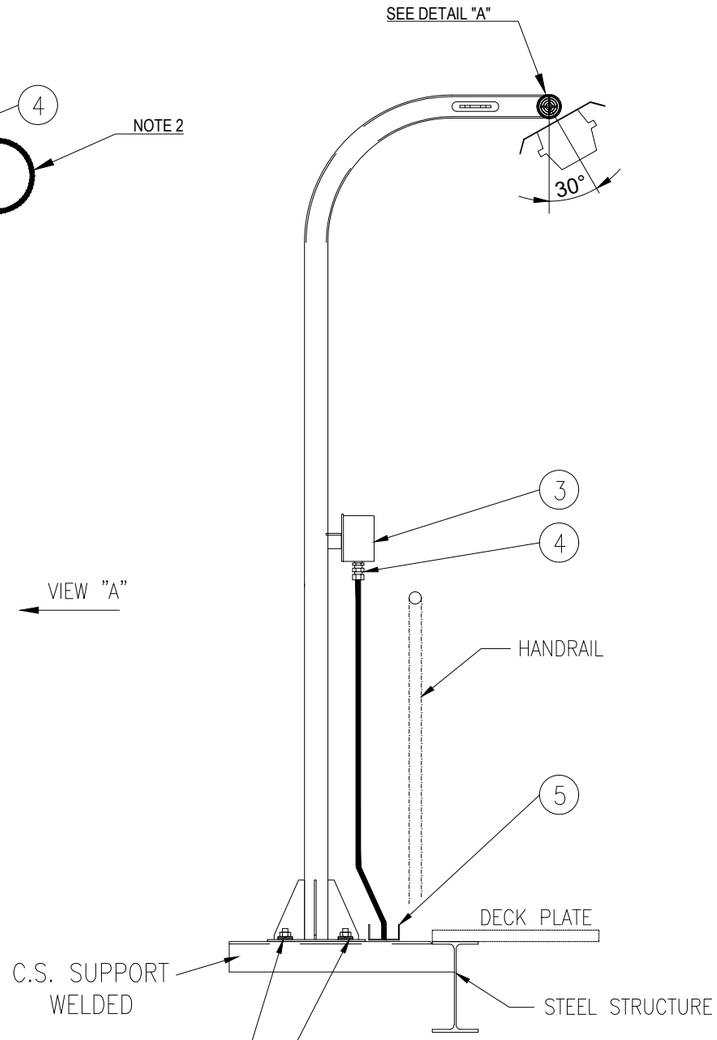
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

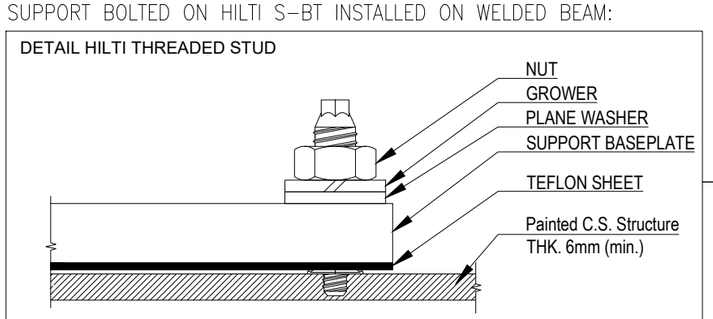


VIEW "A"

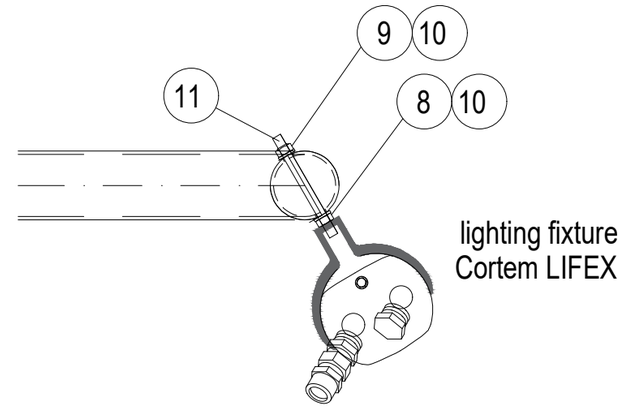


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

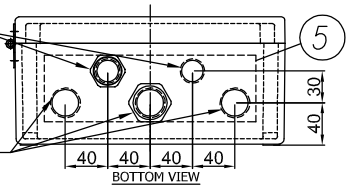
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

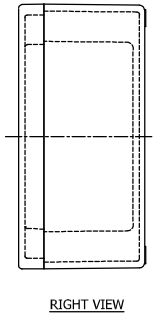
WARNINGS : DO NOT OPEN WHEN ENERGIZED

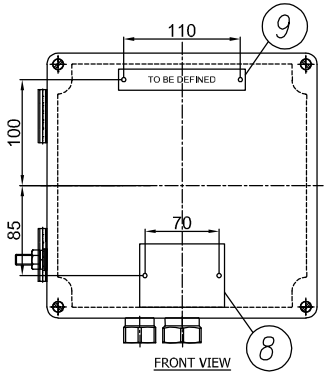
(9) PLATE DETAIL



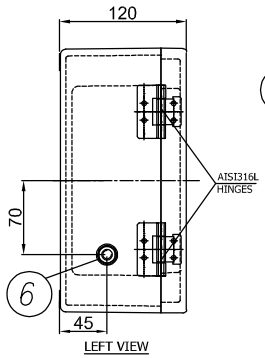
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

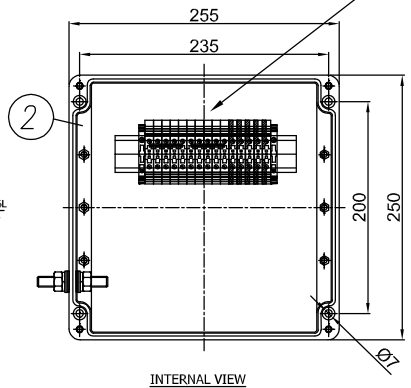

RIGHT VIEW



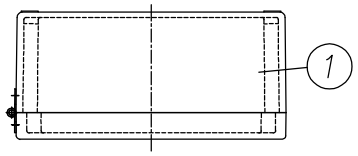
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

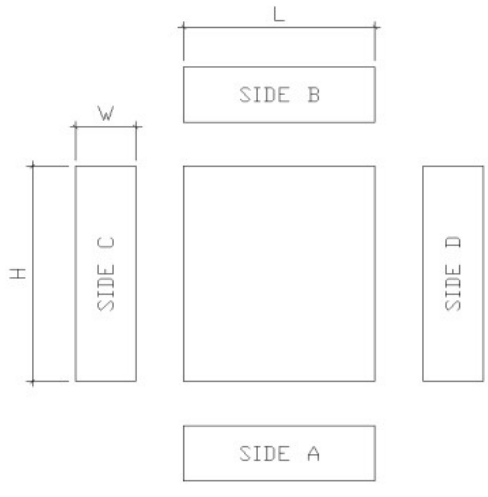
SHEET 005

REV. 04

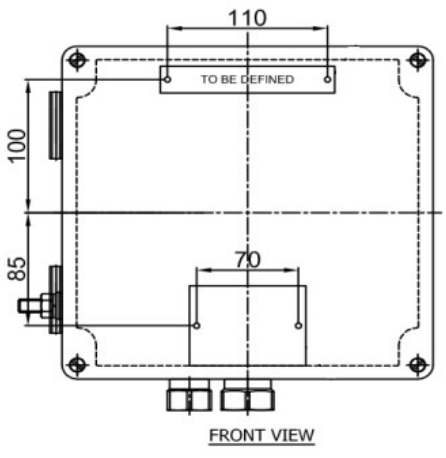
F.to UNI A3: 420mmx297mm

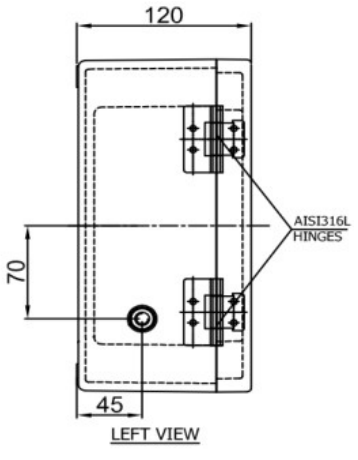
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO — CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-16	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001246		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 — Junction and Marshalling Box

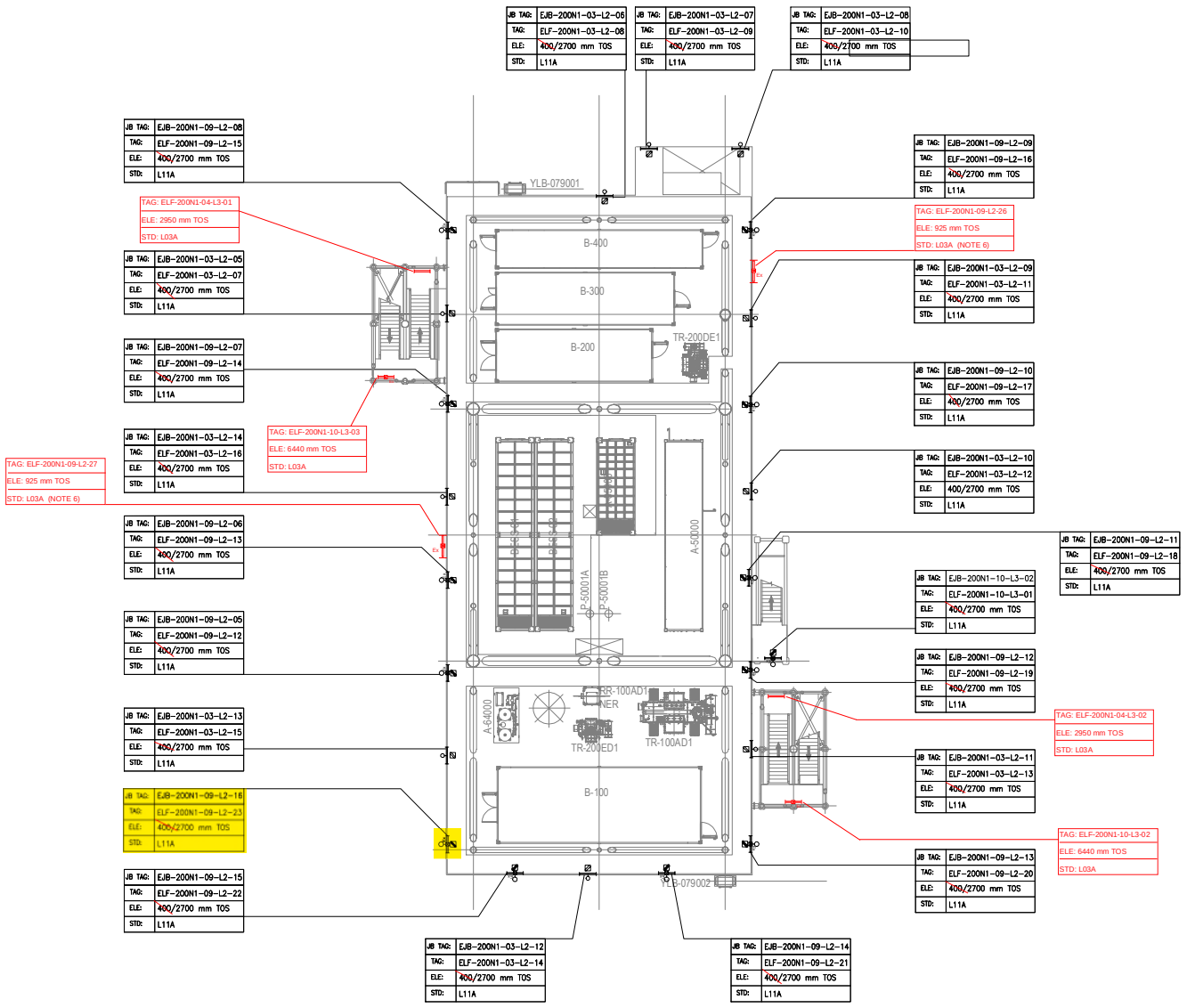
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

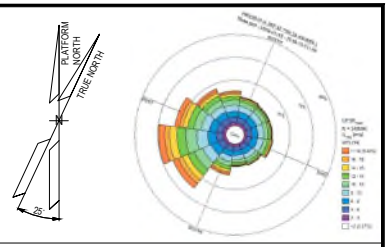
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:11:01.054Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:24:04.378Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

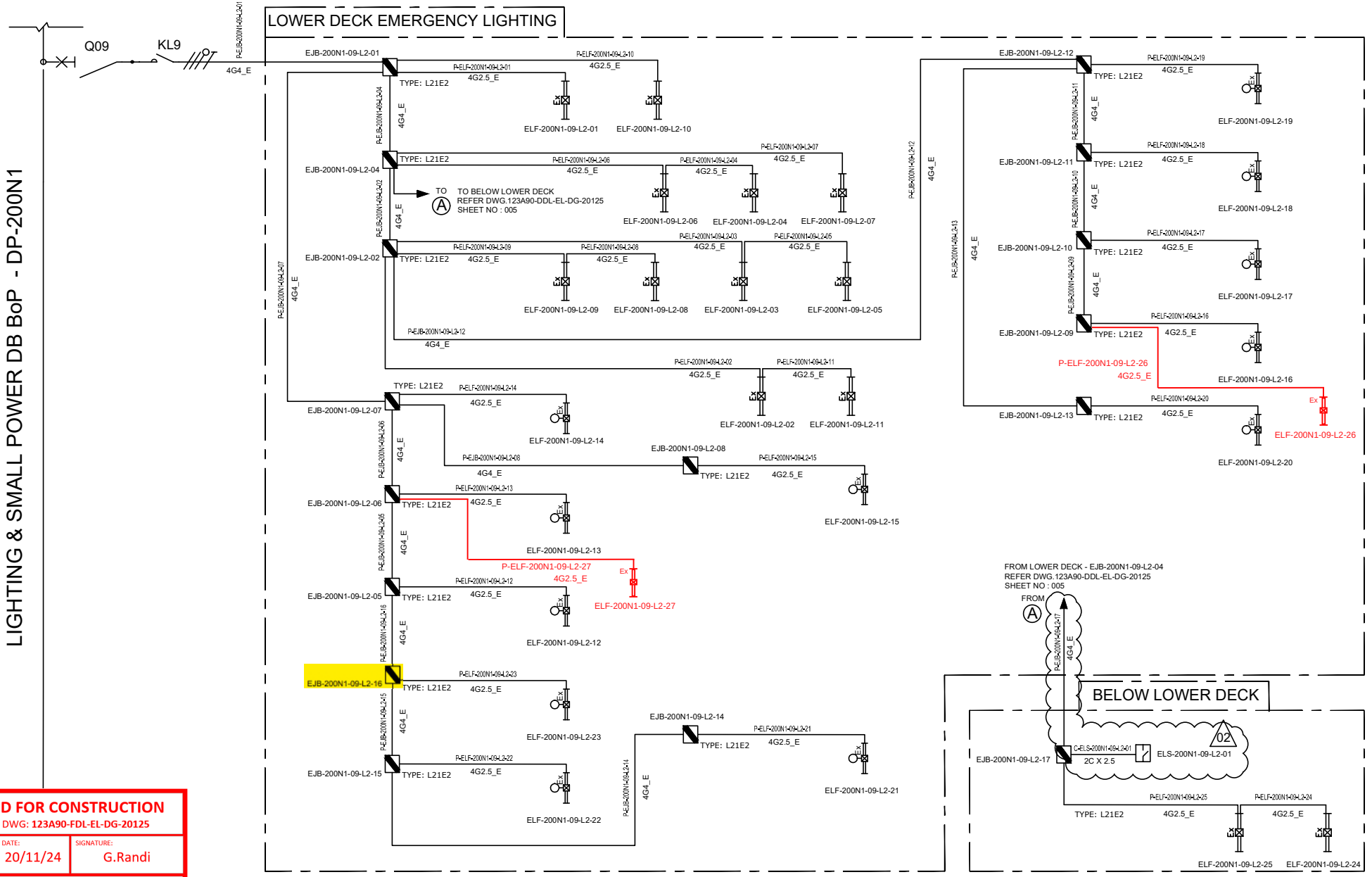
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

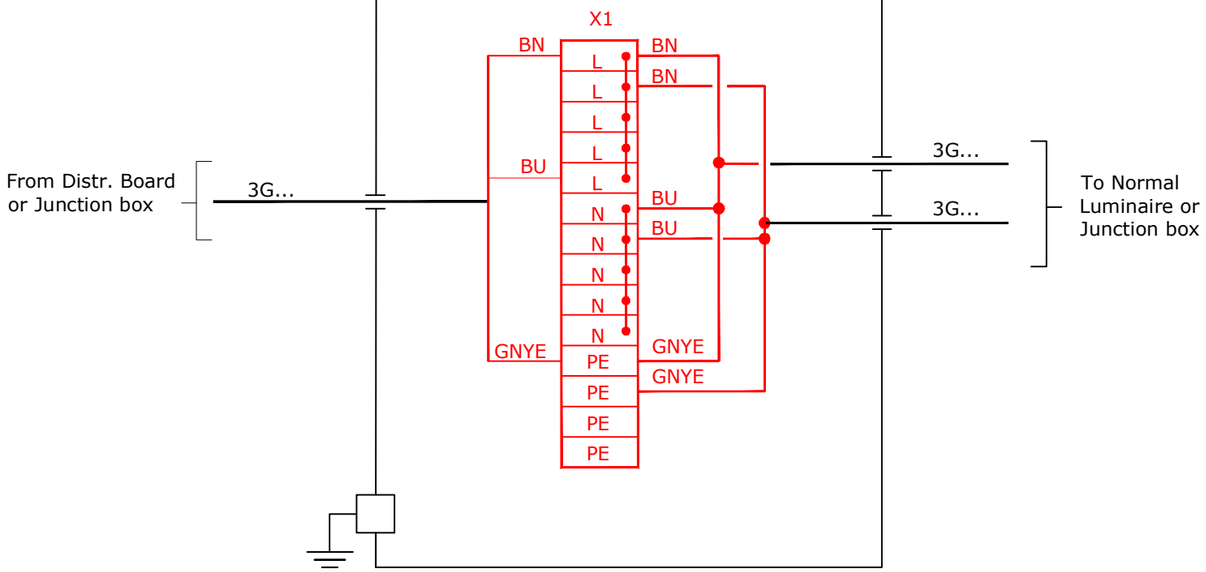
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

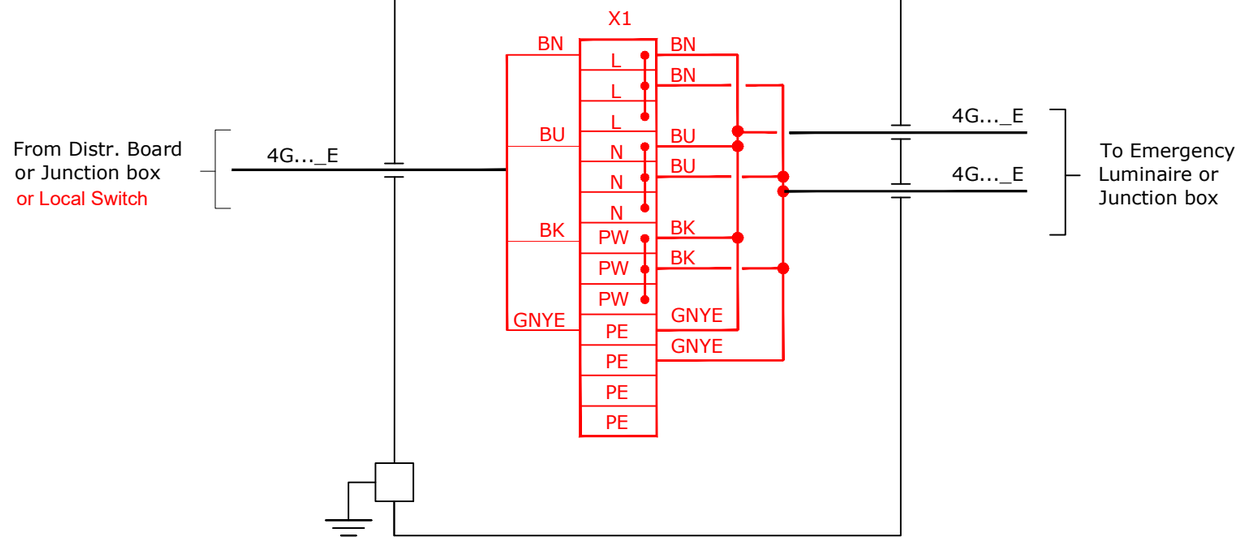
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

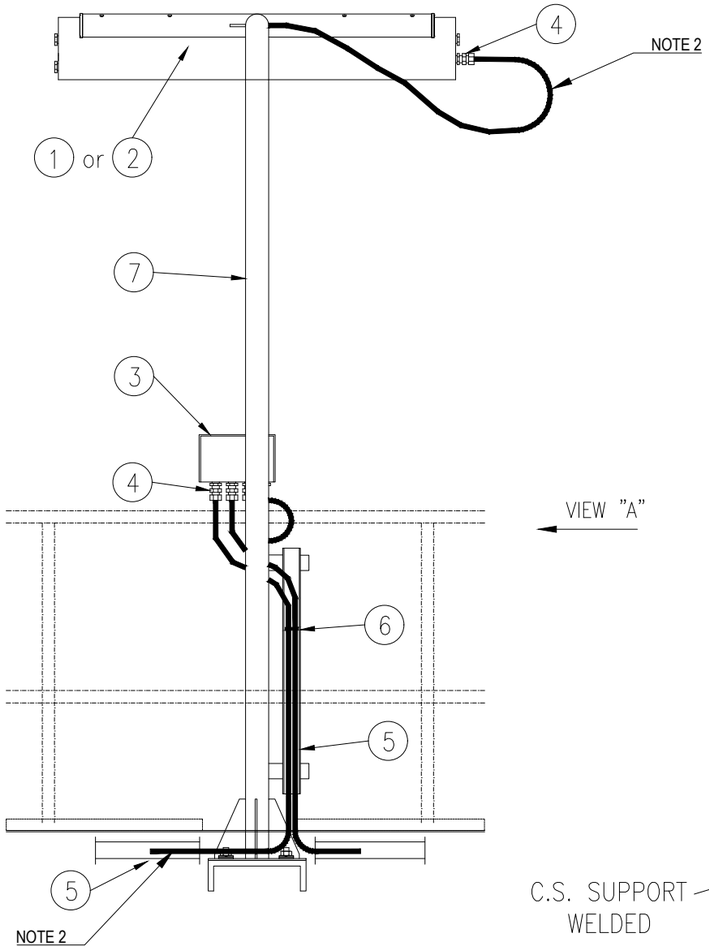
SHEET 016

REV. 01

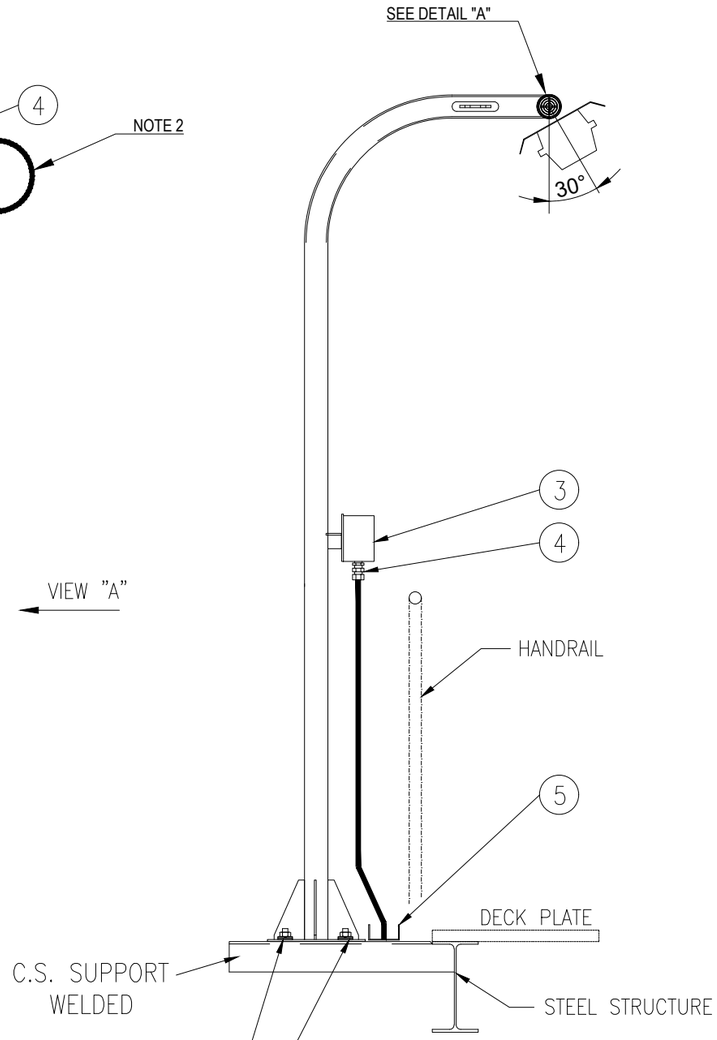
File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

L11A

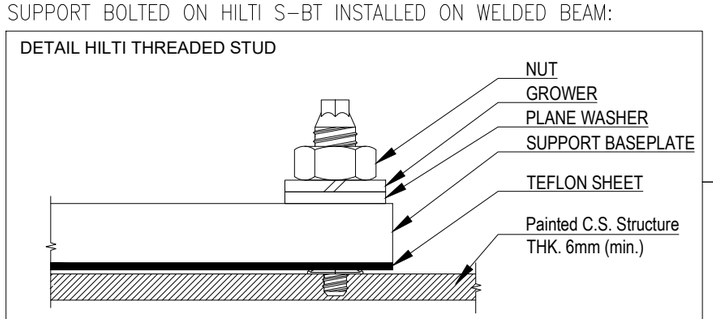


VIEW "A"

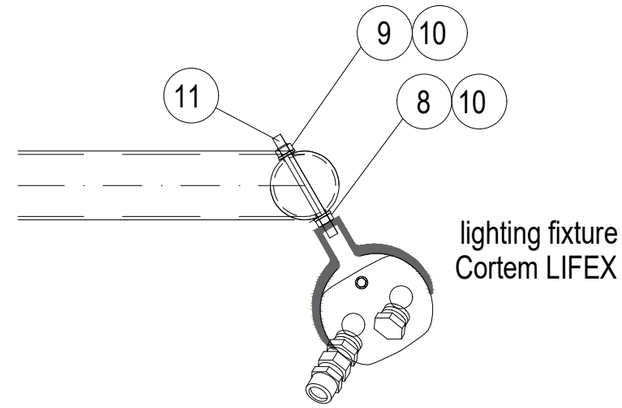


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG~~, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

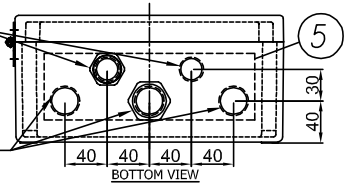
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

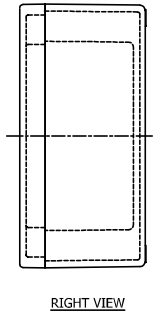
WARNINGS : DO NOT OPEN WHEN ENERGIZED

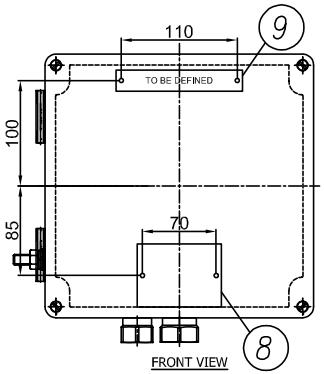
(9) PLATE DETAIL



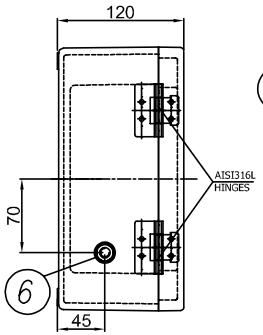
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

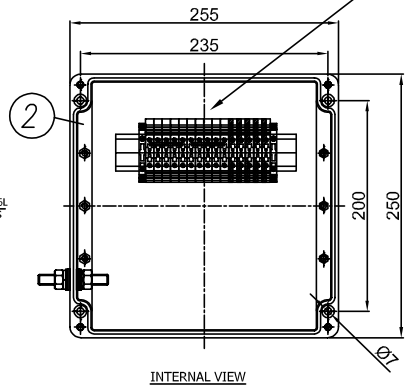

RIGHT VIEW



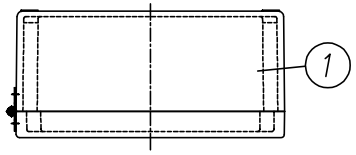
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

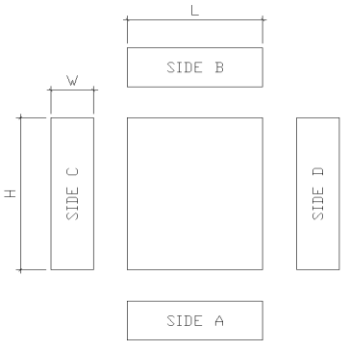
SHEET 005

REV. 04

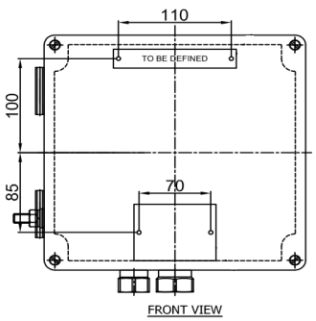
F.to UNI A3: 420mmx297mm

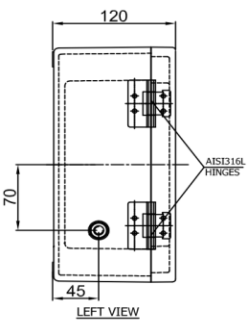
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-01	: JB Emergency Lighting Lower Deck - Circuit No. 1			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001298		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

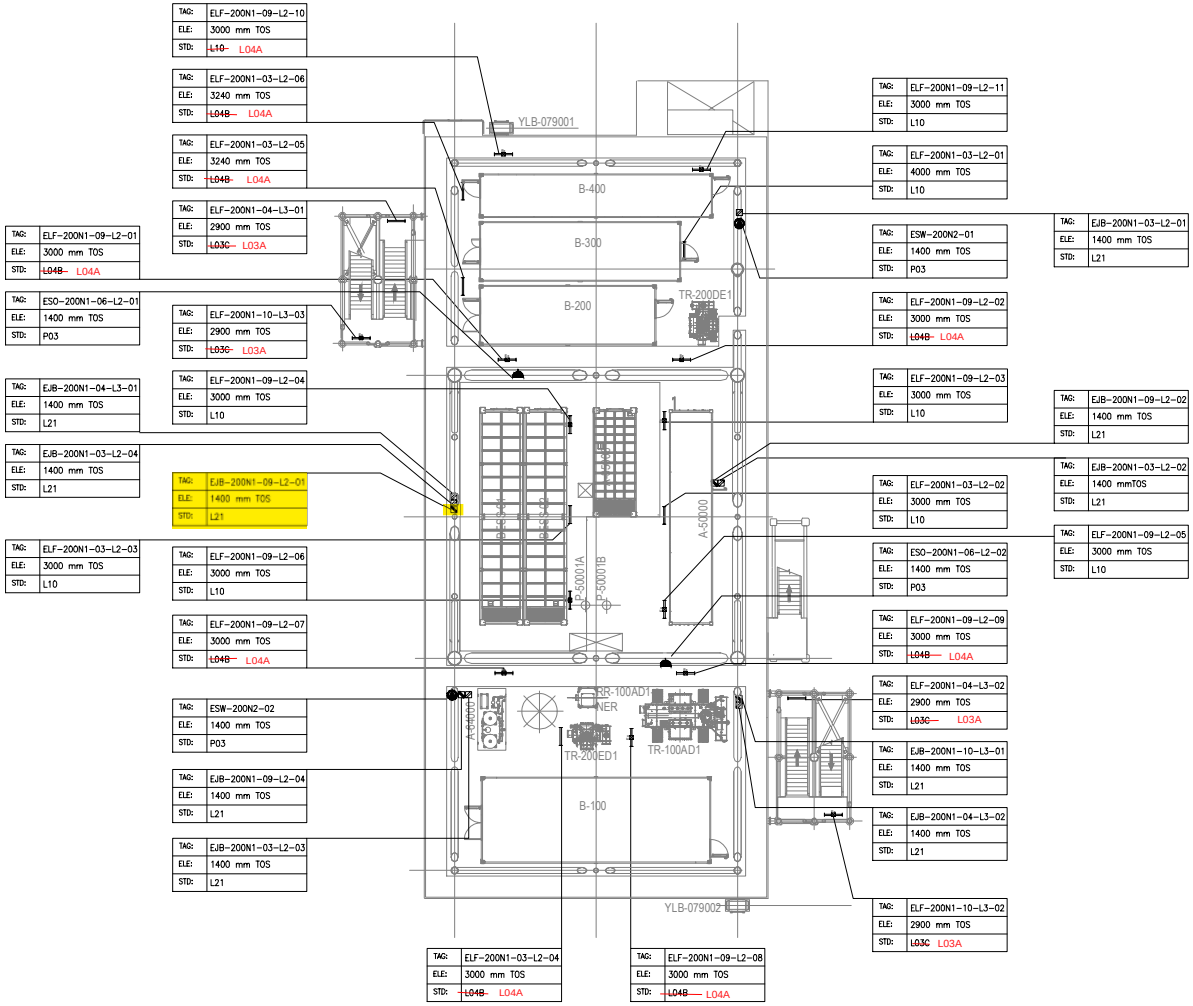
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	PL
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	PL
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

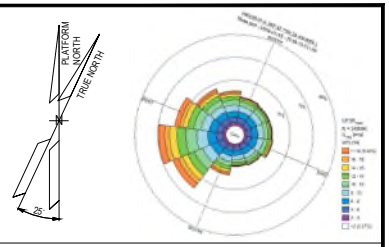
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:11:19.364Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T16:58:59.902Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

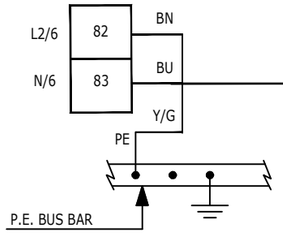
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

FROM	TO

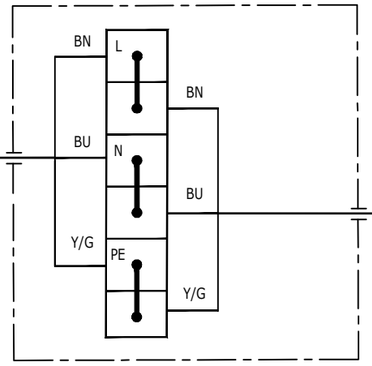
DESCRIPTION: LIGHTING & SMALL POWER DB BOP
TAG NUMBER: DP-200N1

CUBICLE/CB: +03/Q6



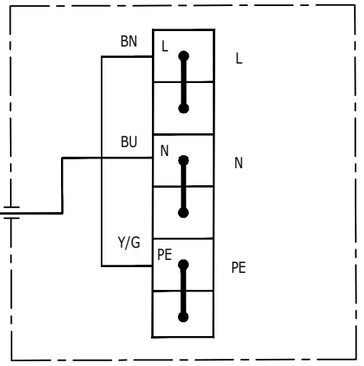
P-ESO-200N1-06-L2-01
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(LOWER DECK)
TAG NUMBER: ESO-200N1-06-L2-01

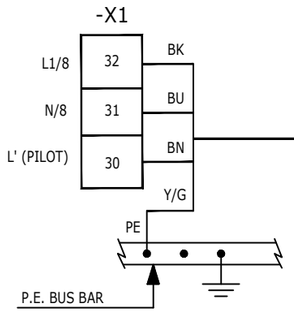


P-ESO-200N1-06-L2-02
3G10 mm²

DESCRIPTION: SMALL POWER SOCKET JB(LOWER DECK)
TAG NUMBER: ESO-200N1-06-L2-02

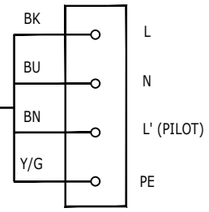


CUBICLE/CB: +01/Q8

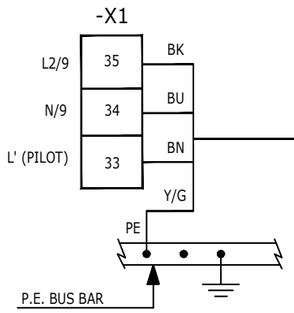


P-EJB-200N1-08-L1-04
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING UPPER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-08-L1-04

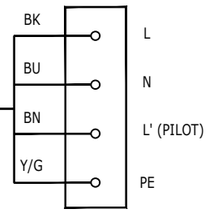


CUBICLE/CB: +01/Q9



P-EJB-200N1-09-L2-01
4G4_E mm²

DESCRIPTION: EMERGENCY LIGHTING LOWER DECK - CIRCUIT NO. 1
TAG NUMBER: EJB-200N1-09-L2-01



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_D	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	19/11/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	16/10/24	SAI	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	08/07/24	SAI	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL INTERCONNECTING WIRING DIAGRAM
LIGHTING & SMALL POWER DB BOP

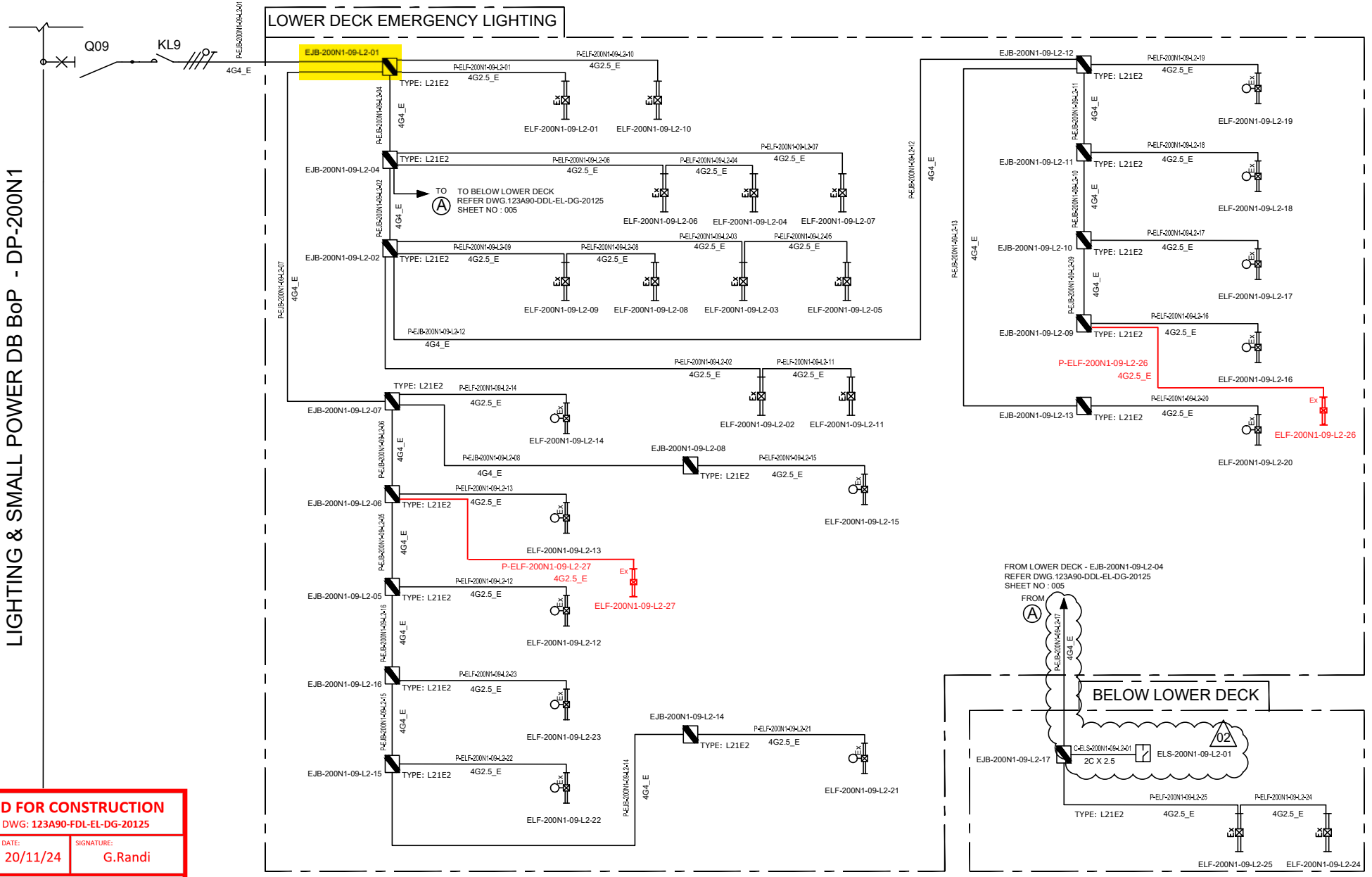
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:X

A3 | DRAWING NO. 123A90-DDL-EL-DG-20149 | SHEET 046 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20149 Rev. 02

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

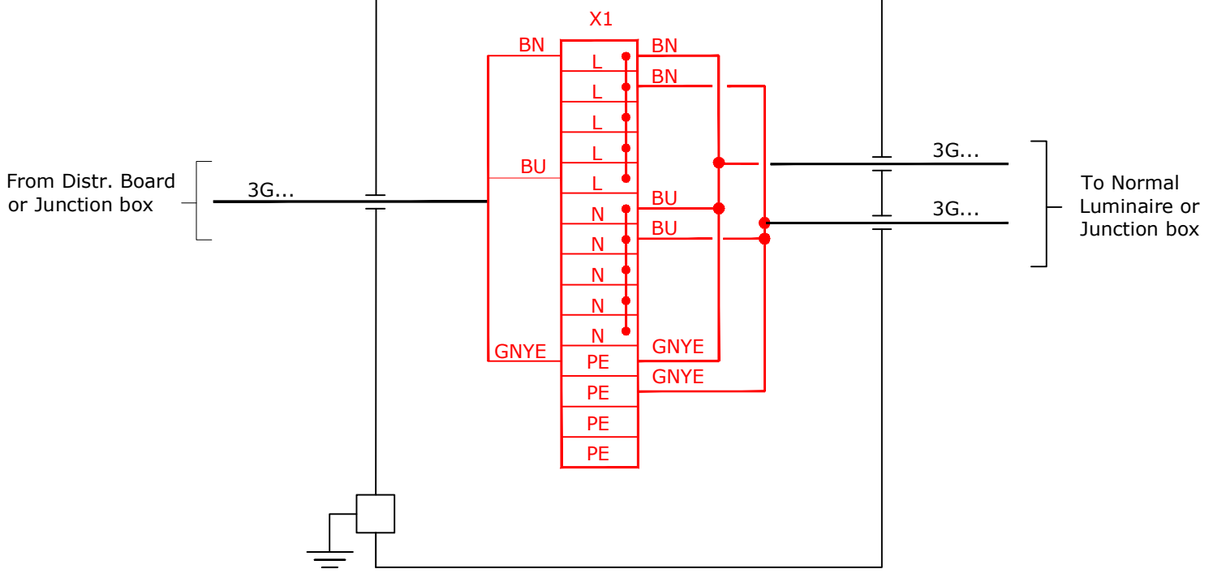
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

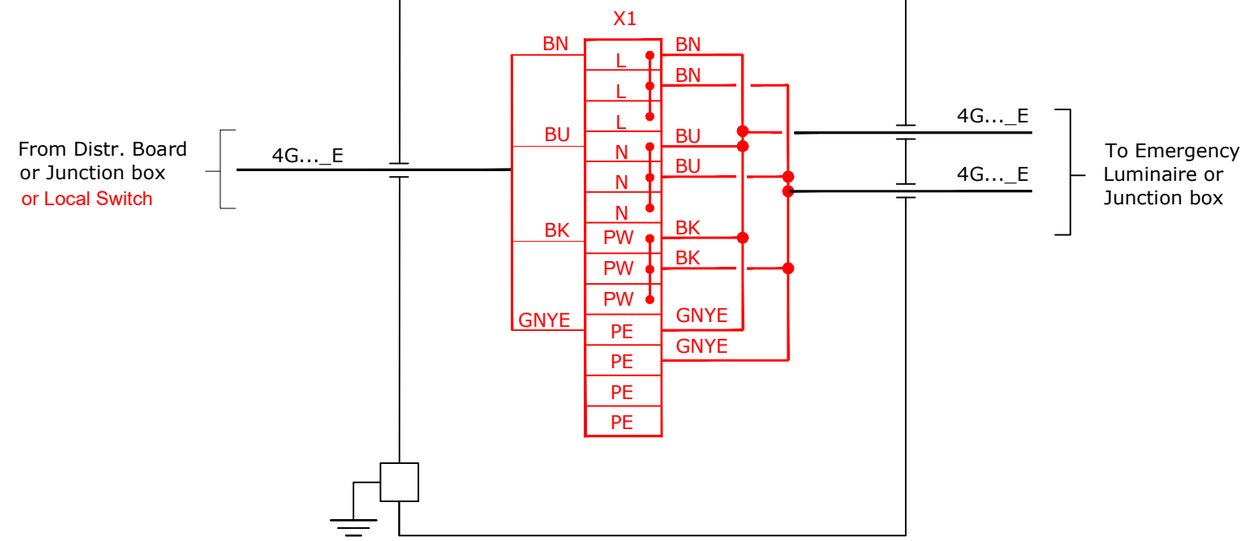
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

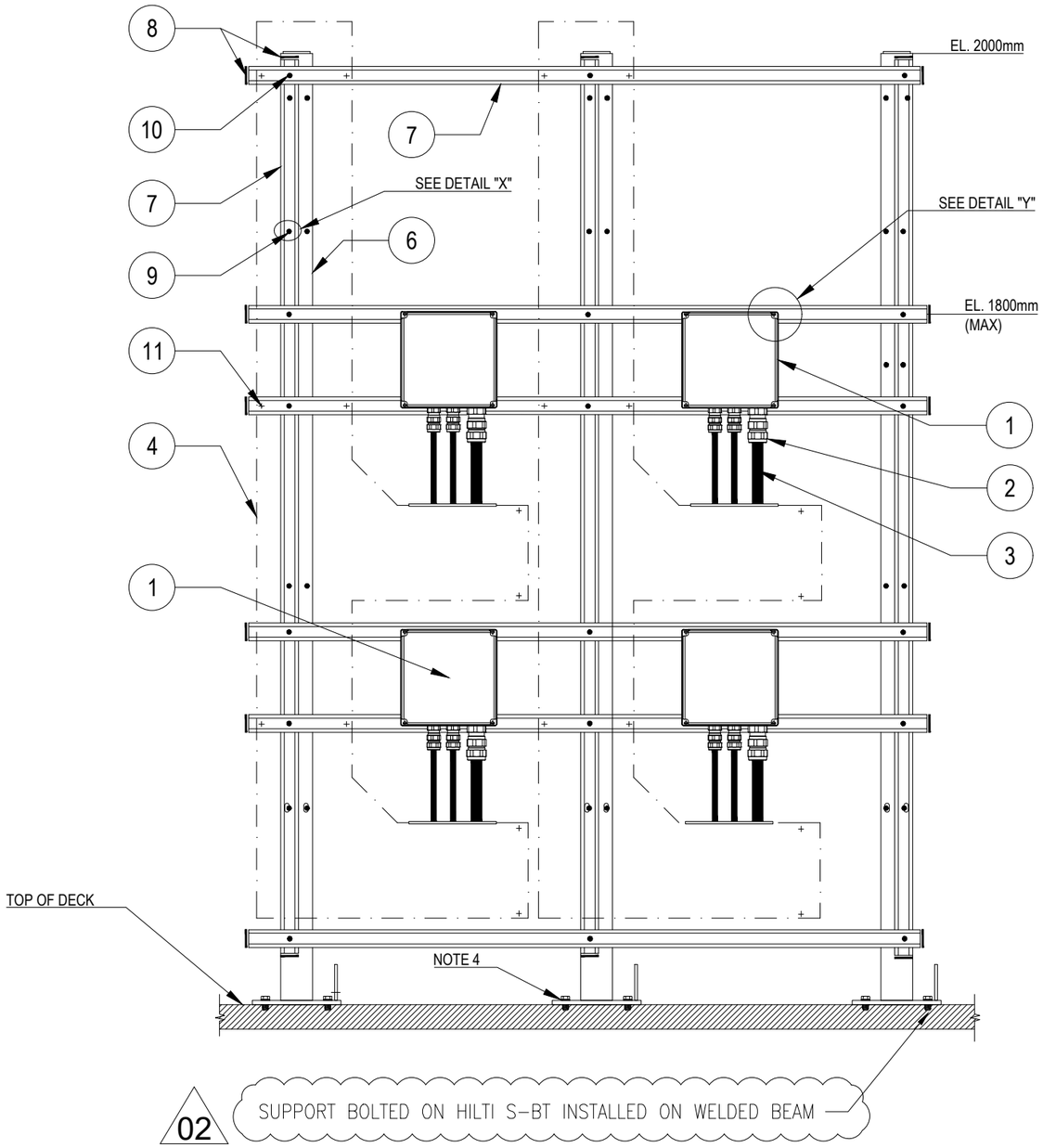
SHEET 016

REV. 01

File Name : 123A90-DDL-EL-DG-20125

F.to UNI A3: 420mmx297mm

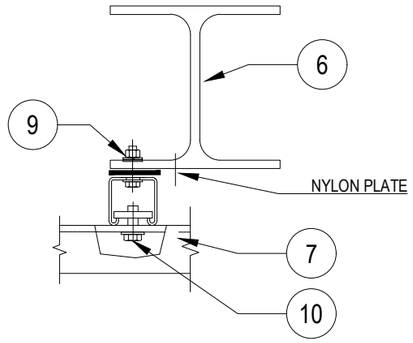
L21



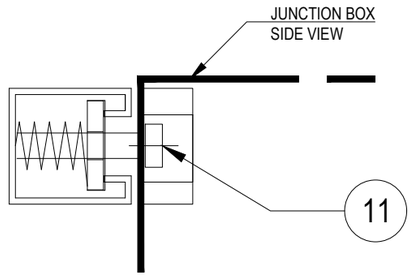
02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM

02

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

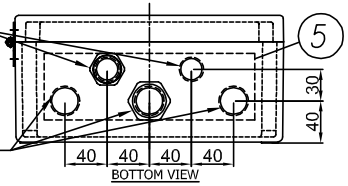
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

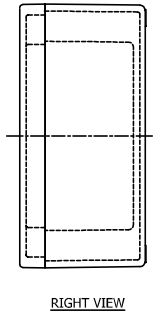
WARNINGS : DO NOT OPEN WHEN ENERGIZED

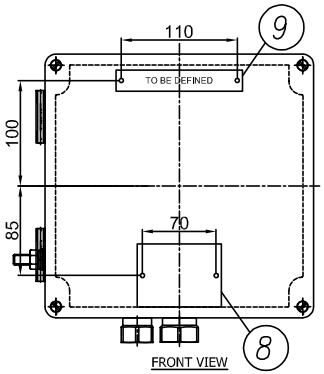
(9) PLATE DETAIL



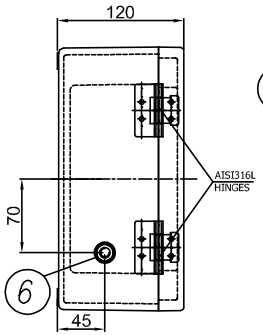
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

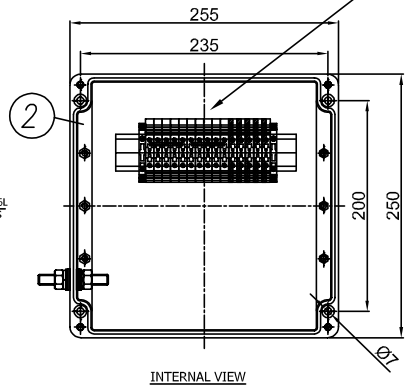

RIGHT VIEW



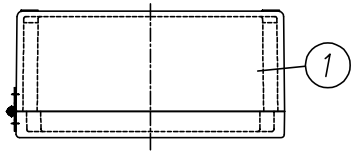
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
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CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

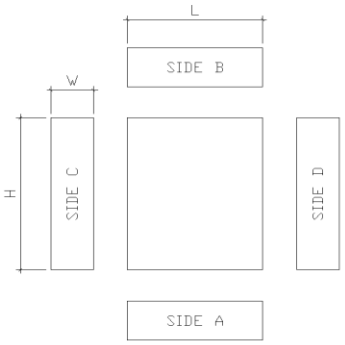
SHEET 005

REV. 04

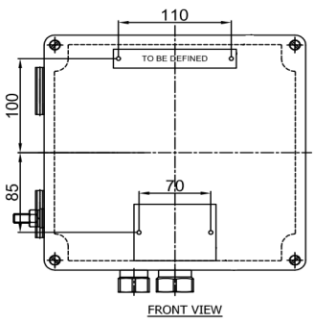
F.to UNI A3: 420mmx297mm

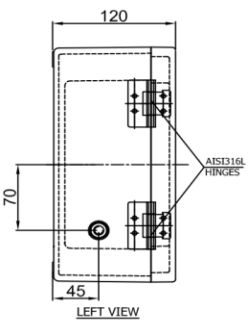
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	EJB-200N1-09-L2-02	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001299		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

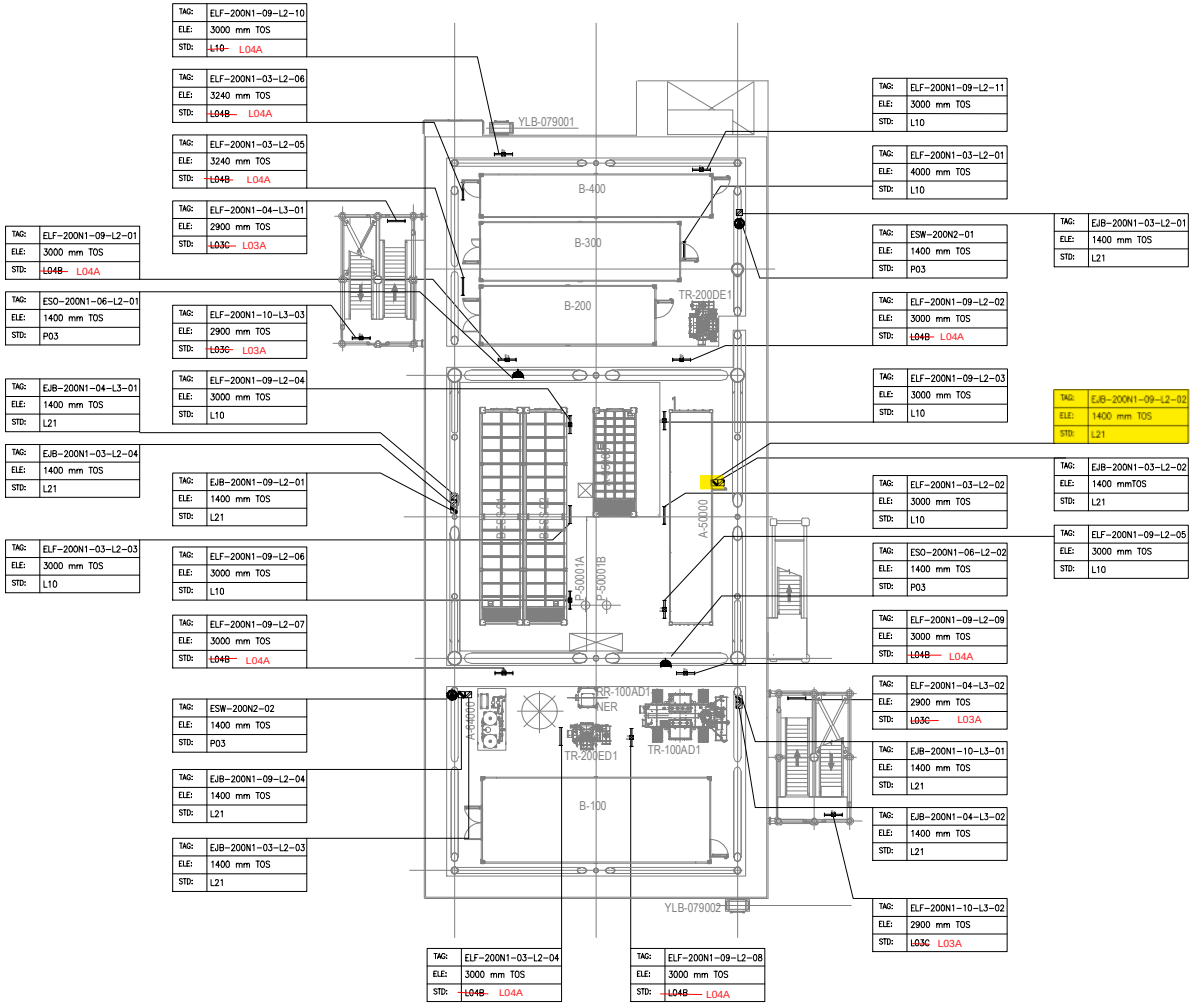
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

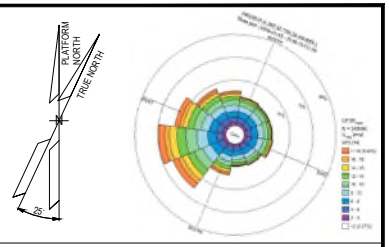
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:11:30.380Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:02:12.386Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01; P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10

EJB-200N1-09-L2-04 — TYPE: L21E2 — P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06; P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04; P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07

TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005

EJB-200N1-09-L2-02 — TYPE: L21E2 — P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09; P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08; P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03; P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05

P-EJB-200N1-09-L2-12 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2 — P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19

EJB-200N1-09-L2-11 — TYPE: L21E2 — P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18

EJB-200N1-09-L2-10 — TYPE: L21E2 — P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17

EJB-200N1-09-L2-09 — TYPE: L21E2 — P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16

P-ELF-200N1-09-L2-26 4G2.5_E → Ex ELF-200N1-09-L2-26

EJB-200N1-09-L2-13 — TYPE: L21E2 — P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02; P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2 — P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14

P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2 — P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2 — P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13

P-ELF-200N1-09-L2-27 4G2.5_E → Ex ELF-200N1-09-L2-27

EJB-200N1-09-L2-05 — TYPE: L21E2 — P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12

EJB-200N1-09-L2-16 — TYPE: L21E2 — P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23

EJB-200N1-09-L2-15 — TYPE: L21E2 — P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2 — P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005

FROM (A) P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17 — C-ELS-200N1-09-L2-01 2C X 2.5 — ELS-200N1-09-L2-01 — 02

P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25; P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

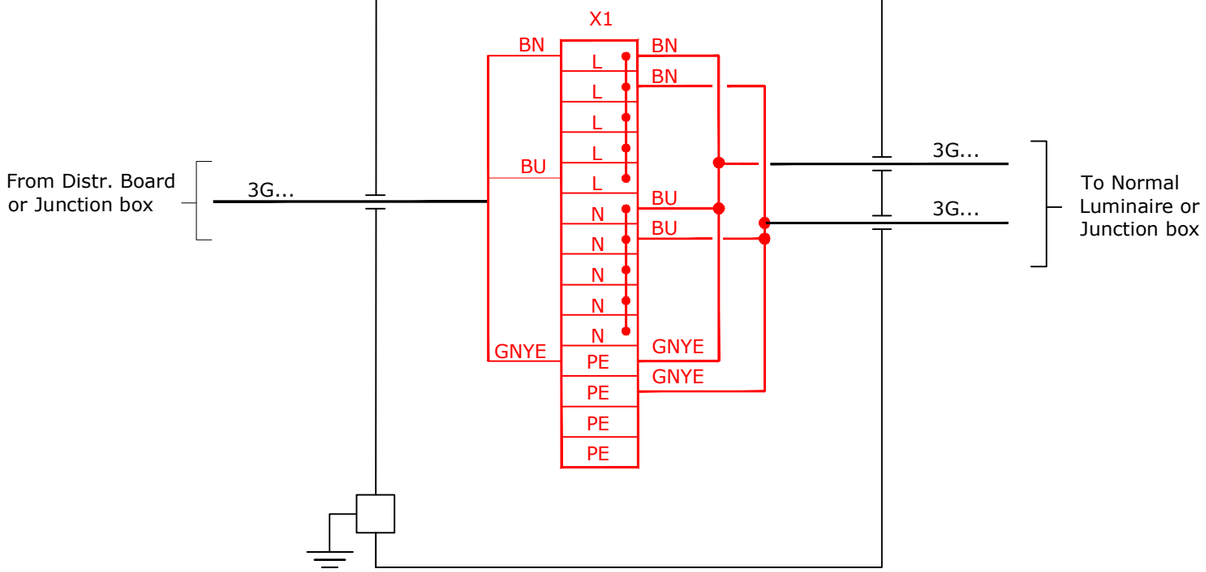
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

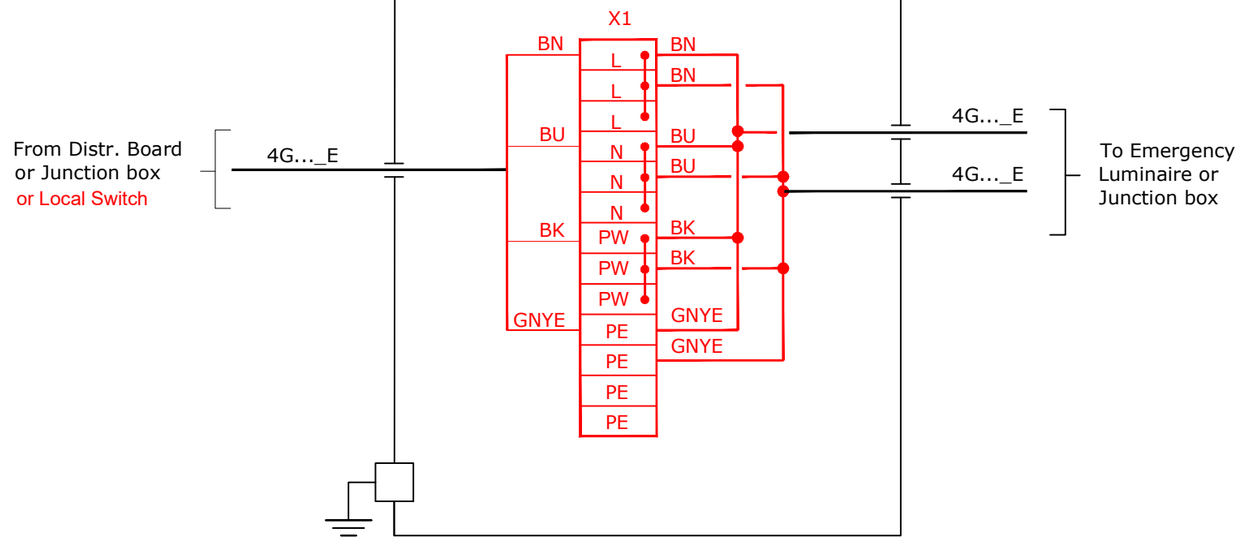
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

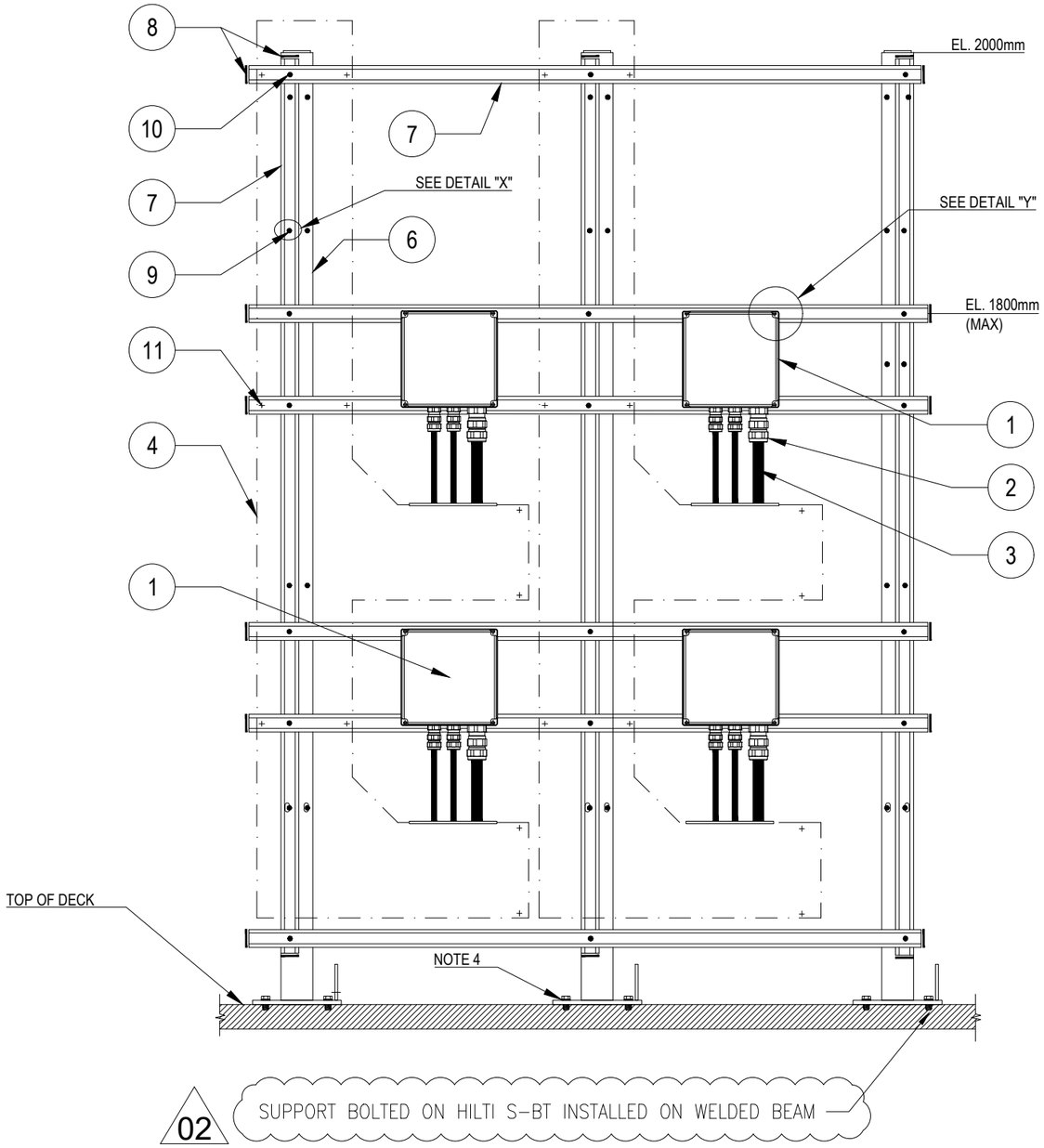
SHEET 016

REV. 01

File Name : 123A90-DDL-EL-DG-20125

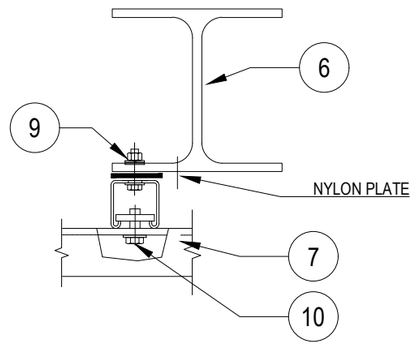
F.to UNI A3: 420mmx297mm

L21

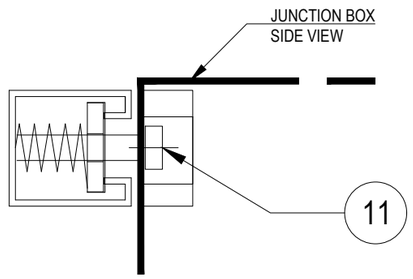


02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

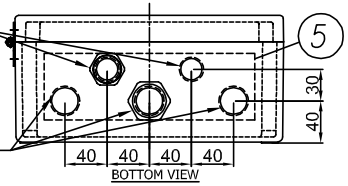
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

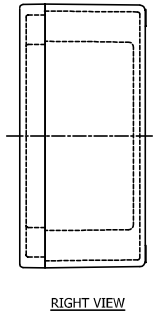
WARNINGS : DO NOT OPEN WHEN ENERGIZED

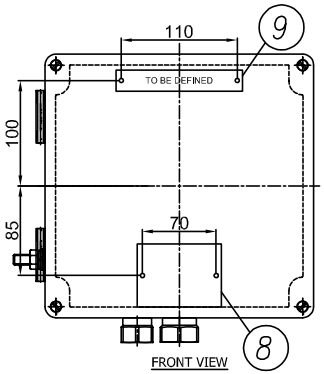
(9) PLATE DETAIL



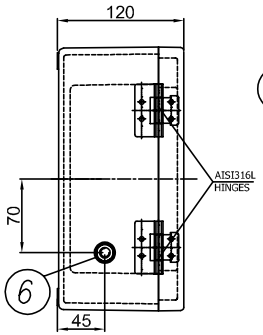
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

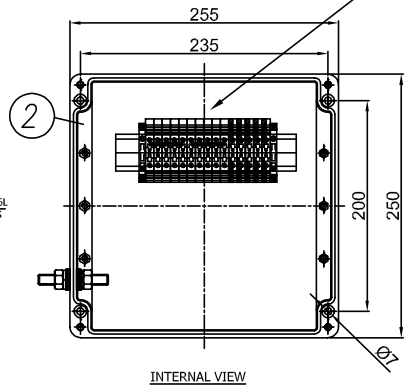

RIGHT VIEW



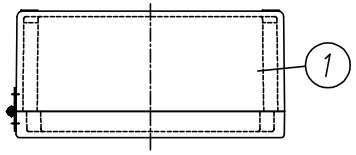
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481–EL–DA–00003

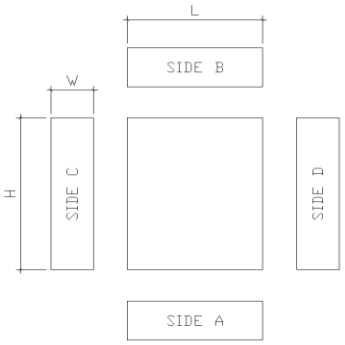
SHEET 005

REV. 04

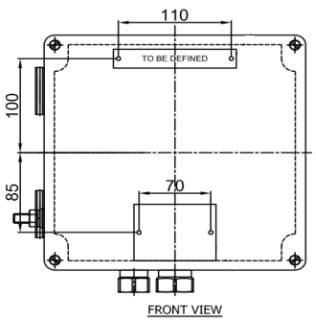
File Name : 1724001481-EL-DA-00003 Rev. 01

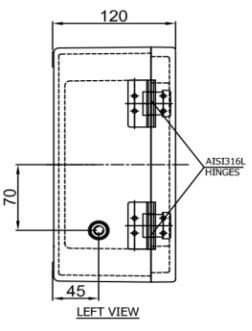
F.to UNI A3: 420mmx297mm

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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ITEM	Tag	EJB-200N1-09-L2-04	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001301		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

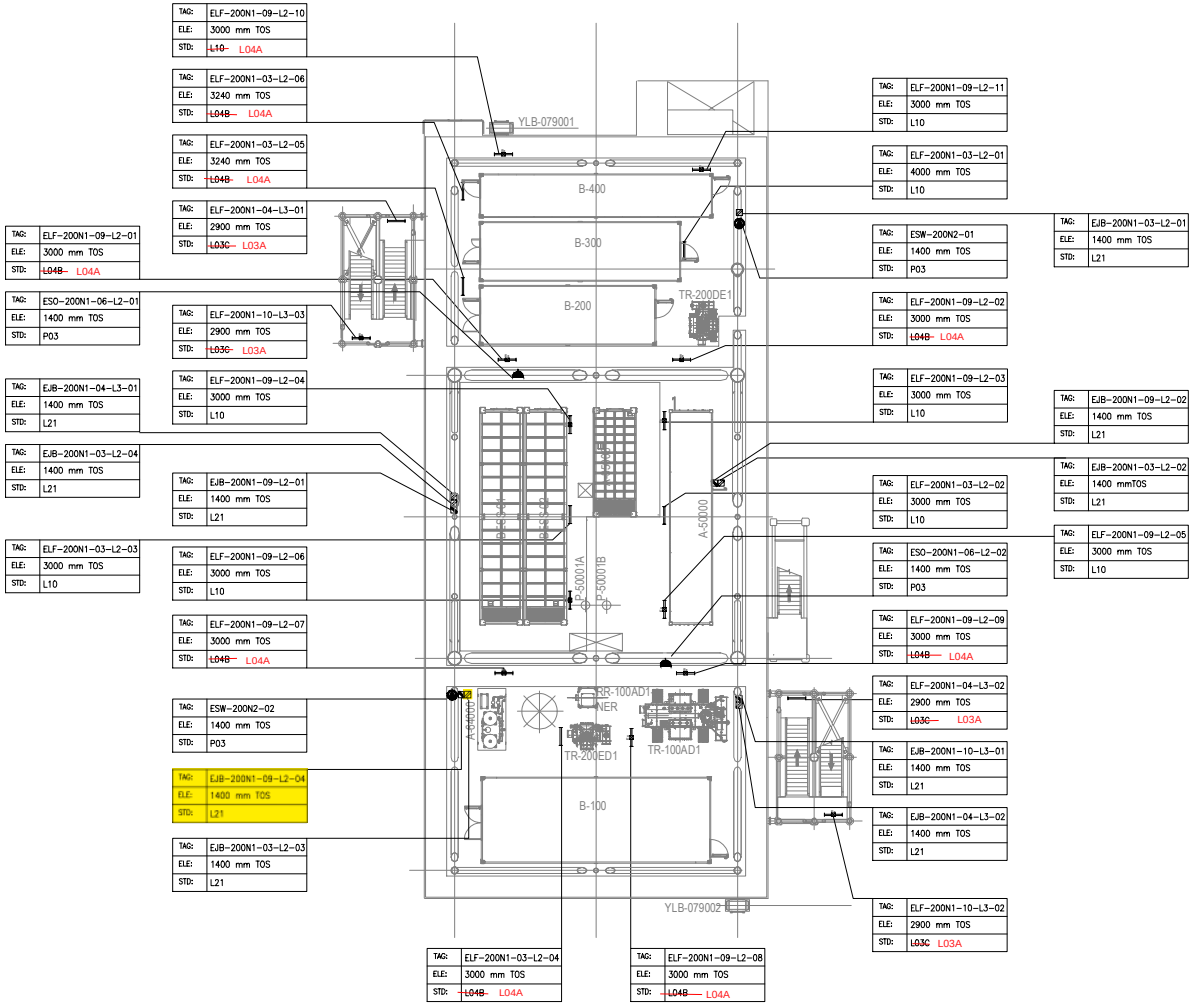
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	PL
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

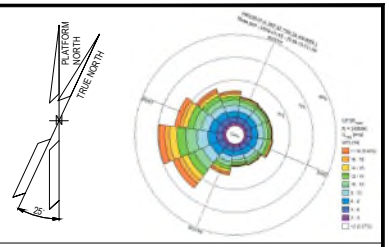
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-11	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:11:45.546Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-13T12:57:00.795Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

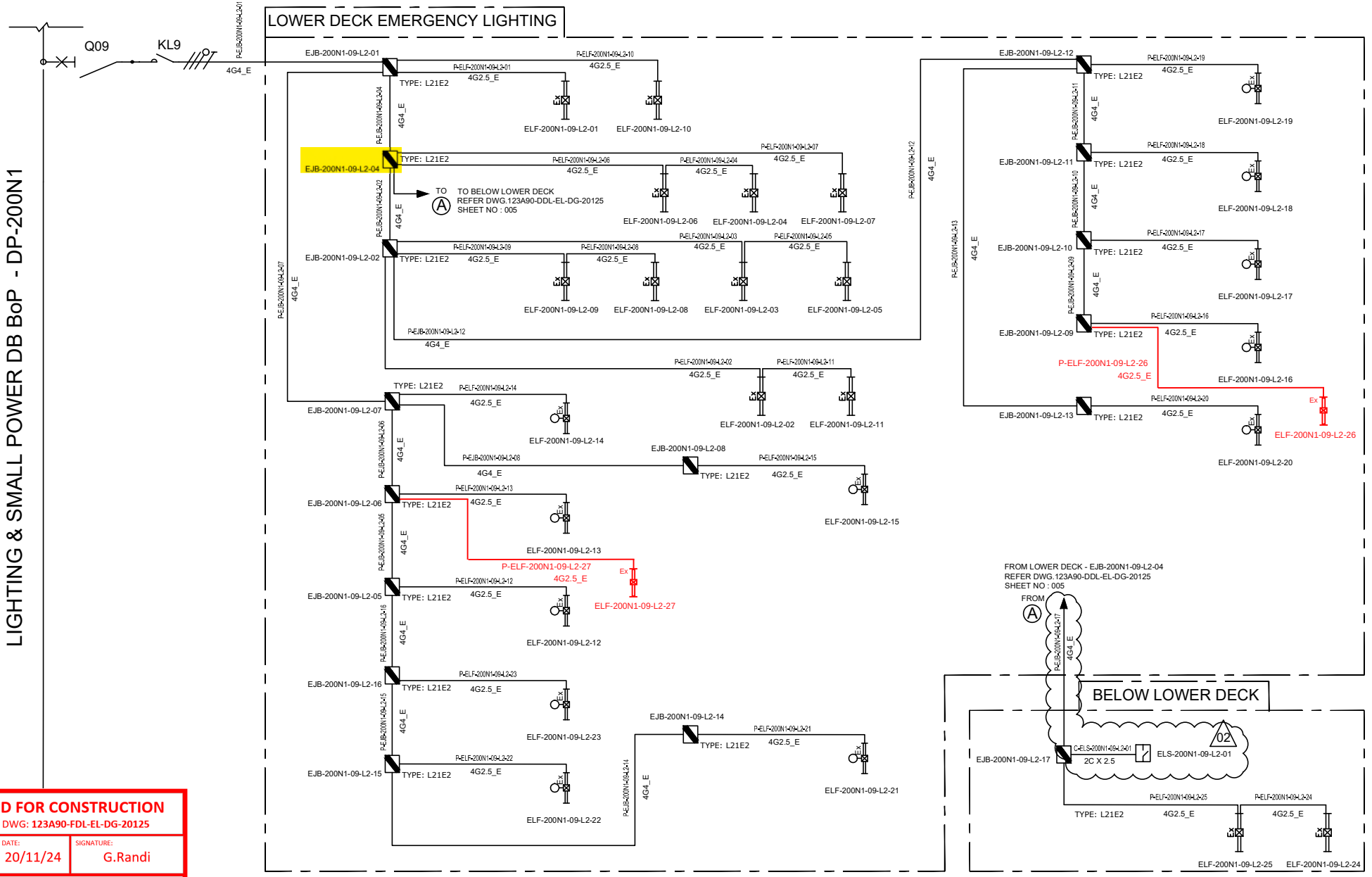
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

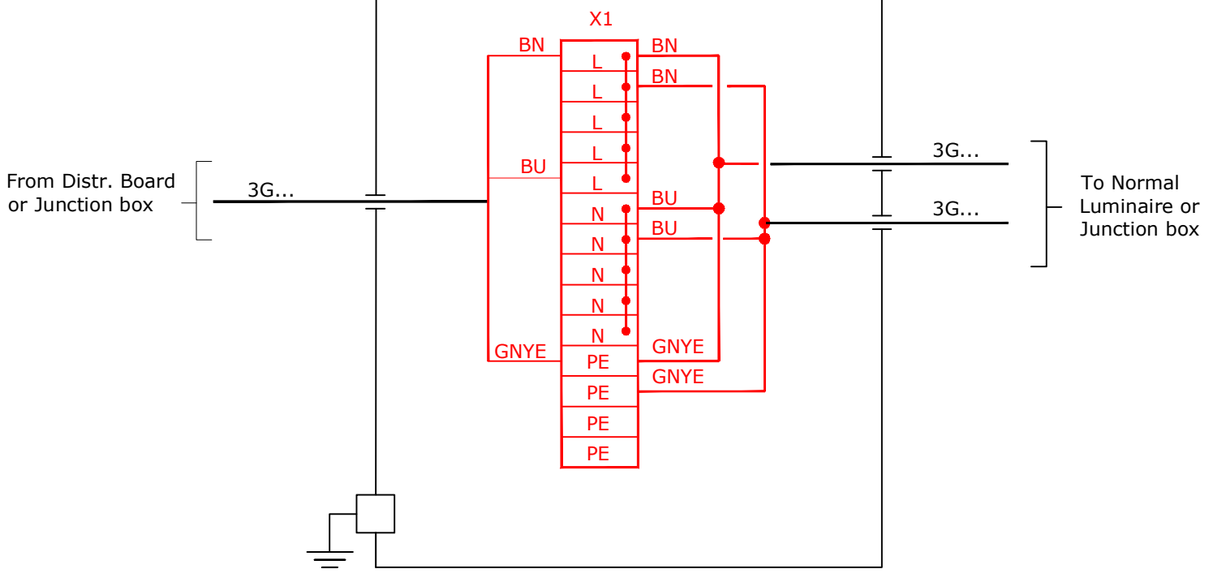
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

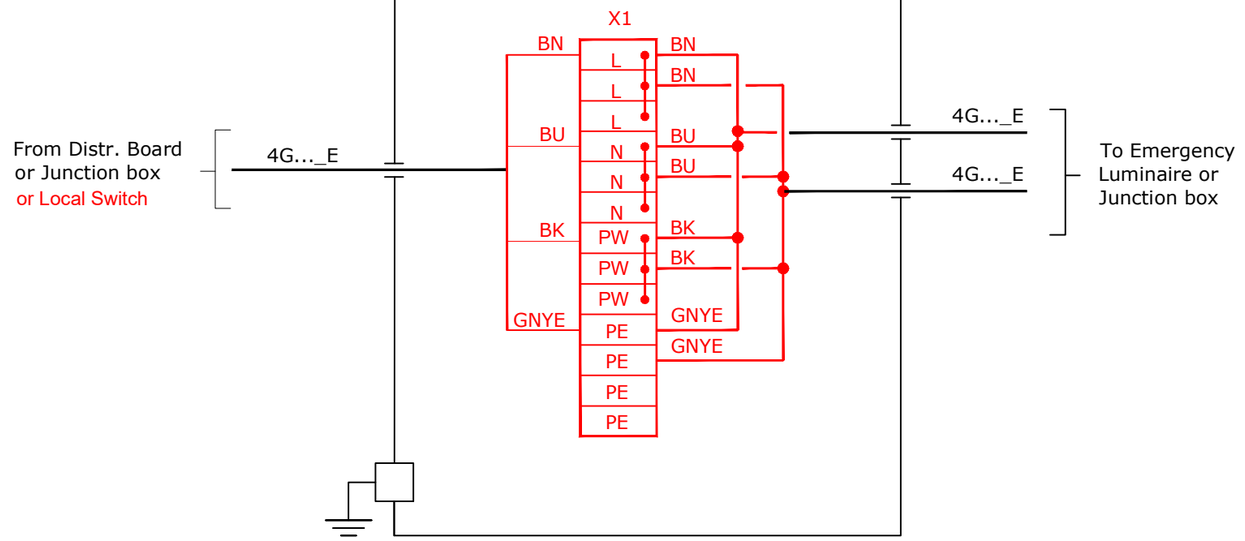
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

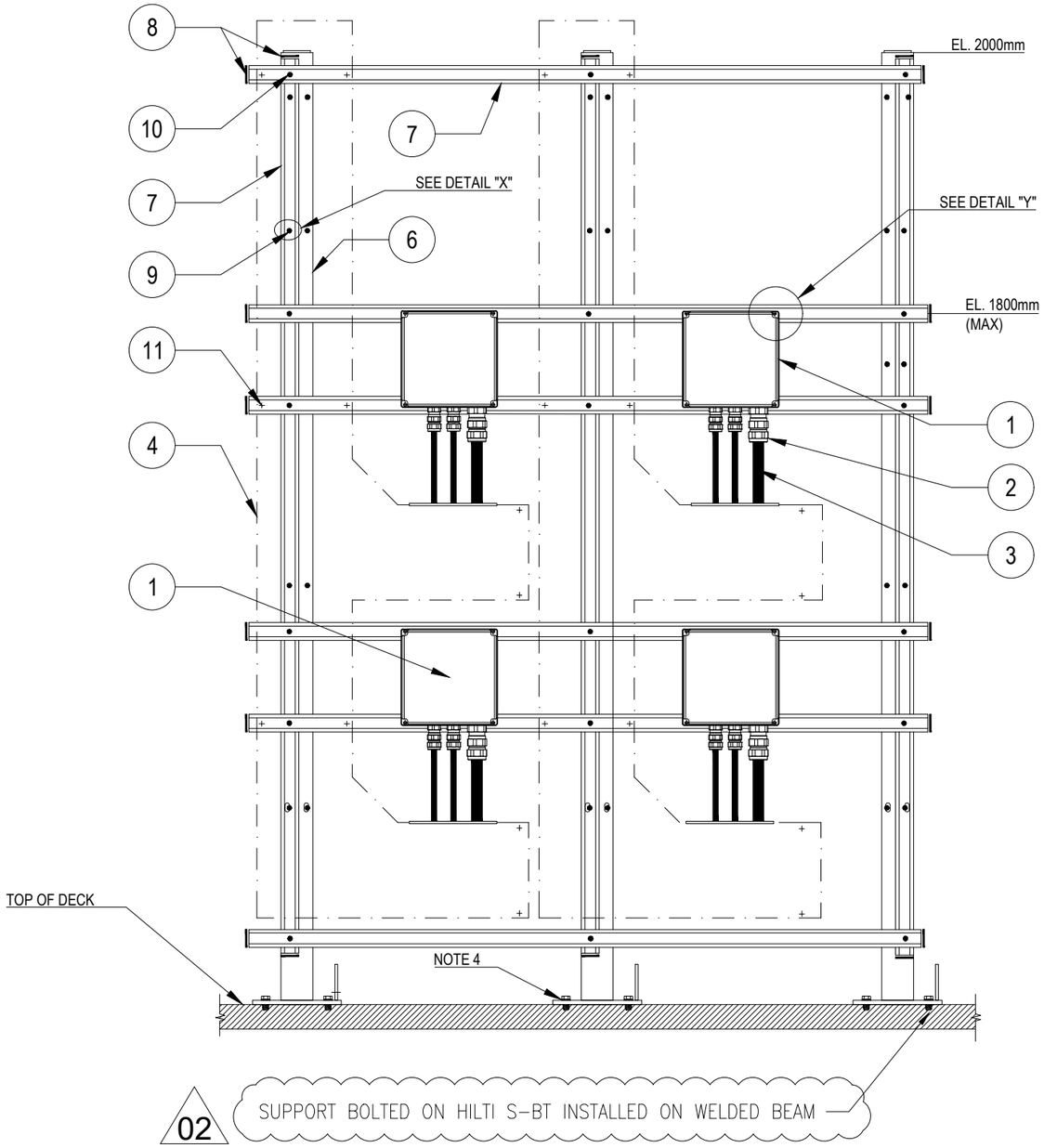
SHEET 016

REV. 01

File Name : 123A90-DDL-EL-DG-20125

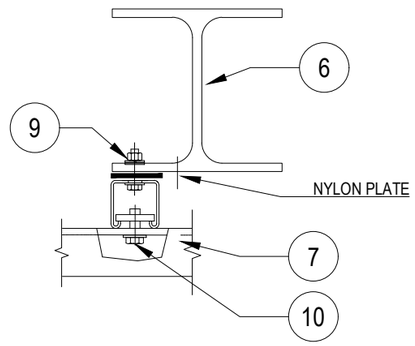
F.to UNI A3: 420mmx297mm

L21

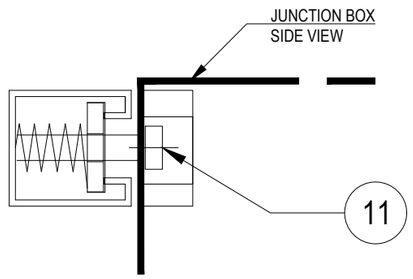


02 SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

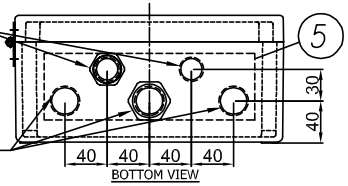
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Gessate (MI) ITALY

CE 0080 II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
T.amb. -20/+40°C
IP66
Serial Nr.

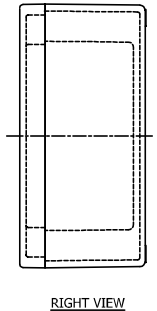
WARNINGS : DO NOT OPEN WHEN ENERGIZED

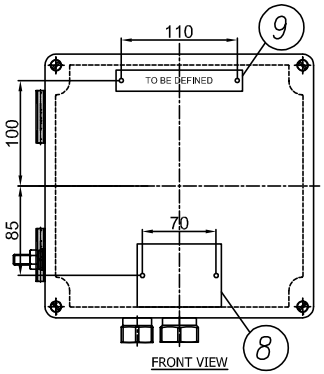
(9) PLATE DETAIL



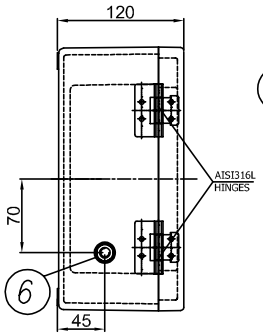
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS:BLACK

(7) JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

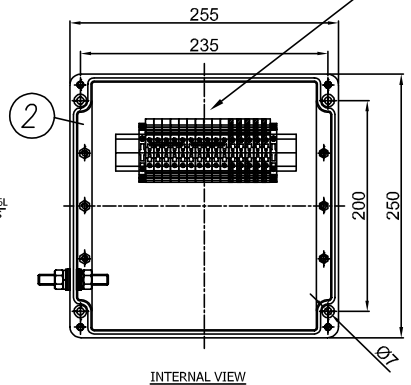

RIGHT VIEW



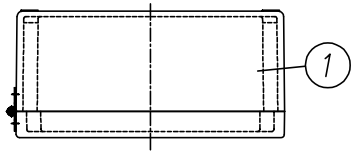
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

SHEET 004

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001481-EL-DA-00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTNING	EMERGENCY LIGHTNING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	~~EJB-200N1-08-L1-13~~ EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

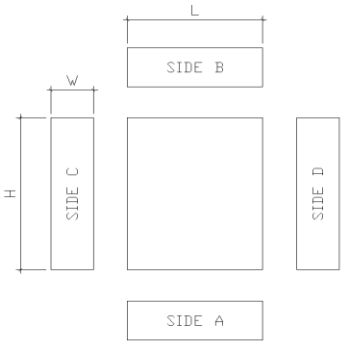
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 005 | REV. 04

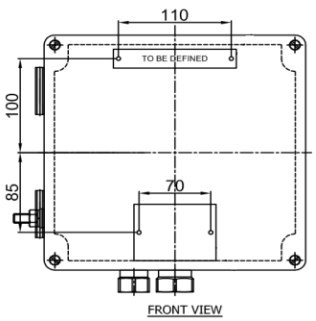
F.to UNI A3: 420mmx297mm

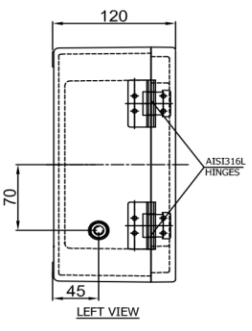
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	**Item**	**Required**	**Manufacturer Proposal**	**Comments**	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	**JB Code (*)**	**Remarks**			
58					



NOTES:
(*) Filled by Vendor





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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO

CROSSWIND

ITEM	Tag	EJB-200N1-09-L2-17	: JB - EMERGENCY LIGHTING			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	TP
TASK	code	C10001336		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX31 Junction and Marshalling Box

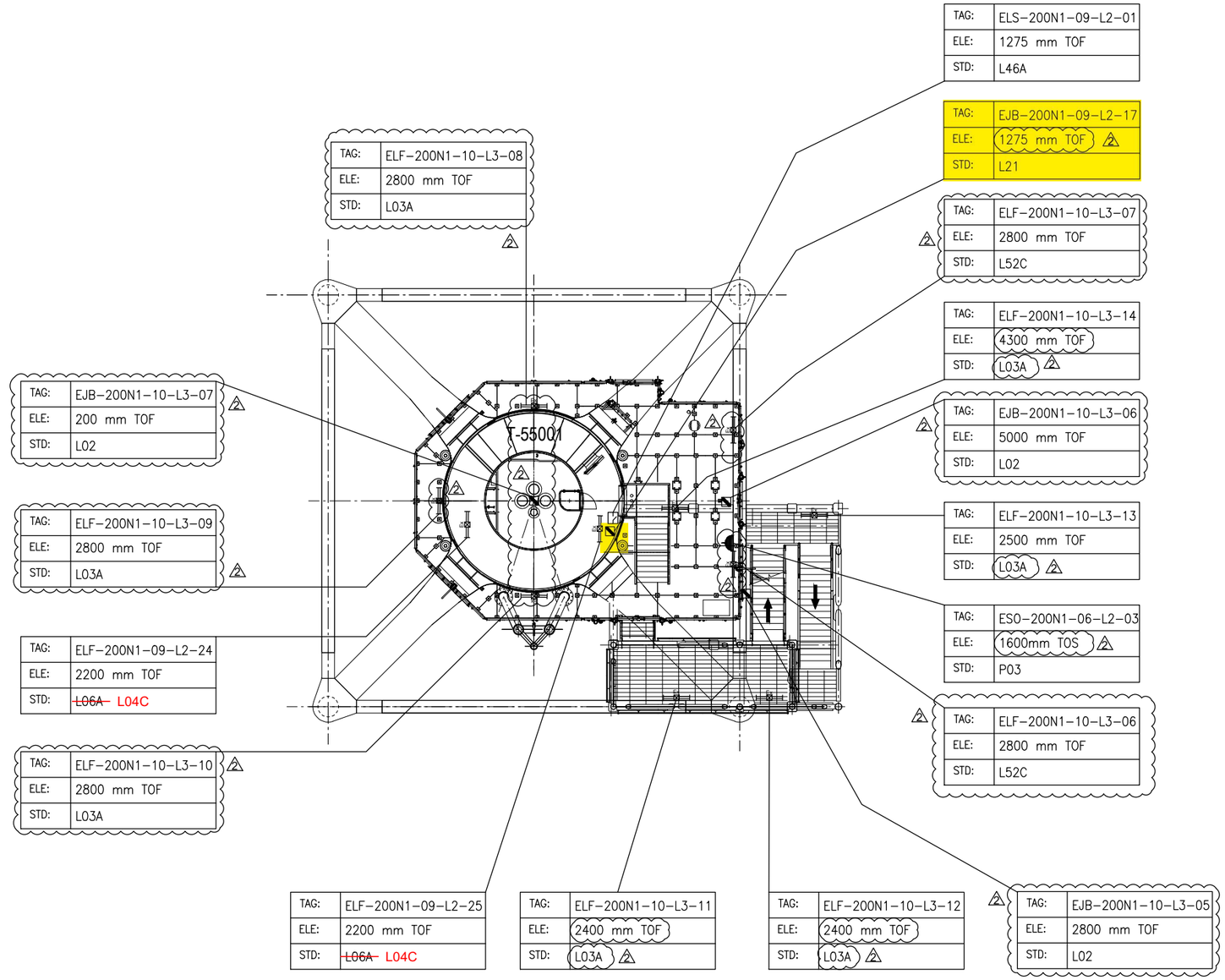
1	Check box is de-energized and safe.	OK
2	Check box is correctly mounted and easily accessible.	OK
3	Check box tagging against drawing.	OK
4	Check nameplate data is correct.	OK
5	Check flameproof joints are clean and greased with approved lubricants (if required).	NA
6	Check for damaging gaskets.	OK
7	Check all bolts are fitted and correcly tighted .	OK
8	Check all unused entries are suitably plugged.	OK
9	Check earthing and bonding against drawings.	OK
10	Check terminal blocks segregation barriers are fitted where necessary.	NA
11	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

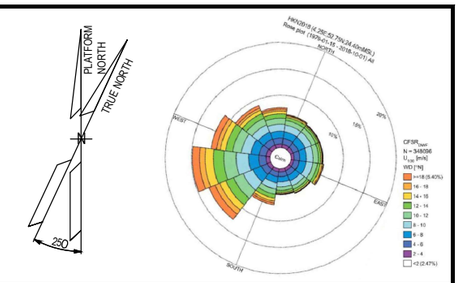
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-28	
Signature	Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:15:11.392Z	Digitaly signed by Giovanni Tangianu 2025-04-28T08:56:35.843Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

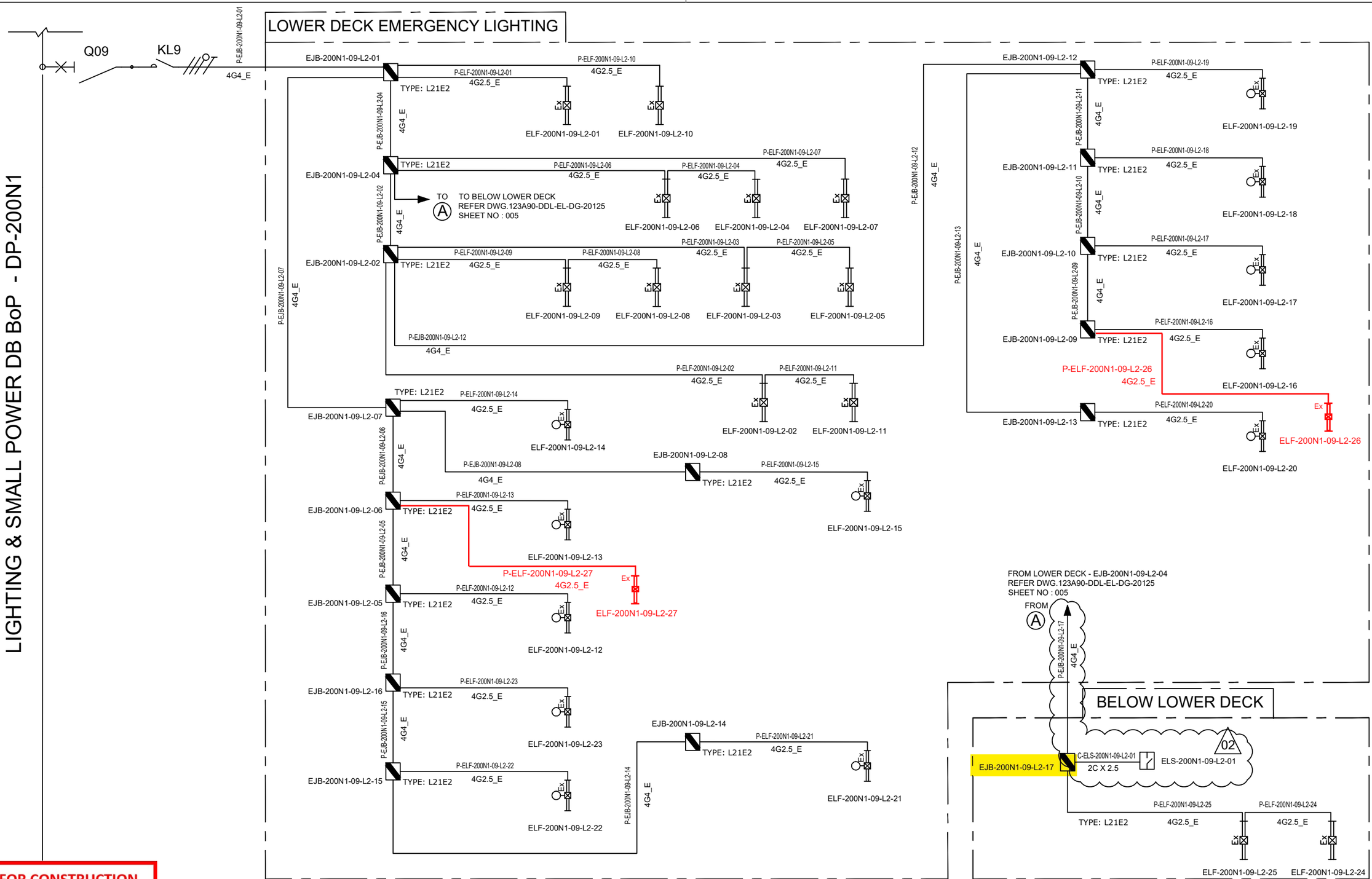
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

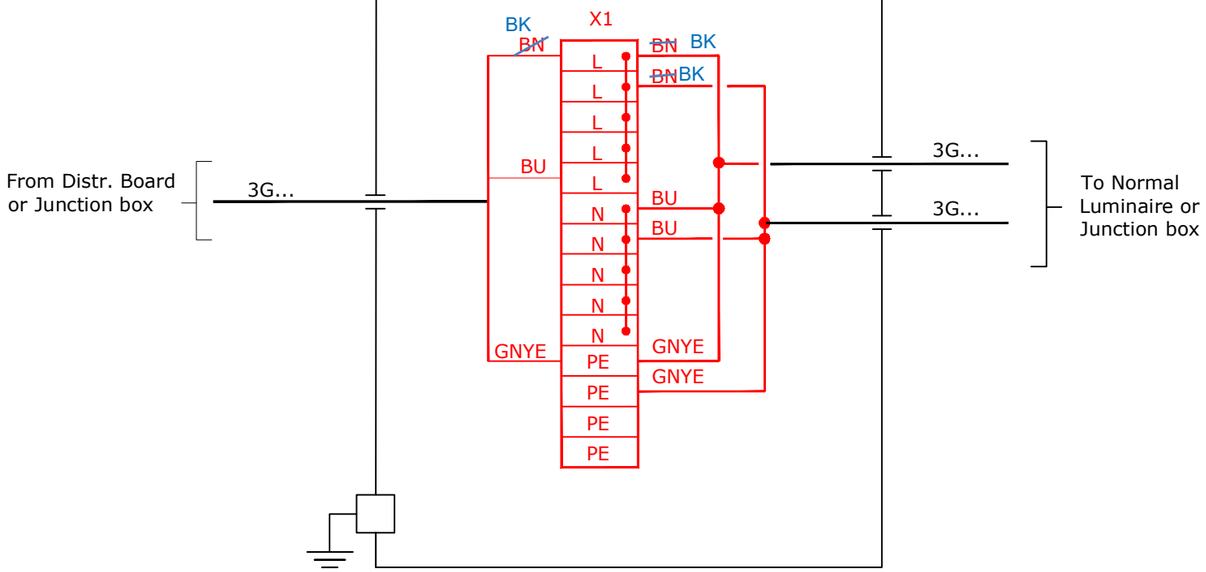
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

TYPE : L21N1 & L21N2

ITEM: NORMAL LIGHTING JUNCTION BOX

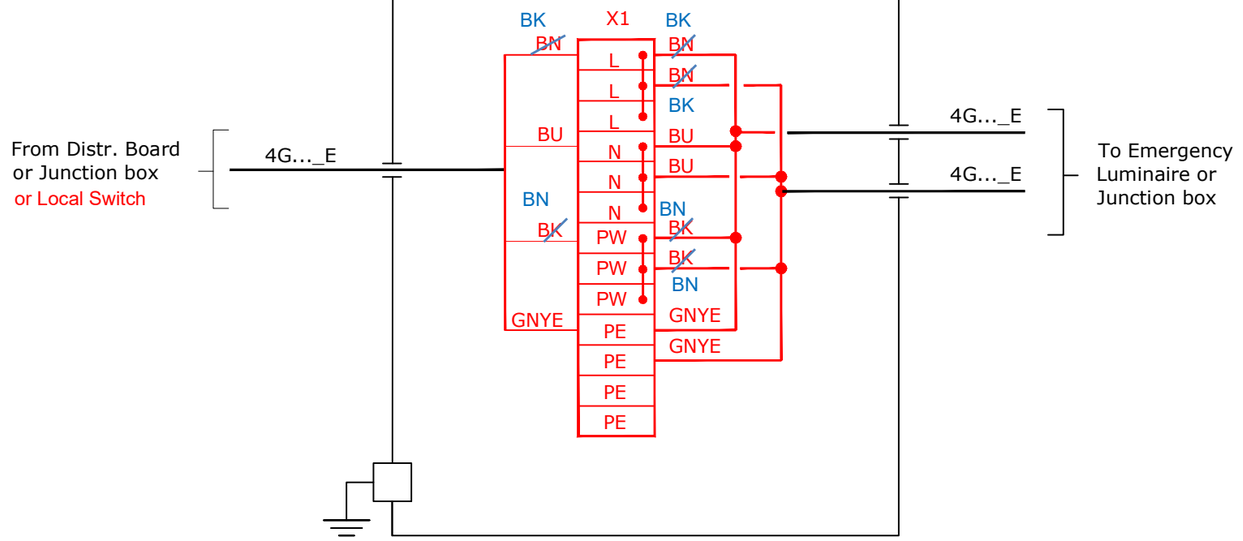
TAG : Typical



TYPE : L21E1 & L21E2

ITEM: EMERGENCY LIGHTING JUNCTION BOX

TAG : Typical



VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

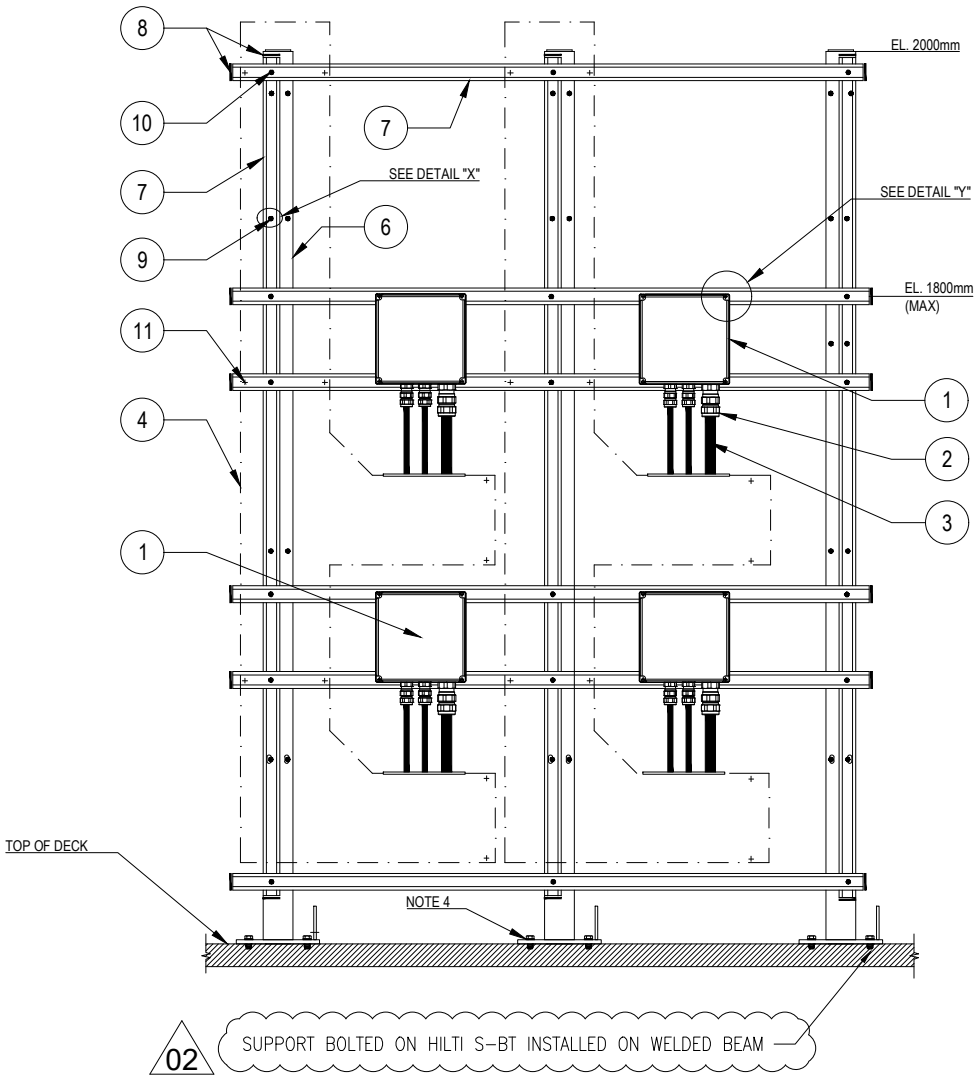
SHEET 016

REV. 01

File Name : 123A90-DDL-EL-DG-20125

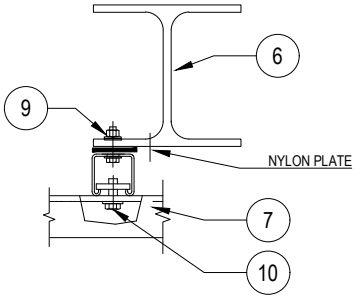
F.to UNI A3: 420mmx297mm

L21

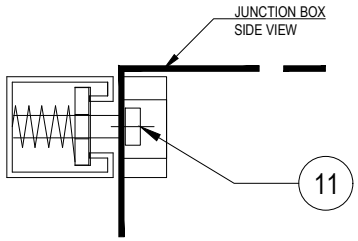


02

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	JUNCTION BOX (Ex)	GRP			
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS			NOTE 2
3	ARMOURED/UNARMOURED CABLE				
4	CABLE LADDER WITH COVER	AISI 316L			
6	PROFILE SUPPORT	PAINTED C.S			
7	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2		NOTE 1
8	PLUG FOR U-CHANNEL	LPDE			
9	HEXAGONAL BOLT M10X40 WITH LARGE PLANE WASHER, NYLON PLANE WASHER, PLANE WASHERS, GROWER SPRING WASHER AND NUT	AISI 316L	M10x40		
10	HEXAGONAL BOLT M12X30 COMPLETE WITH LARGE PLANE WASHER, PLANE WASHER AND NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12x30		
11	ALLEN KEY BOLT COMPLETE WITH PLANE WASHER, NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M6x30		NOTE 3



DETAIL "X"



DETAIL "Y"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) FOR INSTRUMENT JUNCTION BOX USE HEXAGONAL BOLT M10X30 COMPLETE WITH PLANE WASHER, GROWER AND NUT FOR U-CHANNEL WITH SPRING
4) SUPPORT BOLTED ON HILTI S-BT INSTALLED ON THE DECK

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
JUNCTION BOXES MOUNTED RACK SUPPORT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

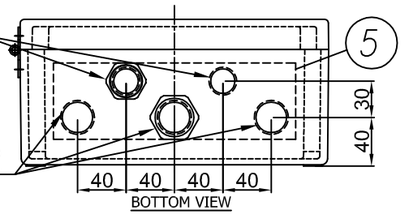
A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

(10)(4) N°2 PASSING HOLES Ø20.2
C/W N°1 BNK PLUG M20 +
N°1 DUSTPROOF PVC PLUG

(3)(3) N°3 PASSING HOLES Ø25.2
C/W N°1 BNK PLUG M25 +
N°2 DUSTPROOF PVC PLUG



BOTTOM VIEW

(8) I2400722-B015I00029809

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC
Via Italia 33 - 20060 Cassano (MI) ITALY

CE 0080 Ex II 2G II 2D
FIDI 21ATEX 0090X
IECEx FIDI 21.0015X
Year of construction:

MADE IN ITALY

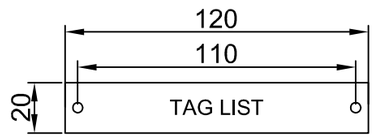
TYPE: AQ-252612P
230VAC 50Hz 20A
Max Dis. P. 6W

Ex eb IIC T6 Gb
Ex tb IIIC T85°C Db
IP66
T.amb. -20/+40°C
Serial Nr.

WARNINGS : DO NOT OPEN WHEN ENERGIZED

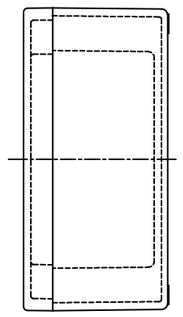
A002MAX

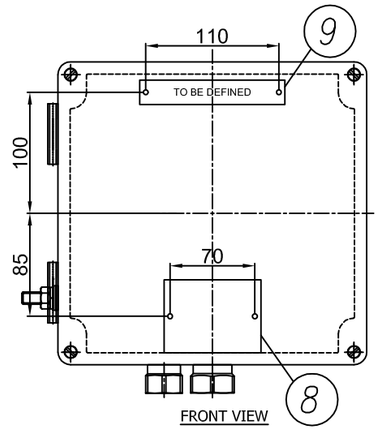
(9) PLATE DETAIL



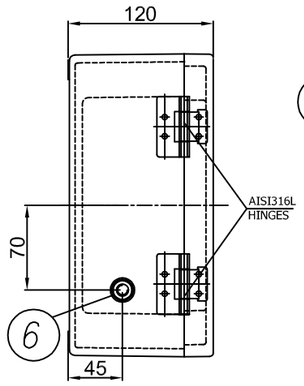
MATERIAL: LAMINATED PLASTIC
BACKGROUND: WHITE
LETTERS: BLACK

(7) Terminals numbered: NOTE 1

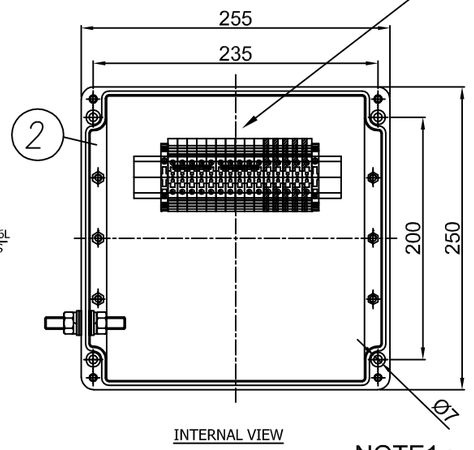

RIGHT VIEW



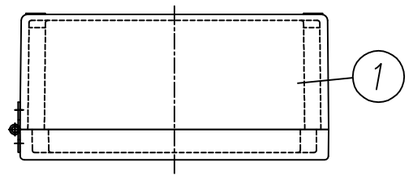
FRONT VIEW



LEFT VIEW



INTERNAL VIEW



TOP VIEW

NOTE1 :
- JB for Normal Lighting have terminals bridge: L-L-L-L-L, N-N-N-N-N, PE-PE-PE-PE-PE - JB for Emergency Lighting have terminals bridge: L-L-L, N-N-N, PW-PW-PW, PE-PE-PE-PE-PE

ITEM	DESCRIPTION	Pcs Q.TY	NOTE/MAT.	CODE	MANUFACTURER
11	DUSTPROOF PVC PLUG Ø25	2	–	.	TECHNOR ITALSMEA
10	DUSTPROOF PVC PLUG Ø20	1	–	.	TECHNOR ITALSMEA
9	LAMINATED PLASTIC TAG 120X20	1	–	.	TECHNOR ITALSMEA
8	AISI316L CERTIFICATE PLATE 80X60	1	–	.	TECHNOR ITALSMEA
7	BEIGE TERMINAL BLOCK SIZE 6 SQMM EARTH TERMINAL BLOCK SIZE 6 SQMM	10 5	WDU–6 WPE–6	.	WEIDMULLER
6	AISI316L INT/EXT EARTH BOLT M10	1	BTP–10	.	TECHNOR ITALSMEA
5	BRASS CONTINUITY PLATE THK. 0.8 MM	1	–	.	TECHNOR ITALSMEA
4	NICKEL PLATED BRASS PLUG M20	1	T20	.	TECHNOR ITALSMEA
3	NICKEL PLATED BRASS PLUG M25	1	T25	.	TECHNOR ITALSMEA
2	INTERNAL MOUNTING PLATE	1	PS–2526	.	TECHNOR ITALSMEA
1	GRP ENCLOSURE	1	AQ–252612P	.	TECHNOR ITALSMEA

-UNPAINTED (BLACK NATURAL)
Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti
TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1724001481–EL–DA–00003 | SHEET 004 | REV. 05

F.to UNI A3: 420mmx297mm

File Name : 1724001481–EL–DA–00003 Rev. 01

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
1	EJB-200N1-03-L2-04	X	
2	EJB-200N1-03-L2-03	X	
3	EJB-200N1-03-L2-01	X	
4	EJB-200N1-03-L2-02	X	
5	EJB-200N1-03-L2-12	X	
6	EJB-200N1-03-L2-11	X	
7	EJB-200N1-03-L2-10	X	
8	EJB-200N1-03-L2-09	X	
9	EJB-200N1-03-L2-08	X	
10	EJB-200N1-03-L2-07	X	
11	EJB-200N1-03-L2-06	X	
12	EJB-200N1-03-L2-05	X	
13	EJB-200N1-03-L2-14	X	
14	EJB-200N1-03-L2-13		X
15	EJB-200N1-09-L2-17		X
16	EJB-200N1-09-L2-01		X
17	EJB-200N1-09-L2-04		X
18	SPARE (TO BE PROVIDED BLANK)		X
19	EJB-200N1-09-L2-02		X
20	EJB-200N1-09-L2-15		X
21	EJB-200N1-09-L2-14		X
22	EJB-200N1-09-L2-13		X
23	EJB-200N1-09-L2-12		X
24	EJB-200N1-09-L2-11		X
25	EJB-200N1-09-L2-10		X
26	EJB-200N1-09-L2-09		X
27	EJB-200N1-09-L2-08		X
28	EJB-200N1-09-L2-07		X
29	EJB-200N1-09-L2-06		X
30	EJB-200N1-09-L2-05		X
31	EJB-200N1-09-L2-16	X	
32	EJB-200N1-04-L3-01	X	
33	EJB-200N1-04-L3-02	X	
34	EJB-200N1-10-L3-05		X
35	EJB-200N1-10-L3-06		X
36	EJB-200N1-10-L3-07		X
37	EJB-200N1-10-L3-08		X
38	EJB-200N1-10-L3-09		X
39	EJB-200N1-10-L3-02		X
40	EJB-200N1-10-L3-01		X
41	EJB-200N1-10-L3-03		X
42	EJB-200N1-10-L3-04		X
43	EJB-200N1-02-L1-03	X	
44	EJB-200N1-02-L1-02	X	
45	EJB-200N1-02-L1-01	X	
46	SPARE (TO BE PROVIDED BLANK)	X	
47	EJB-200N1-02-L1-10	X	
48	EJB-200N1-02-L1-19	X	
49	EJB-200N1-02-L1-18	X	

ENCLOSURE N°	TAG LIST	NORMAL LIGHTING	EMERGENCY LIGHTING
50	EJB-200N1-02-L1-17	X	
51	EJB-200N1-02-L1-16	X	
52	EJB-200N1-02-L1-15	X	
53	EJB-200N1-02-L1-14	X	
54	EJB-200N1-02-L1-13	X	
55	EJB-200N1-02-L1-12	X	
56	EJB-200N1-02-L1-11	X	
57	EJB-200N1-02-L1-06	X	
58	EJB-200N1-02-L1-05	X	
59	EJB-200N1-02-L1-07	X	
60	EJB-200N1-02-L1-08	X	
61	EJB-200N1-02-L1-09	X	
62	EJB-200N1-08-L1-03		X
63	SPARE (TO BE PROVIDED BLANK)		X
64	EJB-200N1-08-L1-01		X
65	EJB-200N1-08-L1-04		X
66	EJB-200N1-08-L1-19		X
67	EJB-200N1-08-L1-18		X
68	EJB-200N1-08-L1-17		X
69	EJB-200N1-08-L1-16		X
70	EJB-200N1-08-L1-15		X
71	EJB-200N1-08-L1-14		X
72	EJB-200N1-02-L1-20	X	
73	EJB-200N1-08-L1-12		X
74	EJB-200N1-08-L1-11		X
75	EJB-200N1-08-L1-10		X
76	EJB-200N1-08-L1-20		X
77	EJB-200N1-08-L1-05		X
78	EJB-200N1-08-L1-06		X
79	EJB-200N1-08-L1-07		X
80	EJB-200N1-08-L1-09		X
81	EJB-200N1-08-L1-08		X
82	EJB-200F2-01	X	
83	EJB-200F2-02	X	
84	SPARE (TO BE PROVIDED BLANK)	X	
85	SPARE (TO BE PROVIDED BLANK)	X	
86	SPARE (TO BE PROVIDED BLANK)	X	
87	SPARE (TO BE PROVIDED BLANK)	X	
88	SPARE (TO BE PROVIDED BLANK)	X	
89	SPARE (TO BE PROVIDED BLANK)		X
90	SPARE (TO BE PROVIDED BLANK)		X
91	SPARE (TO BE PROVIDED BLANK)		X
92	SPARE (TO BE PROVIDED BLANK)		X

Q.TY 92, ITEM 20: 2JBXXGPEE, ELEJB02

Explosion Proof
Electrical Equipment
Materiali Elettrici Antideflagranti

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	20/12/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
04	26/11/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
03	25/10/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
02	12/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
01	03/09/24	FB	OB	OB	ACCEPTED FOR CONSTRUCTION (AFC)
00	30/07/24	FB	OB	OB	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)

Junction Box for Normal & Emergency Lighting–Tag List

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724001481-EL-DA-00003

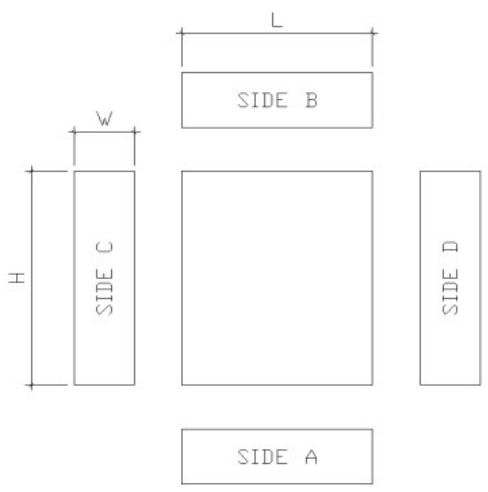
SHEET 005

REV. 05

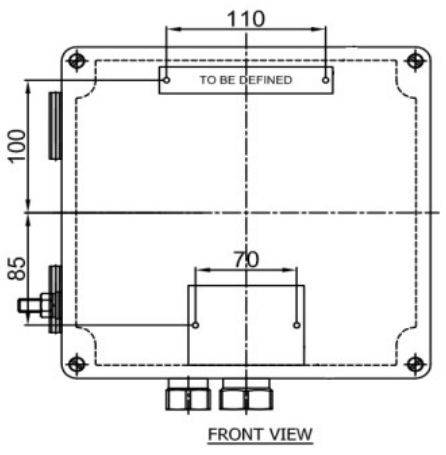
F.to UNI A3: 420mmx297mm

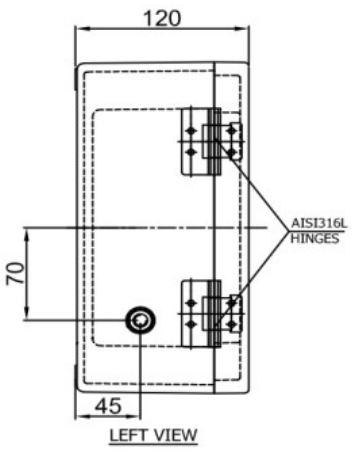
File Name : 1724001481-EL-DA-00003 Rev. 01

Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



NOTES:
(*) Filled by Vendor





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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	ELF-200N1-09-L2-01	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001401		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

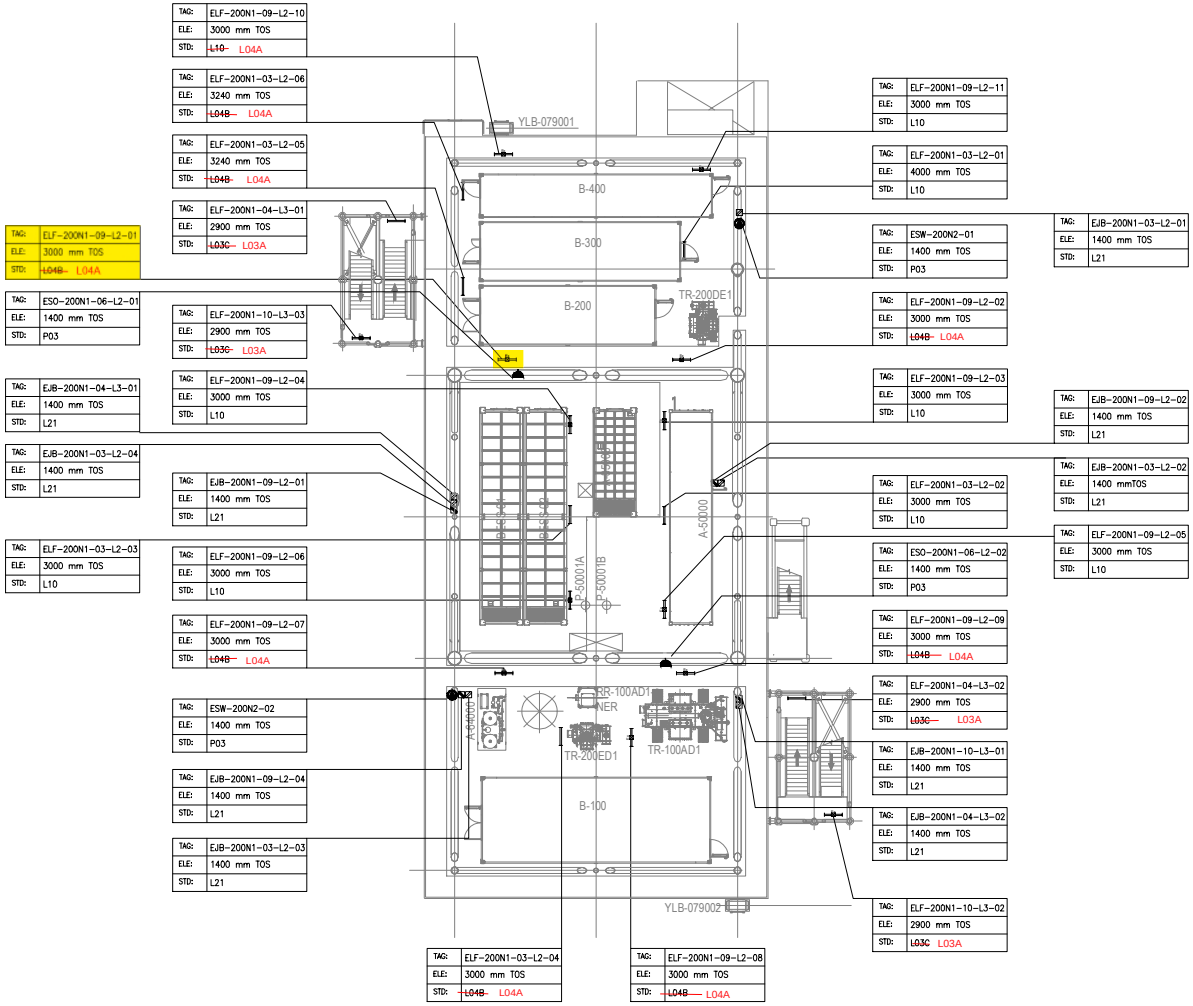
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:12:09.125Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T16:51:51.689Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2
P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
P-EJB-200N1-09-L2-02 4G4_E

EJB-200N1-09-L2-02 — TYPE: L21E2
P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-12 4G4_E
P-EJB-200N1-09-L2-07 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2
P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2
P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2
P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2
P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — ELF-200N1-09-L2-26
P-EJB-200N1-09-L2-13 4G4_E

EJB-200N1-09-L2-13 — TYPE: L21E2
P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20

TYPE: L21E2
P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2
P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2
P-EJB-200N1-09-L2-08 4G4_E
P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2
P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-EJB-200N1-09-L2-05 4G4_E
P-ELF-200N1-09-L2-27 4G2.5_E — ELF-200N1-09-L2-27

EJB-200N1-09-L2-05 — TYPE: L21E2
P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2
P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2
P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2
P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21
P-EJB-200N1-09-L2-14 4G4_E

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)
P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17
C-ELS-200N1-09-L2-01 2C X 2.5 — ELS-200N1-09-L2-01
02

TYPE: L21E2
P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

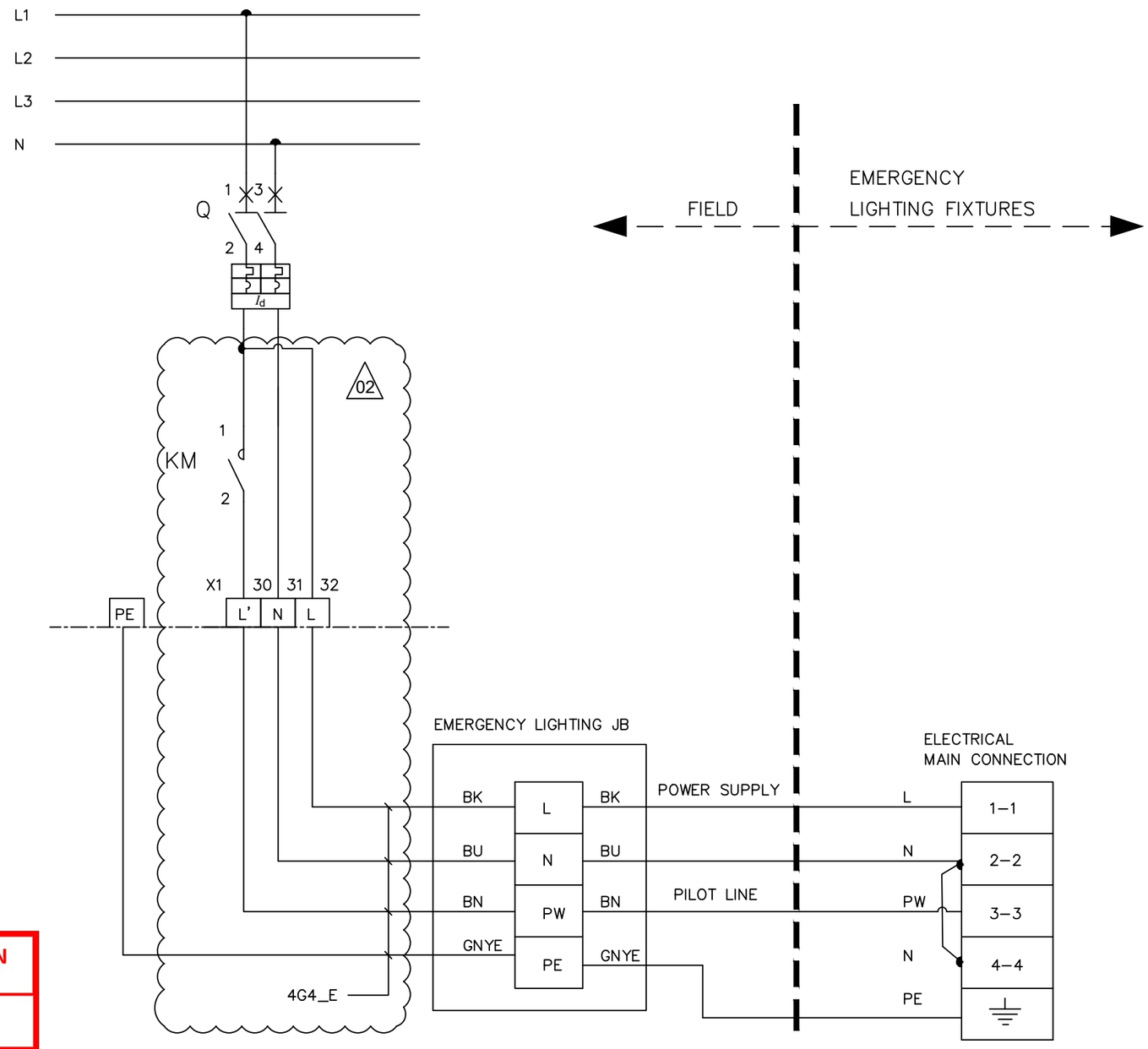
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

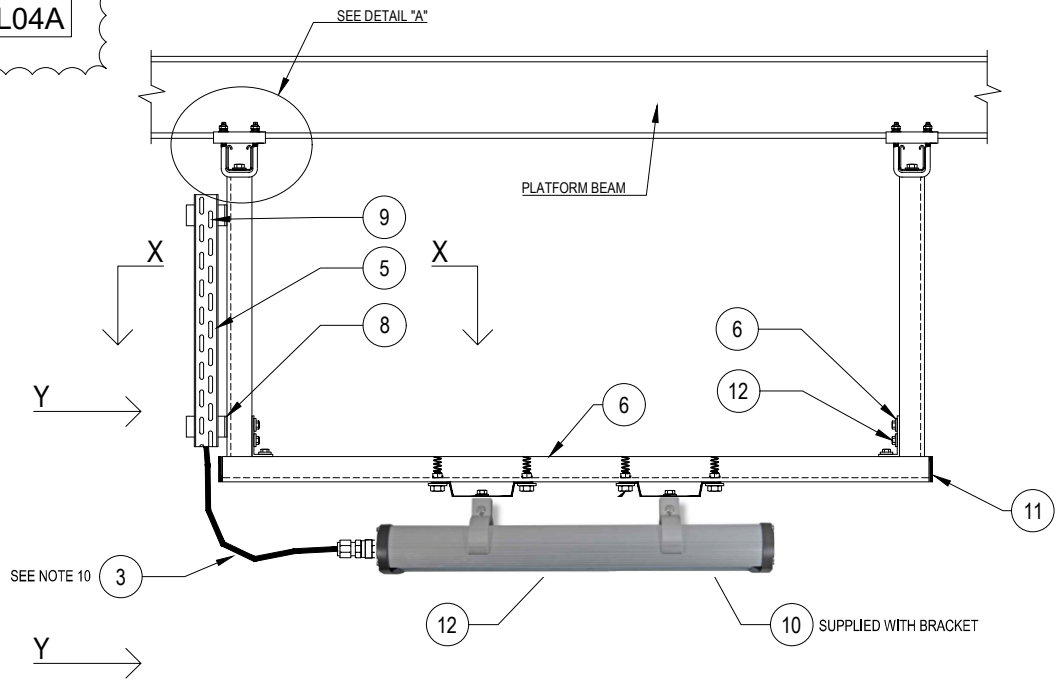
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

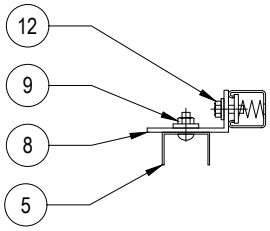
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L04A

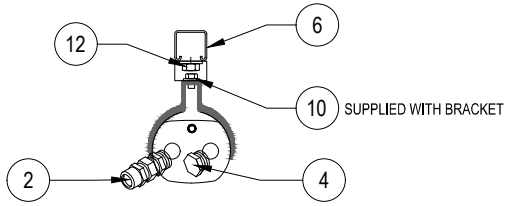


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

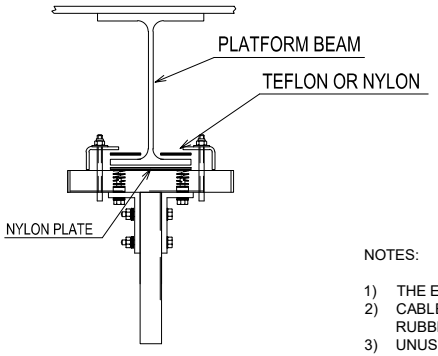
SECTION "X-X"



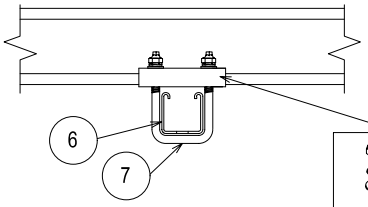
SECTION "Y-Y"



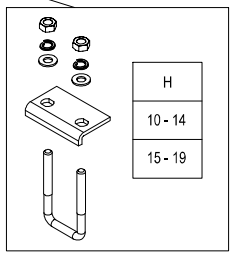
lighting fixture
Cortem LIFEX



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

02

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

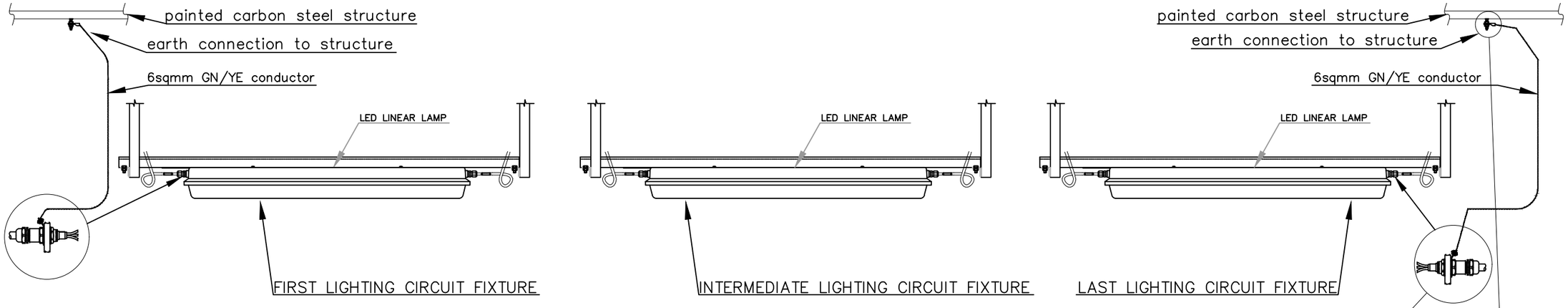
F.to UNI A3: 420mmx297mm

CROSSWIND

ROSETTI MARINO

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

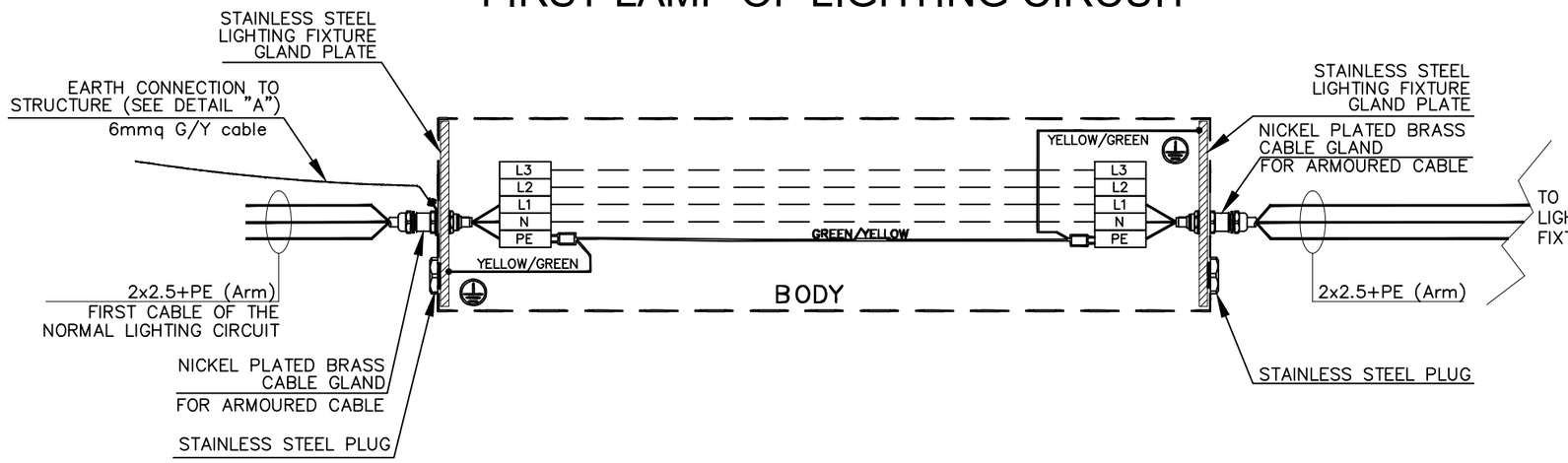


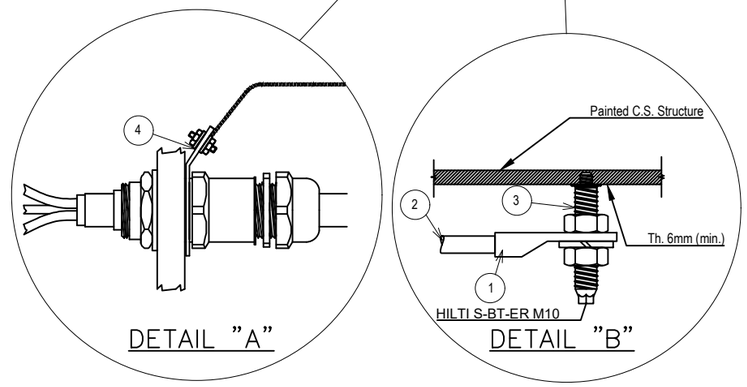
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

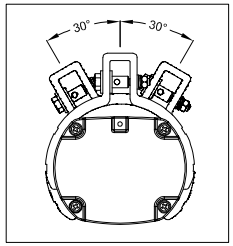
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

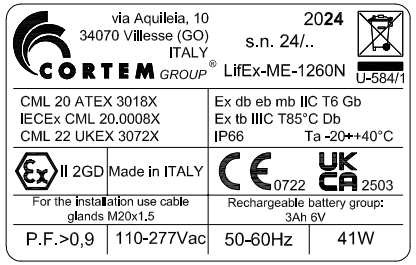
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



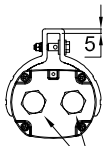
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

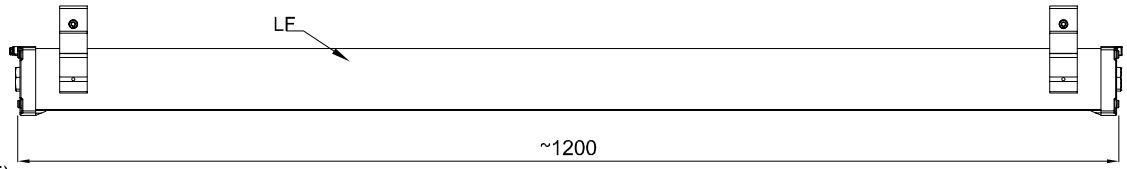
CERTIFICATE NAMEPLATE



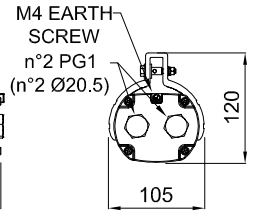
LEFT SIDE (OUT)



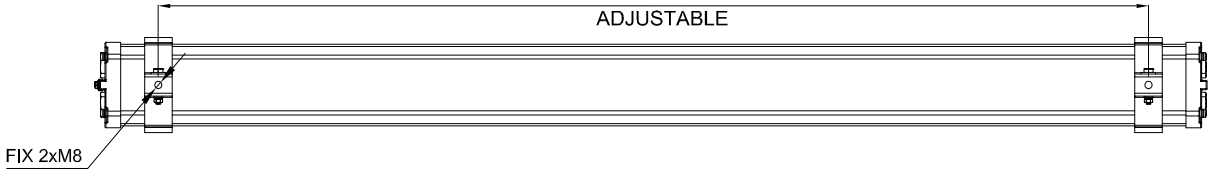
FRONT SIDE



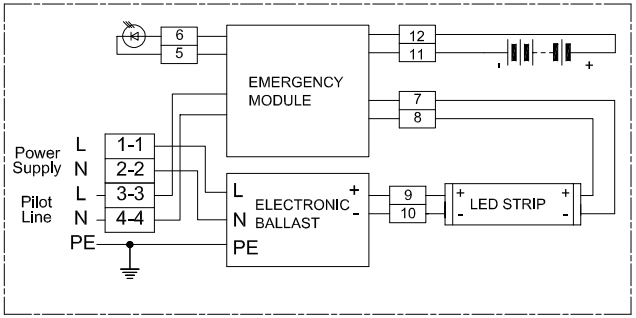
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-02	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001402		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

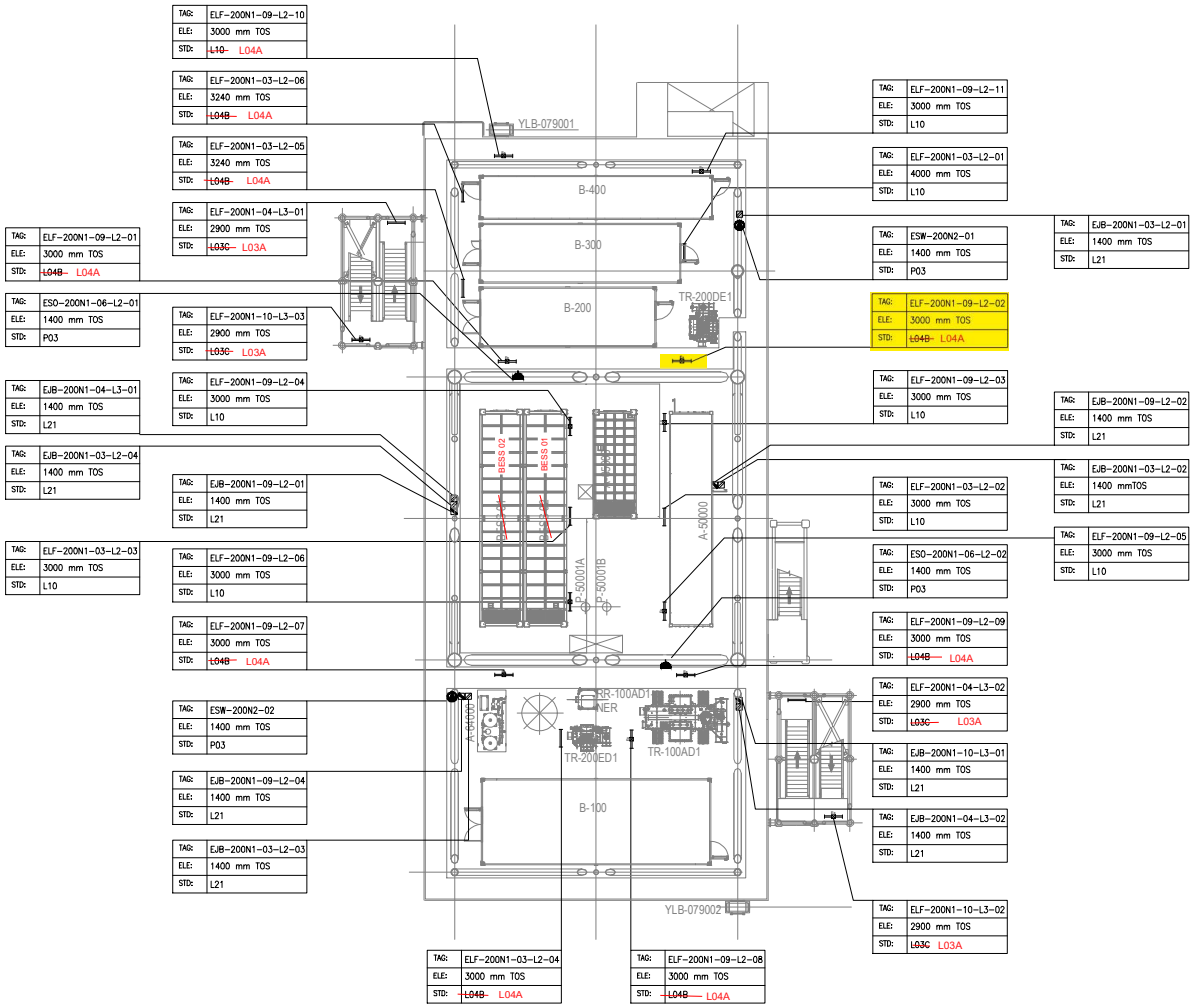
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

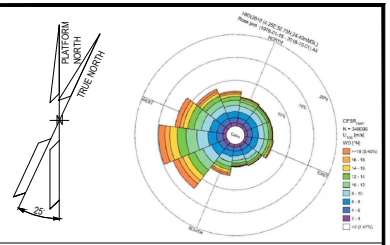
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-16	2024-12-17	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-16T12:10:44.366Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-17T10:40:22.496Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

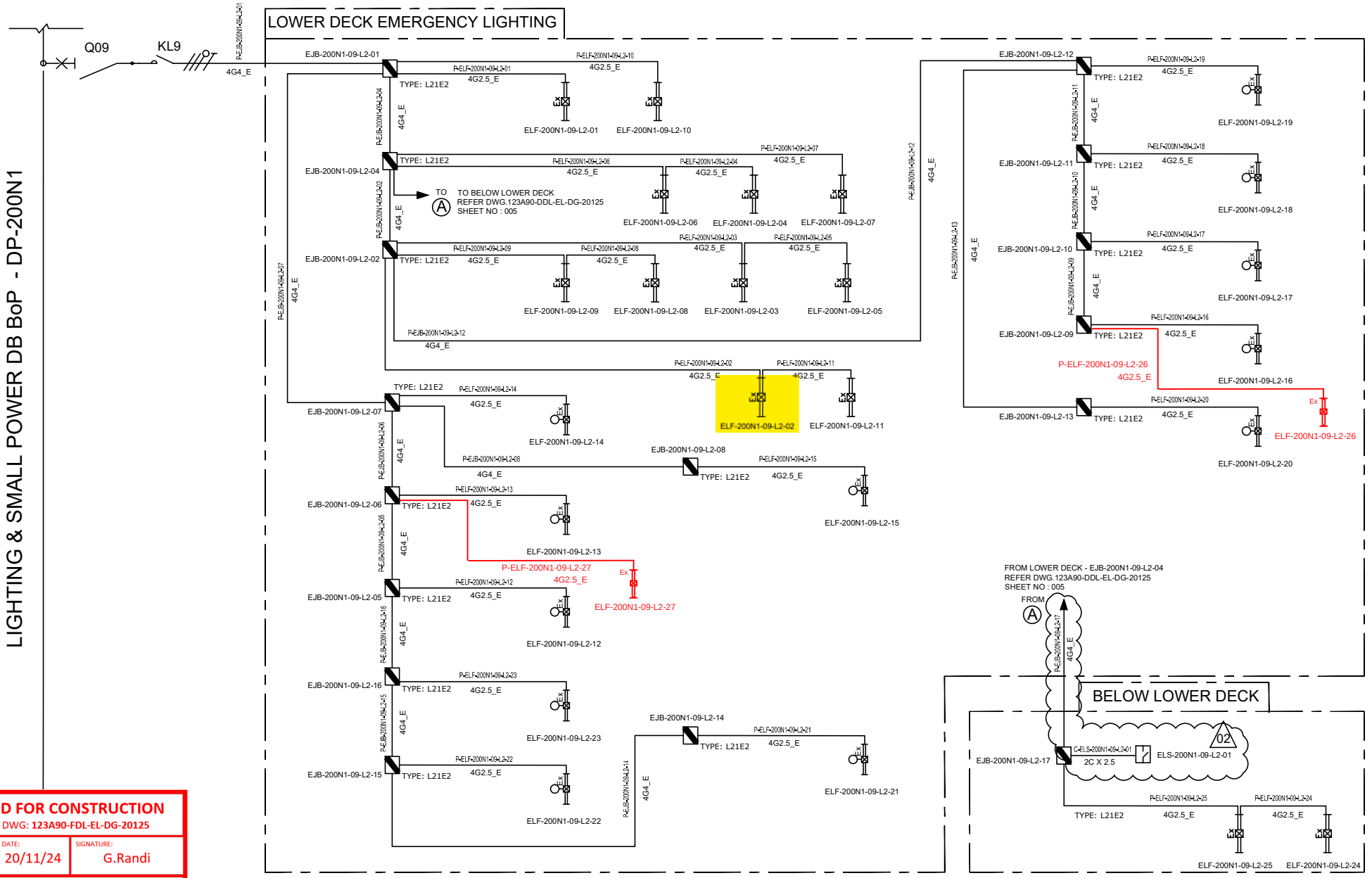
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

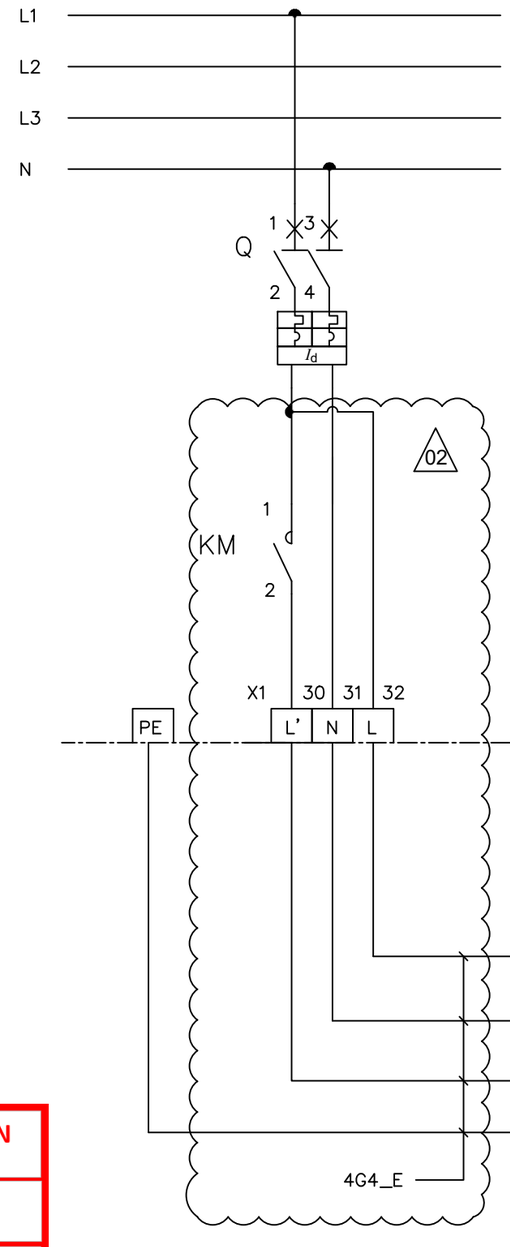
ROSETTI MARINO

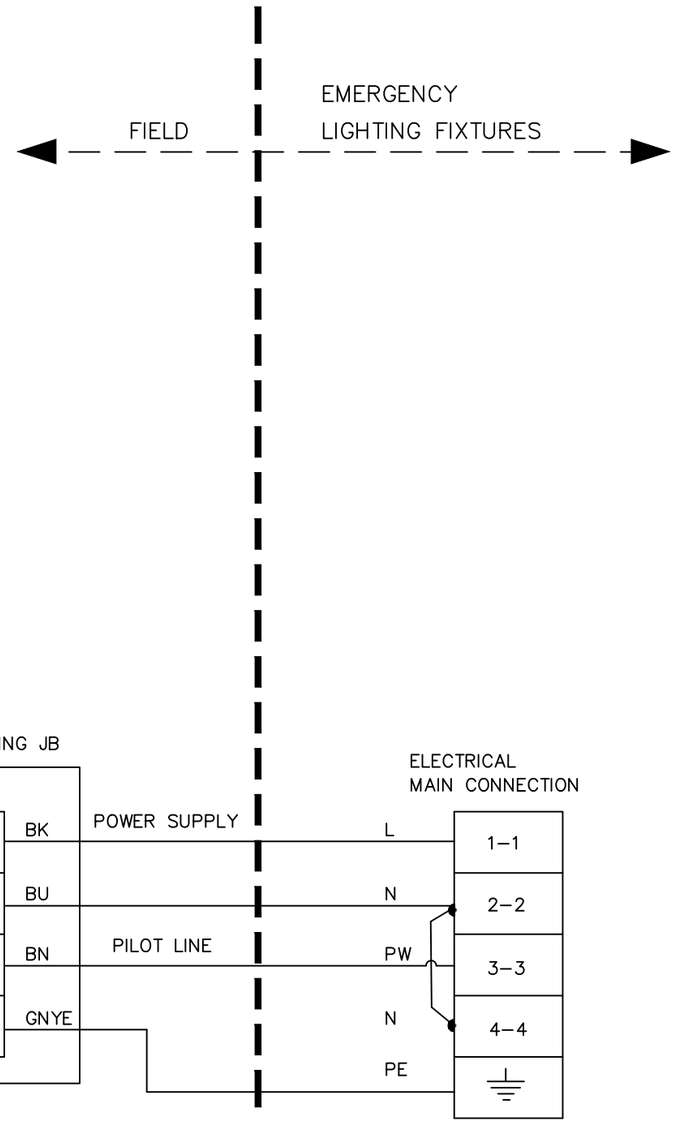
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz





L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

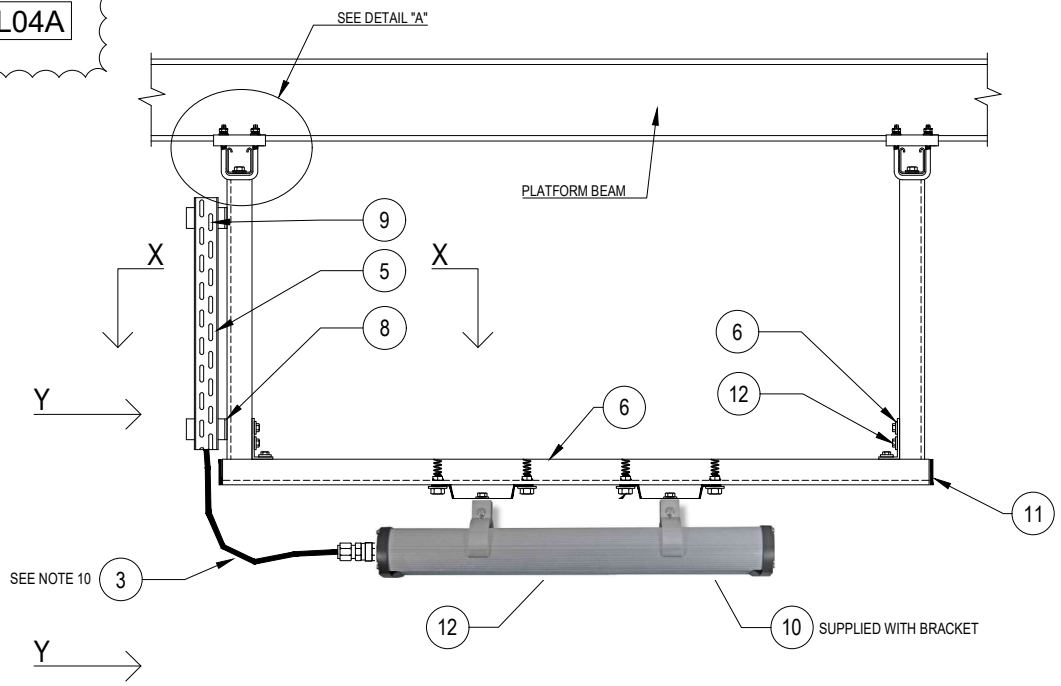
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

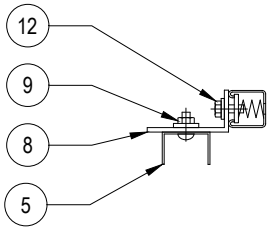
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L04A

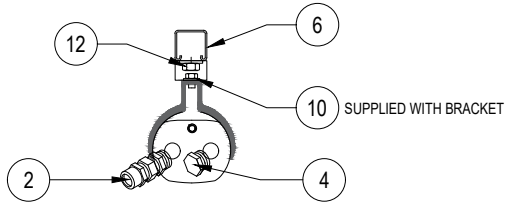


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

SECTION "X-X"

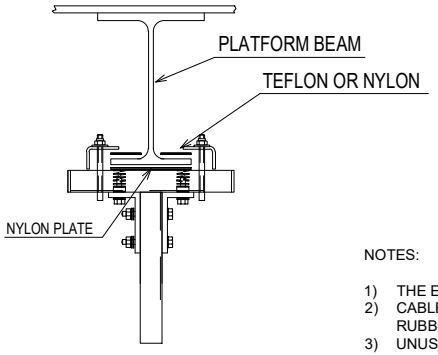


SECTION "Y-Y"

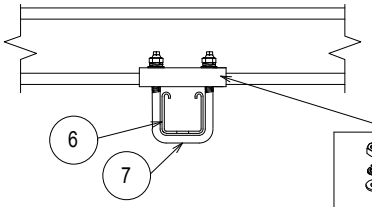


lighting fixture
Cortem LIFEX

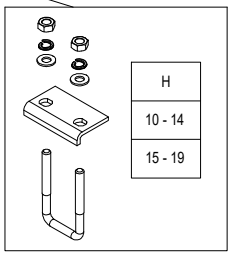
02



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

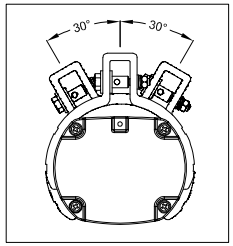
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

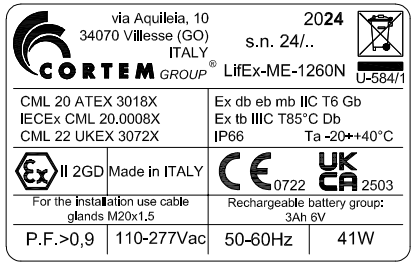
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



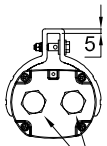
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

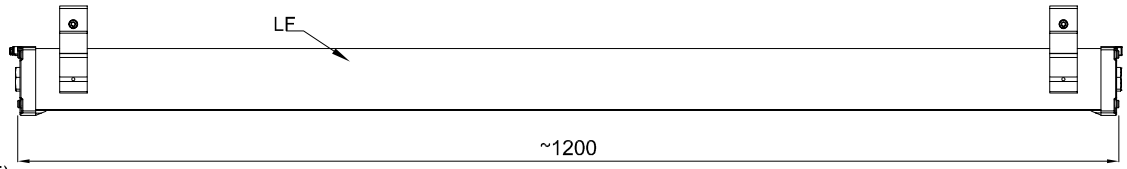
CERTIFICATE NAMEPLATE



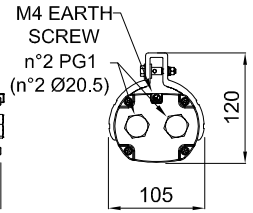
LEFT SIDE (OUT)



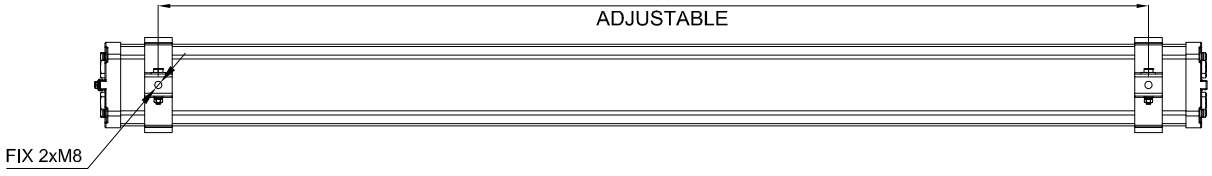
FRONT SIDE



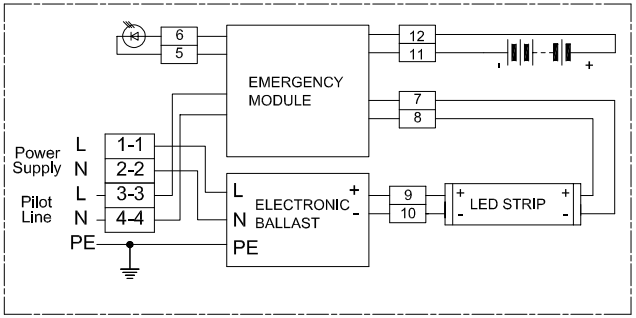
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-03	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001403		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

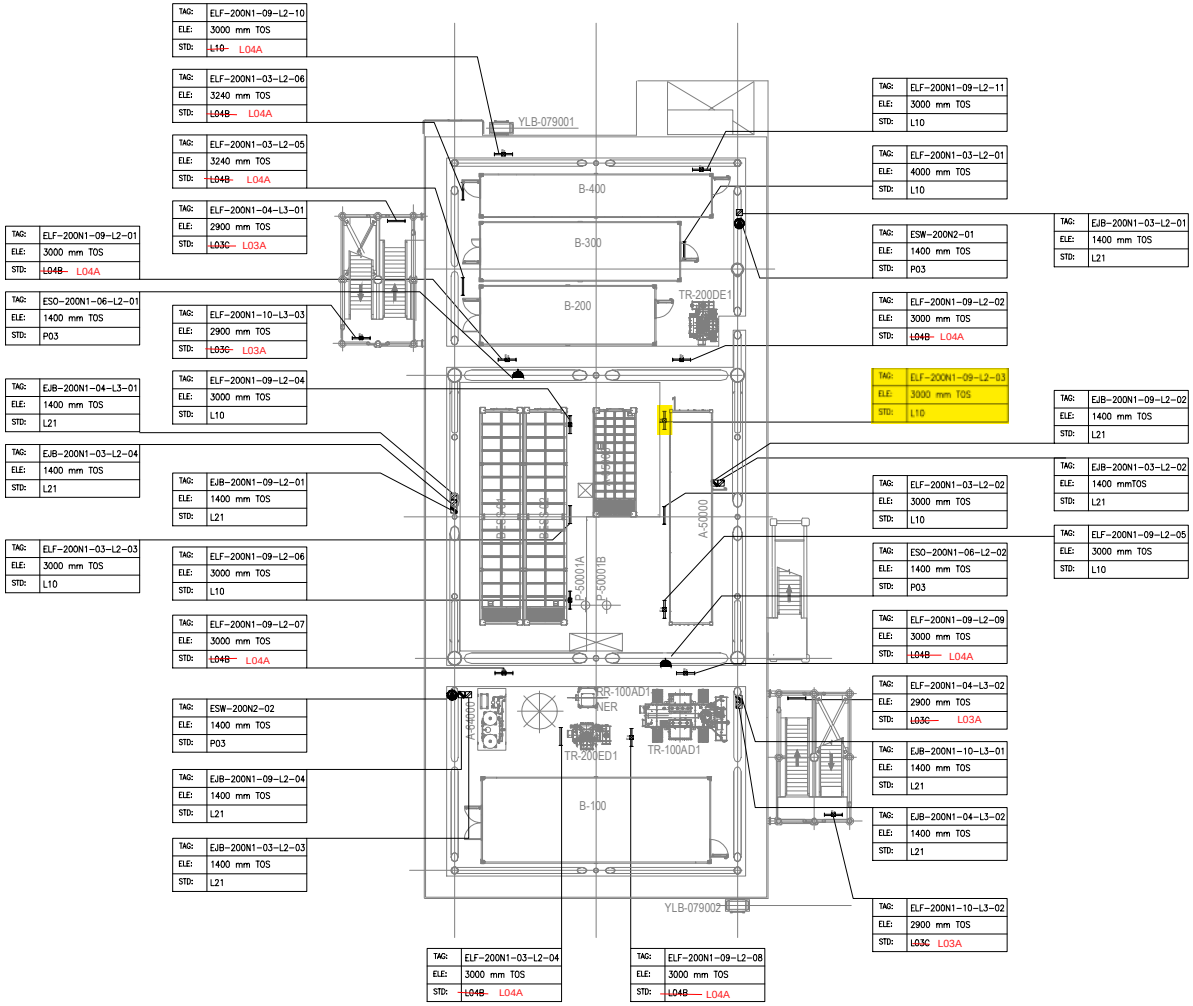
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

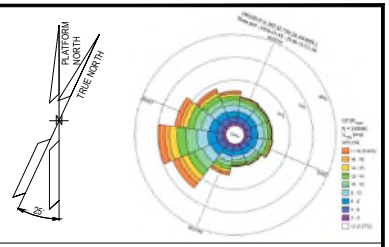
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:12:19.906Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-12T17:22:33.736Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

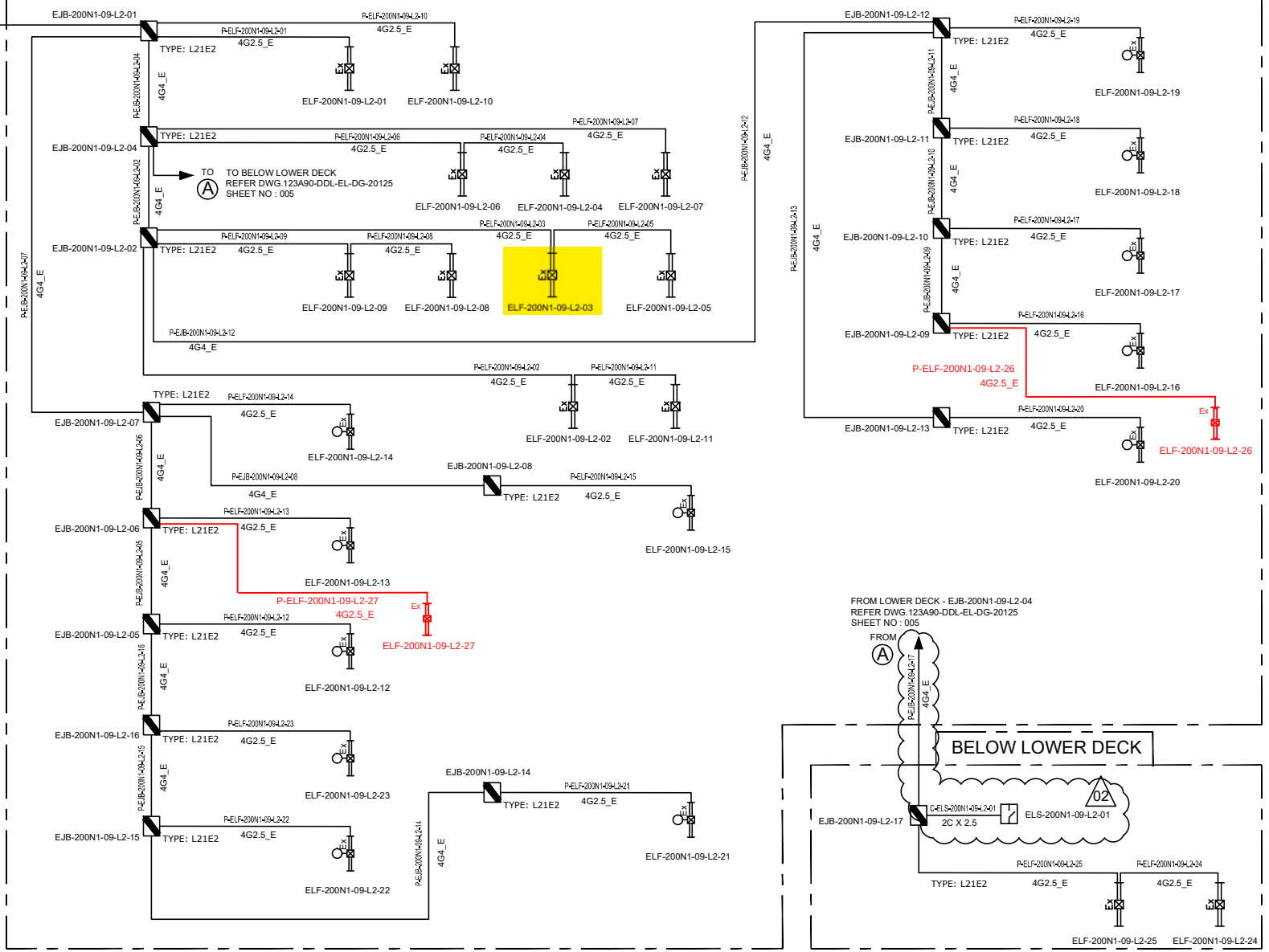
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

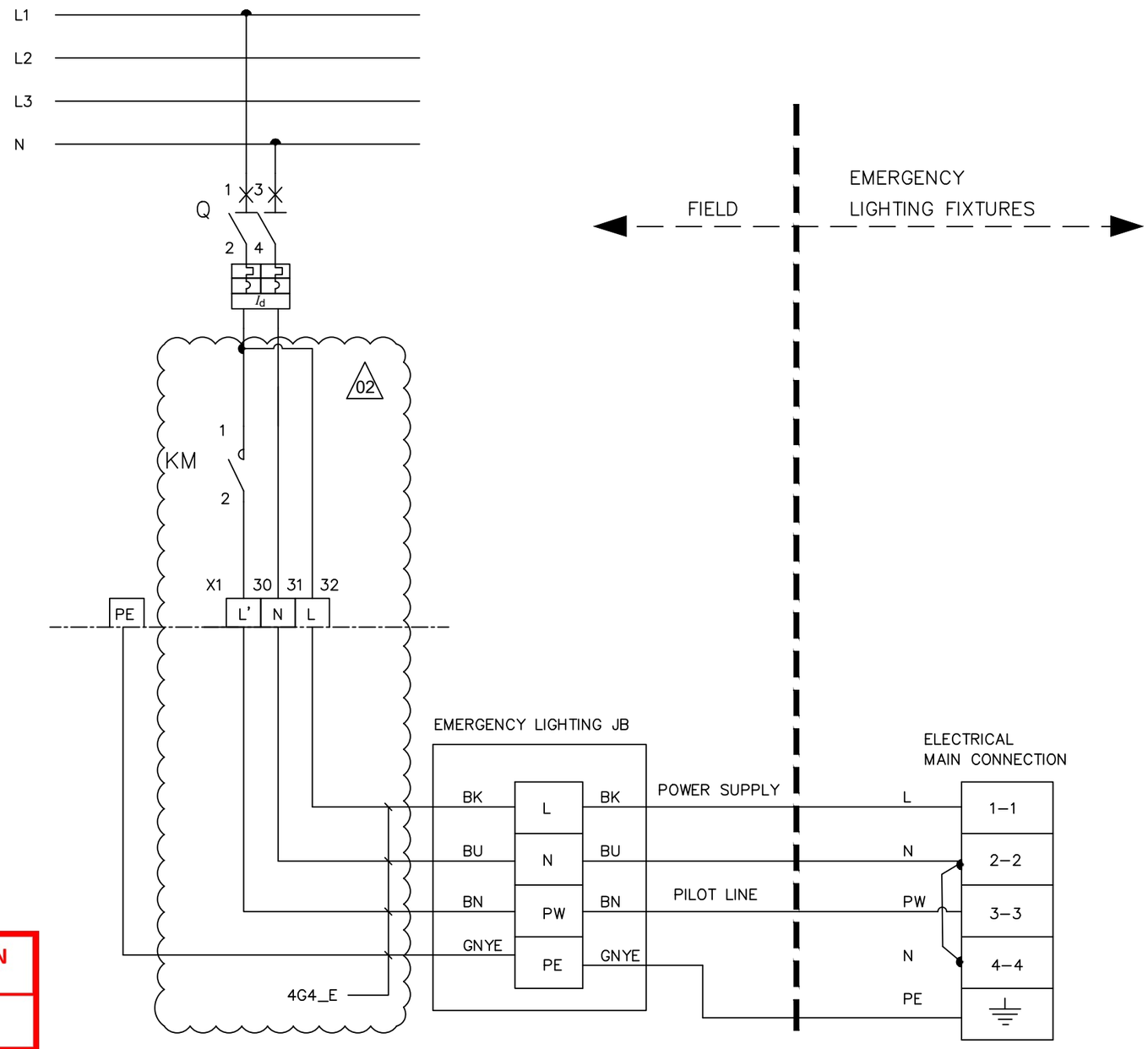
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

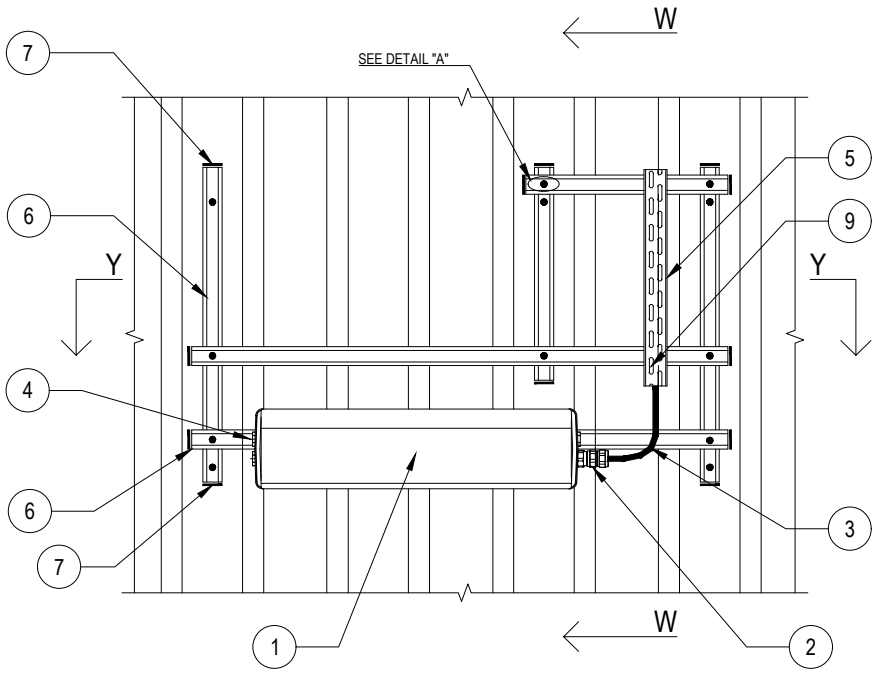
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

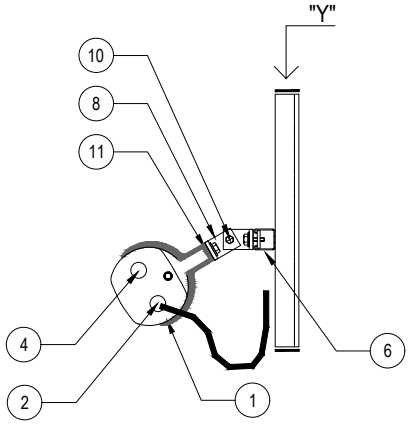
File Name : 123A90–DDL–EL–DG–20125

L10

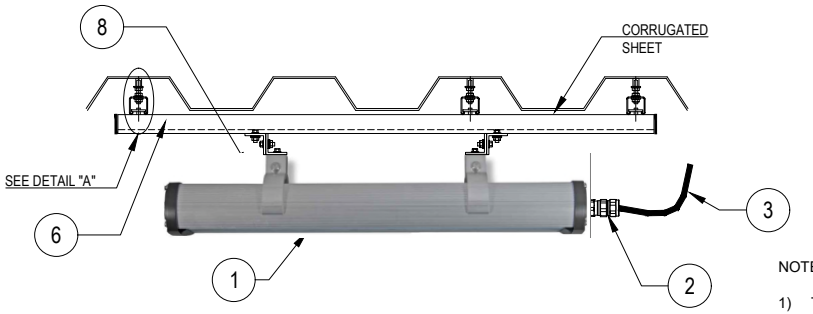


02

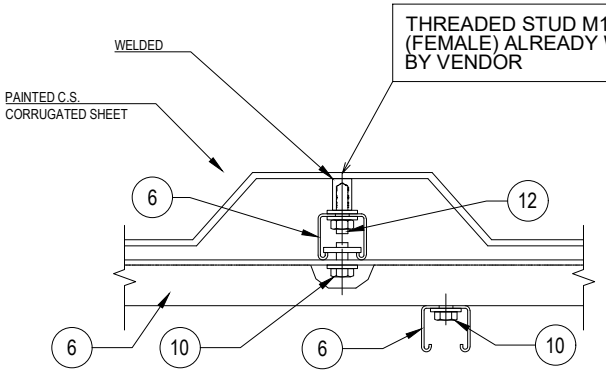
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		AS REQ.	NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE TRAY	AISI 316L			
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
7	PLUG FOR U-CHANNEL	LPDE		AS REQ.	
8	ANGLE PLATE FOR ORTOGONAL-TRASV. CONNECTION WITH NO. 2 HOLES FOR UNISTRUT PROFILE 41x41x2X2	AISI 316L		4	
9	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR CHANNEL WITH SPRING	AISI 316L	M6x20		
10	HEX. BOLT WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10x30	4	
11	HEX. BOLT WITH PLANE WASHER	AISI 316L	M8x16	2	
12	THREADED ROD COMPLETE WITH PLANE WASHER, LARGE PLANE WASHERS, SPRING WASHER AND NUTS	AISI 316L	M10x110		



SECTION "W-W"



SECTION "Y-Y"



DETAIL "A"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON WALL WITH U-CHANNEL

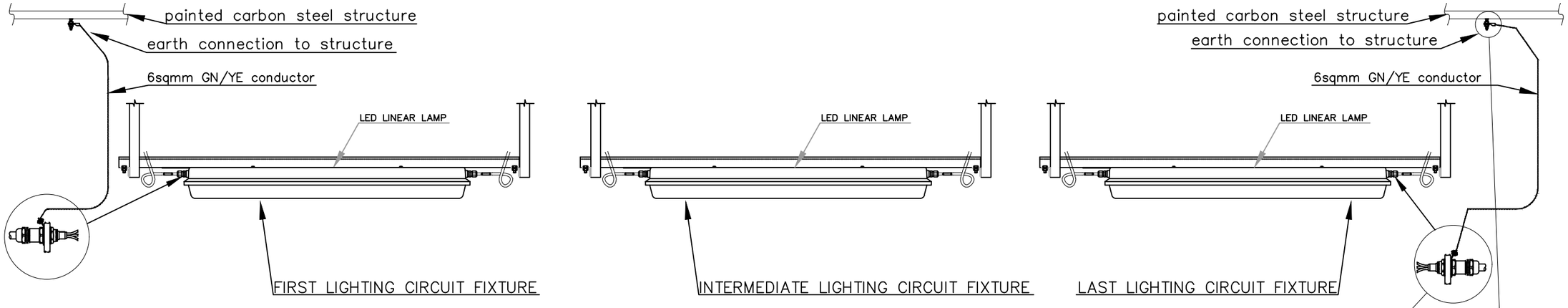
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 012 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

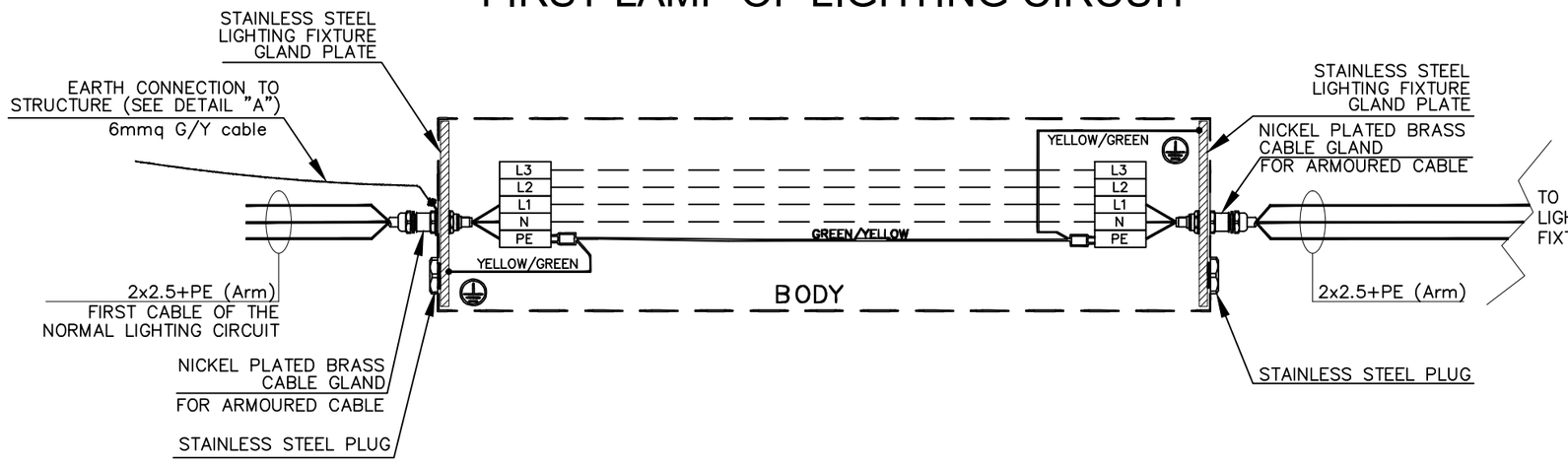


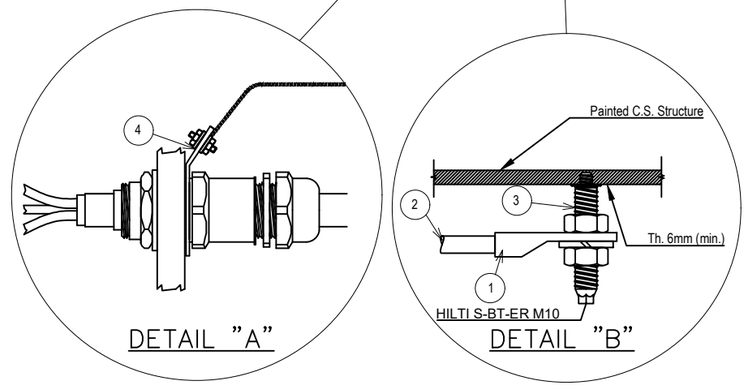
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

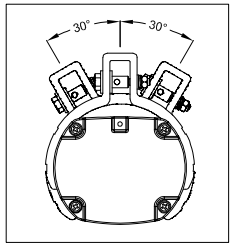
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

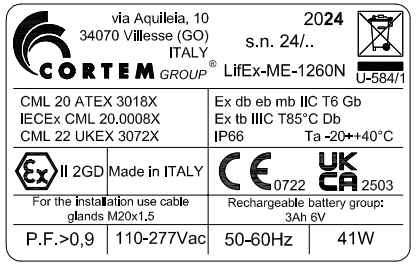
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



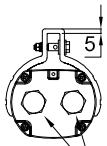
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

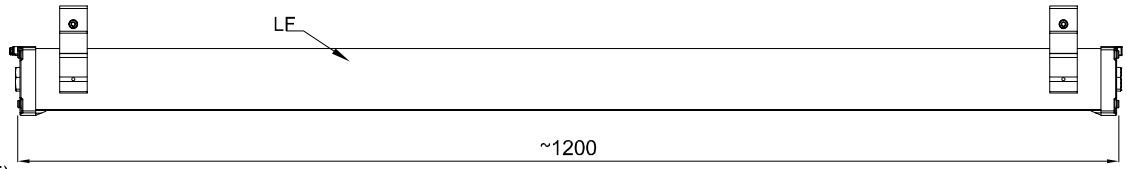
CERTIFICATE NAMEPLATE



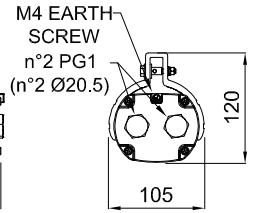
LEFT SIDE (OUT)



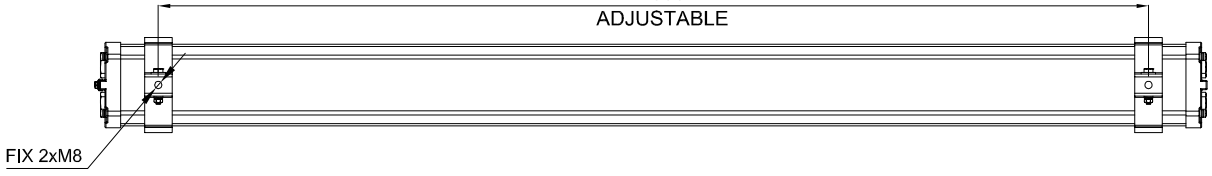
FRONT SIDE



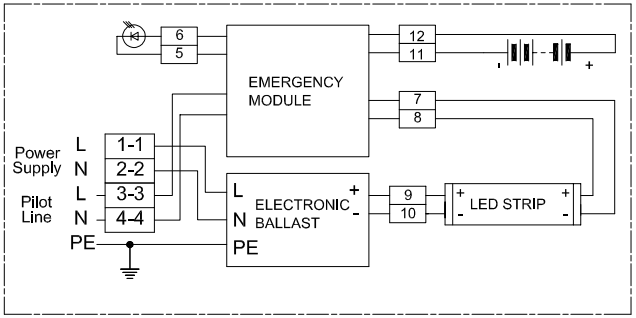
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-04	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001404		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

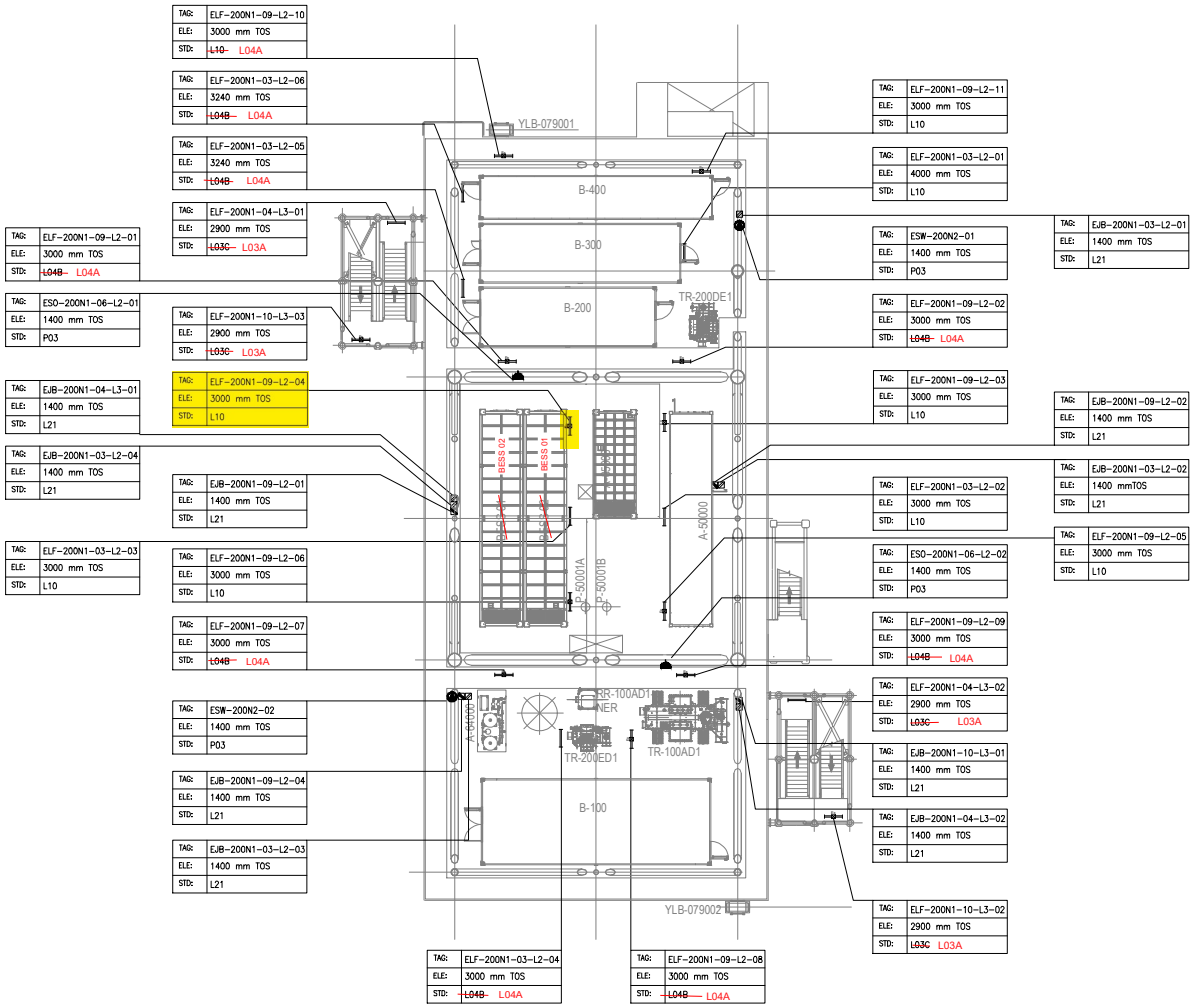
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

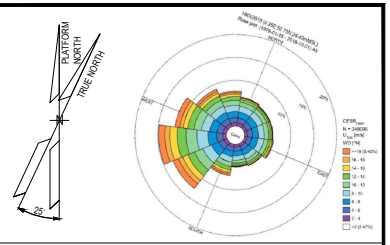
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Paolo Schintu	
Date	2024-12-07	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-07T08:00:28.482Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-13T08:51:52.589Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

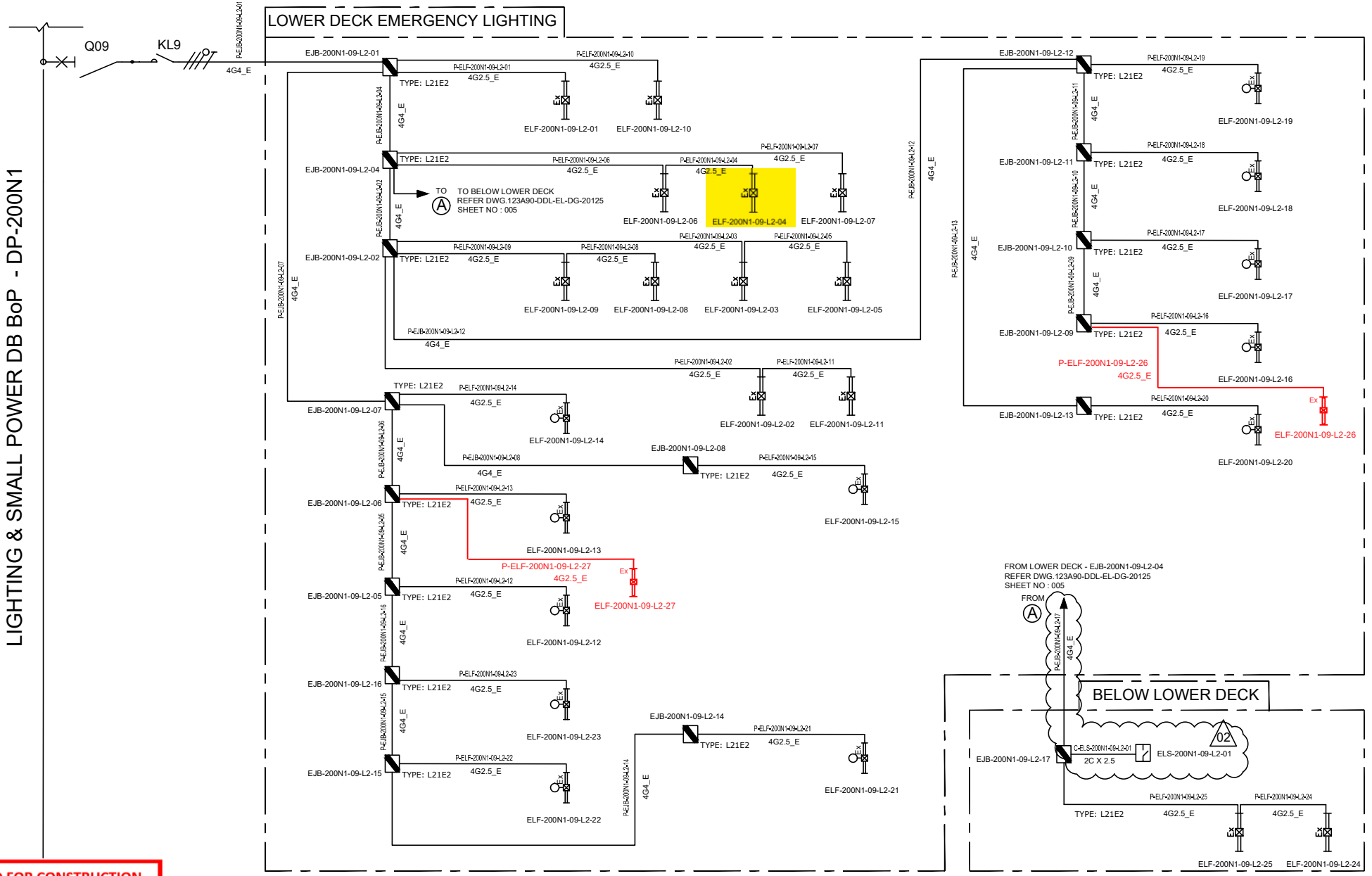
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

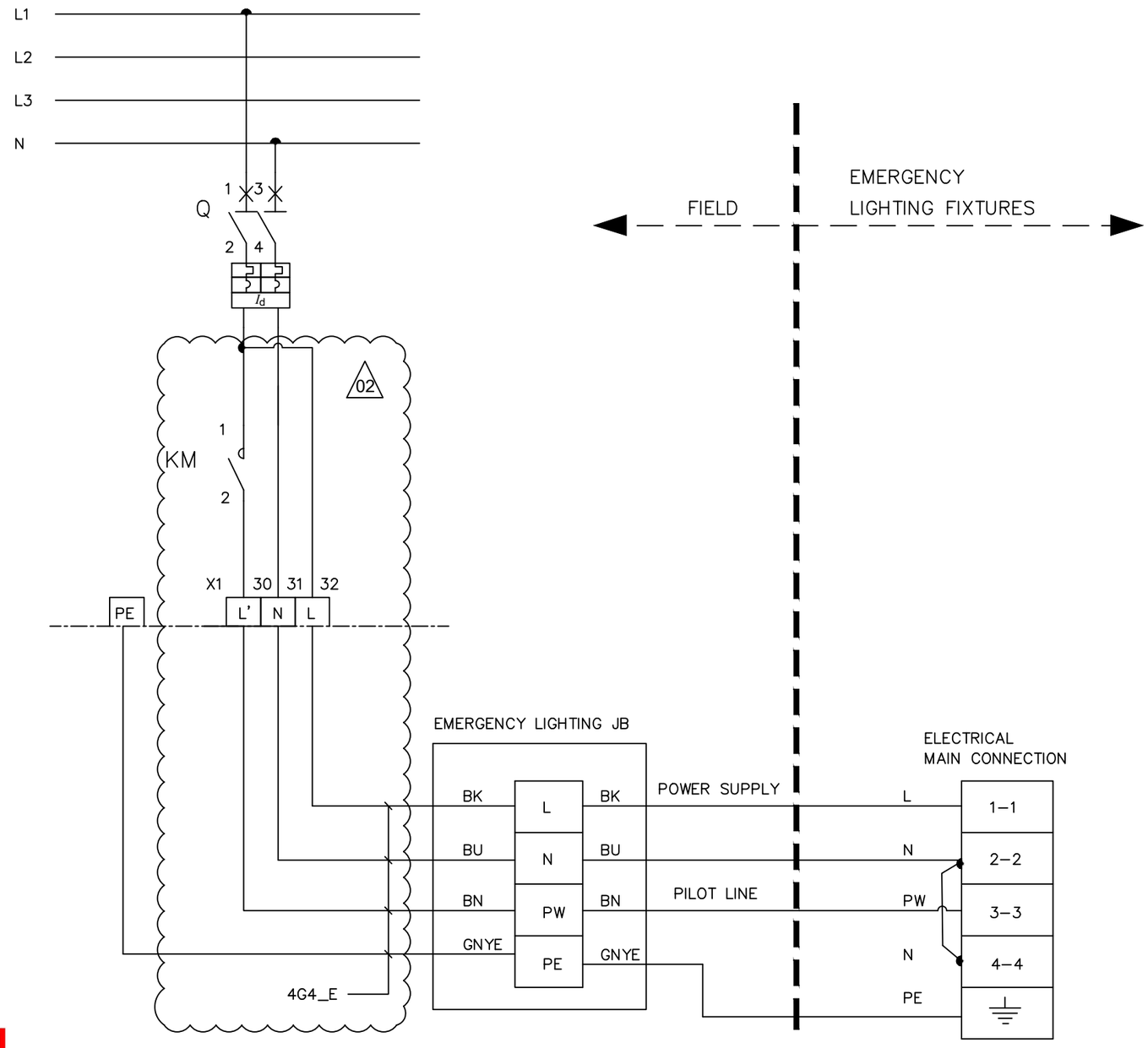
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

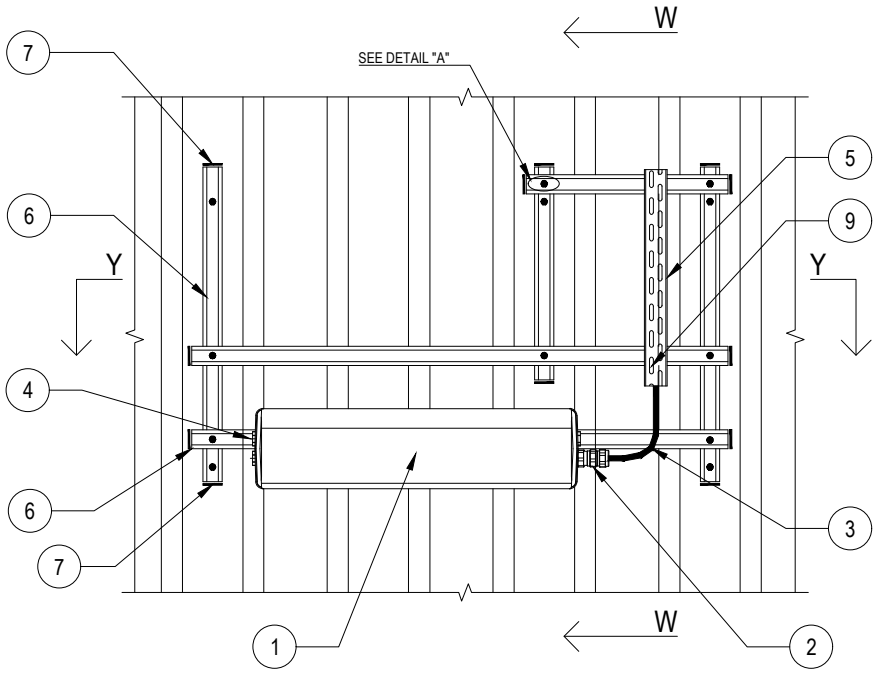
SHEET 014

REV. 02

F.to UNI A3: 420mmx297mm

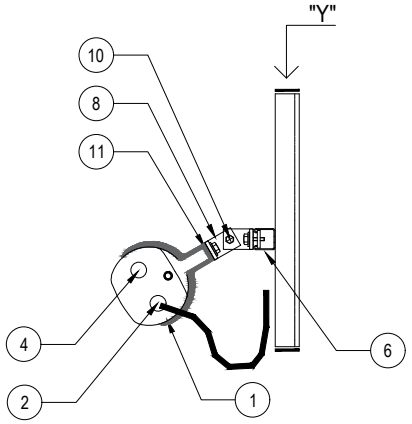
File Name : 123A90–DDL–EL–DG–20125

L10

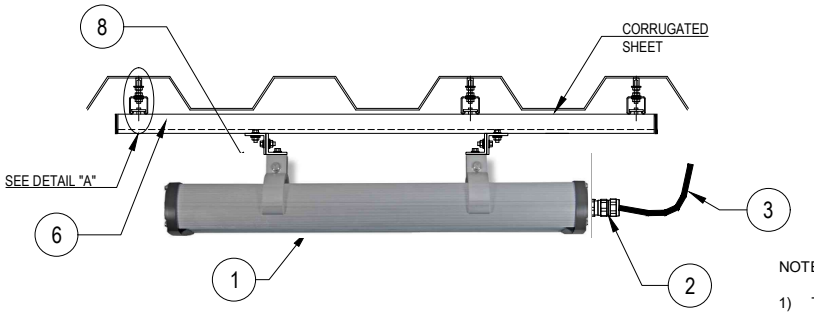


02

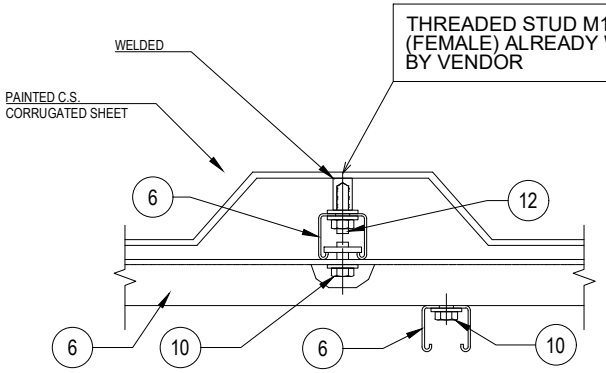
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		AS REQ.	NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE TRAY	AISI 316L			
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
7	PLUG FOR U-CHANNEL	LPDE		AS REQ.	
8	ANGLE PLATE FOR ORTOGONAL-TRASV. CONNECTION WITH NO. 2 HOLES FOR UNISTRUT PROFILE 41x41x2X2	AISI 316L		4	
9	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR CHANNEL WITH SPRING	AISI 316L	M6x20		
10	HEX. BOLT WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10x30	4	
11	HEX. BOLT WITH PLANE WASHER	AISI 316L	M8x16	2	
12	THREADED ROD COMPLETE WITH PLANE WASHER, LARGE PLANE WASHERS, SPRING WASHER AND NUTS	AISI 316L	M10x110		



SECTION "W-W"



SECTION "Y-Y"



DETAIL "A"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON WALL WITH U-CHANNEL

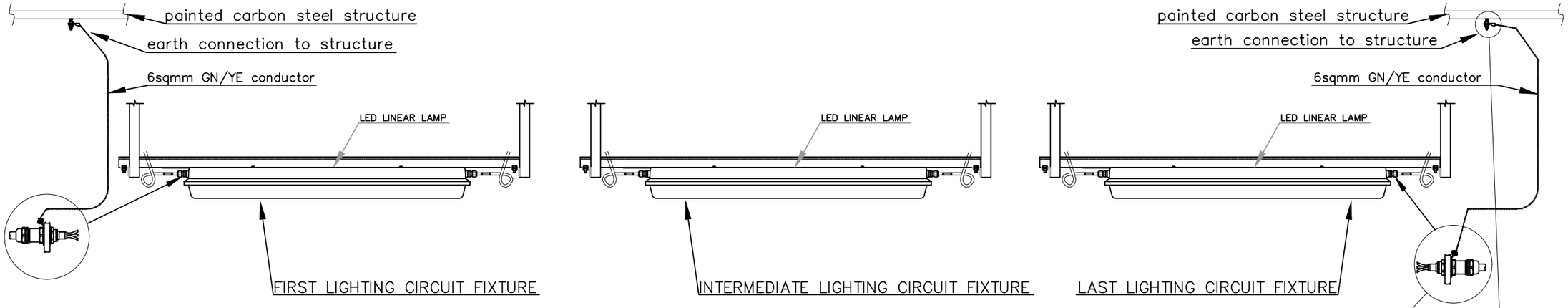
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 012 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

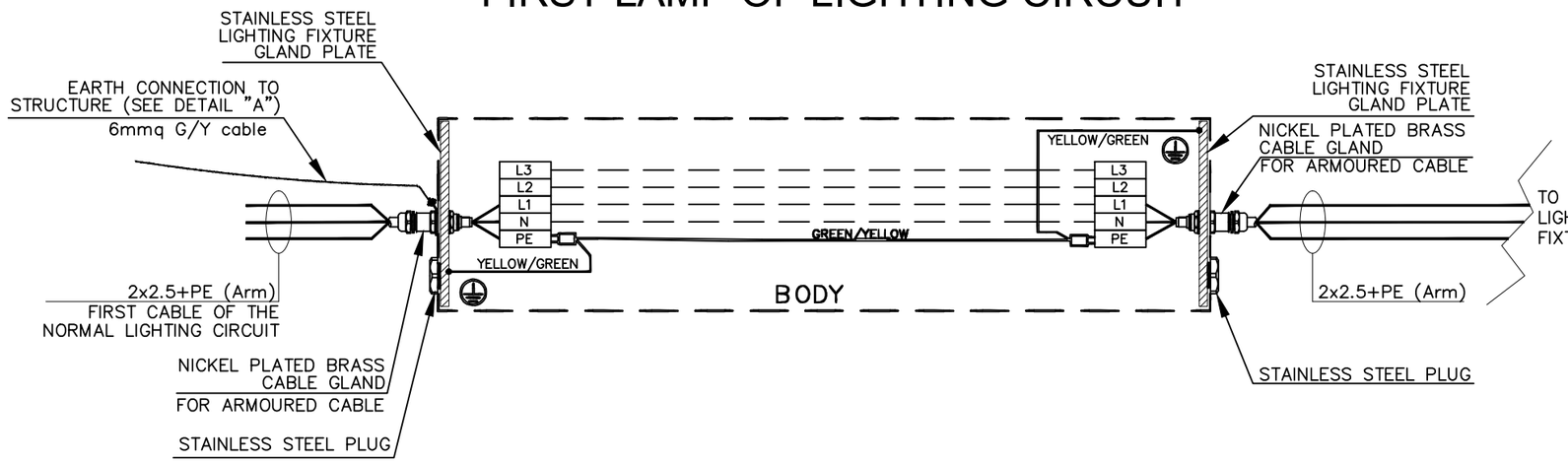


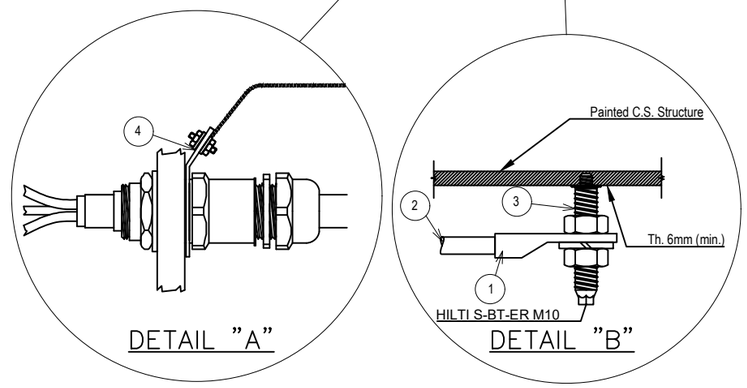
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

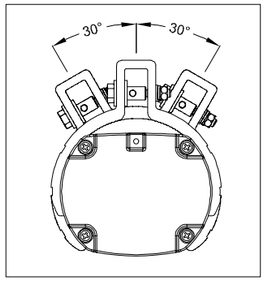
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

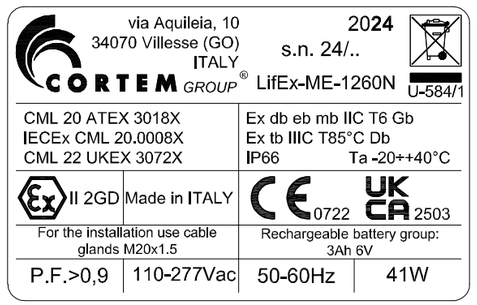
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



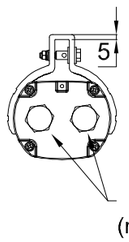
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

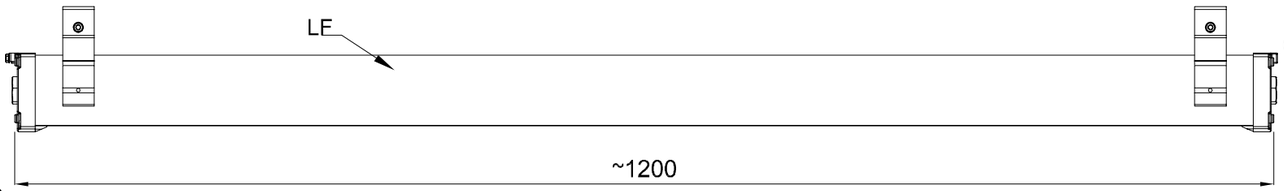
CERTIFICATE NAMEPLATE



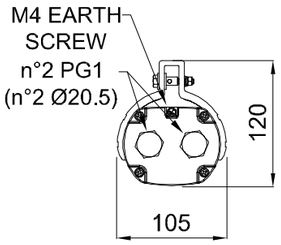
LEFT SIDE (OUT)



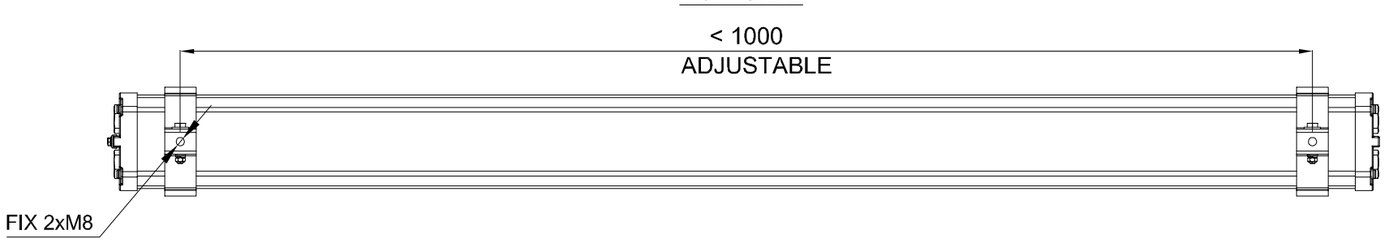
FRONT SIDE



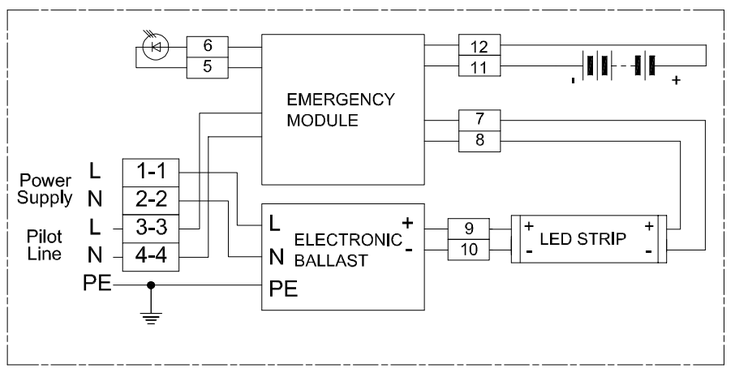
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTAROLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 2
NEXT: /
TOT.: 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-05	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001405		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

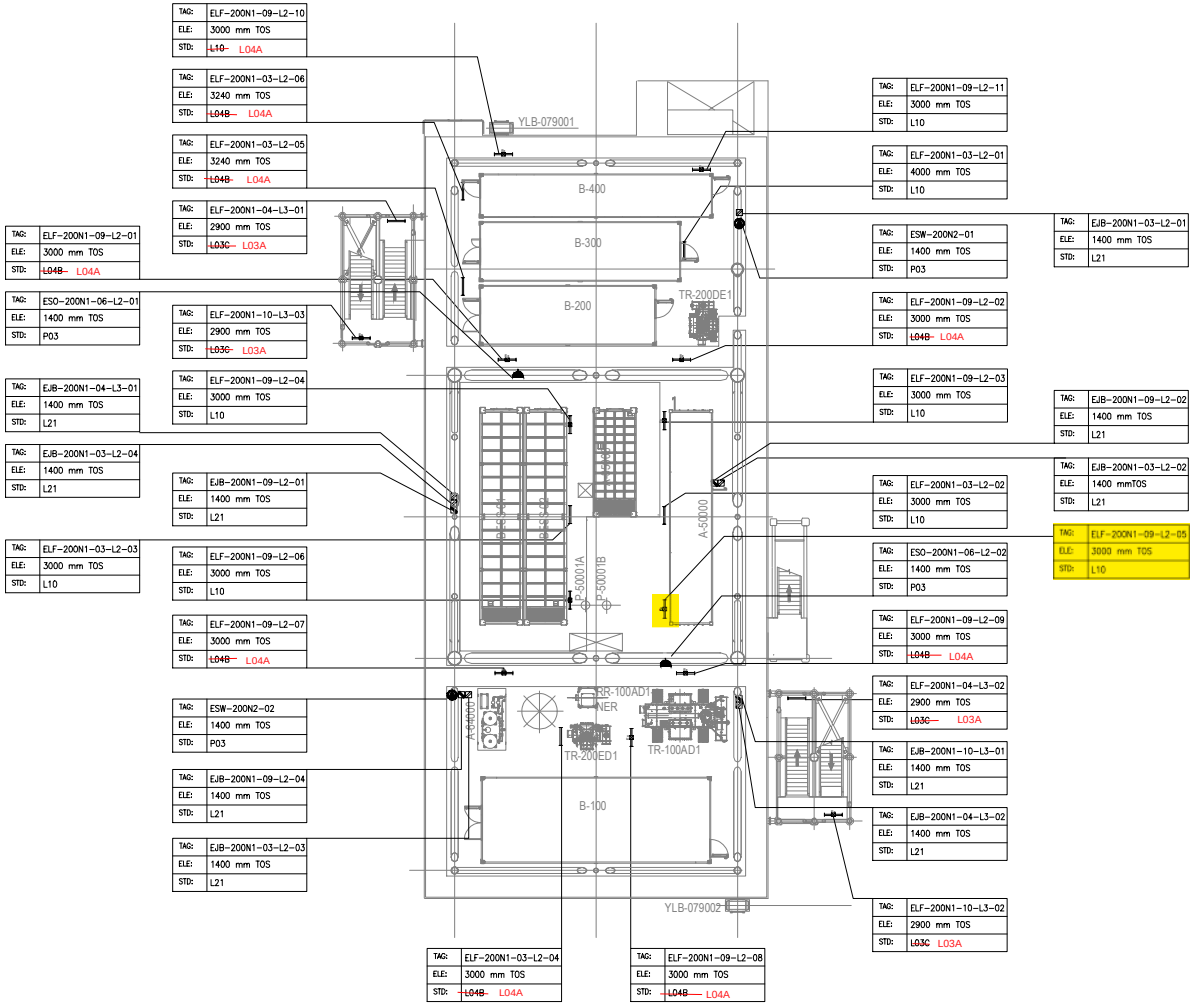
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-09	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-09T10:33:22.769Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-13T14:01:07.862Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



TAG:	ELF-200N1-09-L2-10
ELE:	3000 mm TOS
STD:	~~L10~~ L04A

TAG:	ELF-200N1-03-L2-06
ELE:	3240 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-03-L2-05
ELE:	3240 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-04-L3-01
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	ELF-200N1-09-L2-01
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ESO-200N1-06-L2-01
ELE:	1400 mm TOS
STD:	P03

TAG:	ELF-200N1-10-L3-03
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	EJB-200N1-04-L3-01
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-09-L2-04
ELE:	3000 mm TOS
STD:	L10

TAG:	EJB-200N1-03-L2-04
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-09-L2-01
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-03-L2-03
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-09-L2-06
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-09-L2-07
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ESW-200N2-02
ELE:	1400 mm TOS
STD:	P03

TAG:	EJB-200N1-09-L2-04
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-03-L2-03
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-03-L2-04
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-08
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-11
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-03-L2-01
ELE:	4000 mm TOS
STD:	L10

TAG:	EJB-200N1-03-L2-01
ELE:	1400 mm TOS
STD:	L21

TAG:	ESW-200N2-01
ELE:	1400 mm TOS
STD:	P03

TAG:	ELF-200N1-09-L2-02
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

TAG:	ELF-200N1-09-L2-03
ELE:	3000 mm TOS
STD:	L10

TAG:	EJB-200N1-09-L2-02
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-03-L2-02
ELE:	1400 mmTOS
STD:	L21

TAG:	ELF-200N1-03-L2-02
ELE:	3000 mm TOS
STD:	L10

TAG:	ELF-200N1-09-L2-05
ELE:	3000 mm TOS
STD:	L10

TAG:	ESO-200N1-06-L2-02
ELE:	1400 mm TOS
STD:	P03

TAG:	ELF-200N1-09-L2-09
ELE:	3000 mm TOS
STD:	~~L04B~~ L04A

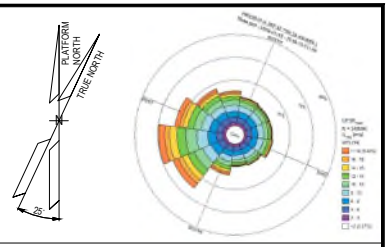
TAG:	ELF-200N1-04-L3-02
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

TAG:	EJB-200N1-10-L3-01
ELE:	1400 mm TOS
STD:	L21

TAG:	EJB-200N1-04-L3-02
ELE:	1400 mm TOS
STD:	L21

TAG:	ELF-200N1-10-L3-02
ELE:	2900 mm TOS
STD:	~~L03C~~ L03A

PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

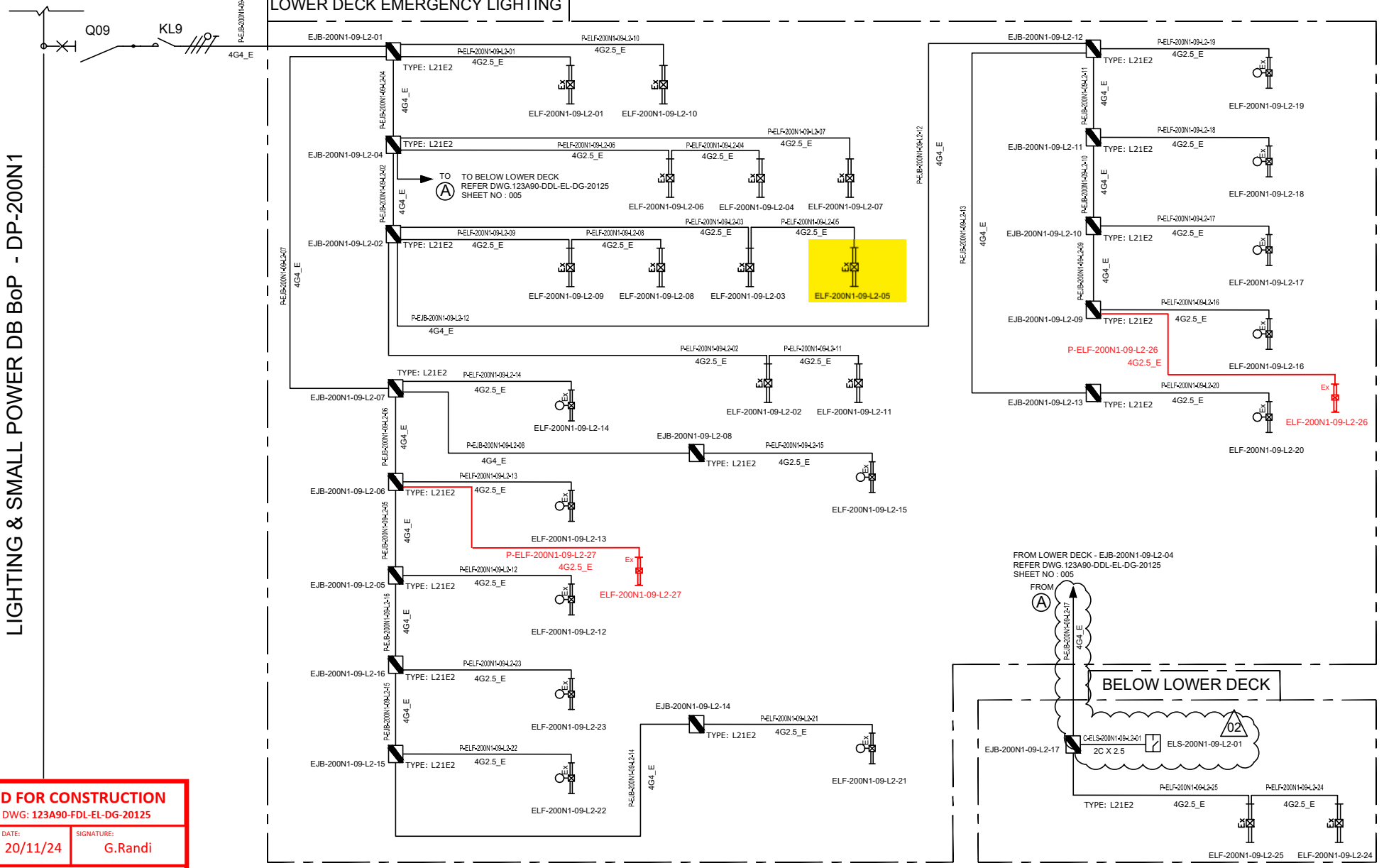
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

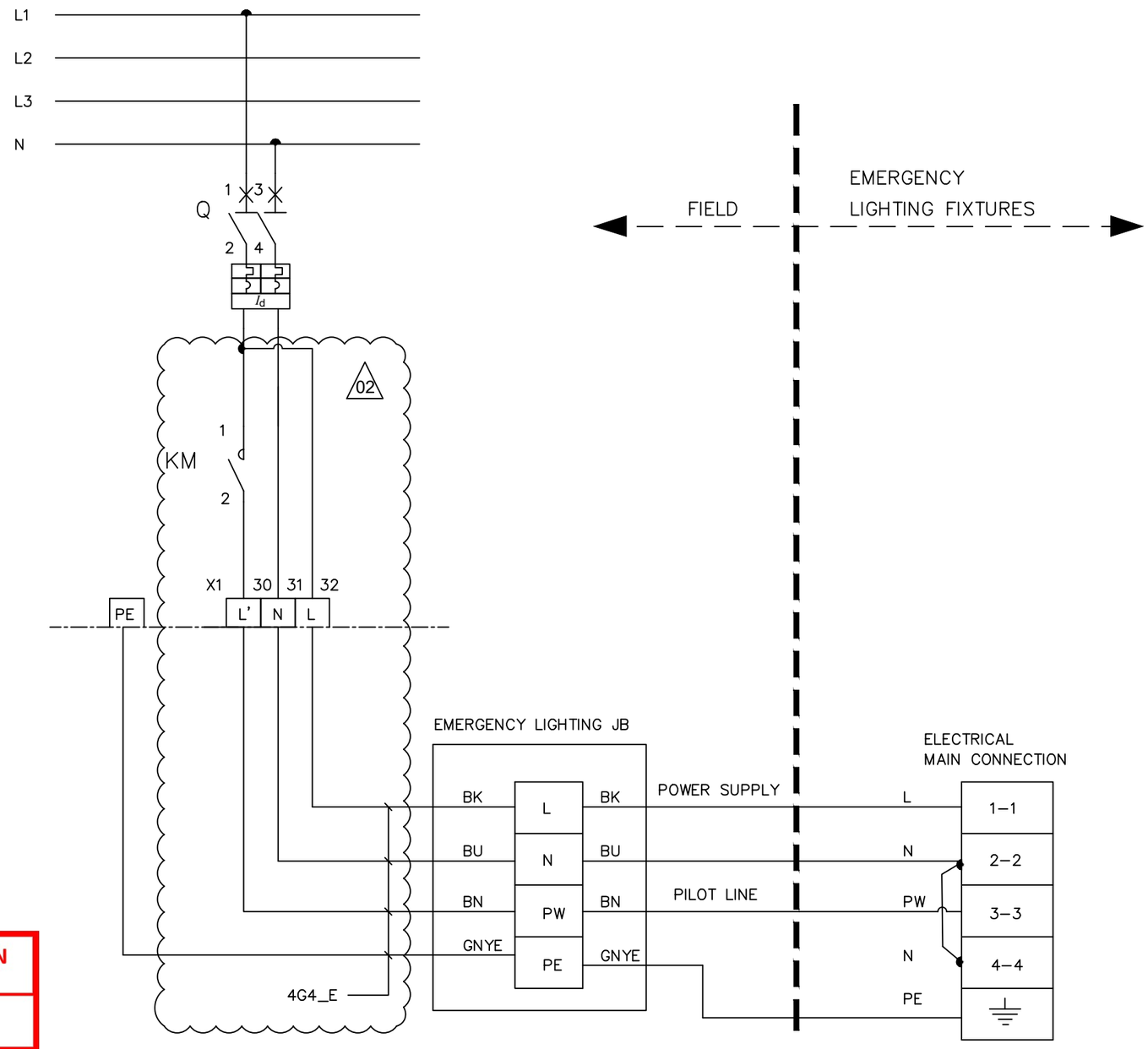
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

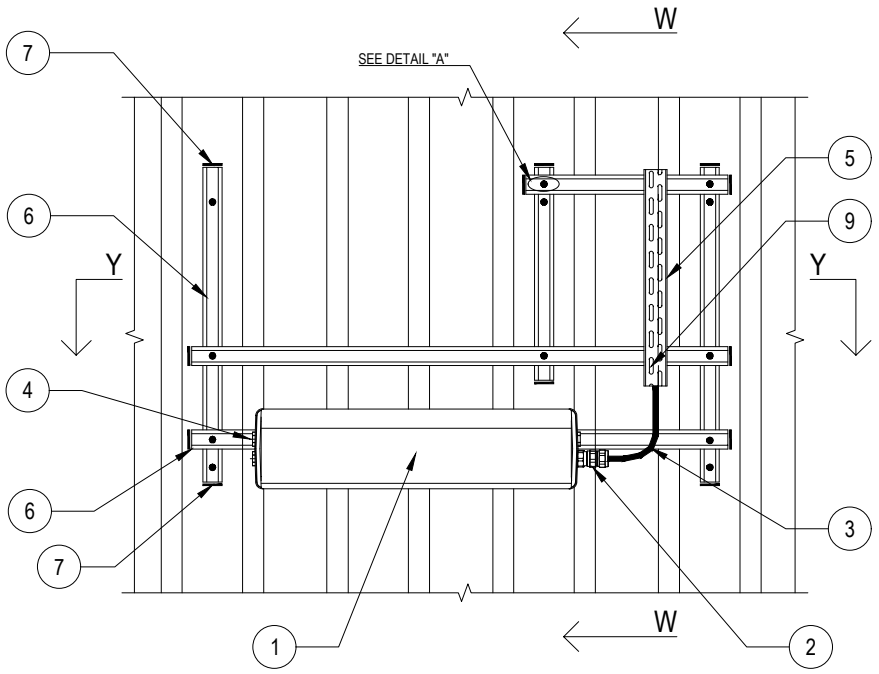
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

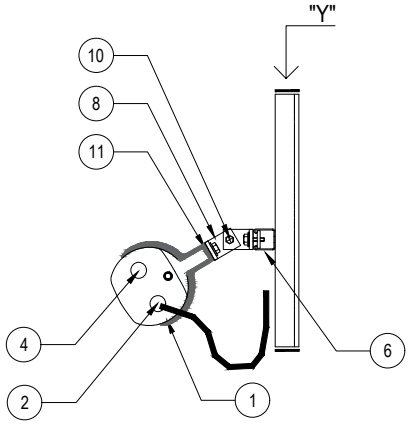
File Name : 123A90–DDL–EL–DG–20125

L10

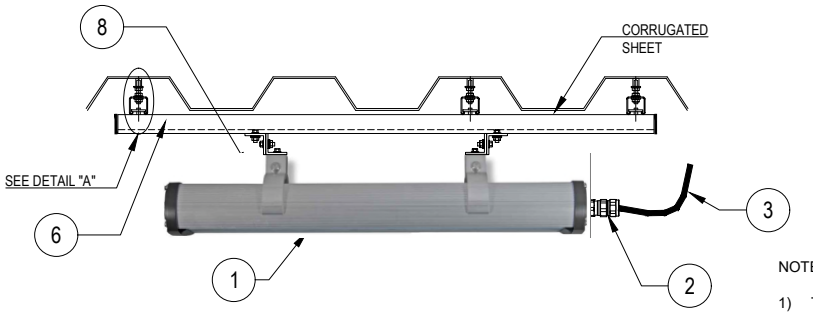


02

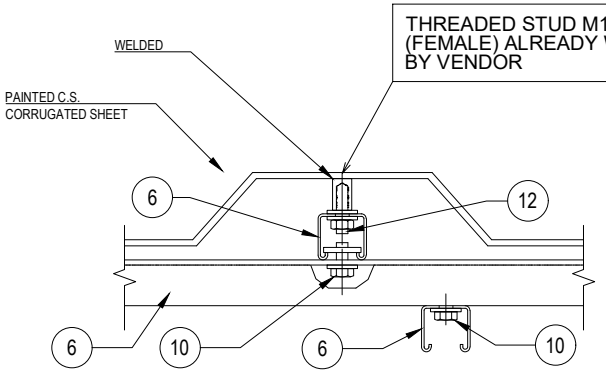
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		AS REQ.	NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE TRAY	AISI 316L			
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
7	PLUG FOR U-CHANNEL	LPDE		AS REQ.	
8	ANGLE PLATE FOR ORTOGONAL-TRASV. CONNECTION WITH NO. 2 HOLES FOR UNISTRUT PROFILE 41x41x2X2	AISI 316L		4	
9	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR CHANNEL WITH SPRING	AISI 316L	M6x20		
10	HEX. BOLT WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10x30	4	
11	HEX. BOLT WITH PLANE WASHER	AISI 316L	M8x16	2	
12	THREADED ROD COMPLETE WITH PLANE WASHER, LARGE PLANE WASHERS, SPRING WASHER AND NUTS	AISI 316L	M10x110		



SECTION "W-W"



SECTION "Y-Y"



DETAIL "A"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON WALL WITH U-CHANNEL

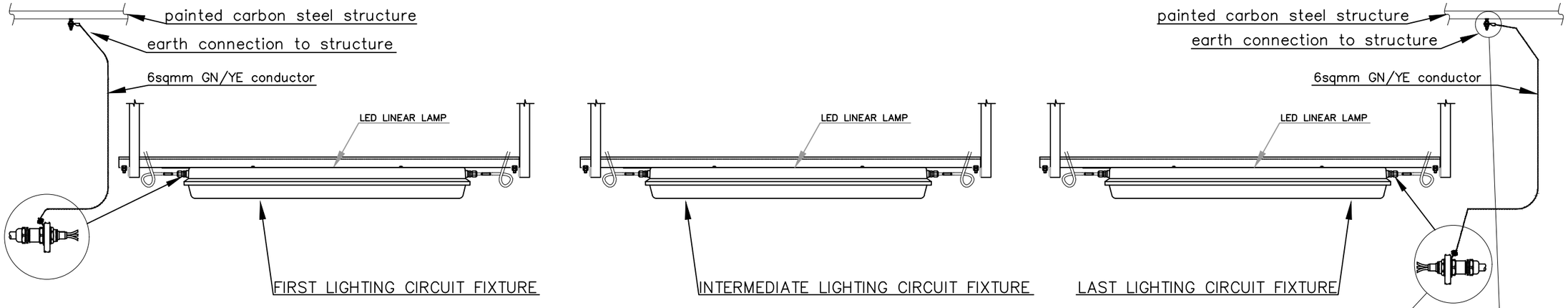
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 012 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

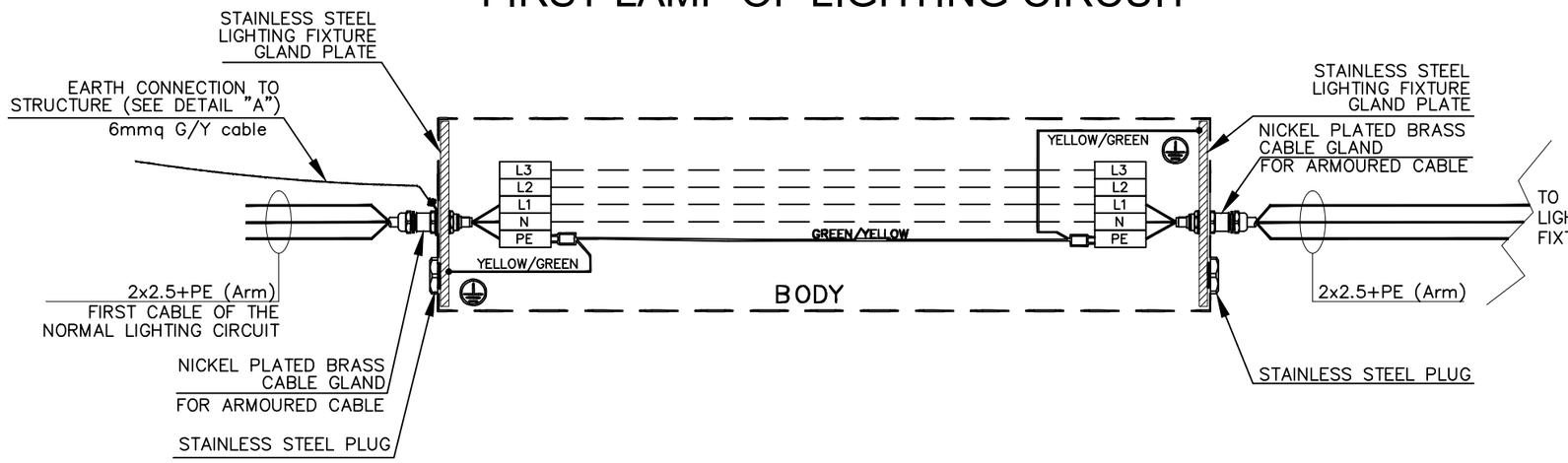


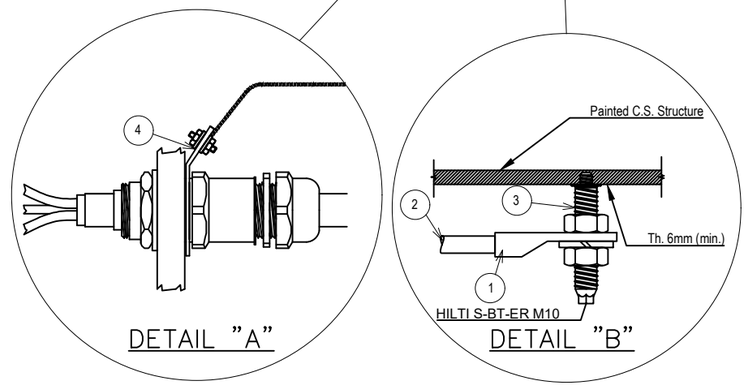
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

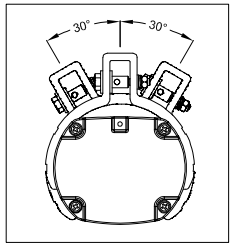
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

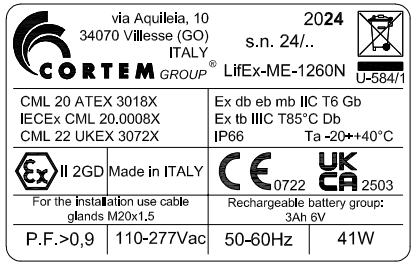
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



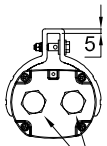
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

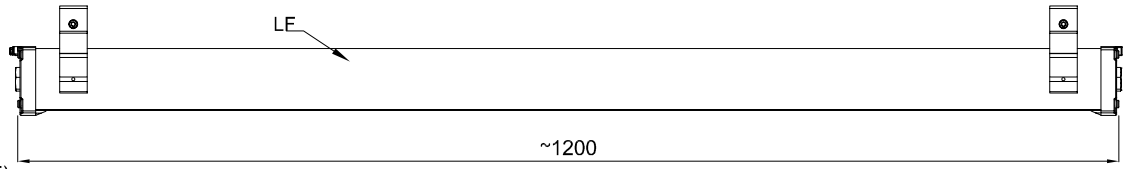
CERTIFICATE NAMEPLATE



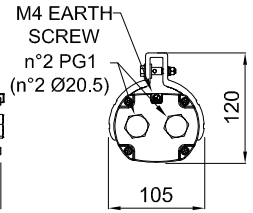
LEFT SIDE (OUT)



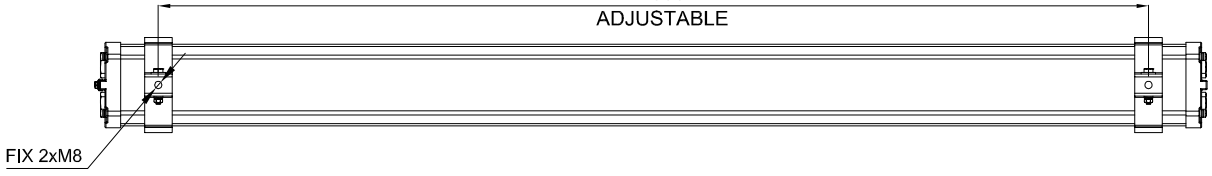
FRONT SIDE



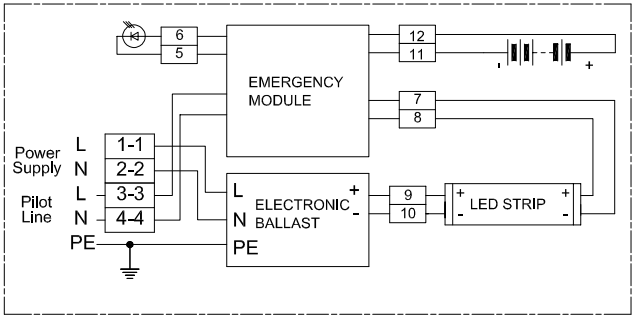
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-06	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001406		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

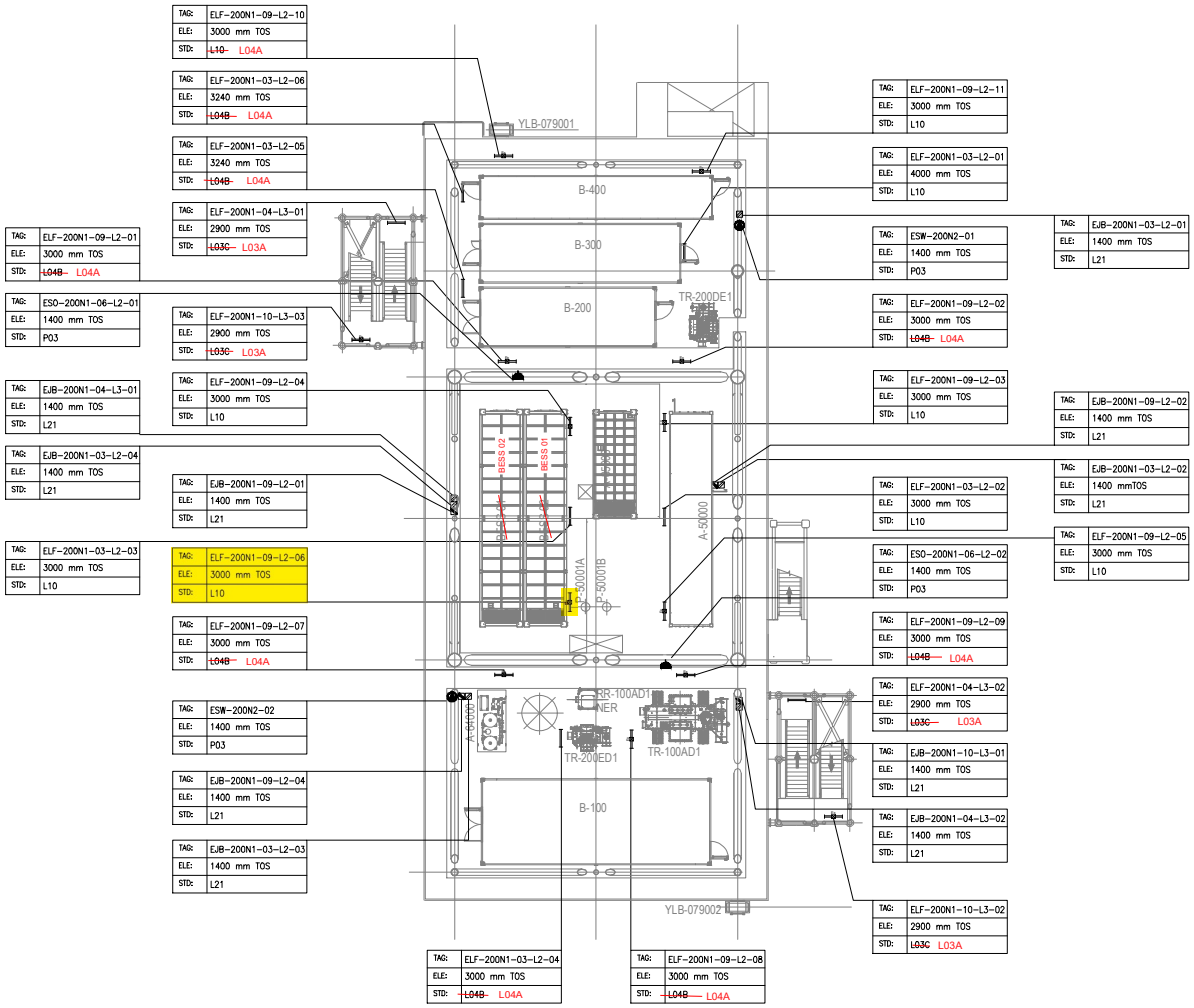
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

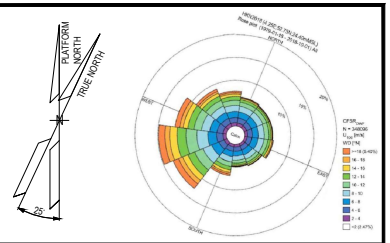
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Paolo Schintu	
Date	2025-01-08	2025-01-13	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:19:18.498Z	PROVERLIS Digitaly signed by Paolo Schintu 2025-01-13T08:52:28.707Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

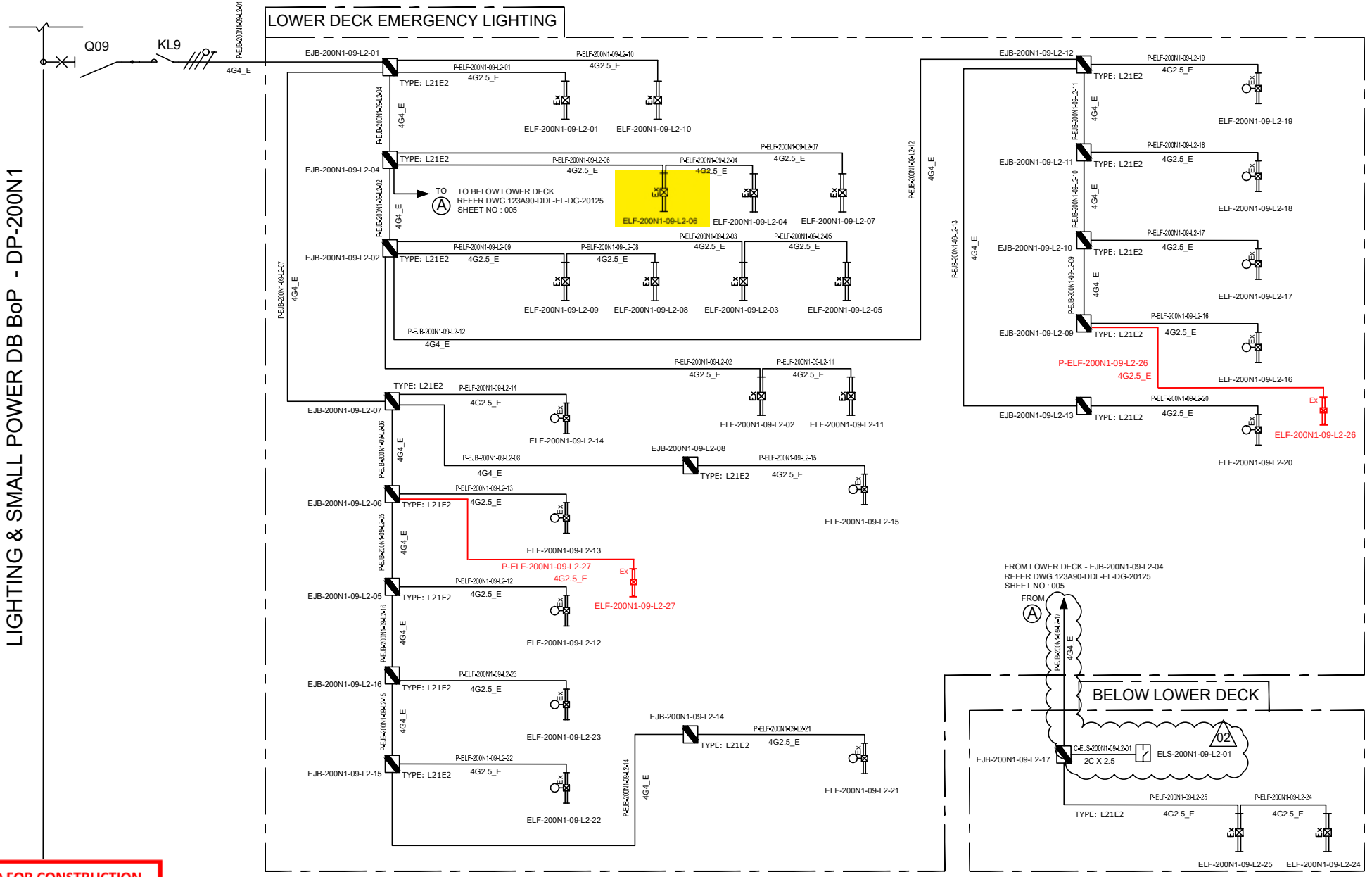
CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

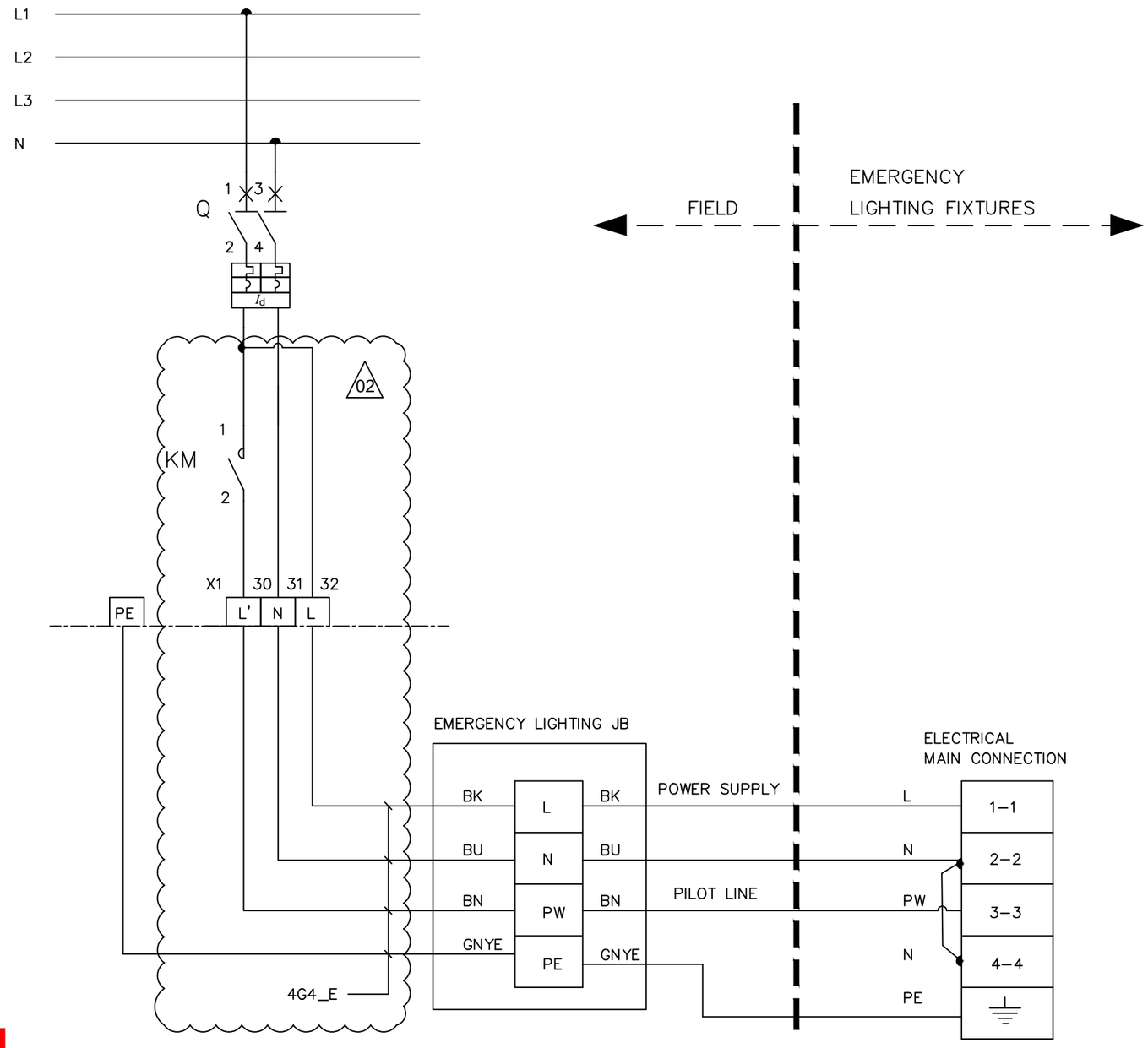
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

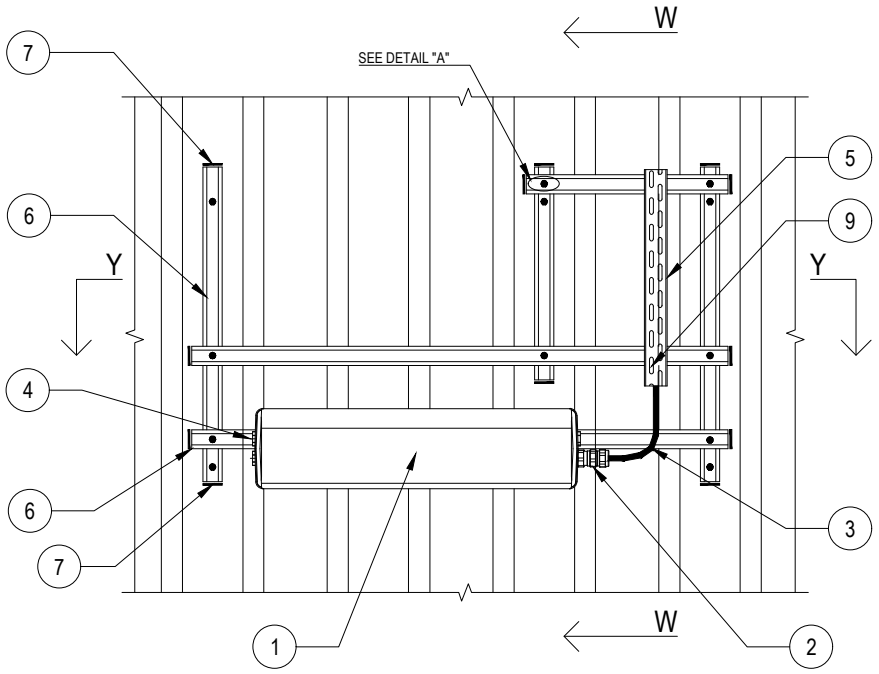
SHEET 014

REV. 02

F.to UNI A3: 420mmx297mm

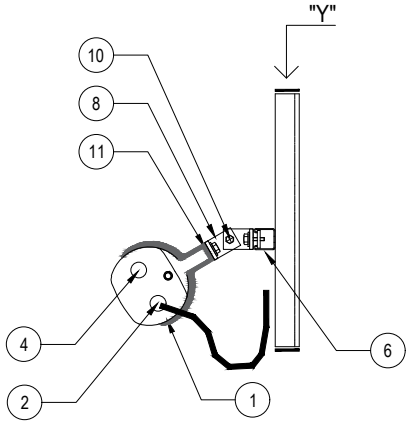
File Name : 123A90–DDL–EL–DG–20125

L10

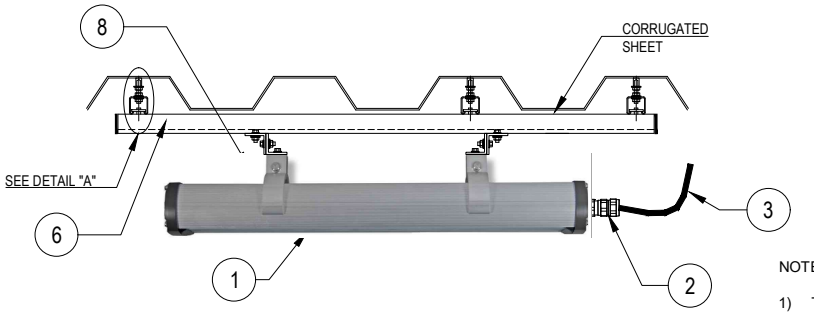


02

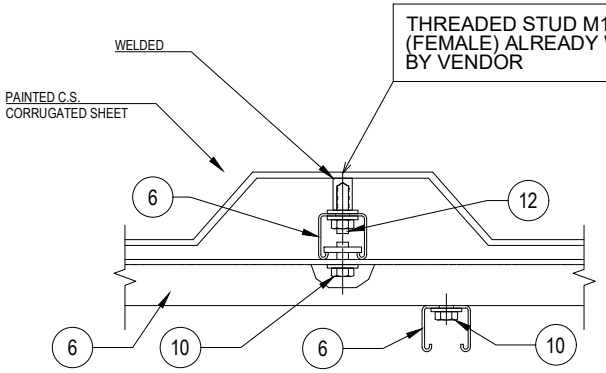
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		AS REQ.	NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE TRAY	AISI 316L			
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
7	PLUG FOR U-CHANNEL	LPDE		AS REQ.	
8	ANGLE PLATE FOR ORTOGONAL-TRASV. CONNECTION WITH NO. 2 HOLES FOR UNISTRUT PROFILE 41x41x2X2	AISI 316L		4	
9	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR CHANNEL WITH SPRING	AISI 316L	M6x20		
10	HEX. BOLT WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10x30	4	
11	HEX. BOLT WITH PLANE WASHER	AISI 316L	M8x16	2	
12	THREADED ROD COMPLETE WITH PLANE WASHER, LARGE PLANE WASHERS, SPRING WASHER AND NUTS	AISI 316L	M10x110		



SECTION "W-W"



SECTION "Y-Y"



DETAIL "A"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON WALL WITH U-CHANNEL

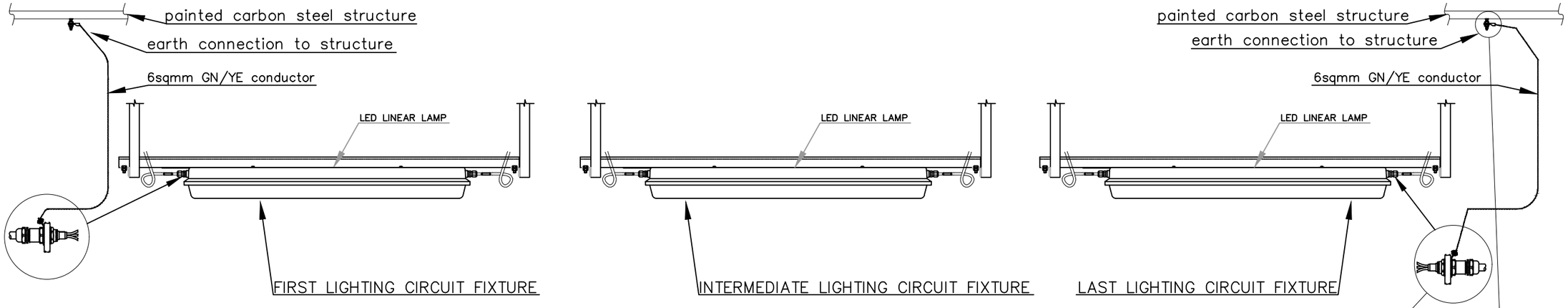
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 012 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

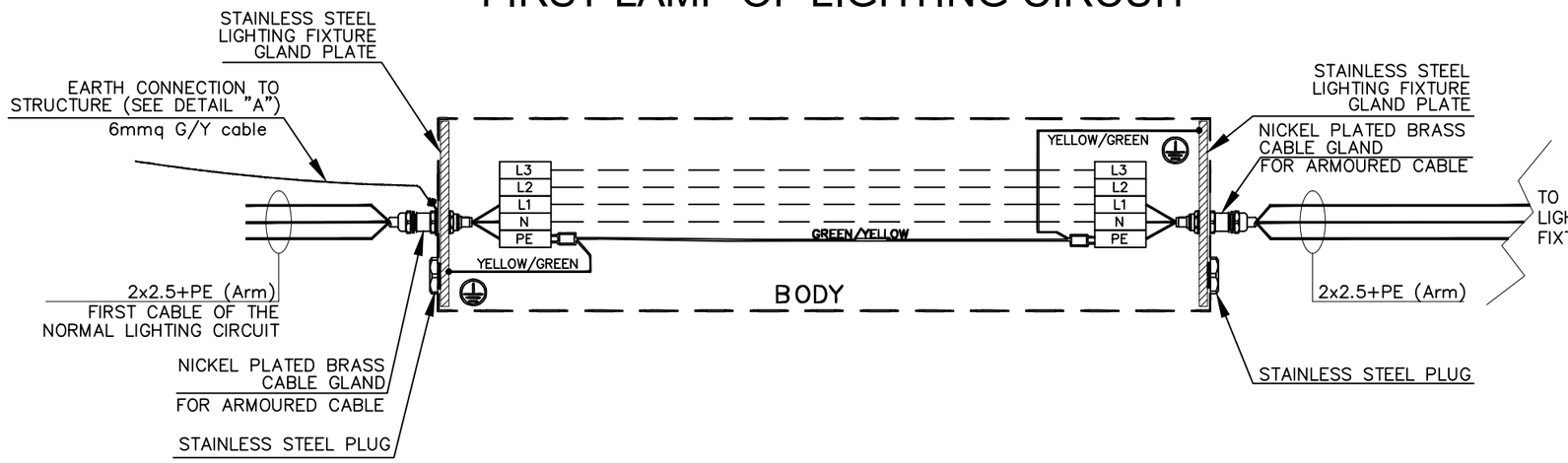


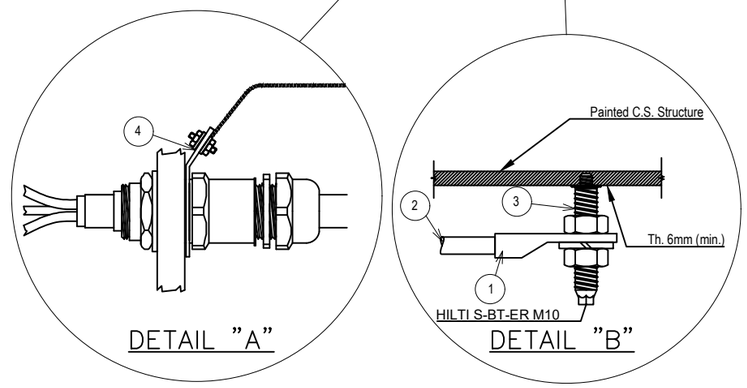
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

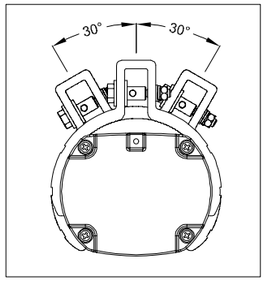
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

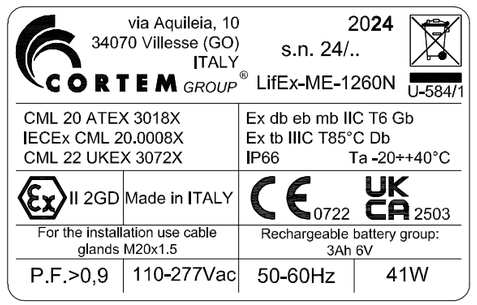
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



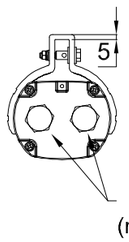
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

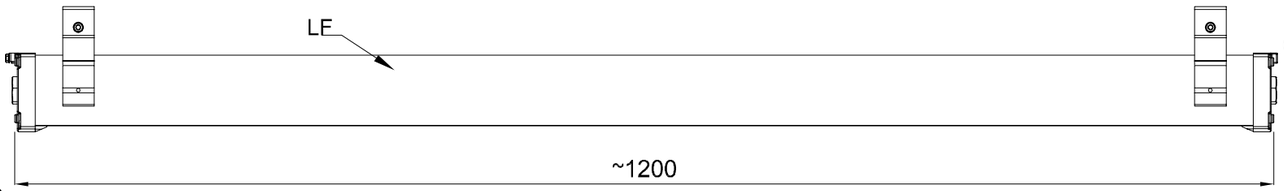
CERTIFICATE NAMEPLATE



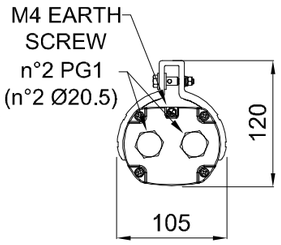
LEFT SIDE (OUT)



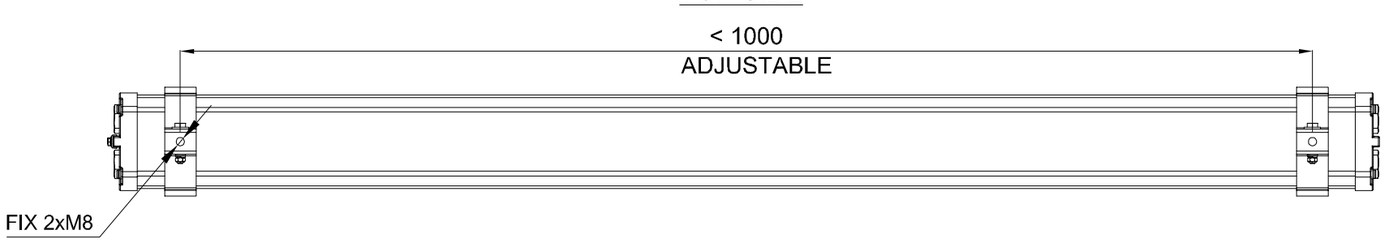
FRONT SIDE



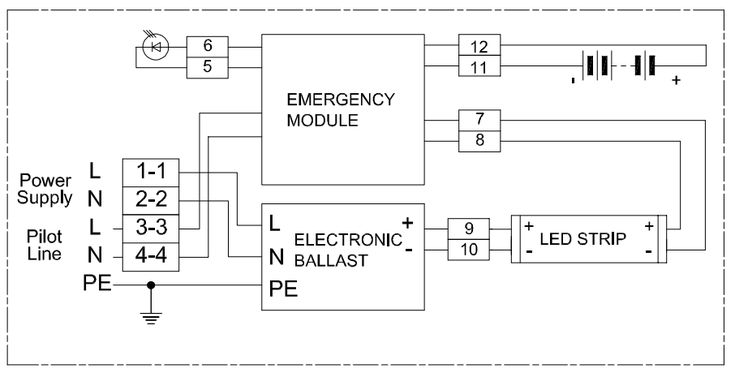
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTAROLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 2
NEXT: /
TOT.: 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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ITEM	Tag	ELF-200N1-09-L2-07	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001407		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

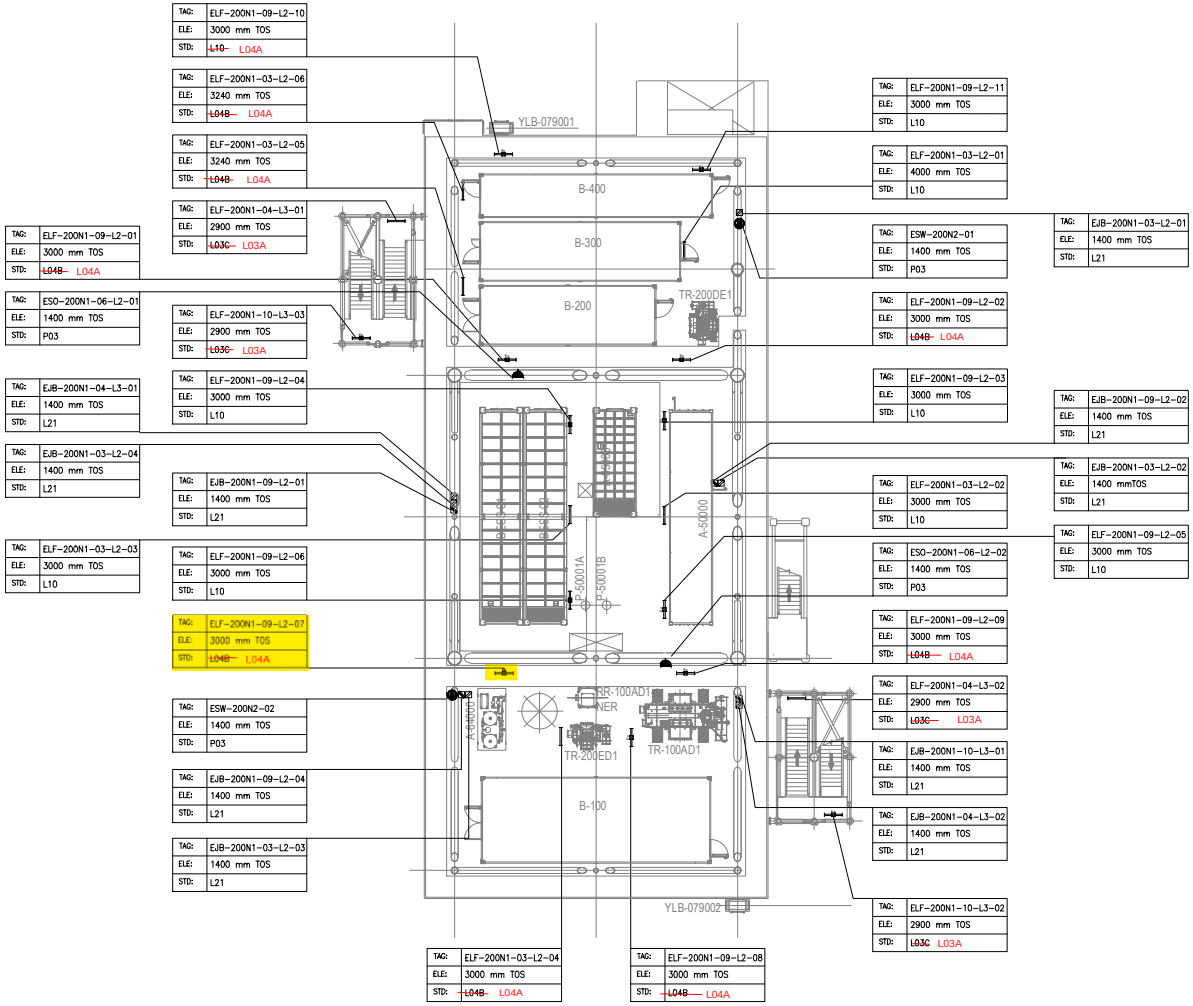
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

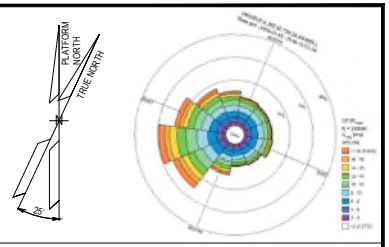
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-12	2024-12-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-12T16:29:48.018Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-13T13:59:10.528Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DL-20119

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

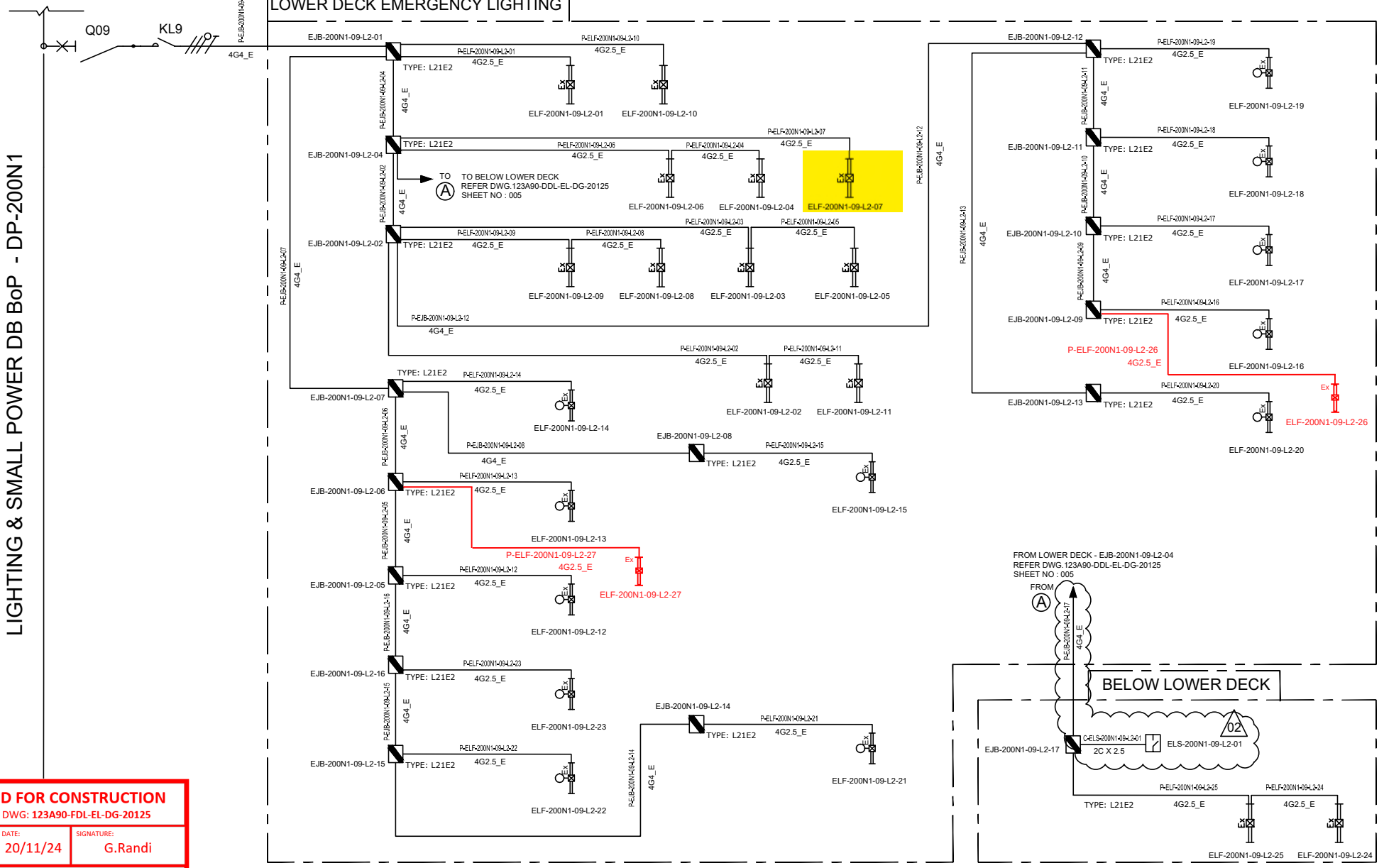
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

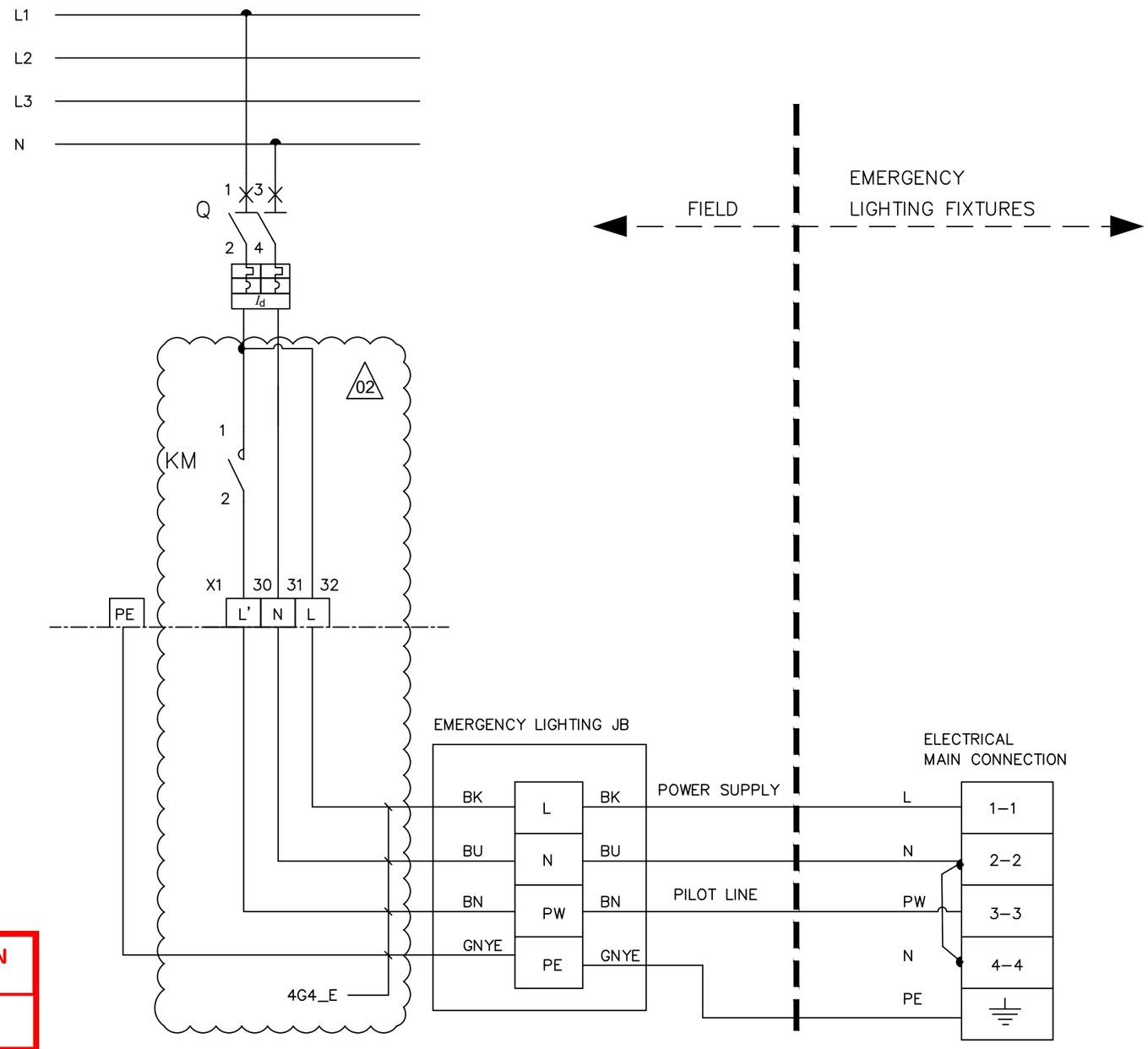
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

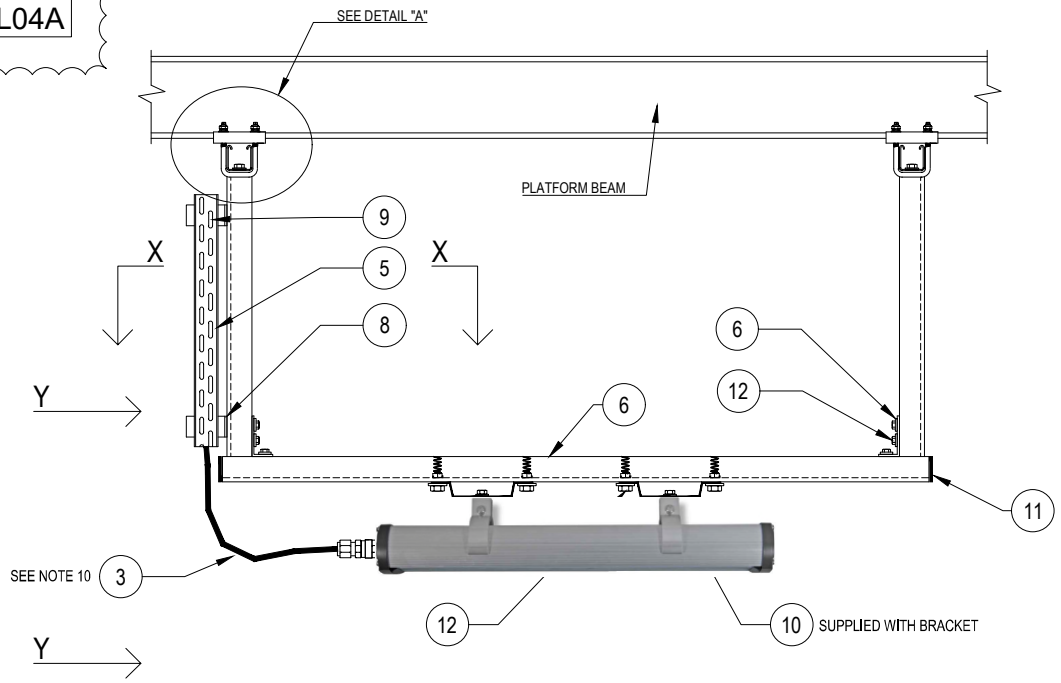
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

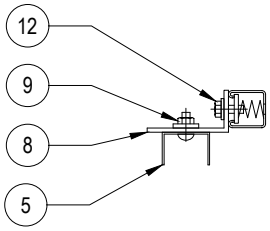
File Name : 123A90–DDL–EL–DG–20125

L04A

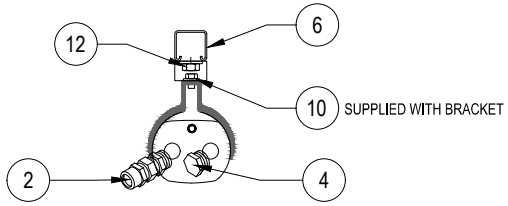


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

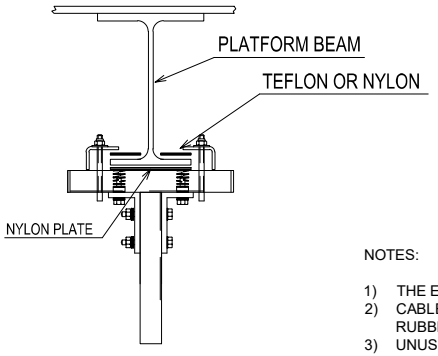
SECTION "X-X"



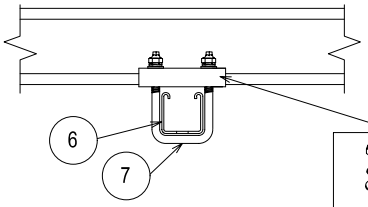
SECTION "Y-Y"



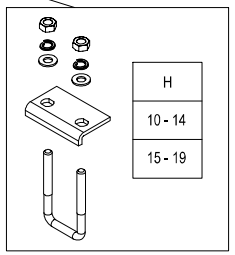
lighting fixture
Cortem LIFEX



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

02

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

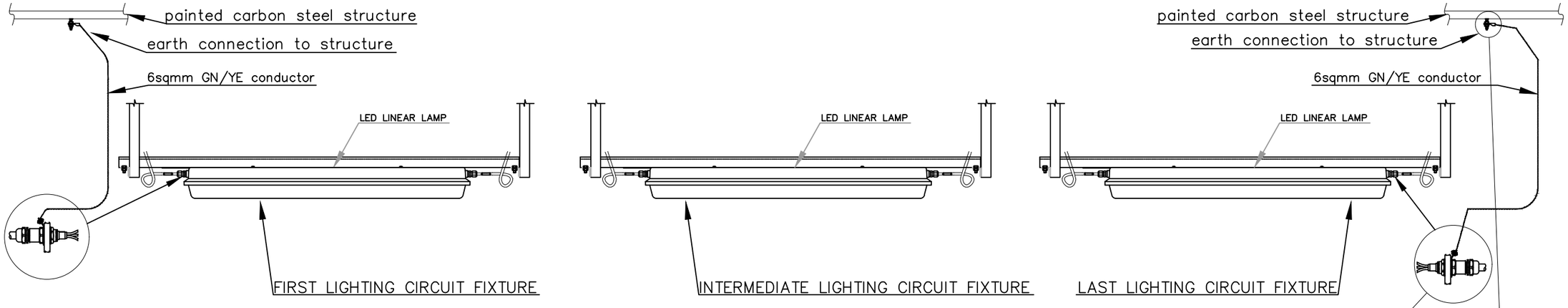
F.to UNI A3: 420mmx297mm

CROSSWIND

ROSETTI MARINO

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

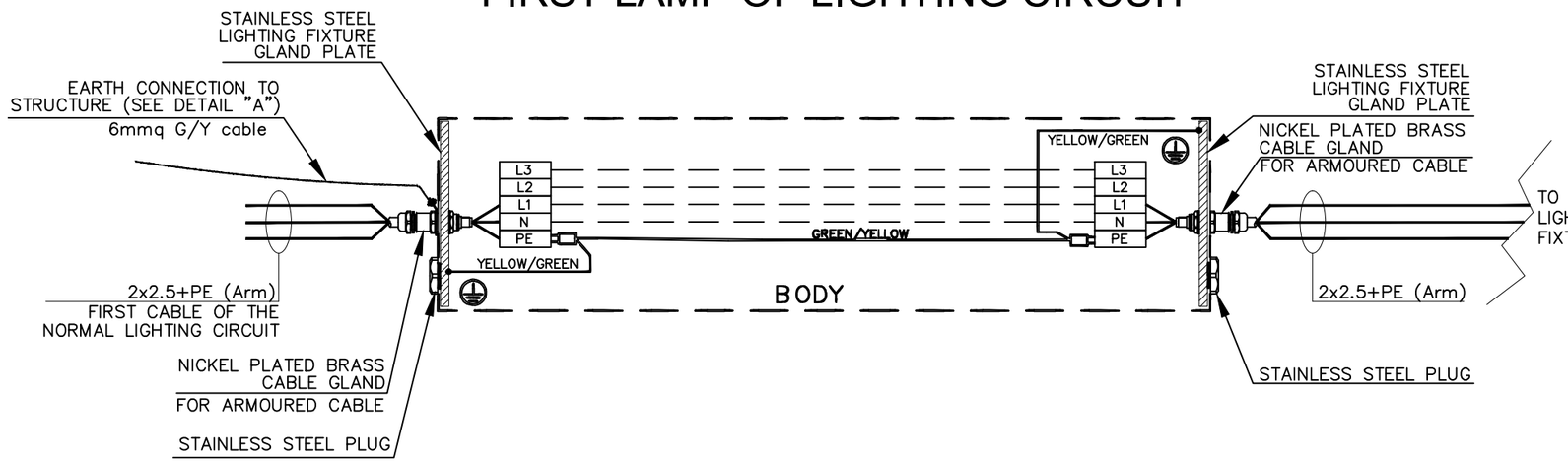


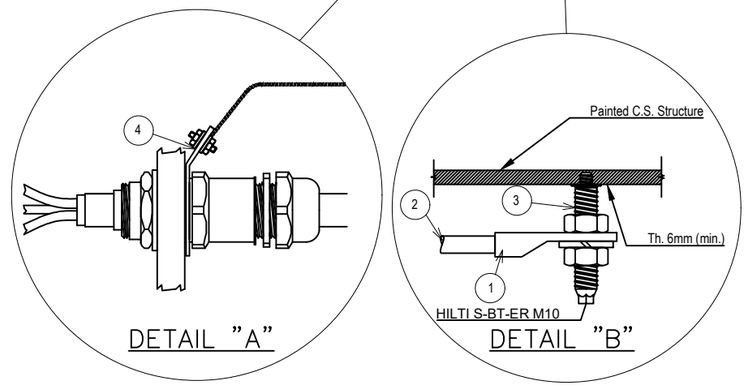
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

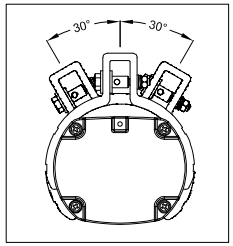
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

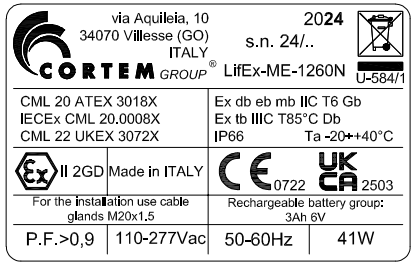
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



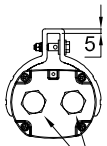
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

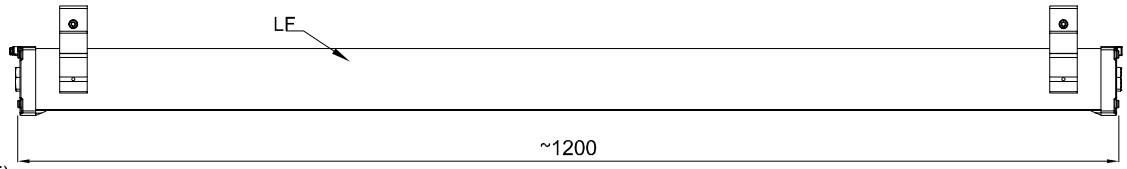
CERTIFICATE NAMEPLATE



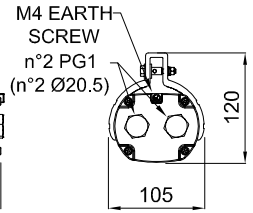
LEFT SIDE (OUT)



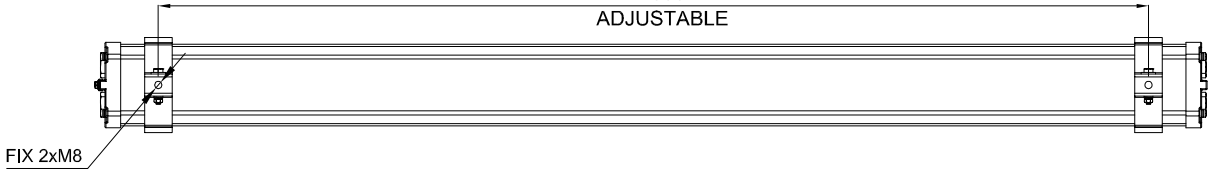
FRONT SIDE



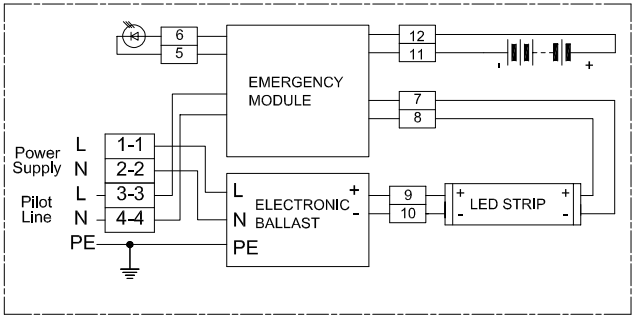
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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ROSETTI MARINO | CROSSWIND

ITEM	Tag	ELF-200N1-09-L2-08	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001408		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

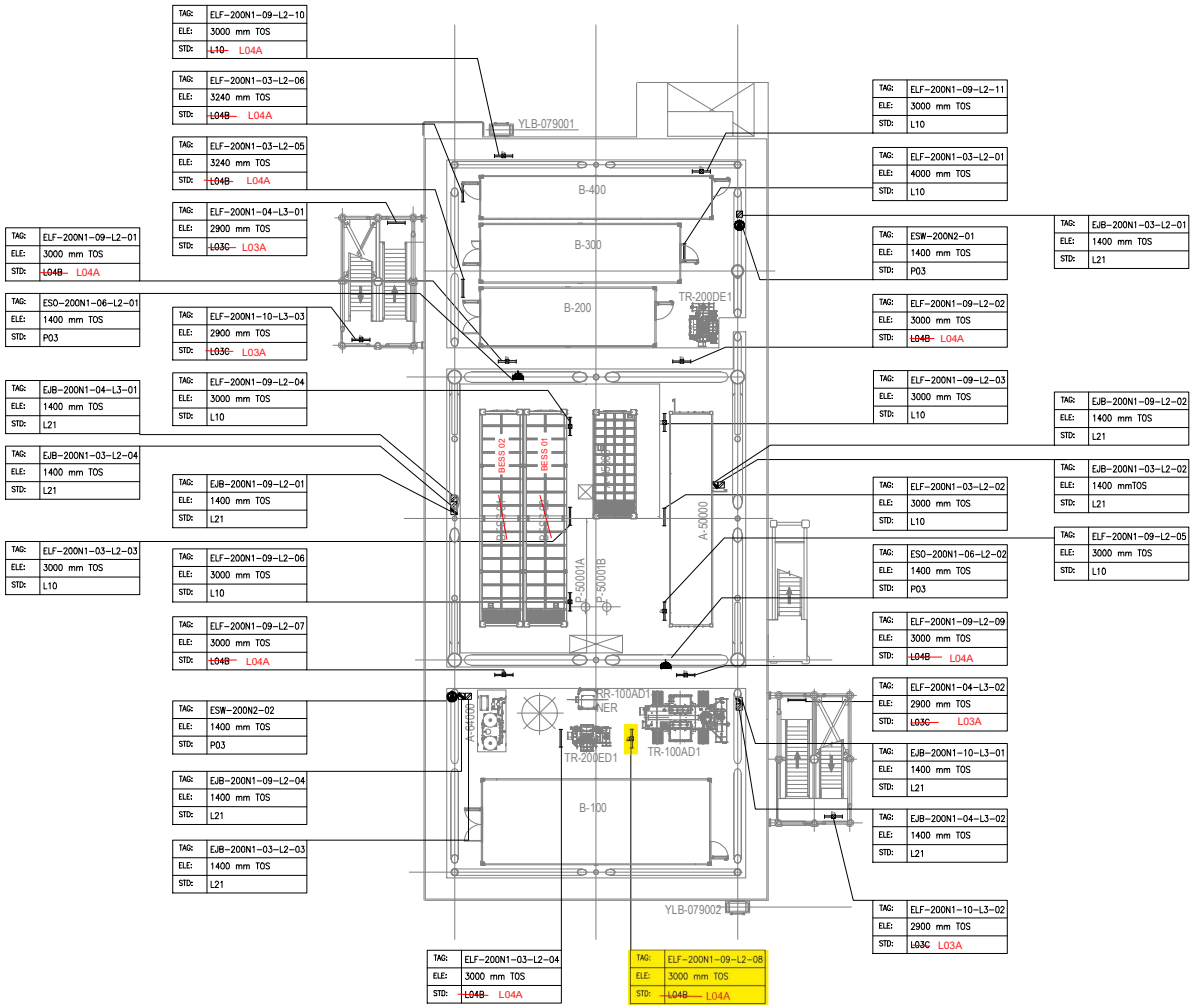
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	PL
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

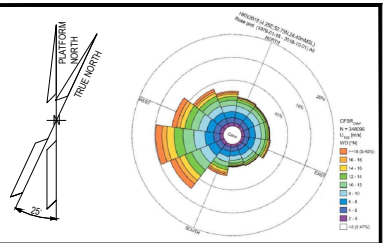
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-12	2025-01-16	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-12T16:30:06.582Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-16T15:49:05.831Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

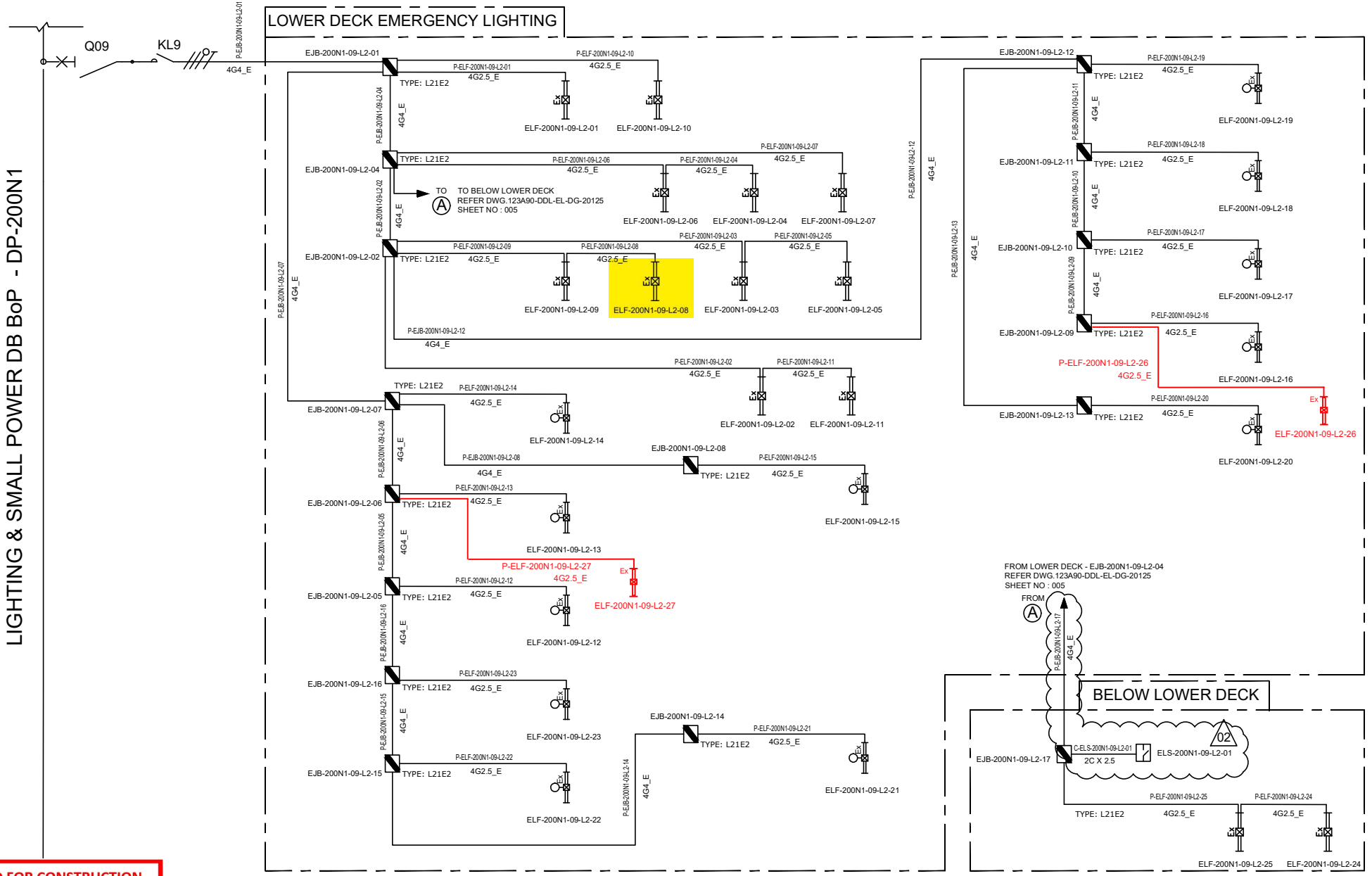
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

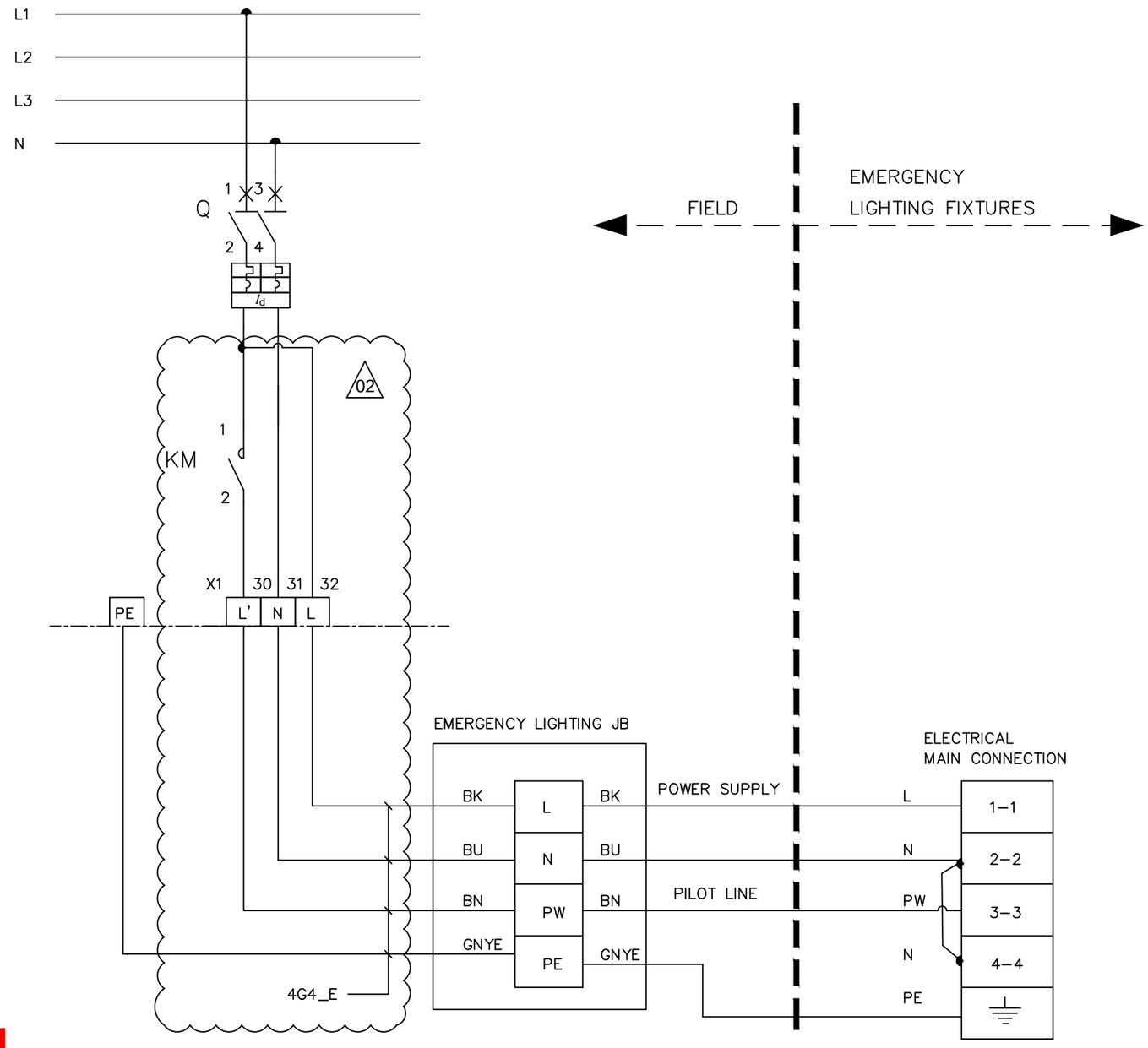
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

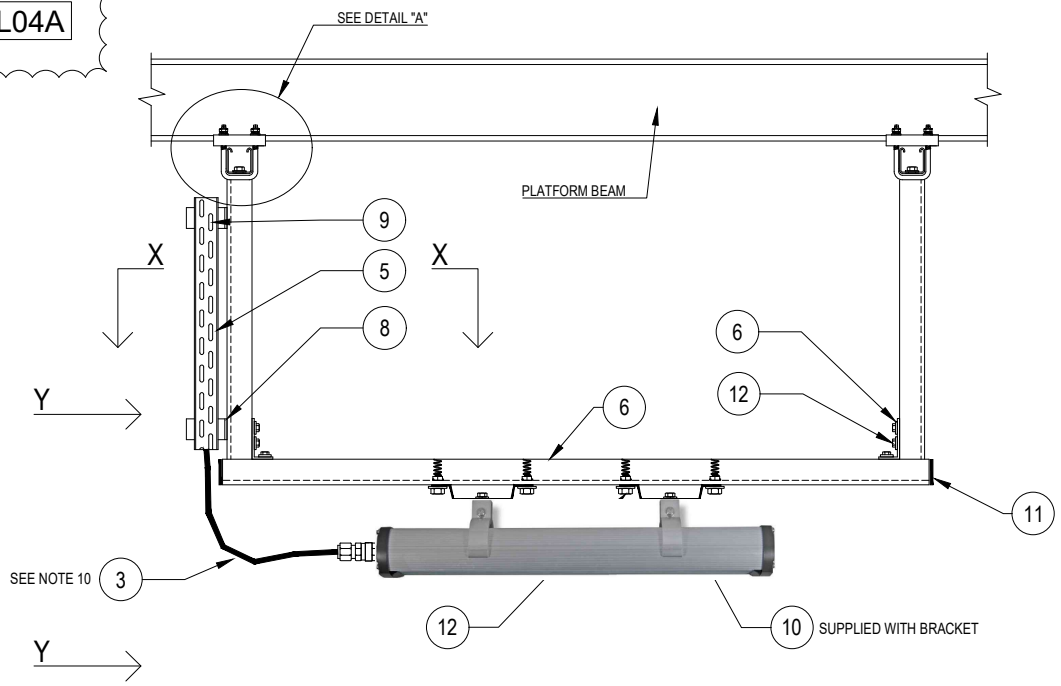
SHEET 014

REV. 02

F.to UNI A3: 420mmx297mm

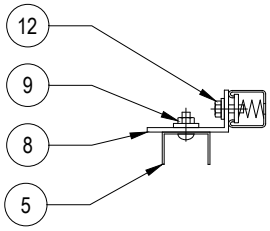
File Name : 123A90–DDL–EL–DG–20125

L04A

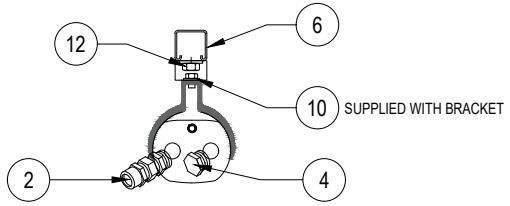


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

SECTION "X-X"

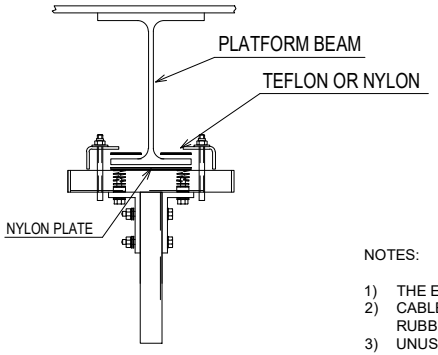


SECTION "Y-Y"

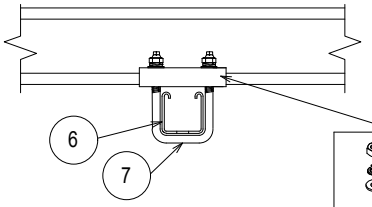


lighting fixture
Cortem LIFEX

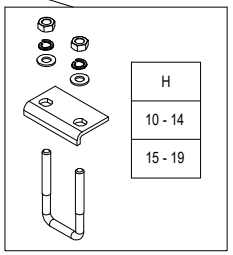
02



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

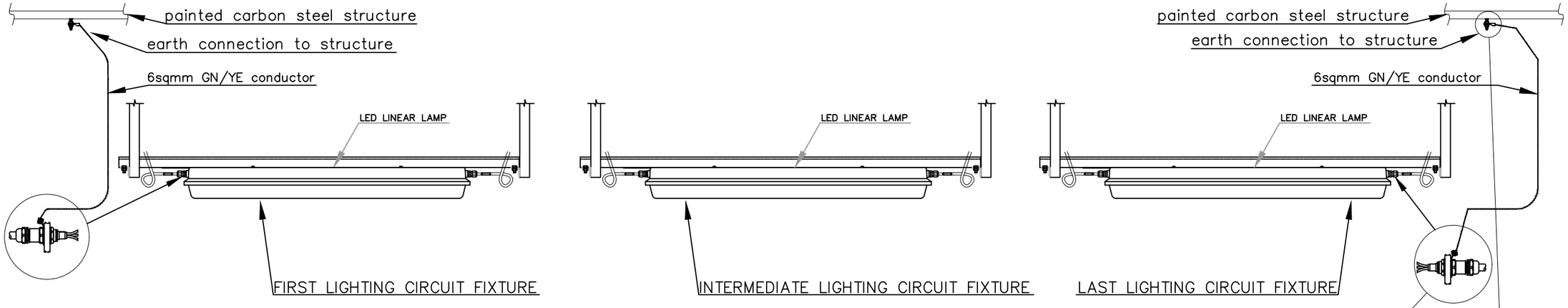
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

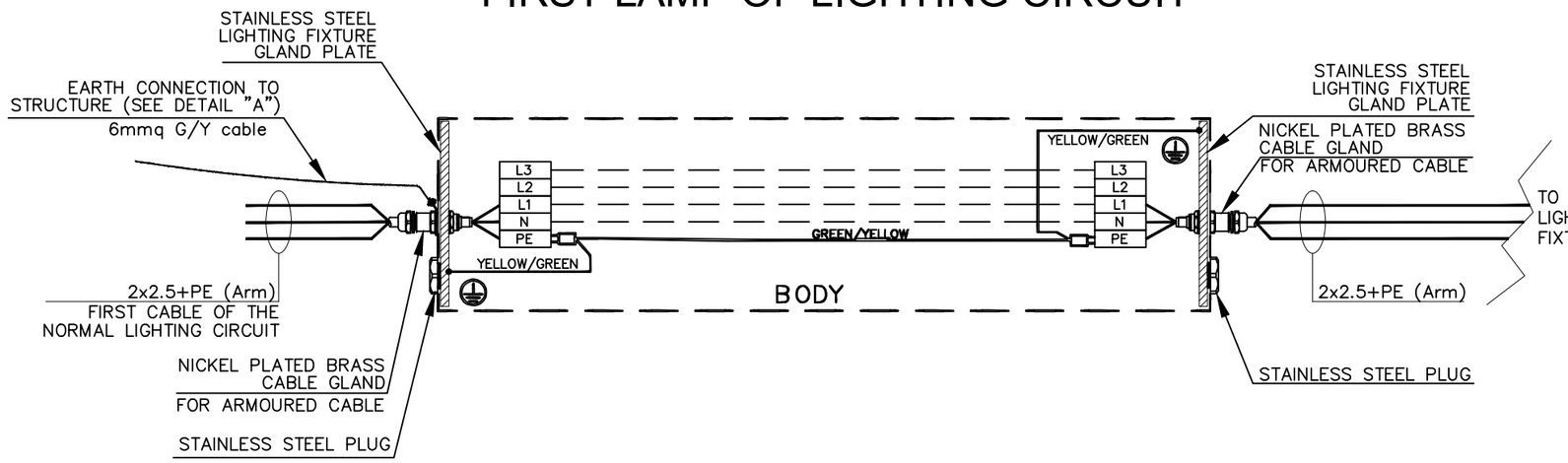


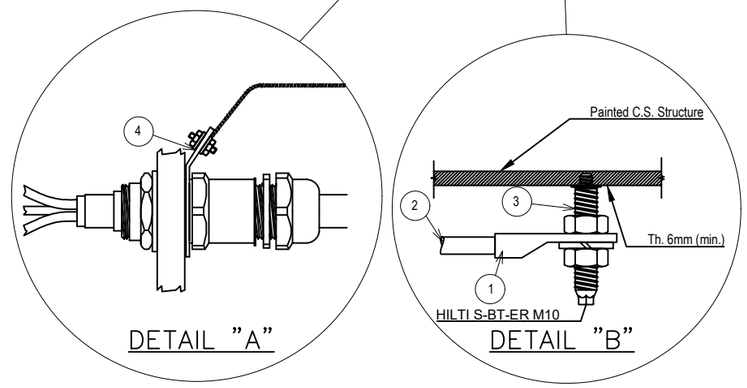
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

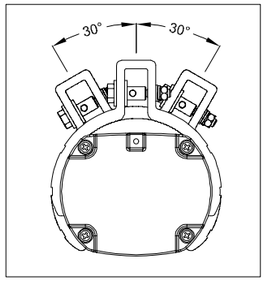
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

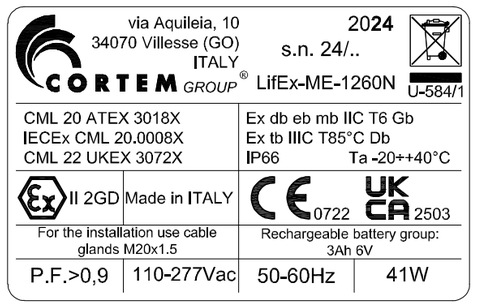
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



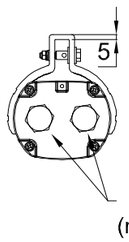
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

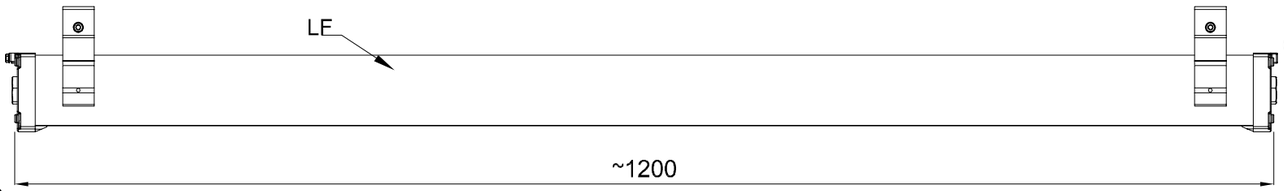
CERTIFICATE NAMEPLATE



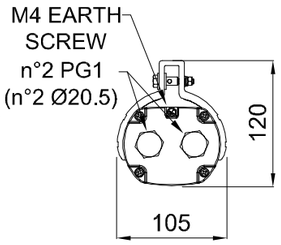
LEFT SIDE (OUT)



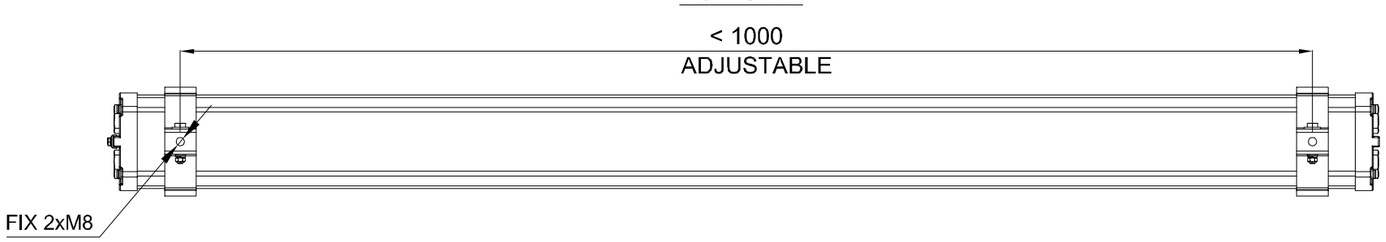
FRONT SIDE



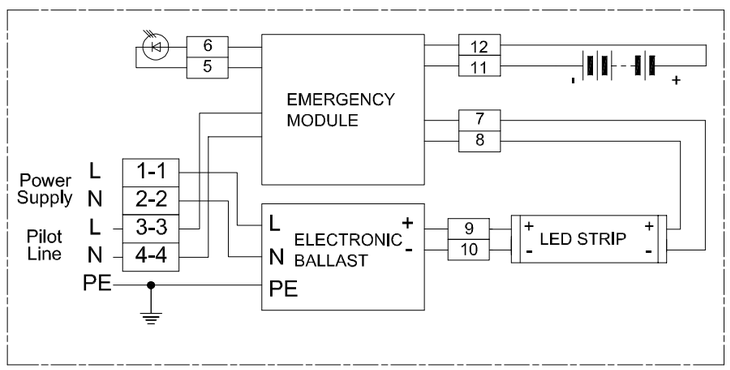
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTAROLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 2
NEXT: /
TOT.: 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	ELF-200N1-09-L2-09	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001409		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

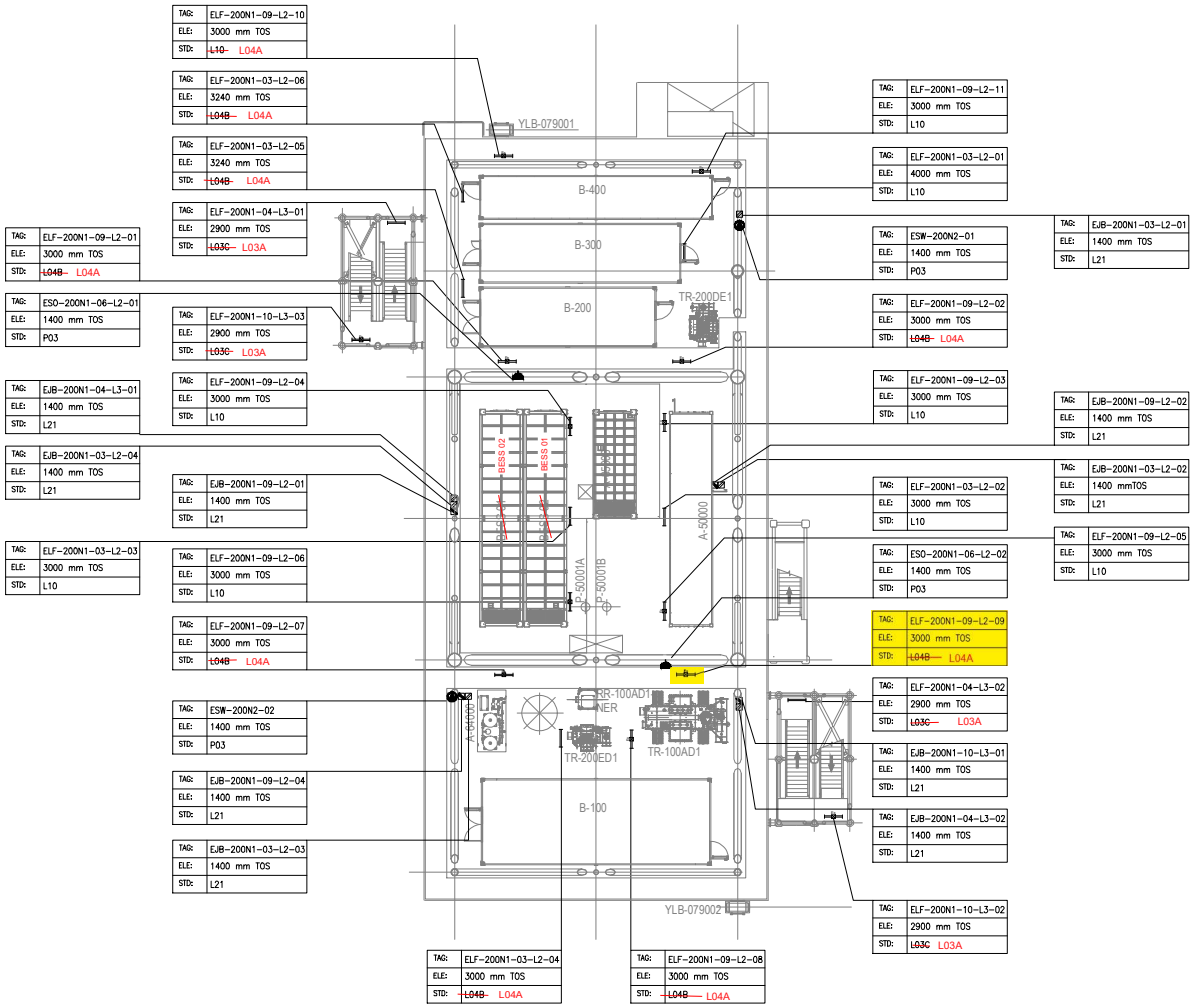
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	PL
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

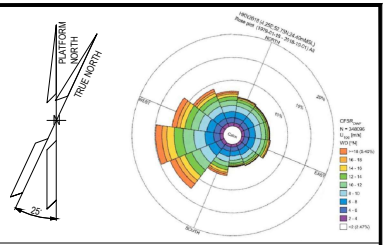
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-18	2024-12-19	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-18T15:42:03.016Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-19T18:12:36.066Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

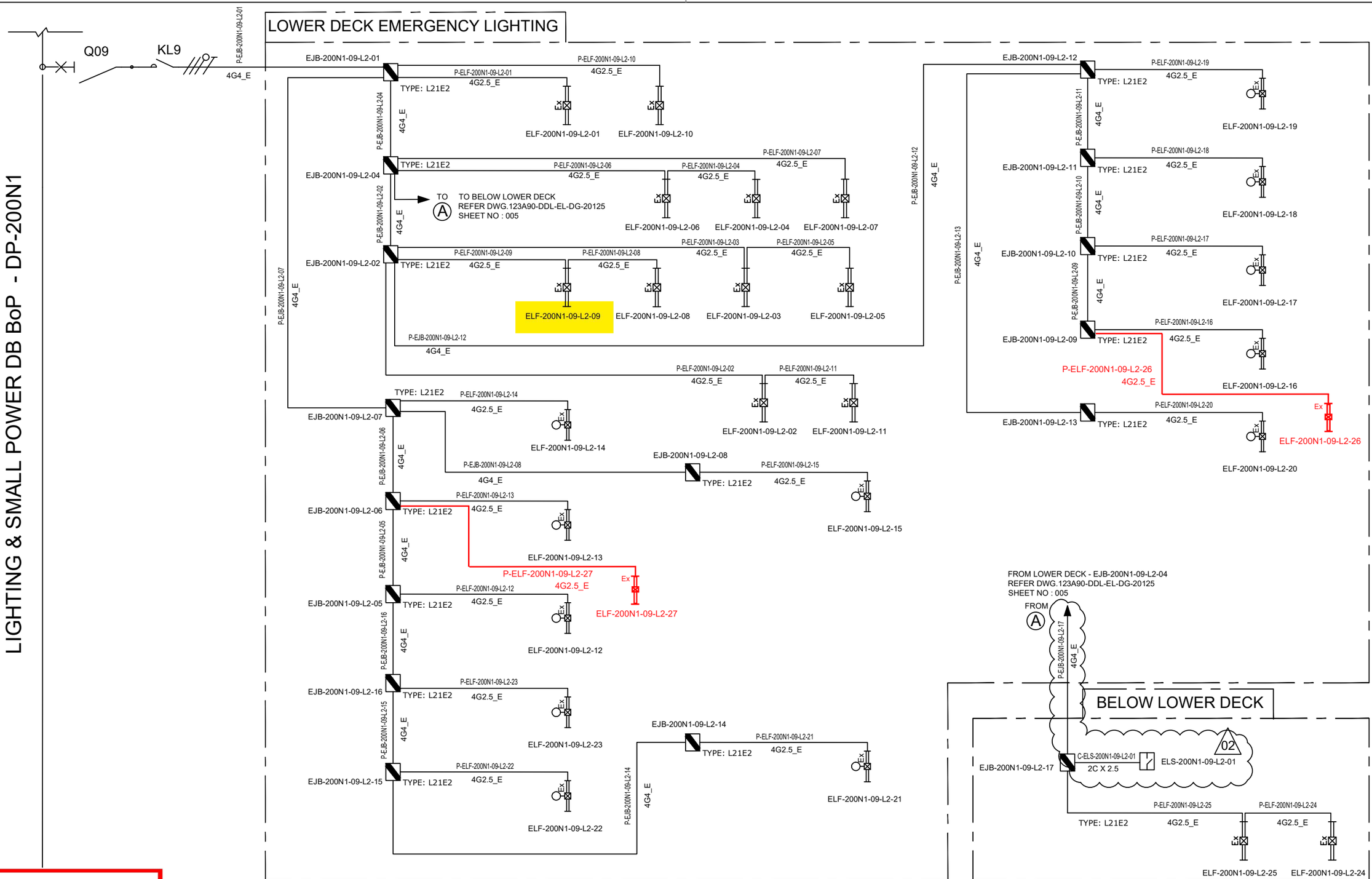
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

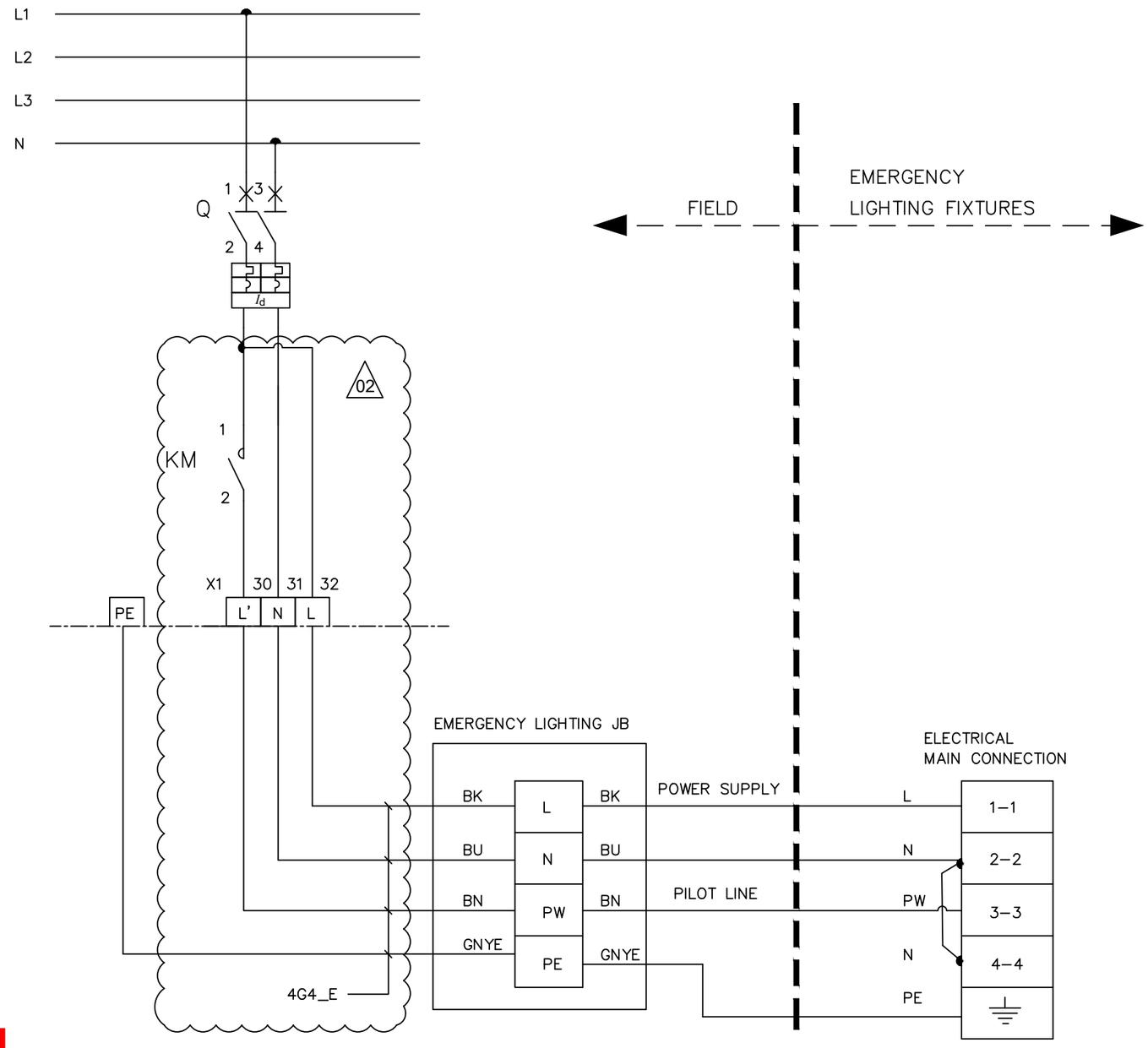
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

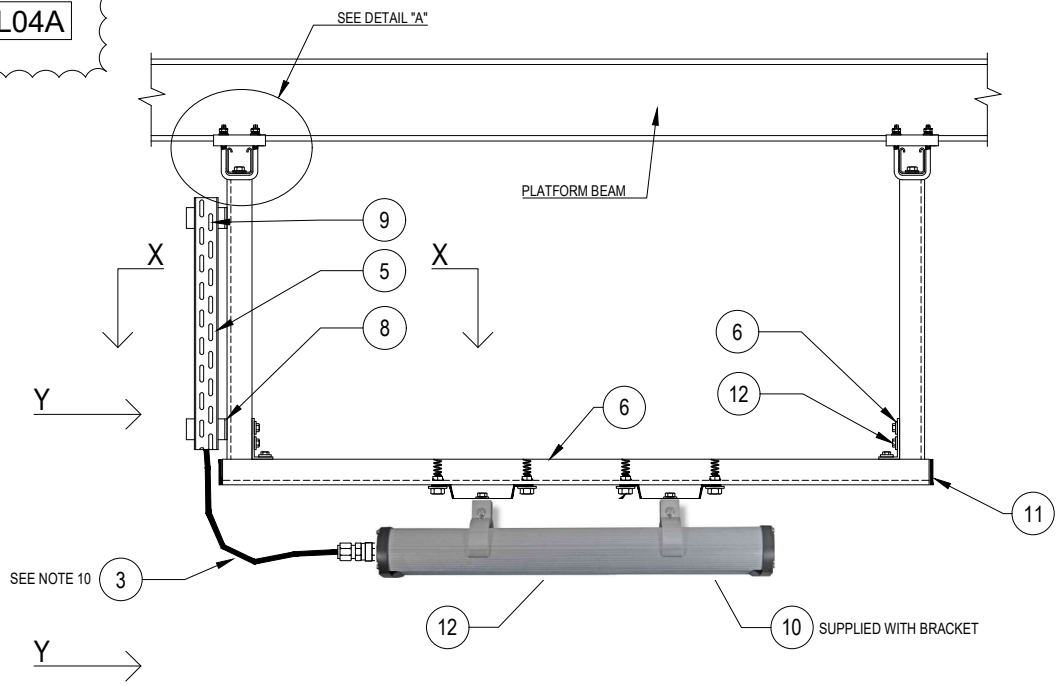
SHEET 014

REV. 02

F.to UNI A3: 420mmx297mm

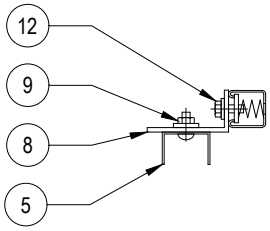
File Name : 123A90–DDL–EL–DG–20125

L04A

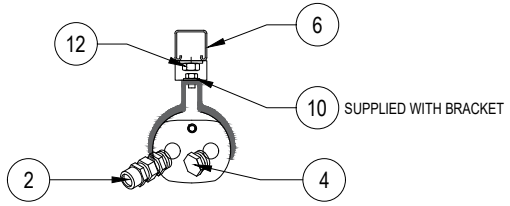


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

SECTION "X-X"

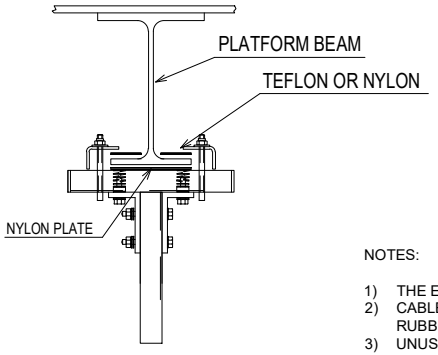


SECTION "Y-Y"

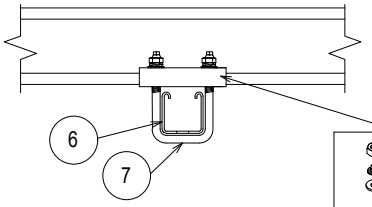


lighting fixture
Cortem LIFEX

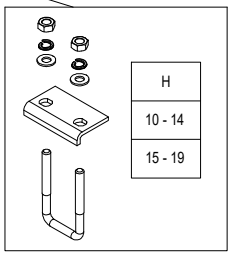
02



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

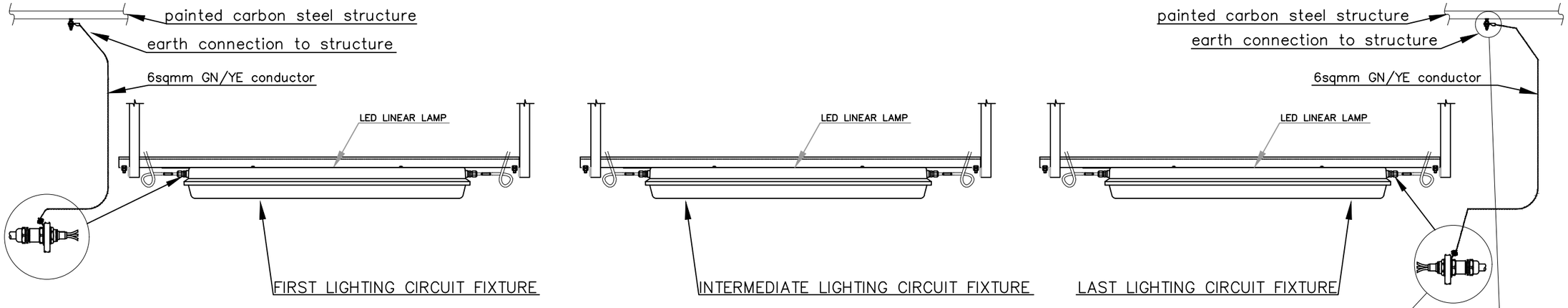
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

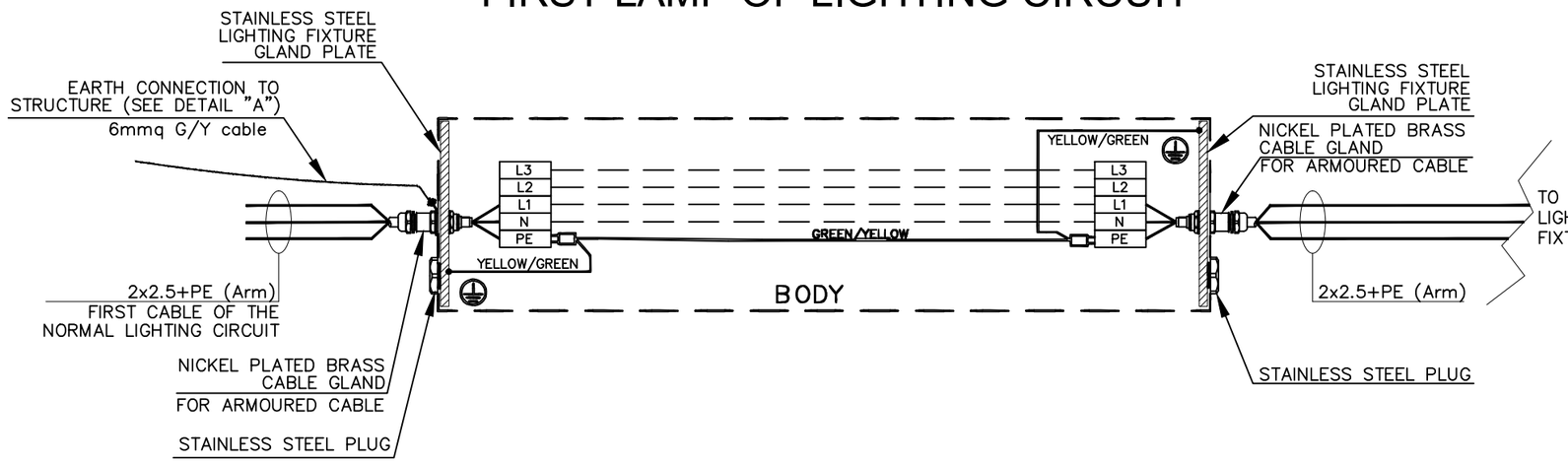


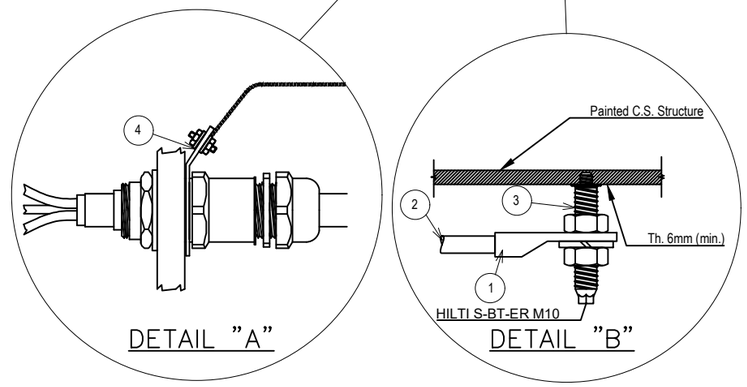
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

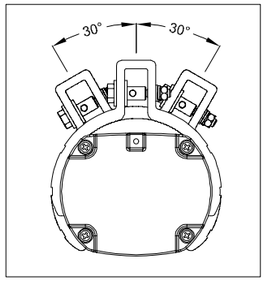
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

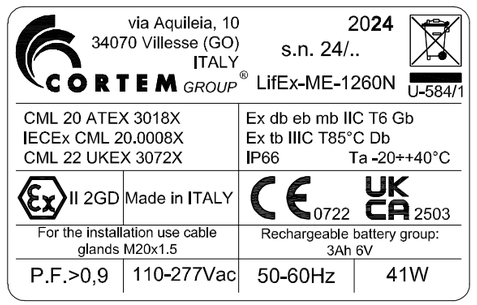
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



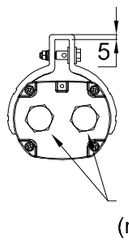
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

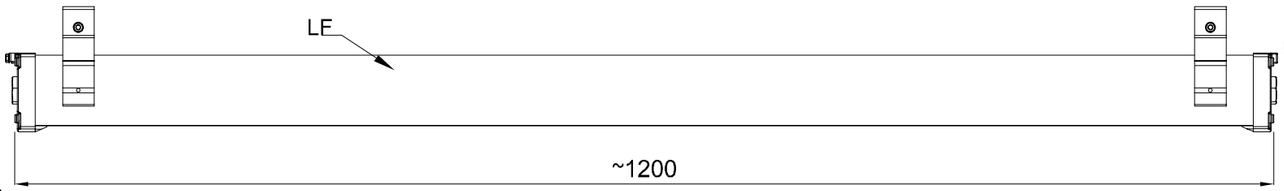
CERTIFICATE NAMEPLATE



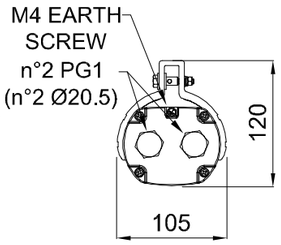
LEFT SIDE (OUT)



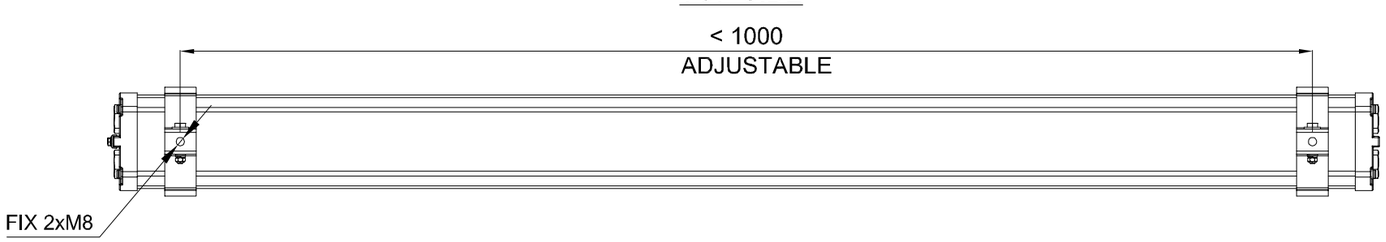
FRONT SIDE



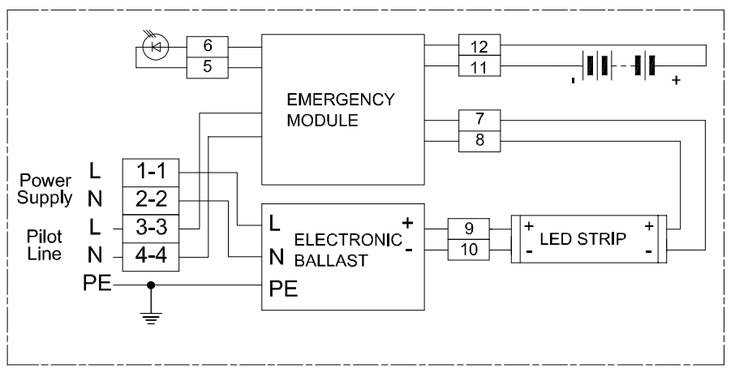
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTAROLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 2
NEXT: /
TOT.: 2

CORTEM GROUP
cortem
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ELFIT

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	ELF-200N1-09-L2-12	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001410		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

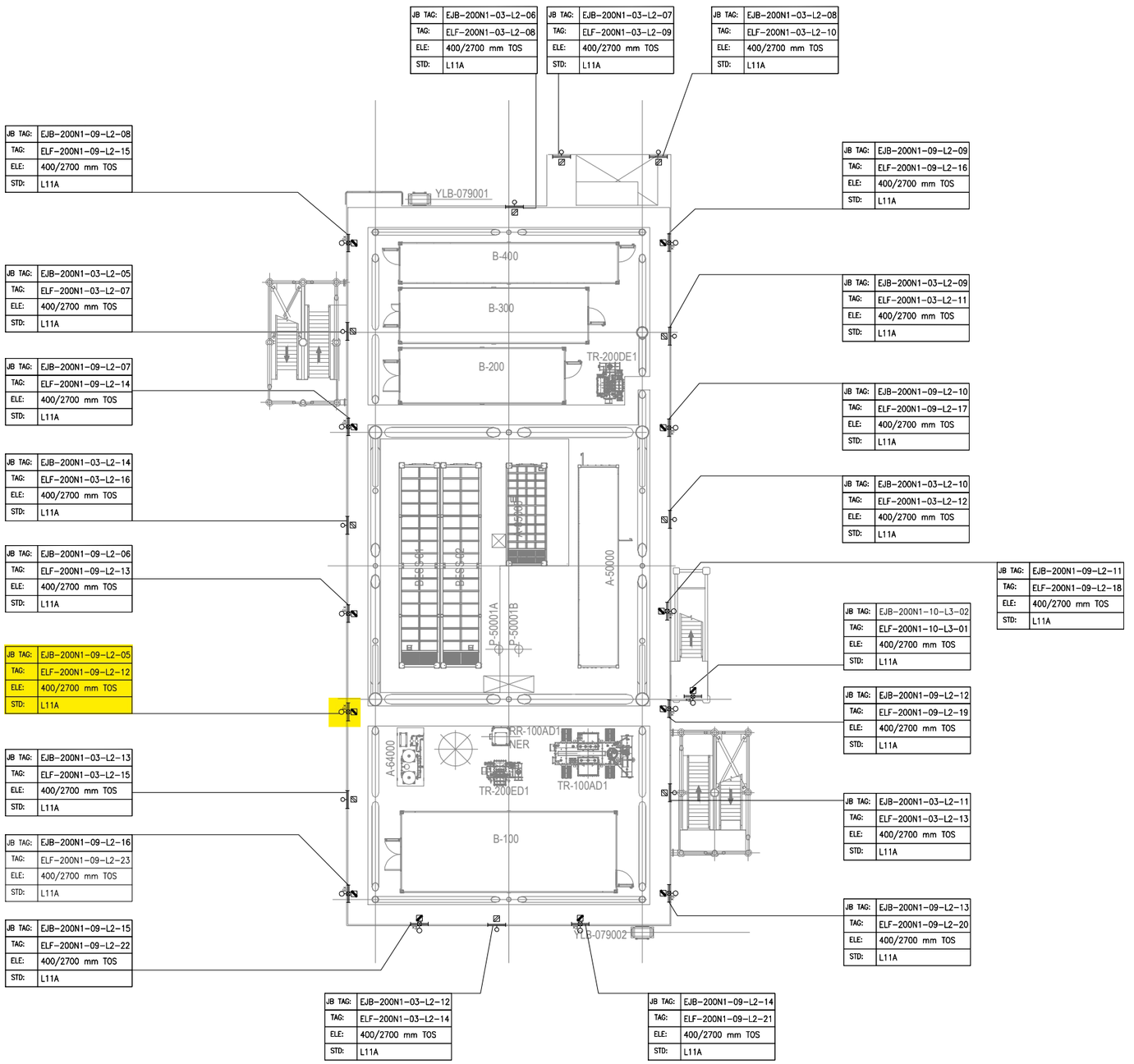
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

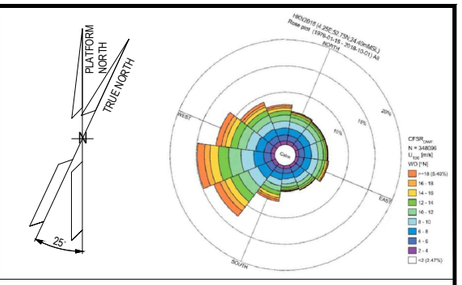
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-05	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:14:33.854Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-06T17:54:29.517Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2
- P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01
- P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10
- P-EJB-200N1-09-L2-04 4G4_E → EJB-200N1-09-L2-04

EJB-200N1-09-L2-04 — TYPE: L21E2
- P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06
- P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04
- P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07
- TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
- P-EJB-200N1-09-L2-02 4G4_E → EJB-200N1-09-L2-02

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09
- P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08
- P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03
- P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05
- P-EJB-200N1-09-L2-12 4G4_E
- P-EJB-200N1-09-L2-07 4G4_E → EJB-200N1-09-L2-07

EJB-200N1-09-L2-07 — TYPE: L21E2
- P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02
- P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11
- P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14
- P-EJB-200N1-09-L2-06 4G4_E → EJB-200N1-09-L2-06

EJB-200N1-09-L2-06 — TYPE: L21E2
- P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13
- P-EJB-200N1-09-L2-05 4G4_E → EJB-200N1-09-L2-05

EJB-200N1-09-L2-05 — TYPE: L21E2
- P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12
- P-EJB-200N1-09-L2-16 4G4_E → EJB-200N1-09-L2-16

EJB-200N1-09-L2-16 — TYPE: L21E2
- P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23
- P-EJB-200N1-09-L2-15 4G4_E → EJB-200N1-09-L2-15

EJB-200N1-09-L2-15 — TYPE: L21E2
- P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

EJB-200N1-09-L2-08 — TYPE: L21E2
- P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15
- P-EJB-200N1-09-L2-14 4G4_E → EJB-200N1-09-L2-14

EJB-200N1-09-L2-14 — TYPE: L21E2
- P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21

EJB-200N1-09-L2-12 — TYPE: L21E2
- P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19
- P-EJB-200N1-09-L2-11 4G4_E → EJB-200N1-09-L2-11

EJB-200N1-09-L2-11 — TYPE: L21E2
- P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18
- P-EJB-200N1-09-L2-10 4G4_E → EJB-200N1-09-L2-10

EJB-200N1-09-L2-10 — TYPE: L21E2
- P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17
- P-EJB-200N1-09-L2-09 4G4_E → EJB-200N1-09-L2-09

EJB-200N1-09-L2-09 — TYPE: L21E2
- P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16
- P-EJB-200N1-09-L2-13 4G4_E → EJB-200N1-09-L2-13

EJB-200N1-09-L2-13 — TYPE: L21E2
- P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)
P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17
- C-ELS-200N1-09-L2-01 2C X 2.5 → ELS-200N1-09-L2-01 (02)
- P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25
- P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND | ROSETTI MARINO

F.to UNI A3: 420mmx297mm

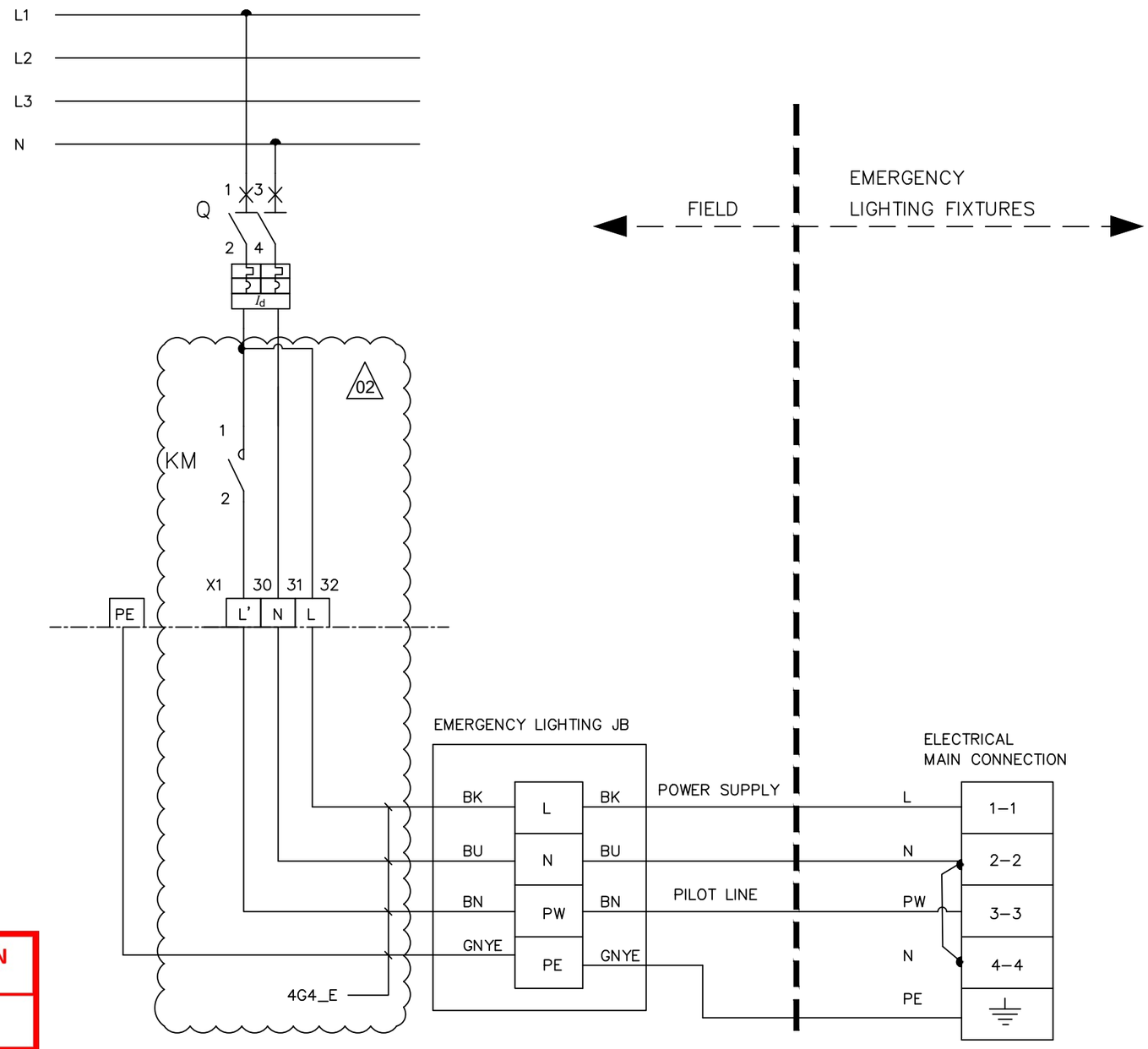
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

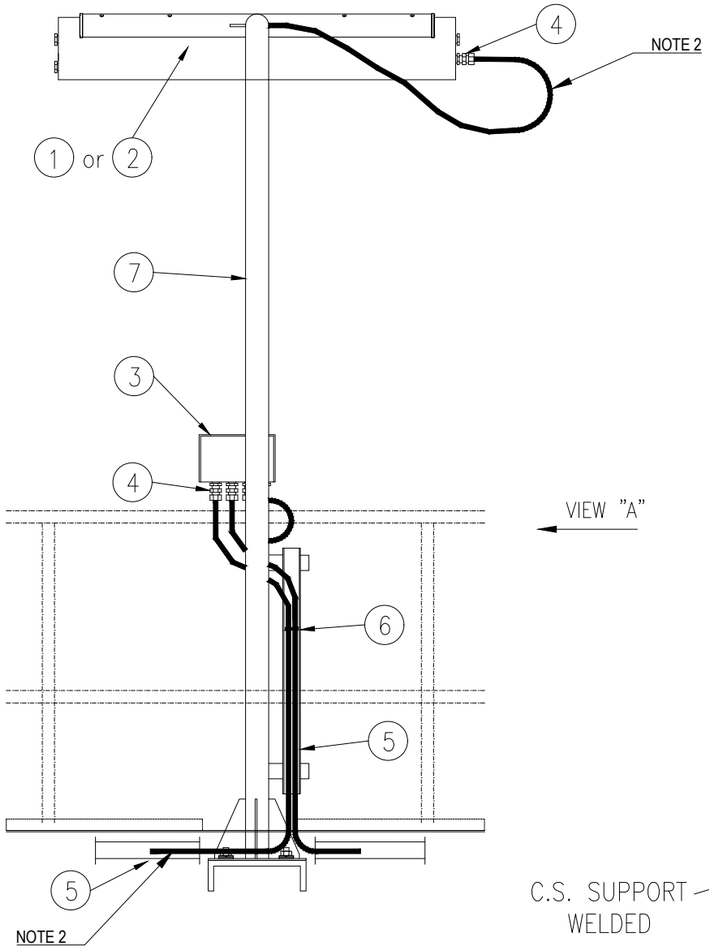
CROSSWIND

ROSETTI MARINO

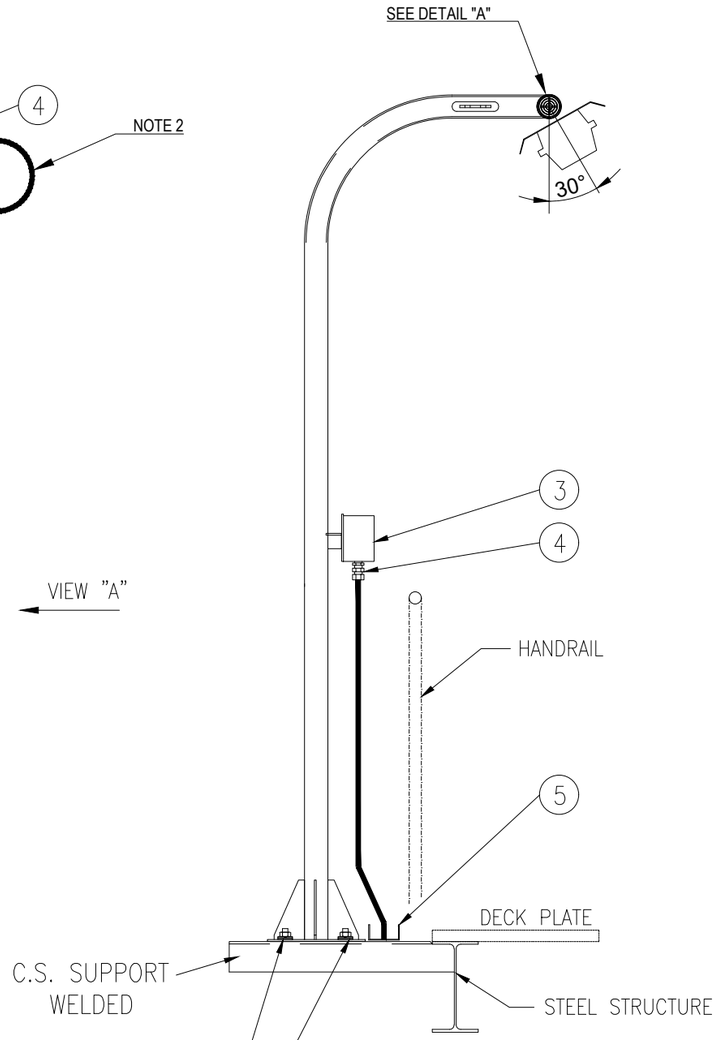
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L11A

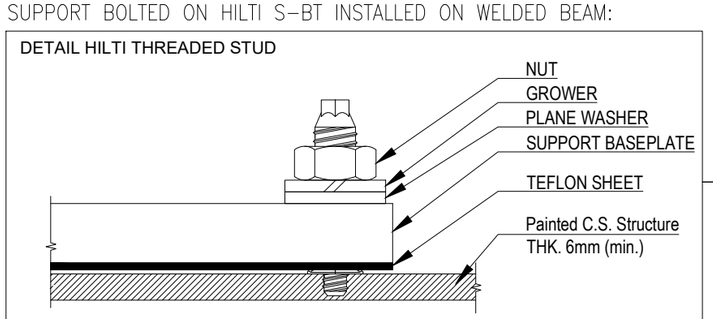


VIEW "A"

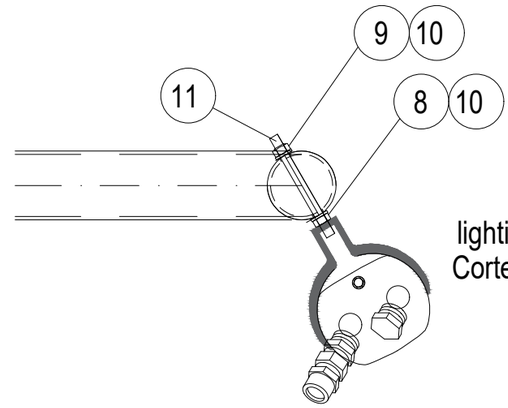


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

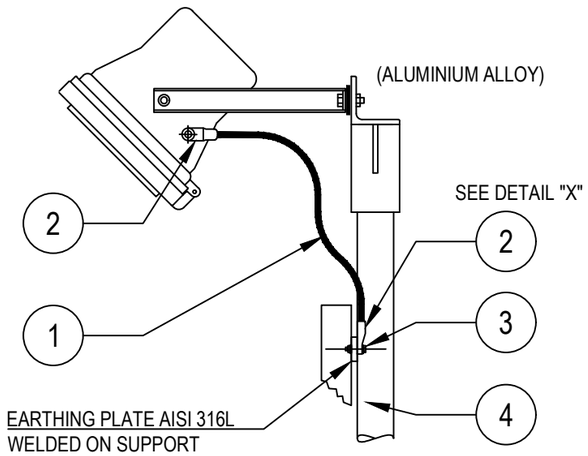
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

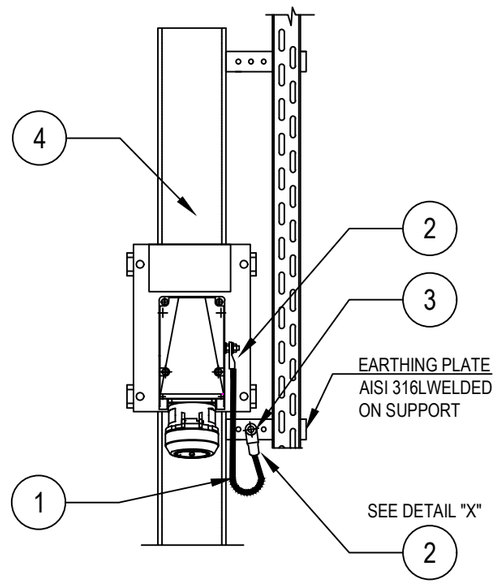
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

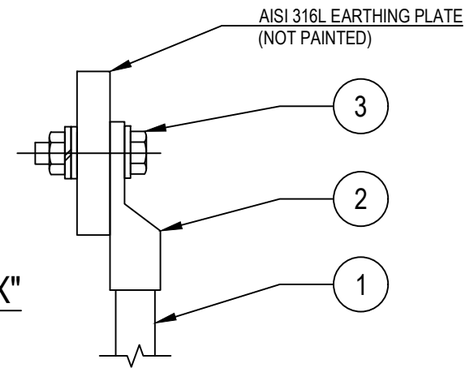
LIGHTING FIXTURE/GENERAL ITEM ON POLE



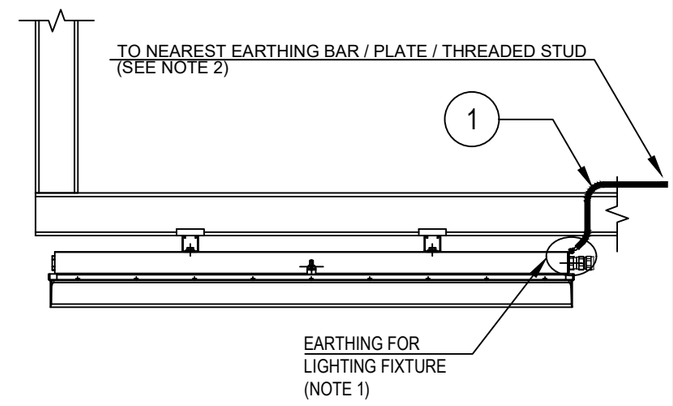
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

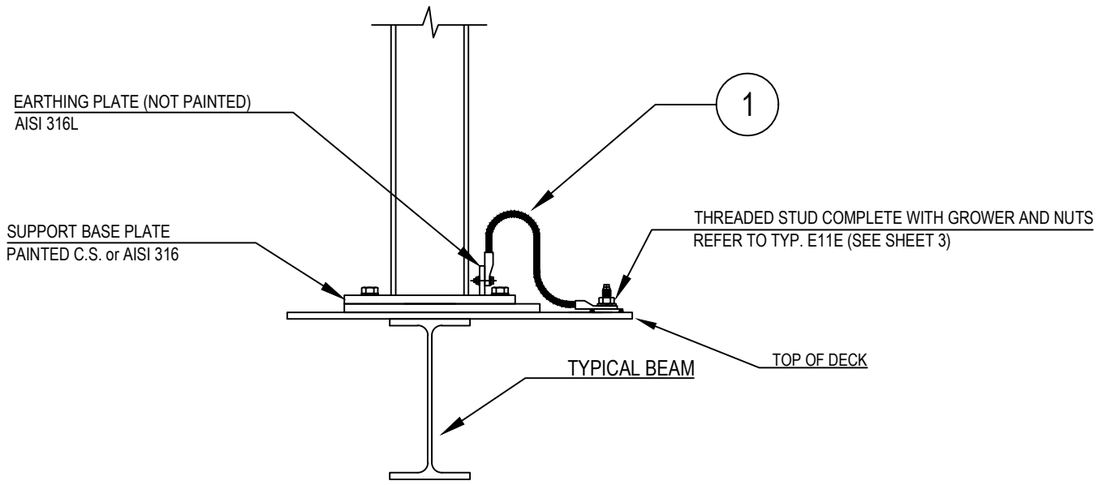
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

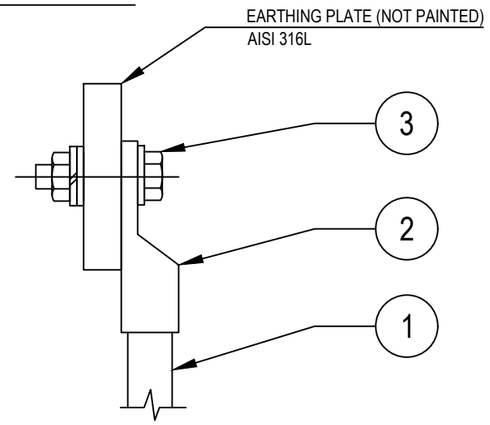
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

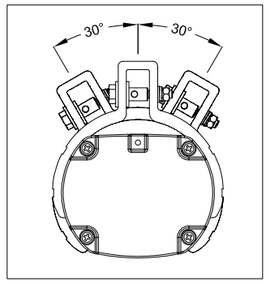
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

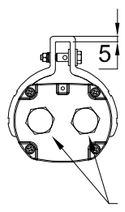
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



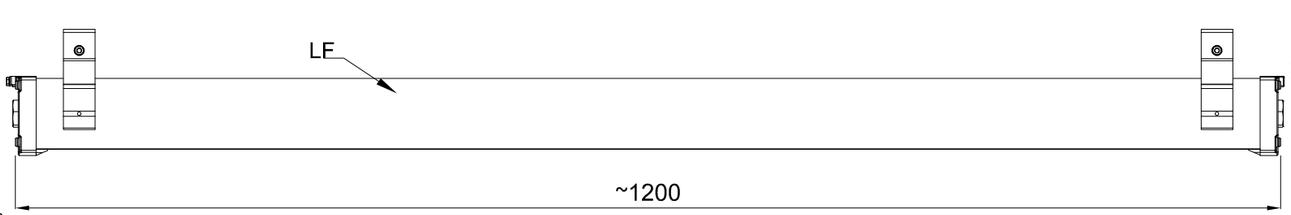
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

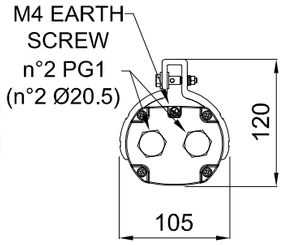
LEFT SIDE (OUT)



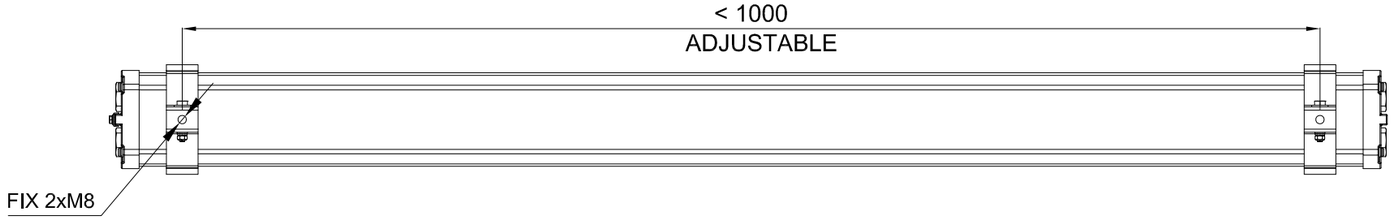
FRONT SIDE



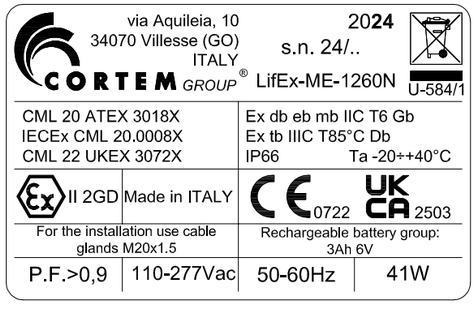
RIGHT SIDE (IN)



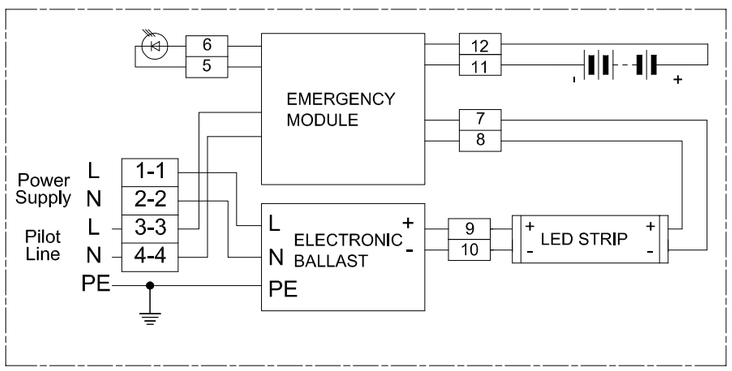
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2
NEXT /
TOT. 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-13	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001411		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

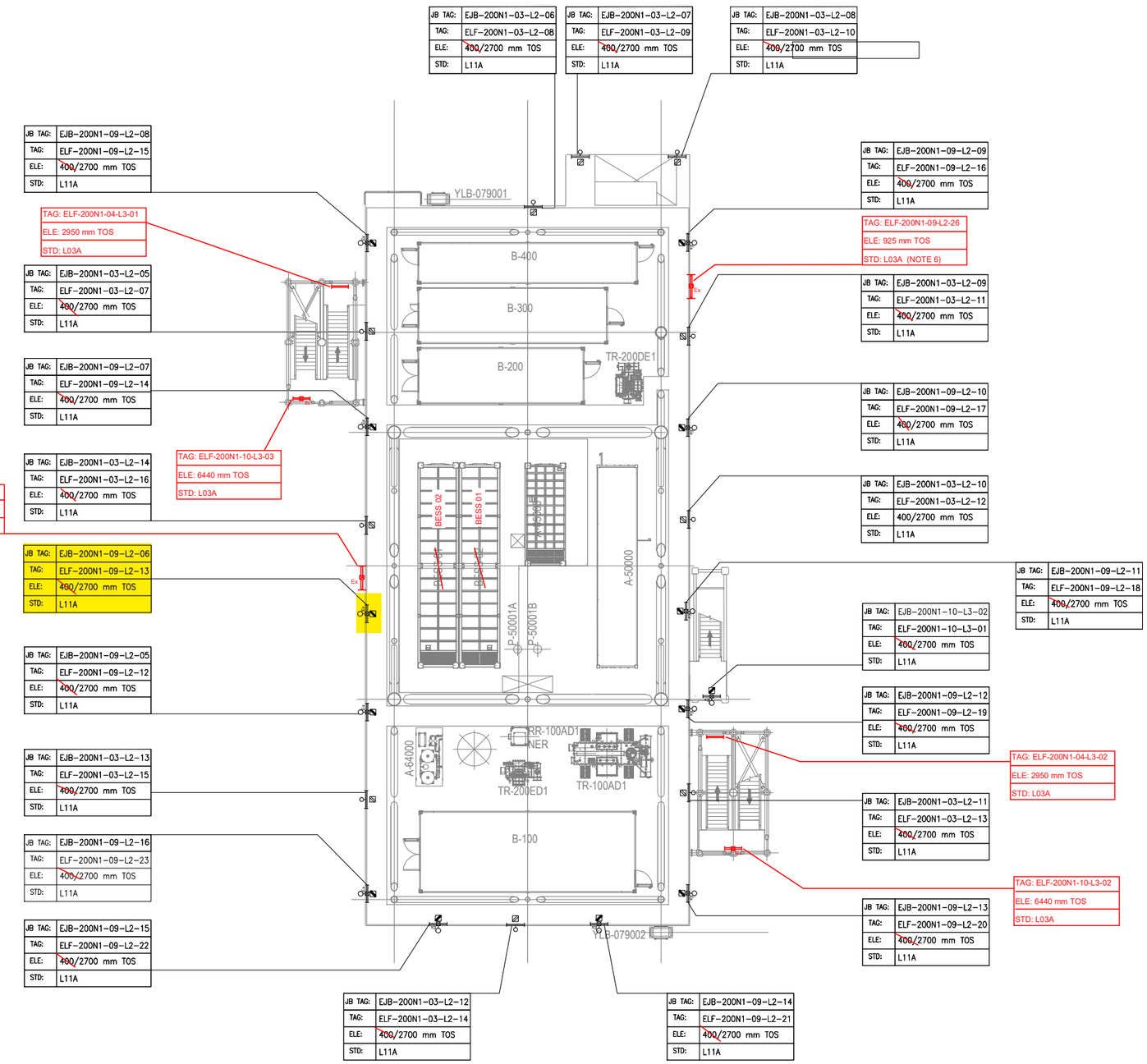
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

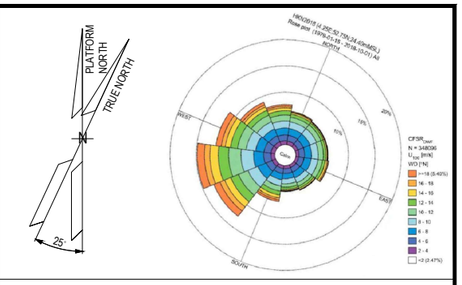
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-02	2025-01-13	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-02T16:26:42.431Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-13T14:02:06.300Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

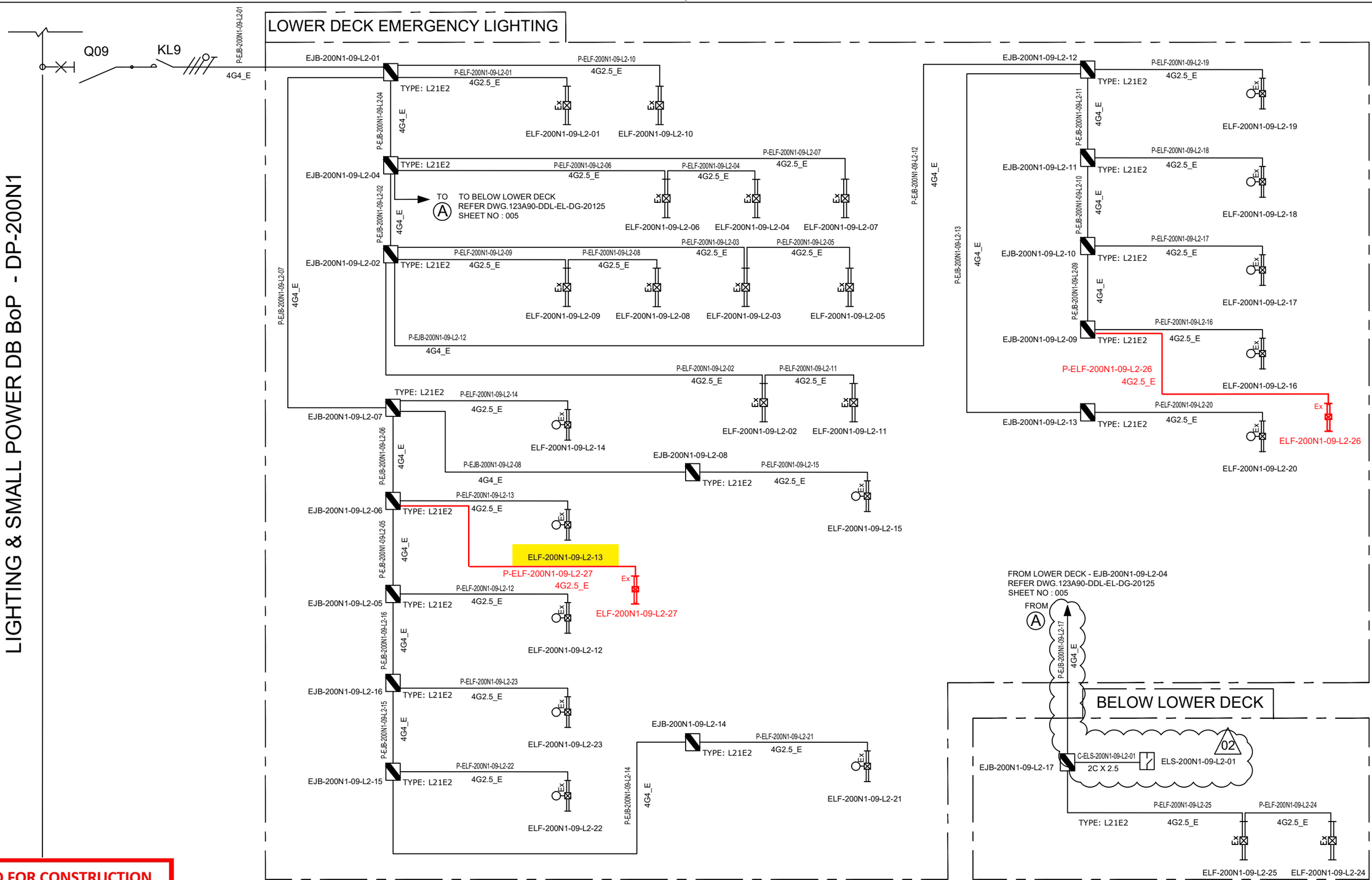
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_E	09/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

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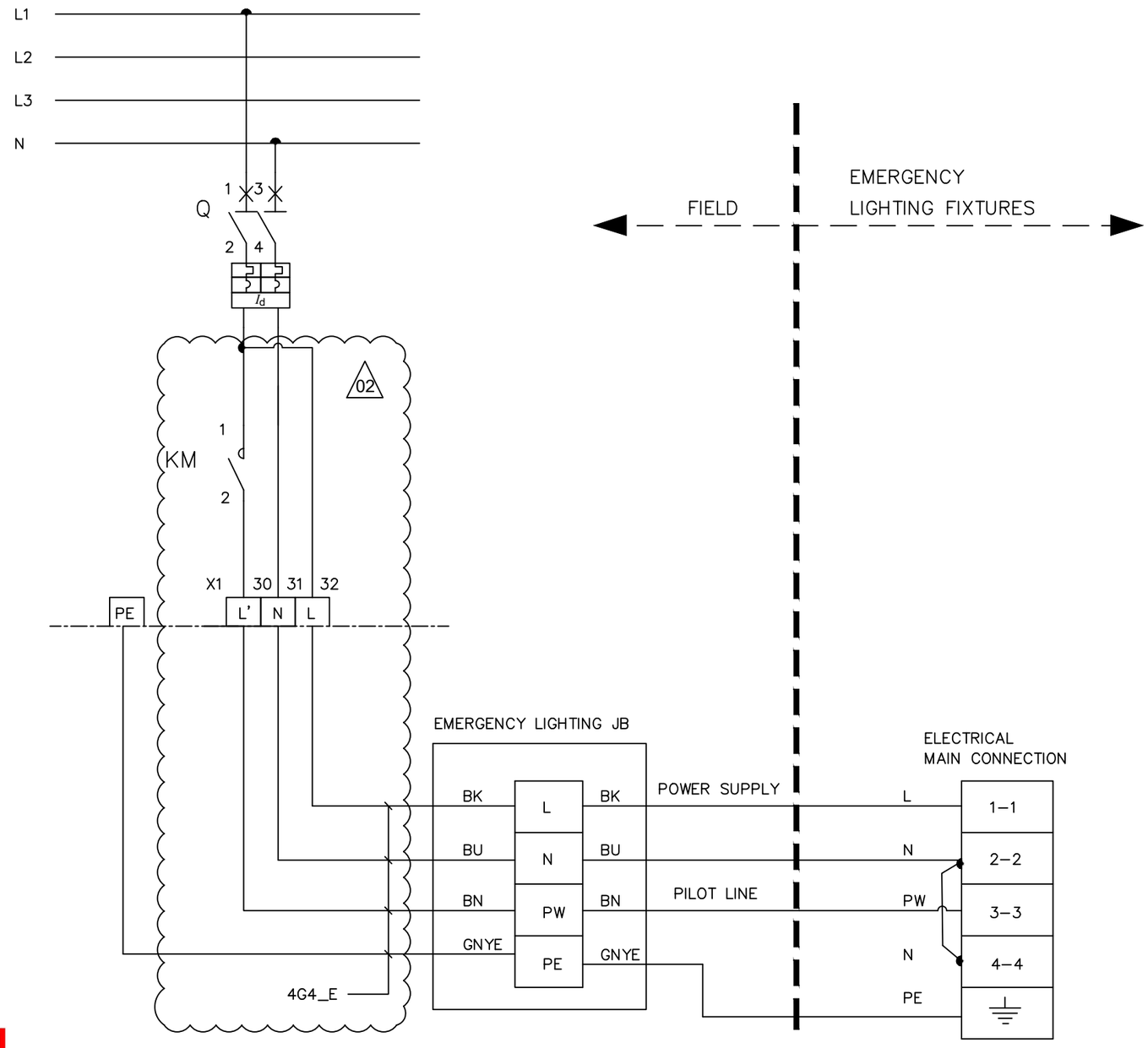
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

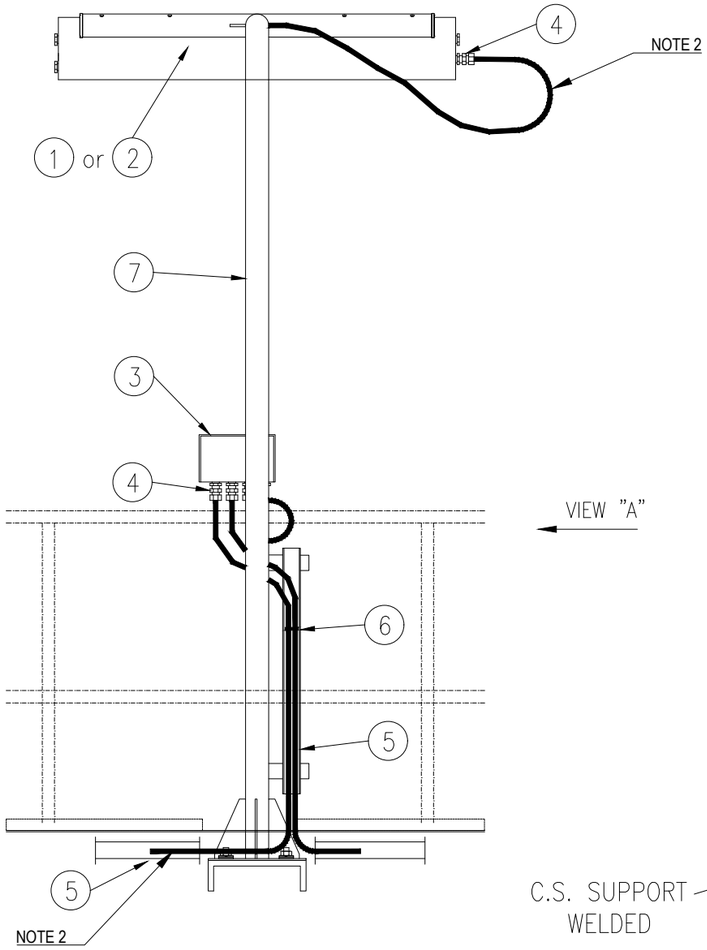
SHEET 014

REV. 02

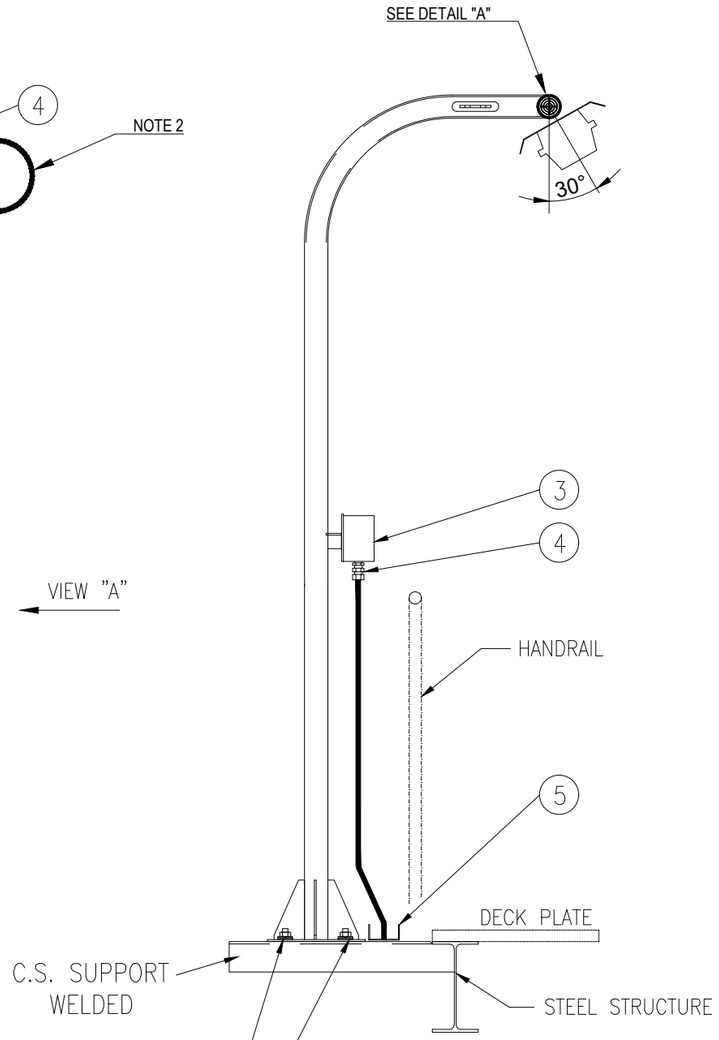
F.to UNI A3: 420mmx297mm

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L11A

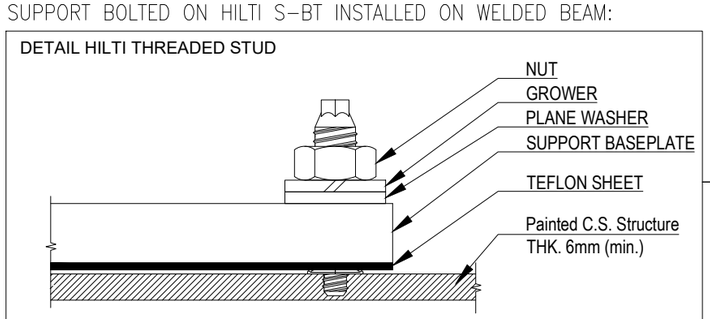


VIEW "A"

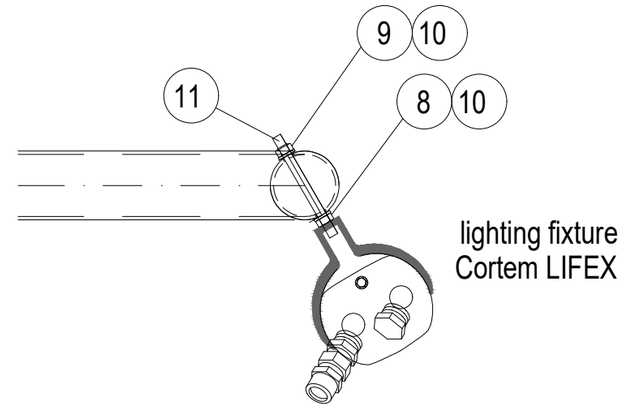


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

02

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

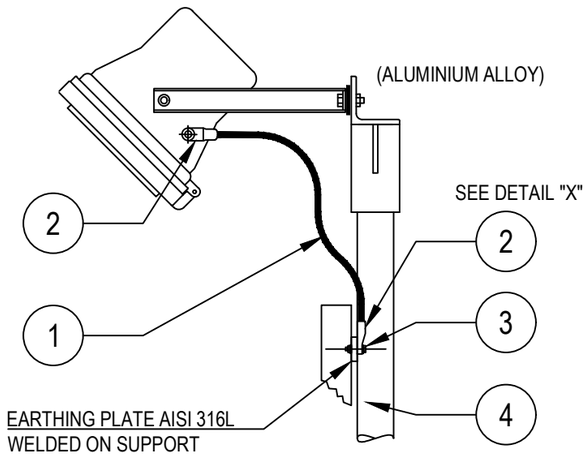
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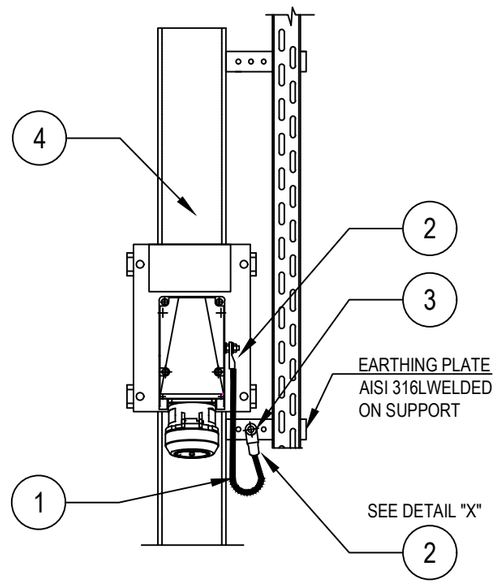
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

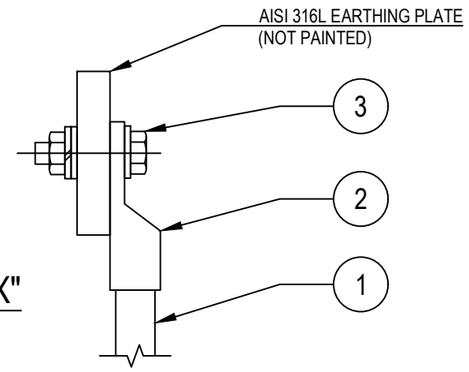
LIGHTING FIXTURE/GENERAL ITEM ON POLE



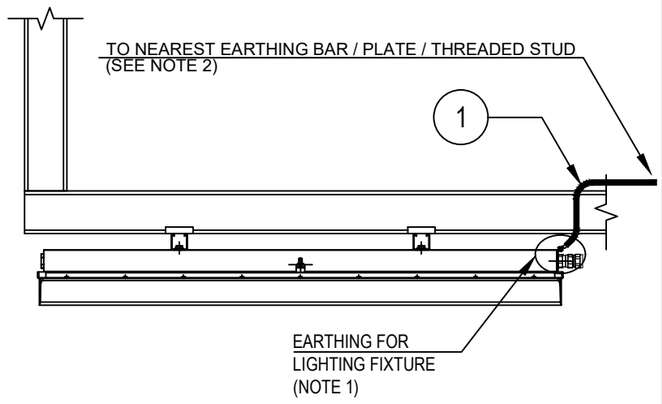
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20090 | SHEET 006 | REV. 02

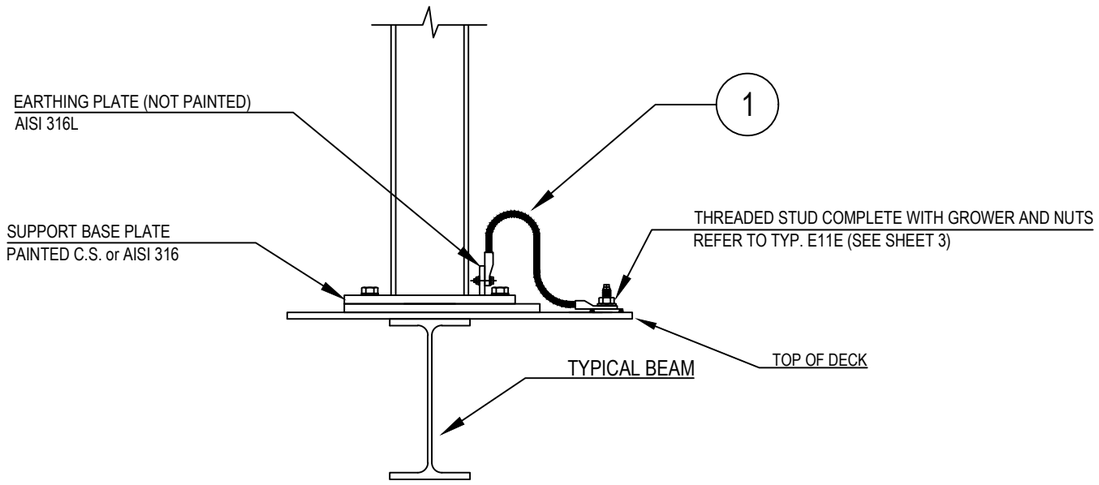
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File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

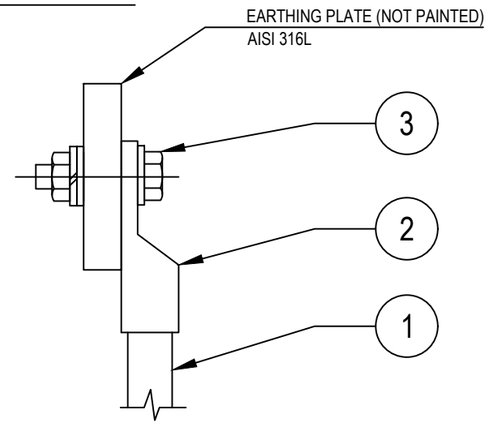
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_I	07/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

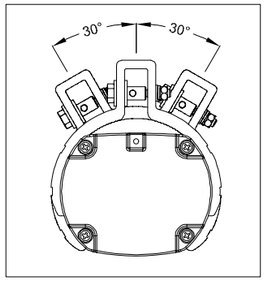
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

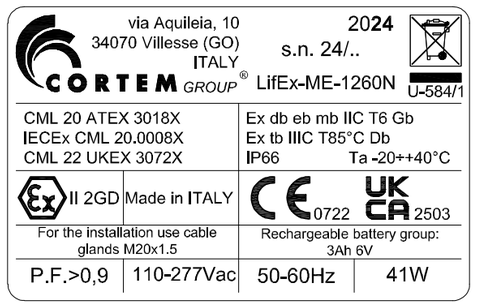
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



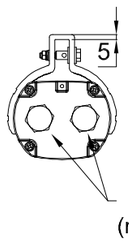
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

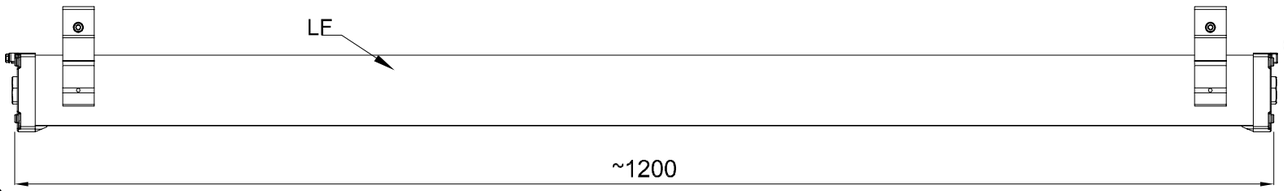
CERTIFICATE NAMEPLATE



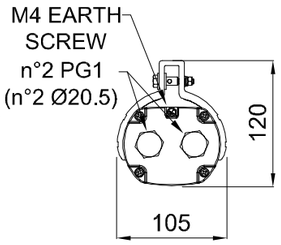
LEFT SIDE (OUT)



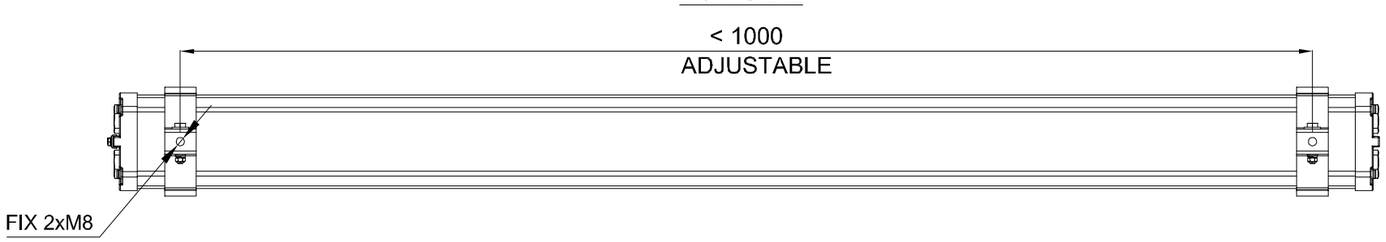
FRONT SIDE



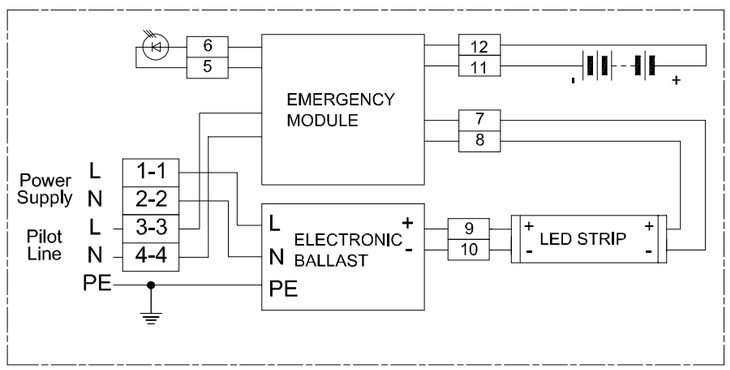
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTAROLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 2
NEXT: /
TOT.: 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

THIS DRAWING IS PROPERTY OF CORTEM SPA
AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-14	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001412		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

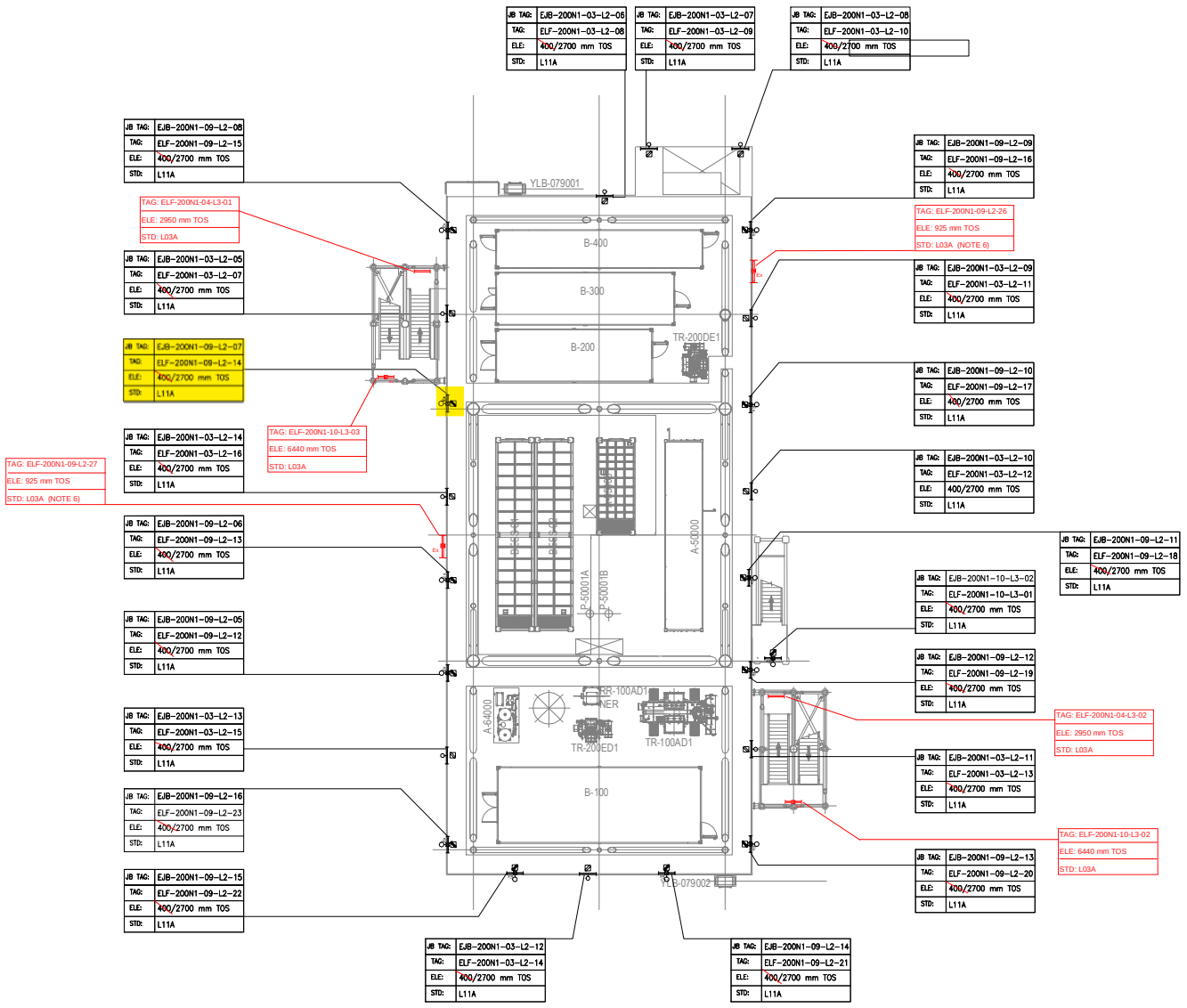
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

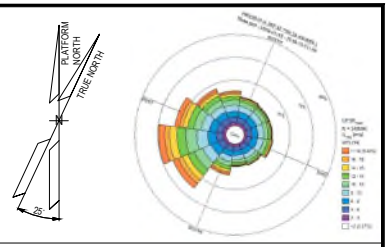
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-13	2024-12-16	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-13T10:22:23.172Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-16T16:05:22.914Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2 — P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
P-EJB-200N1-09-L2-02 4G4_E

EJB-200N1-09-L2-02 — TYPE: L21E2 — P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-12 4G4_E
P-EJB-200N1-09-L2-07 4G4_E

P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2 — P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2 — P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15
P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-06 — TYPE: L21E2 — P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-ELF-200N1-09-L2-27 4G2.5_E — Ex — ELF-200N1-09-L2-27
P-EJB-200N1-09-L2-05 4G4_E

EJB-200N1-09-L2-05 — TYPE: L21E2 — P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2 — P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2 — P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2 — P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21
P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2 — P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2 — P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2 — P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2 — P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — Ex — ELF-200N1-09-L2-26

EJB-200N1-09-L2-13 — TYPE: L21E2 — P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20
P-EJB-200N1-09-L2-13 4G4_E

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A) — P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17 — C-ELS-200N1-09-L2-01 2C X 2.5 — ELS-200N1-09-L2-01 — 02

TYPE: L21E2 — P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND — ROSETTI MARINO

F.to UNI A3: 420mmx297mm

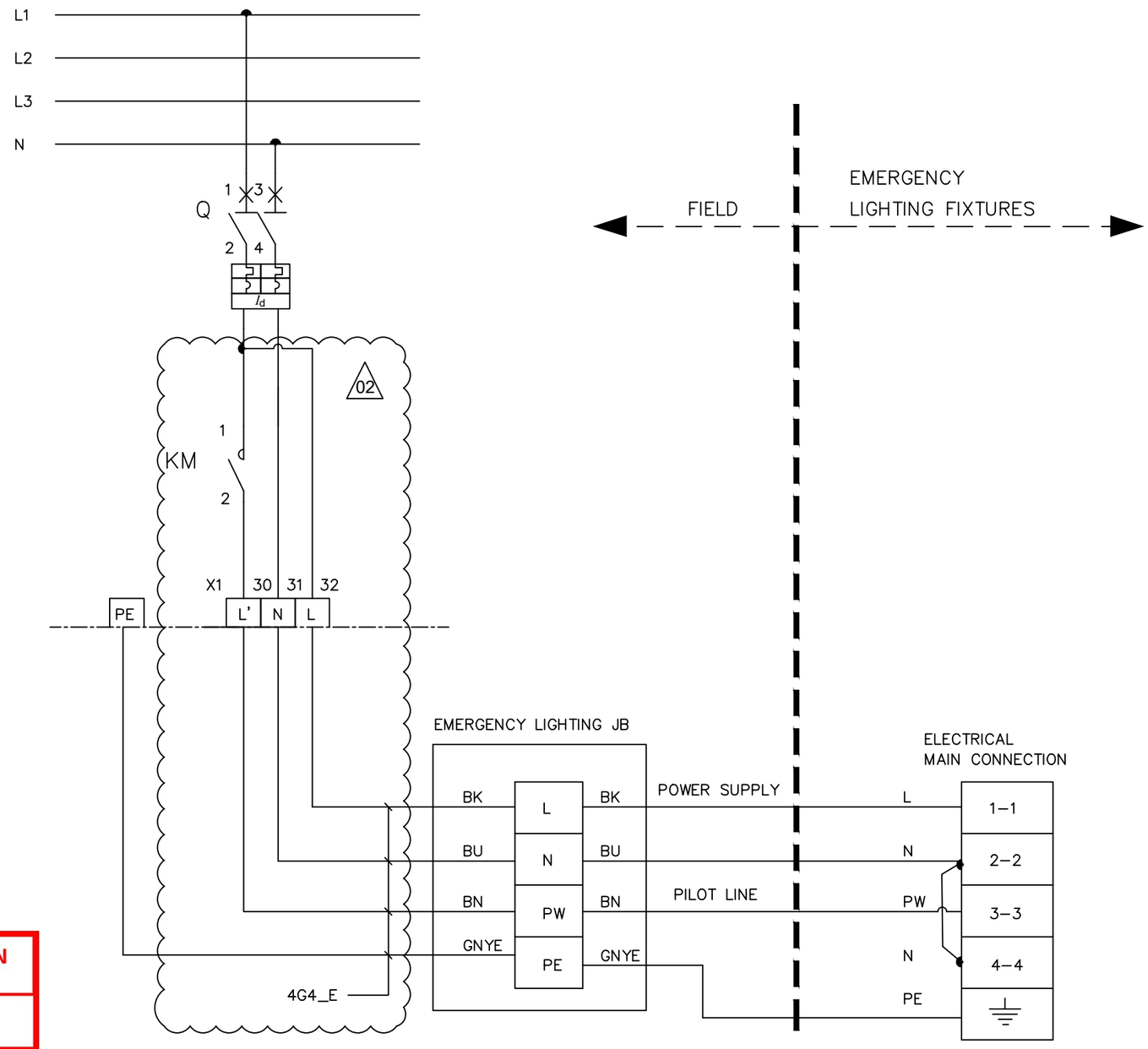
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DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

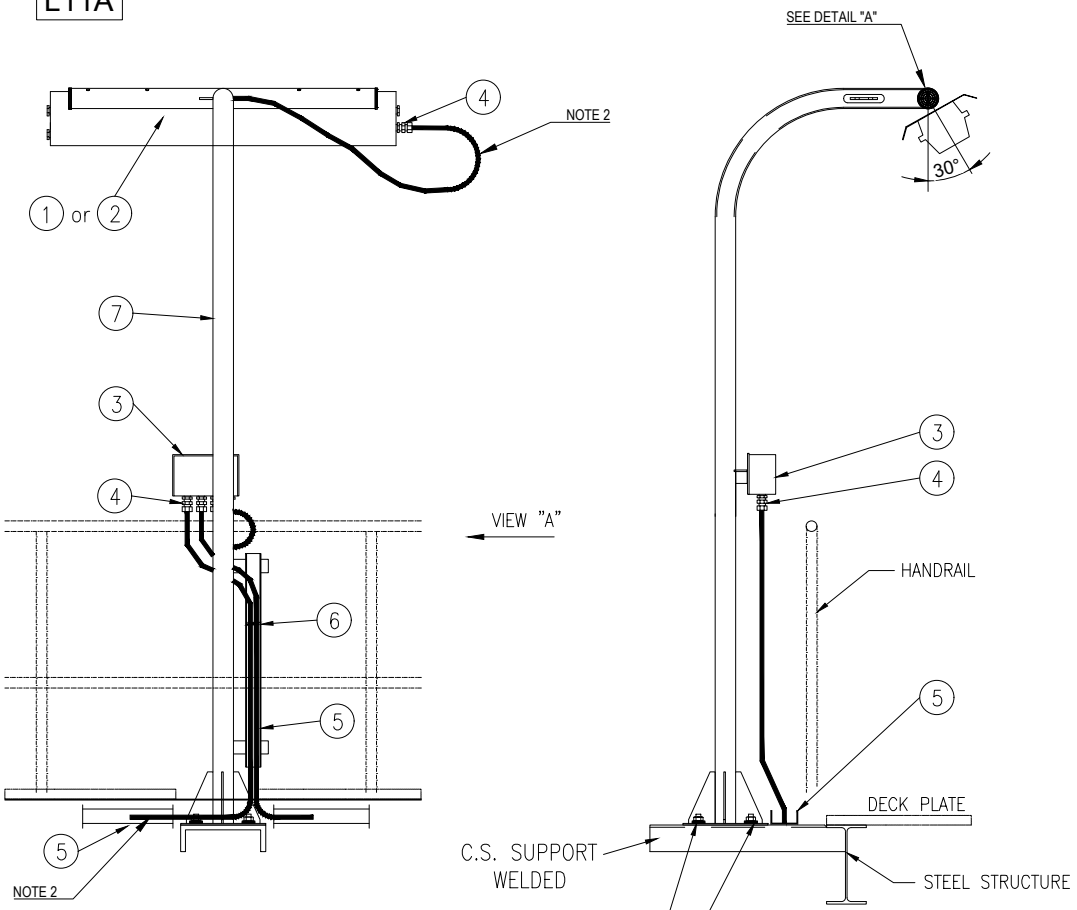
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

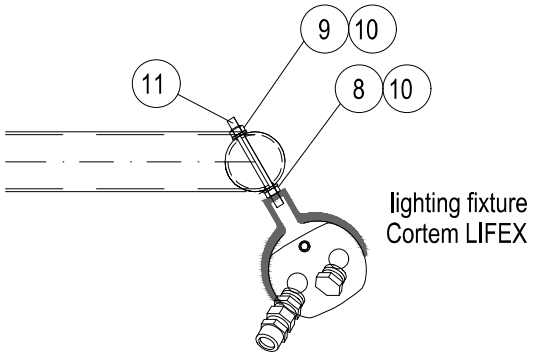
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L11A



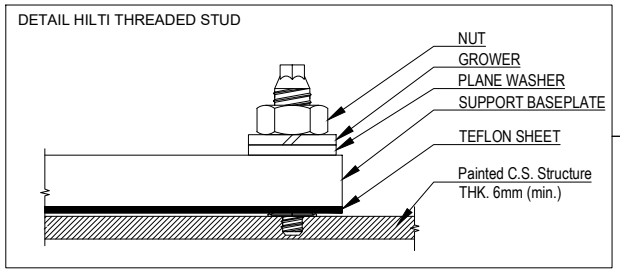
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

02

CROSSWIND

ROSETTI MARINO

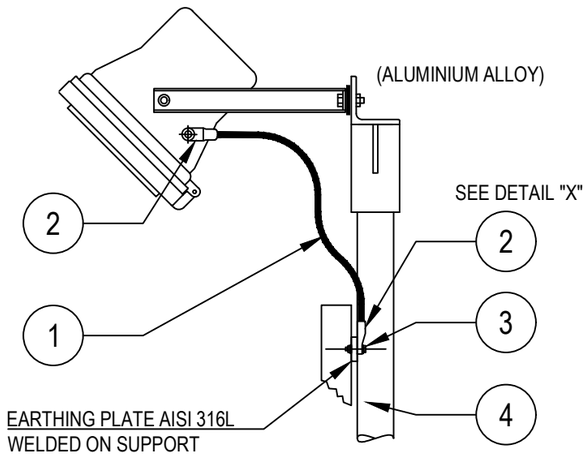
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

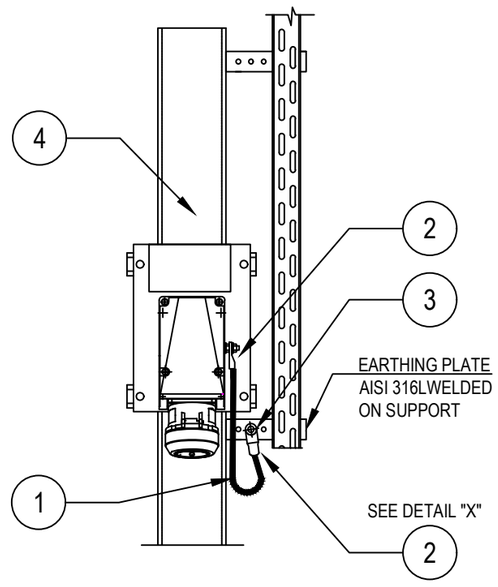
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

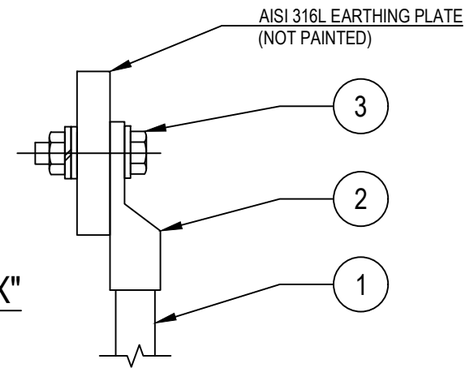
LIGHTING FIXTURE/GENERAL ITEM ON POLE



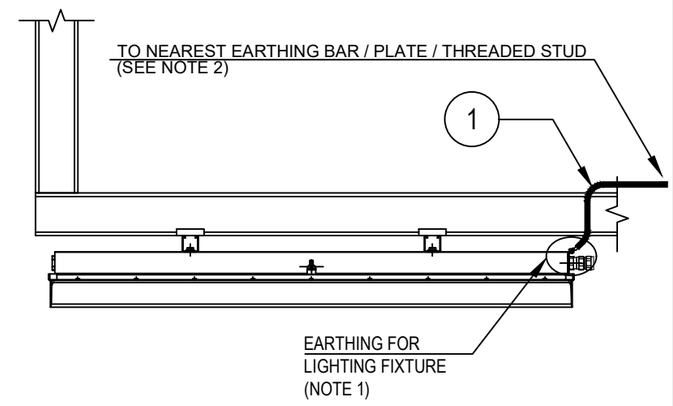
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

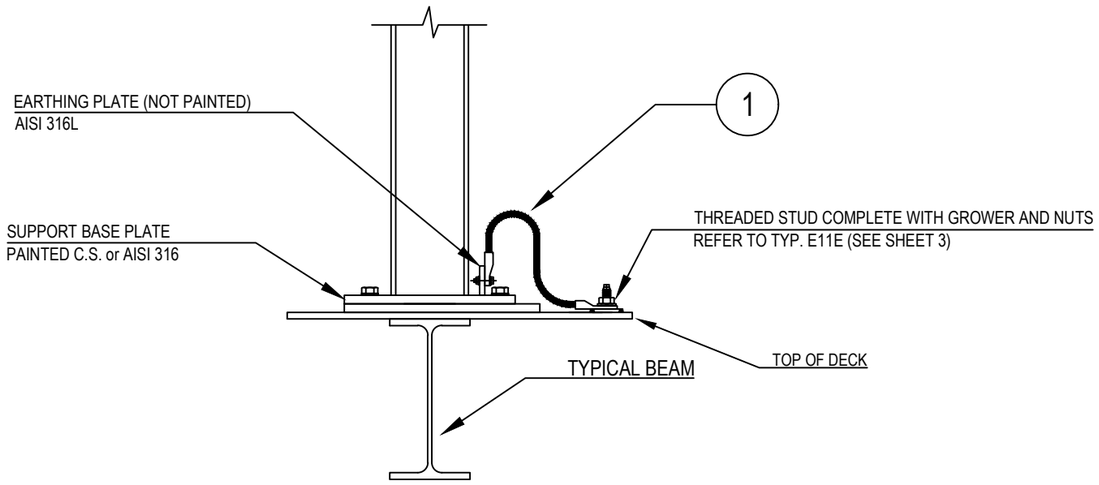
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

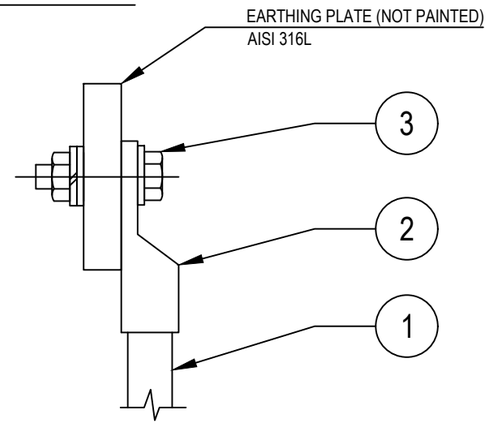
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

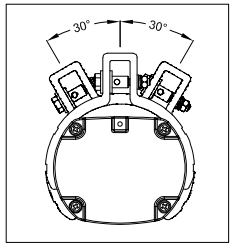
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

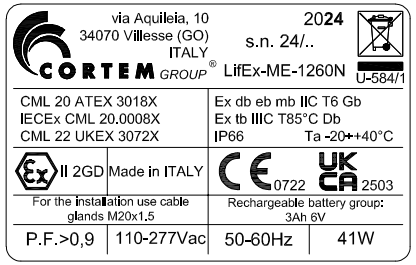
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



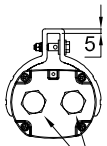
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

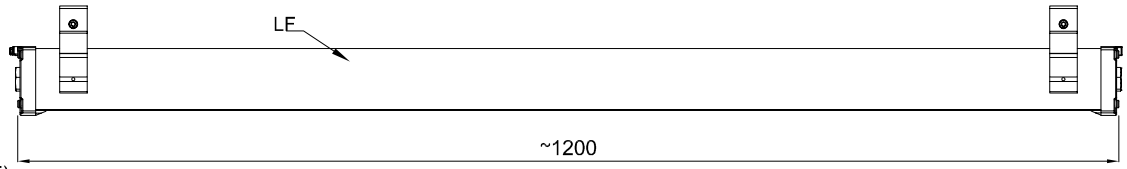
CERTIFICATE NAMEPLATE



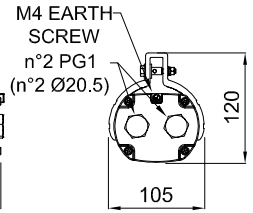
LEFT SIDE (OUT)



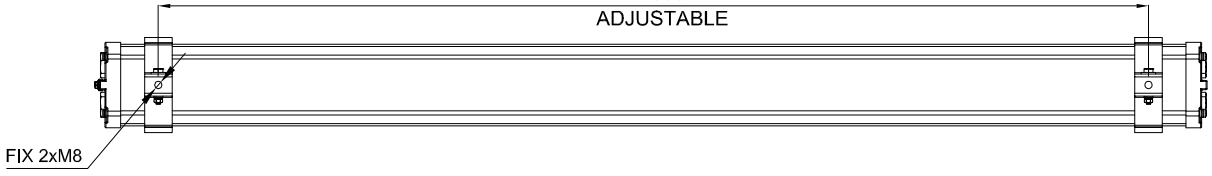
FRONT SIDE



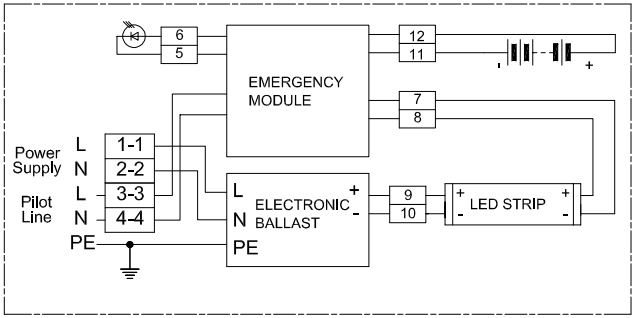
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-15	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001413		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

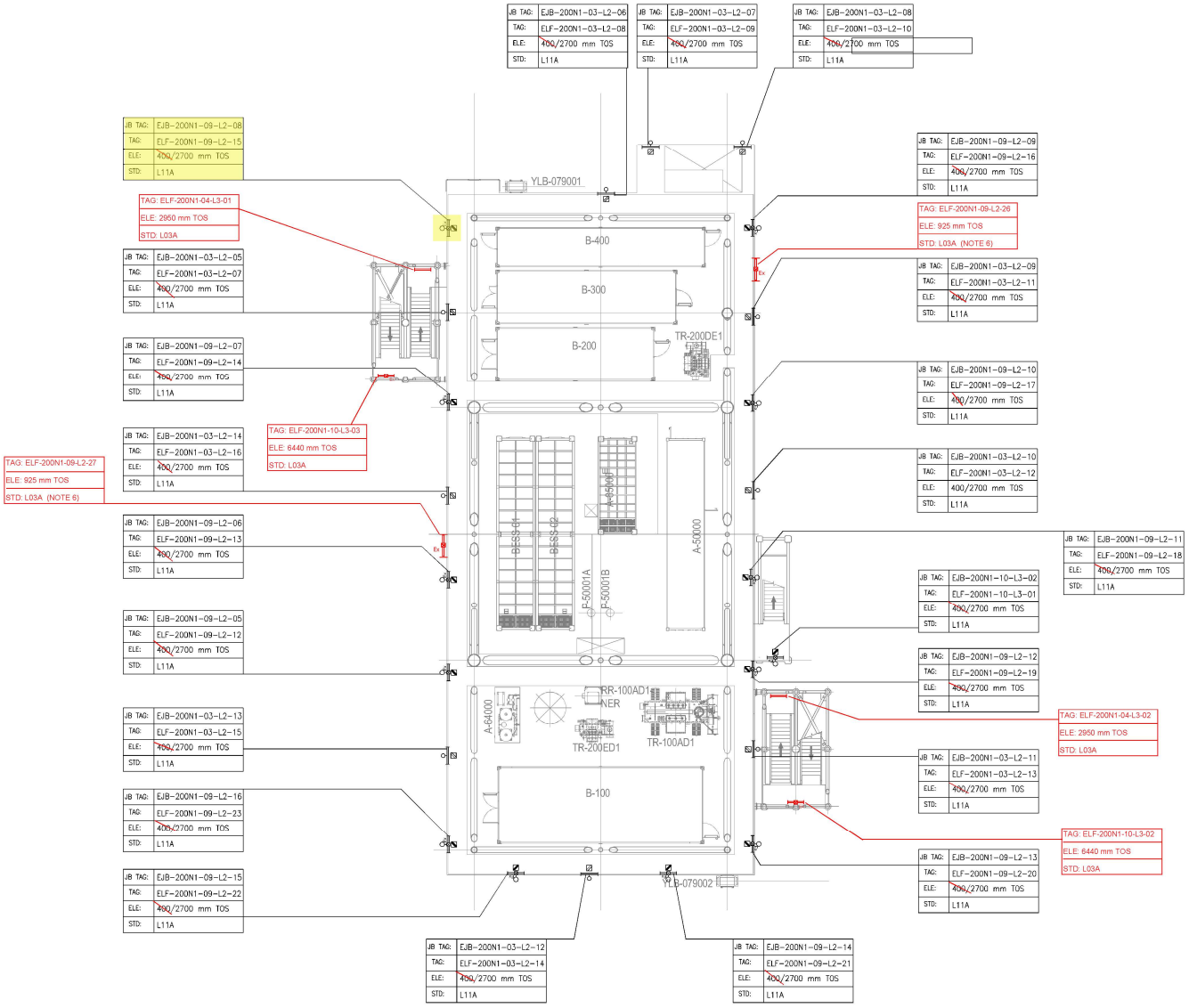
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	PL
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

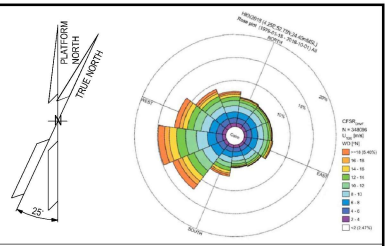
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Luca Mussi	
Date	2024-11-22	2024-12-04	
Signature	Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:29:11.247Z	Digitaly signed by Luca Mussi 2024-12-04T12:50:12.071Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 80W LED EMERGENCY LUMINARIES
- 80W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2
- P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01
- P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10

P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2
- P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06
- P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04
- P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07
- TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005

P-EJB-200N1-09-L2-02 4G4_E

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09
- P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08
- P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03
- P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05

P-EJB-200N1-09-L2-12 4G4_E

P-EJB-200N1-09-L2-07 4G4_E

P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2
- P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14

P-EJB-200N1-09-L2-06 4G4_E

P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2
- P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2
- P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13
- P-ELF-200N1-09-L2-27 4G2.5_E → ELF-200N1-09-L2-27

P-EJB-200N1-09-L2-05 4G4_E

EJB-200N1-09-L2-05 — TYPE: L21E2
- P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12

P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2
- P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23

P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2
- P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-14 — TYPE: L21E2
- P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21

P-EJB-200N1-09-L2-12 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2
- P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19

P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2
- P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18

P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2
- P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17

P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2
- P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16
- P-ELF-200N1-09-L2-26 4G2.5_E → ELF-200N1-09-L2-26

P-EJB-200N1-09-L2-13 4G4_E

EJB-200N1-09-L2-13 — TYPE: L21E2
- P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)

P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17
C-ELS-200N1-09-L2-01 2C X 2.5 → ELS-200N1-09-L2-01 (02)

P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND

ROSETTI MARINO

File Name : 123A90-DDL-EL-DG-20125

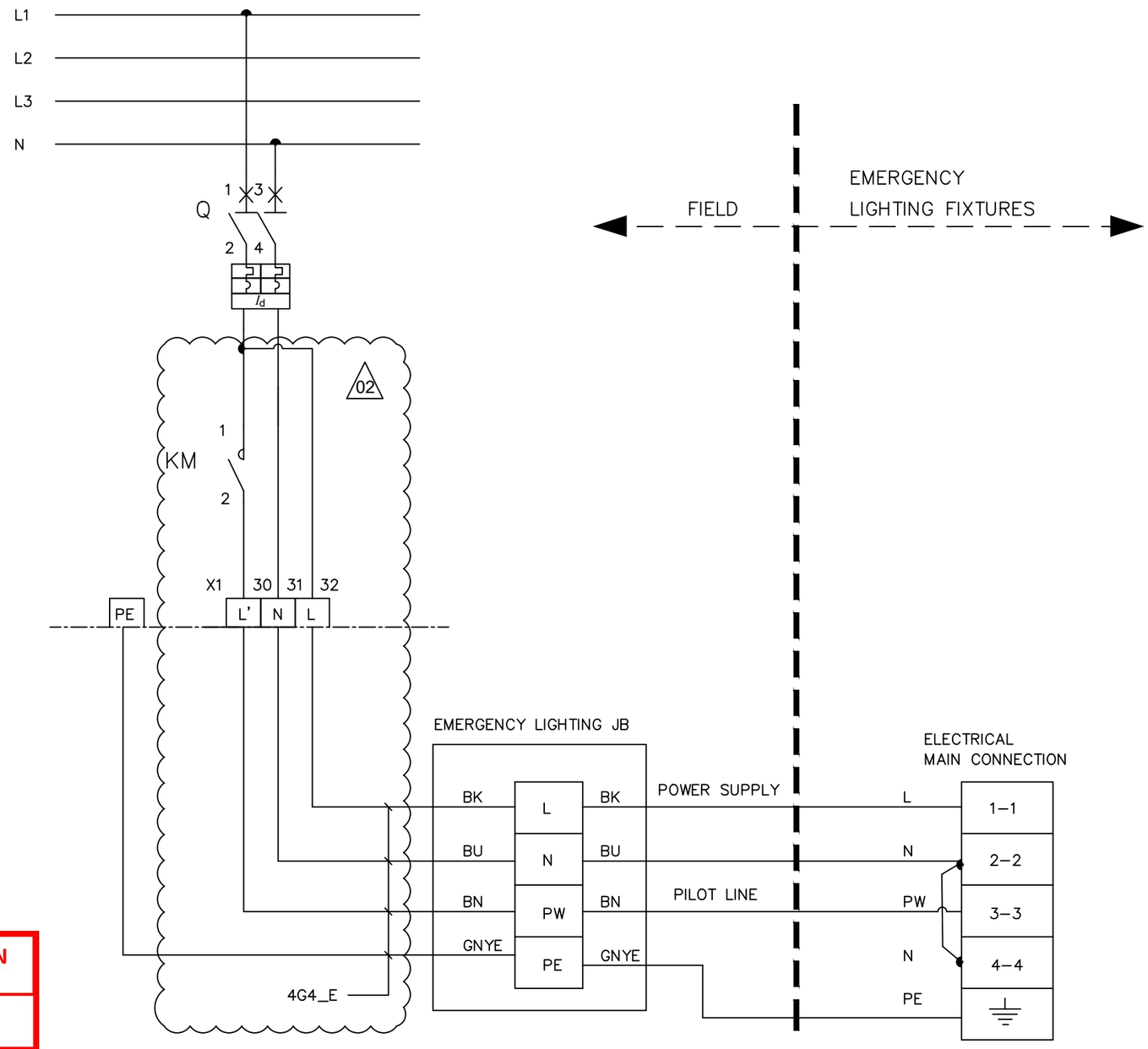
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

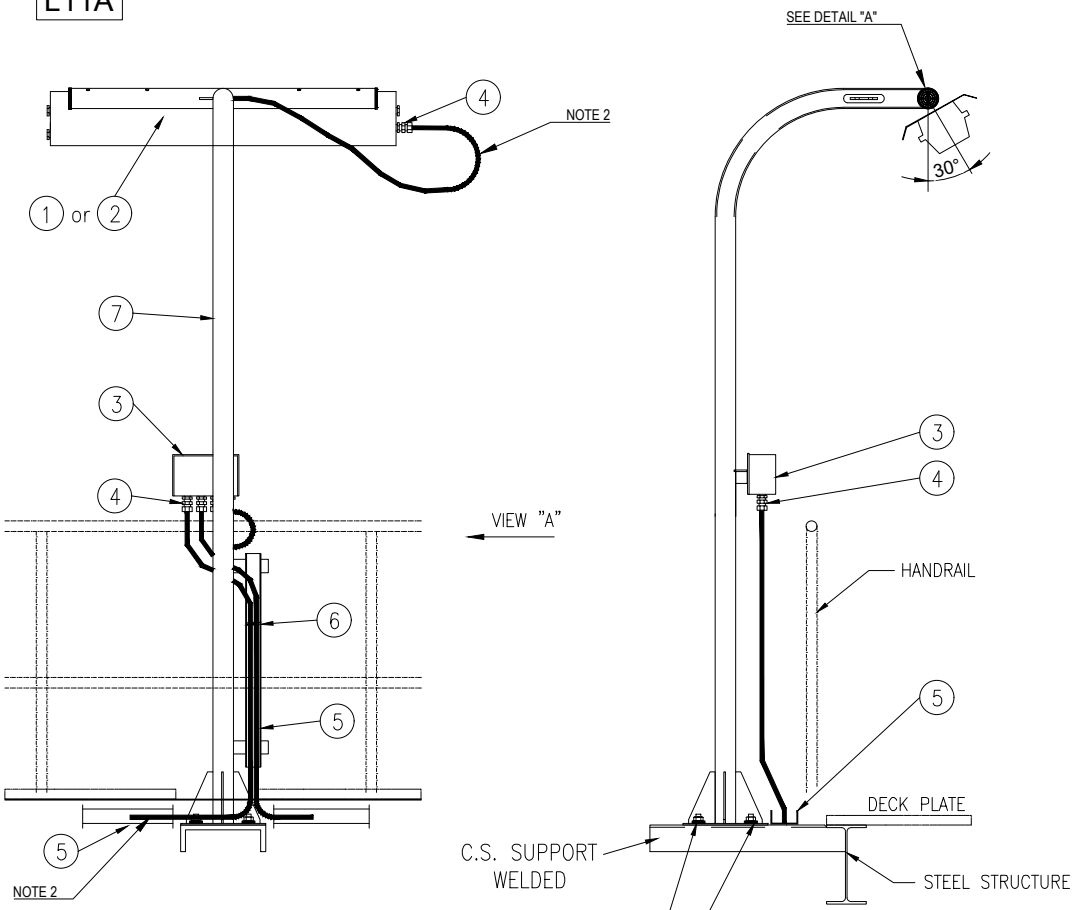
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

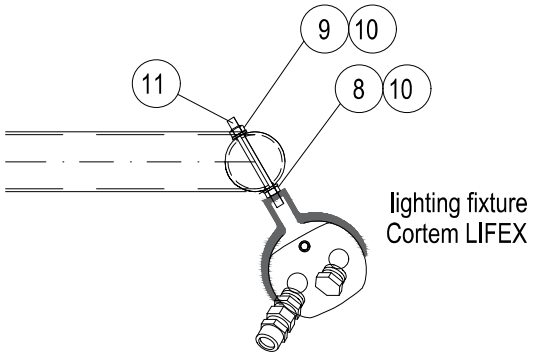
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L11A



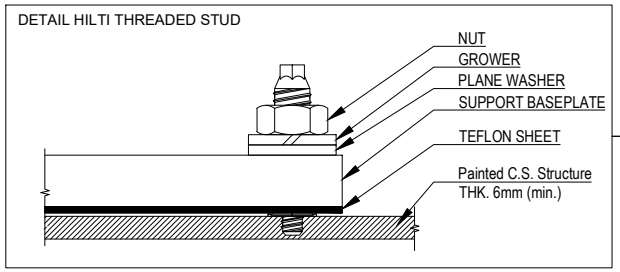
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

02

CROSSWIND

ROSETTI MARINO

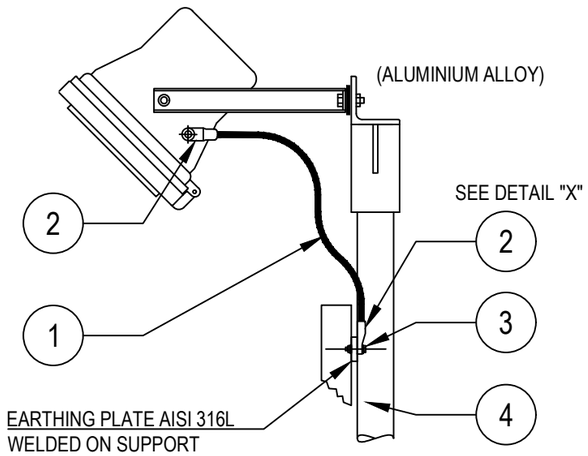
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

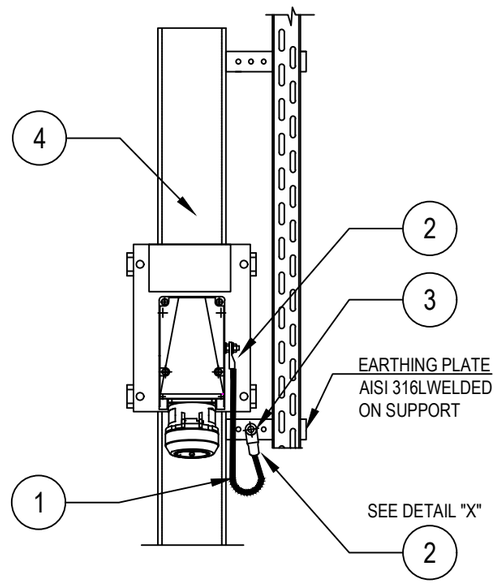
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

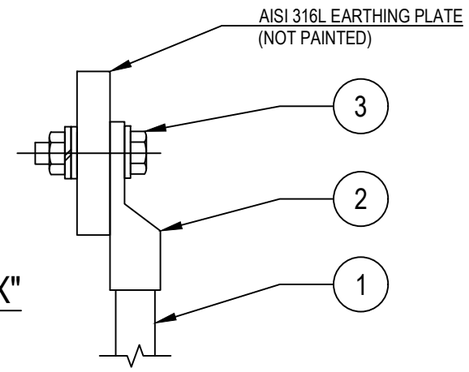
LIGHTING FIXTURE/GENERAL ITEM ON POLE



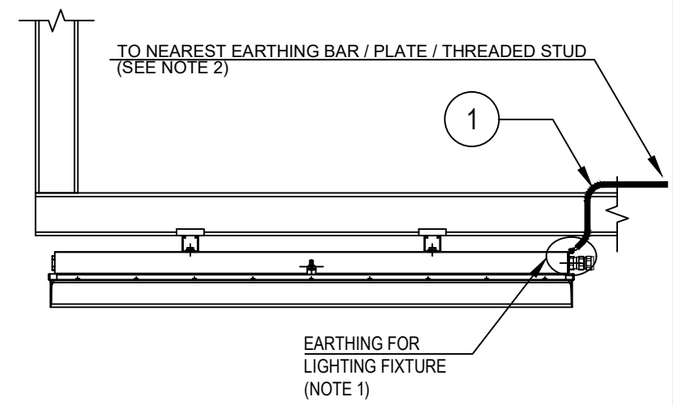
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

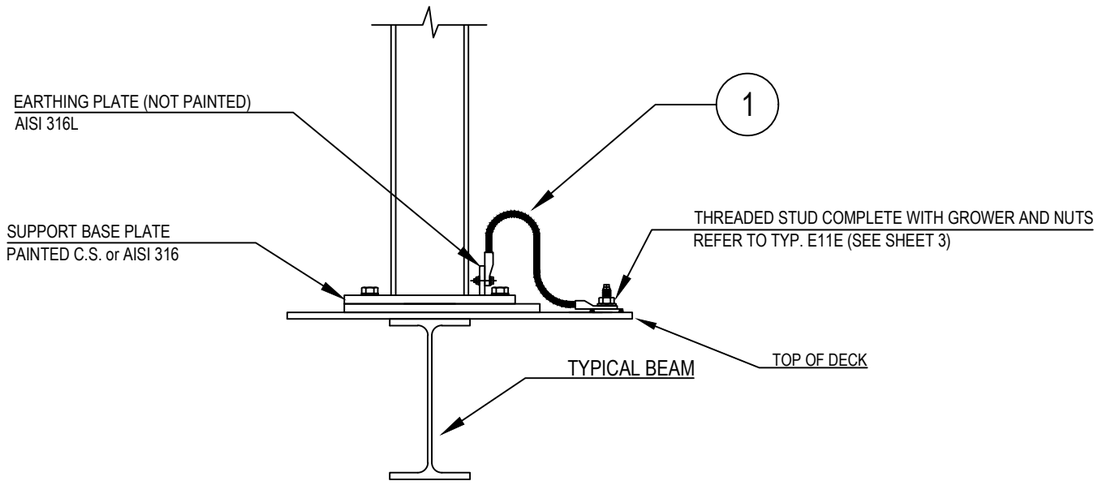
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

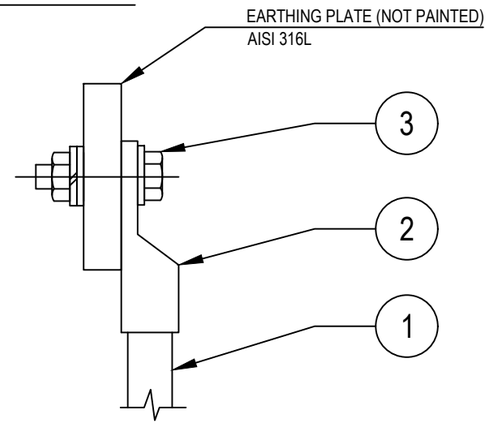
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

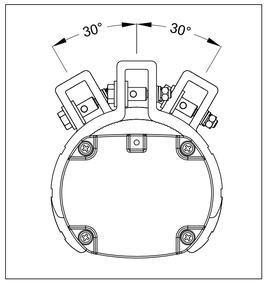
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

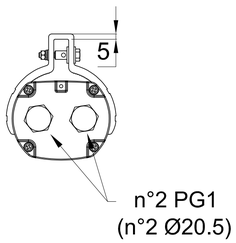
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



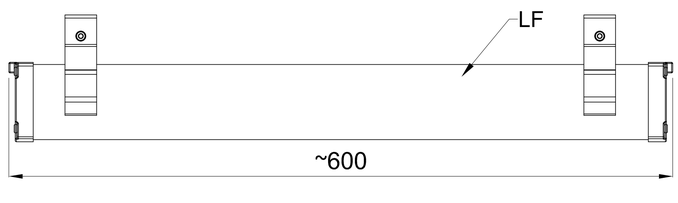
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

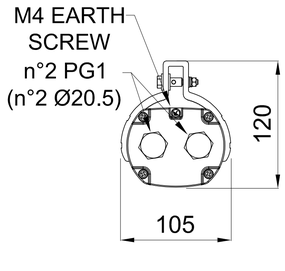
LEFT SIDE (OUT)



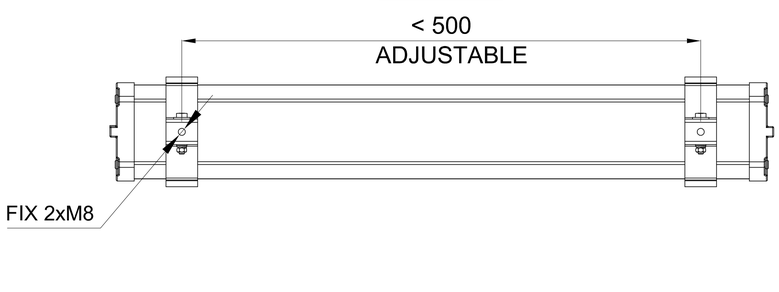
FRONT SIDE



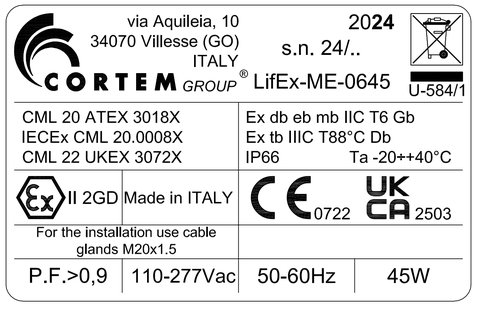
RIGHT SIDE (IN)



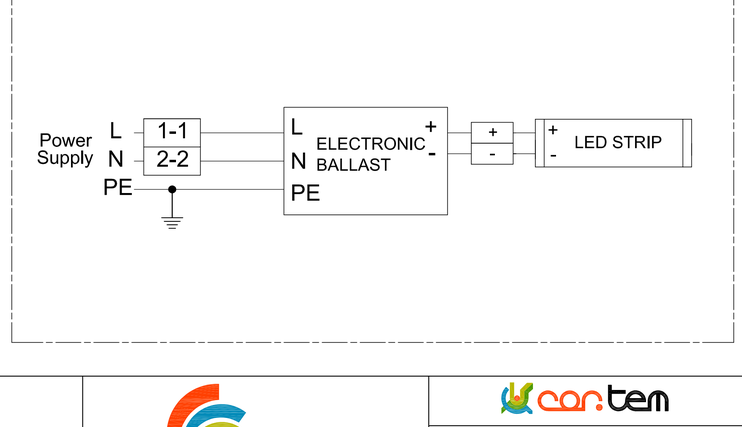
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 1 / TOT. 2

NEXT 2

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AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-10	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001414		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

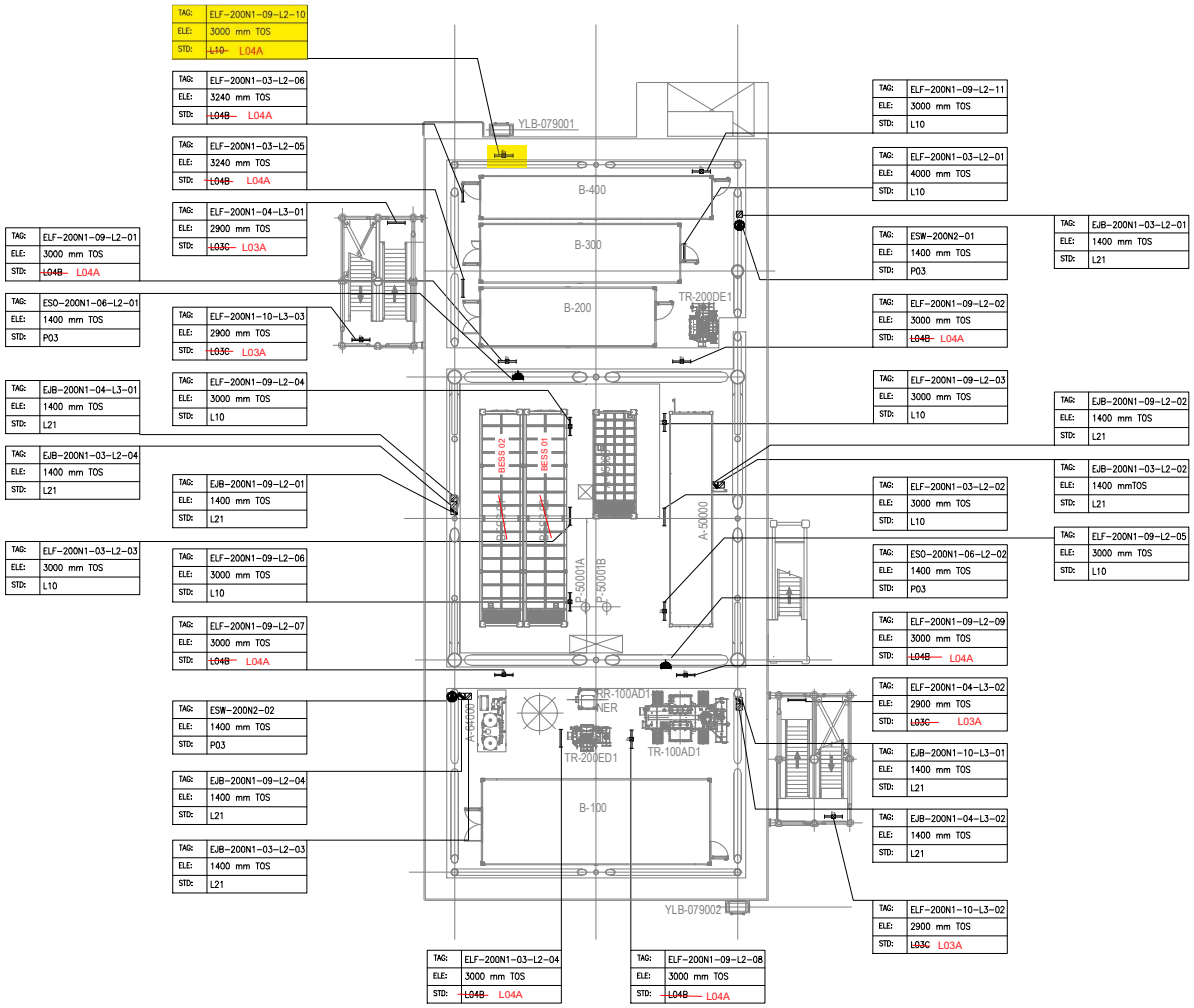
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	PL
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

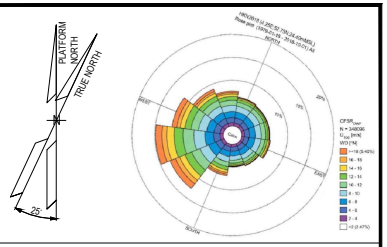
	Performed by	☉ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Luca Mussi	
Date	2025-01-08	2025-01-16	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-08T10:19:40.574Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-16T17:00:44.744Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

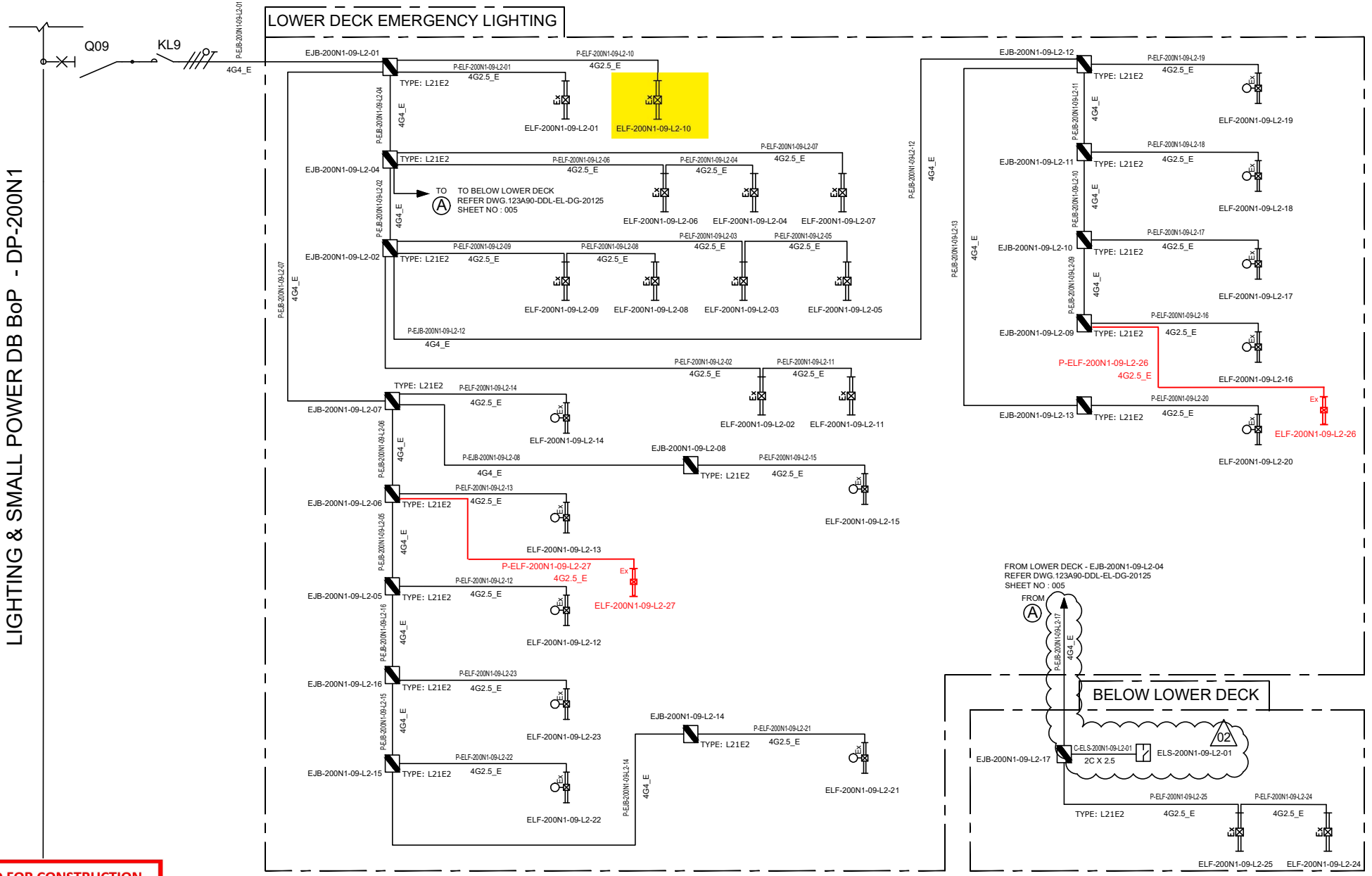
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

F.to UNI A3: 420mmx297mm

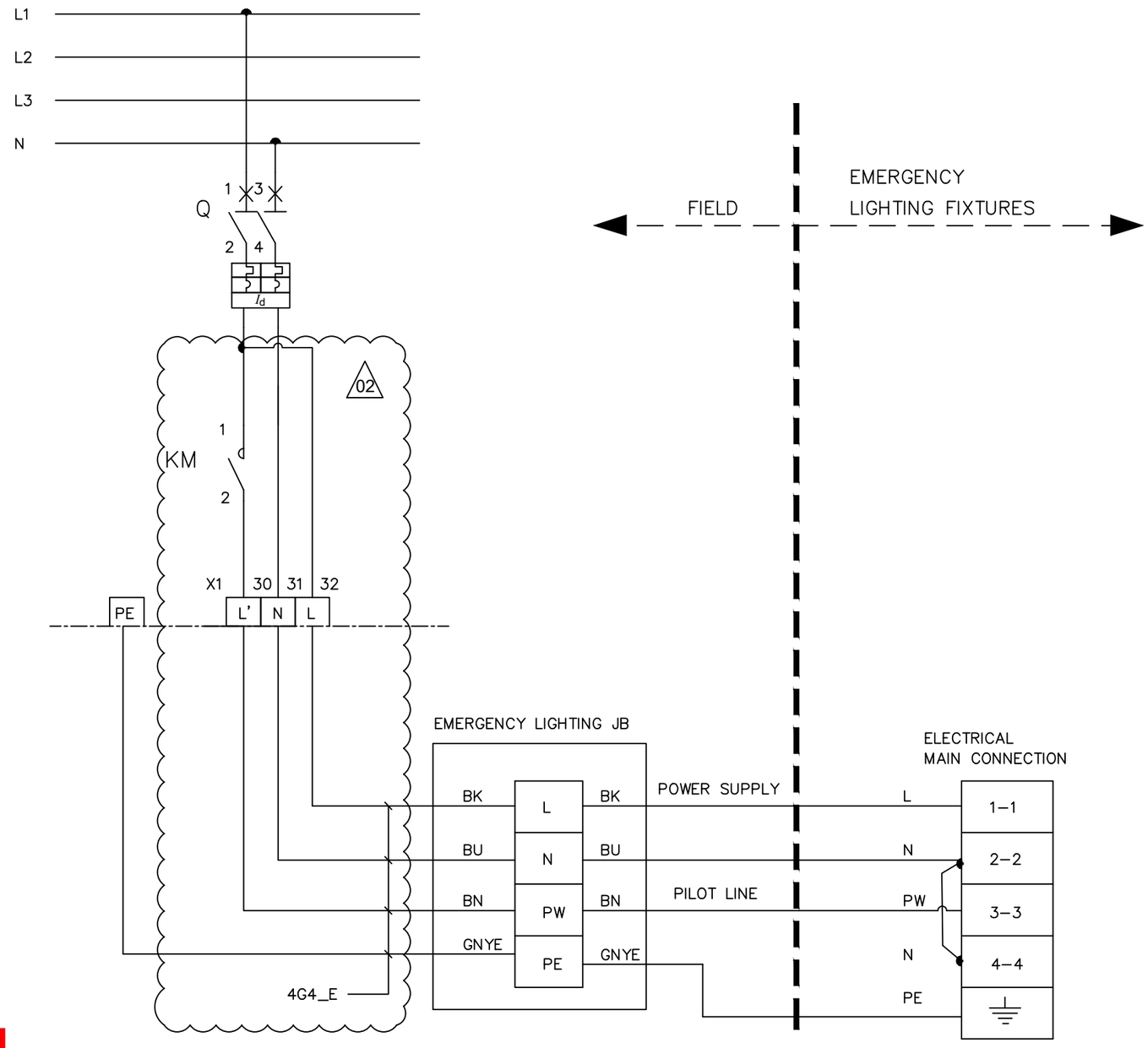
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

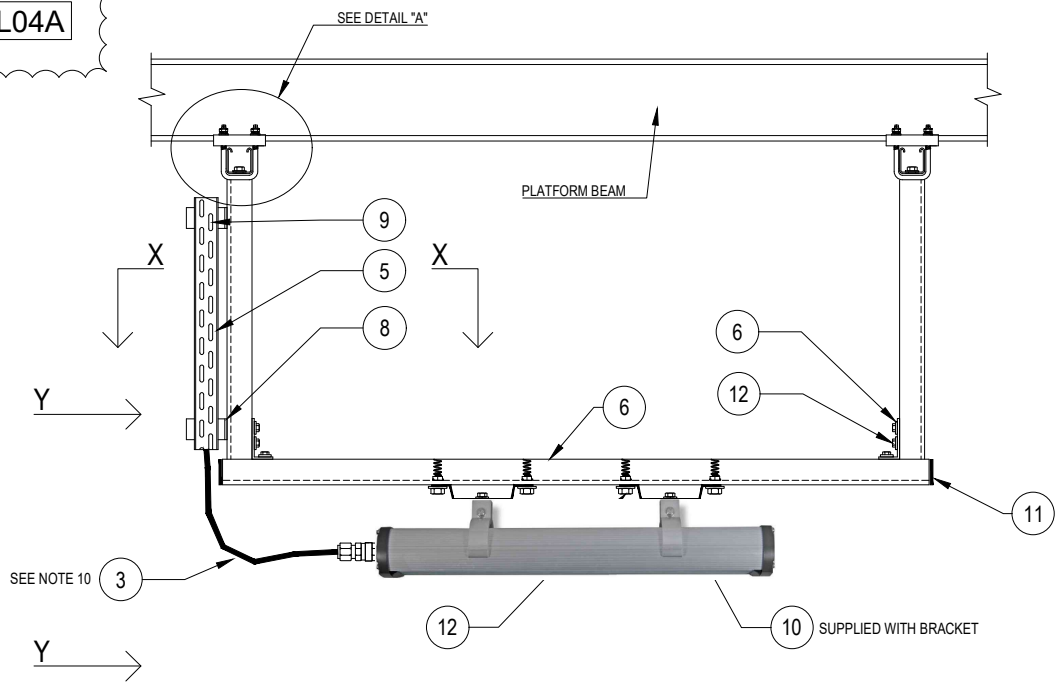
SHEET 014

REV. 02

F.to UNI A3: 420mmx297mm

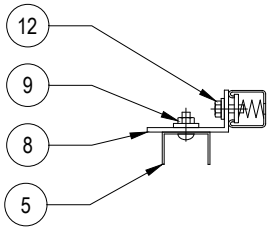
File Name : 123A90–DDL–EL–DG–20125

L04A

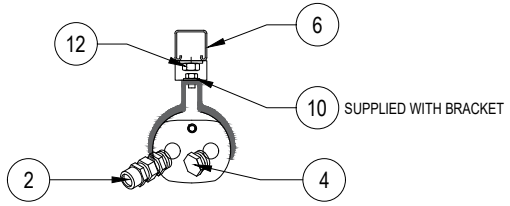


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE LADDER OR PERFORATED TRAY	AISI 316L		AS REQ.	
6	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		2	NOTE 4
8	PLATE FOR ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLES)	LPDE		4	
9	ROUND HEAD SCREW WITH SQUARE NECK COMPLETE WITH PLANE WASHER, SPRING WASHER AND NUT	AISI 316L			
10	HEX. BOLT M8X16 WITH LARGE PLANE WASHER	AISI 316L		2	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	HEX. BOLT M10X30 WITH PLANE WASHER, NUT FOR U-CHANNEL AND SPRING	AISI 316L		2	

SECTION "X-X"

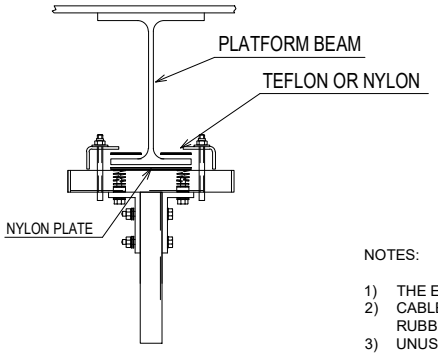


SECTION "Y-Y"

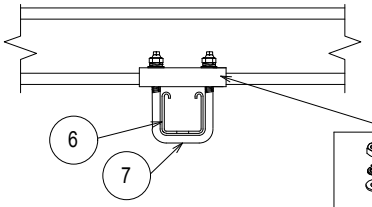


lighting fixture
Cortem LIFEX

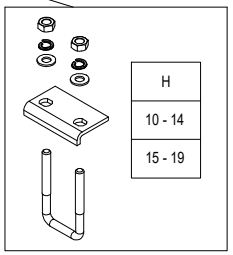
02



DETAIL "A"



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH U–CHANNEL SUPP.

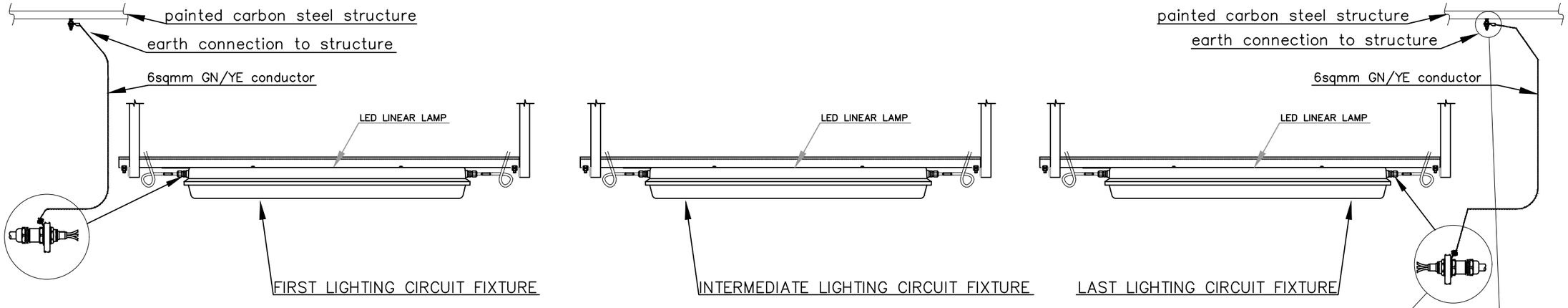
CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 006 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

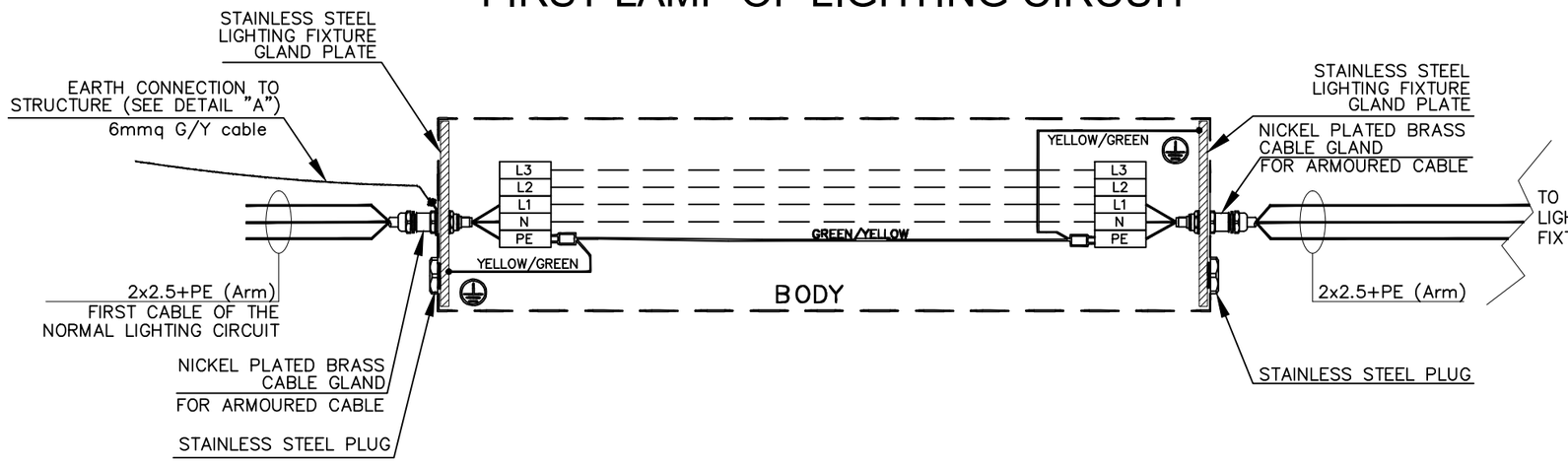


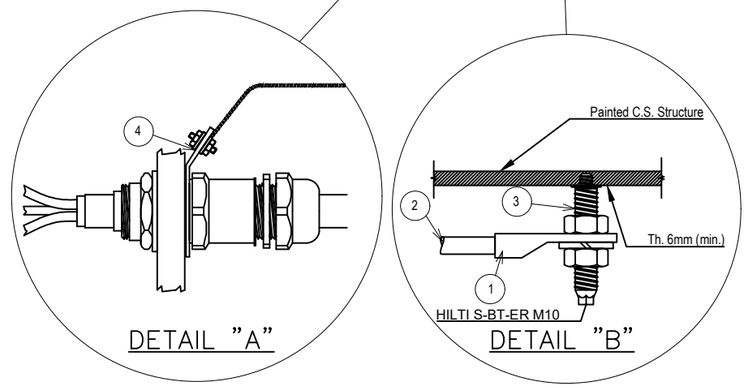
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

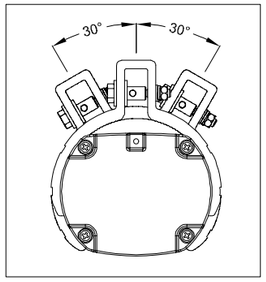
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

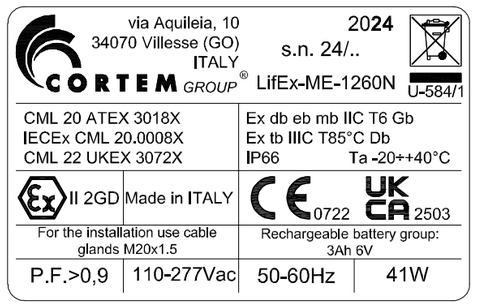
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



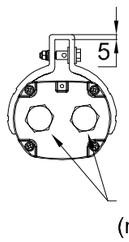
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

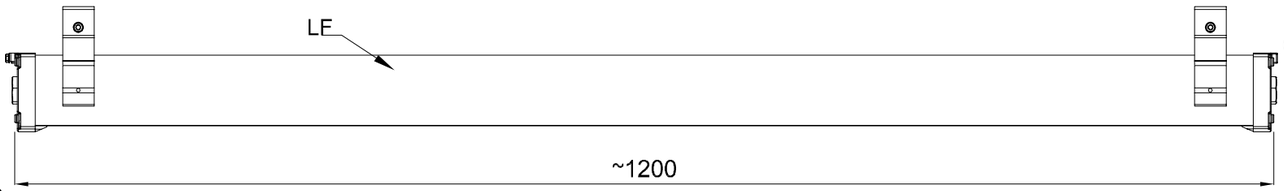
CERTIFICATE NAMEPLATE



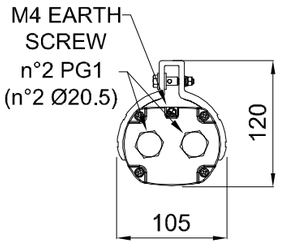
LEFT SIDE (OUT)



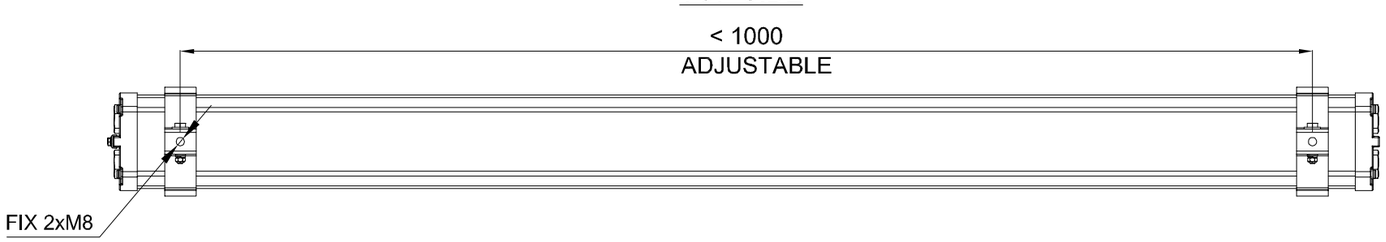
FRONT SIDE



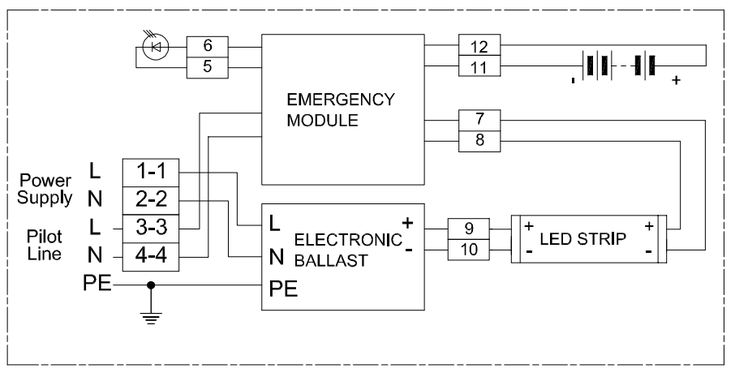
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTAROLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 2
NEXT: /
TOT.: 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-11	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001415		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

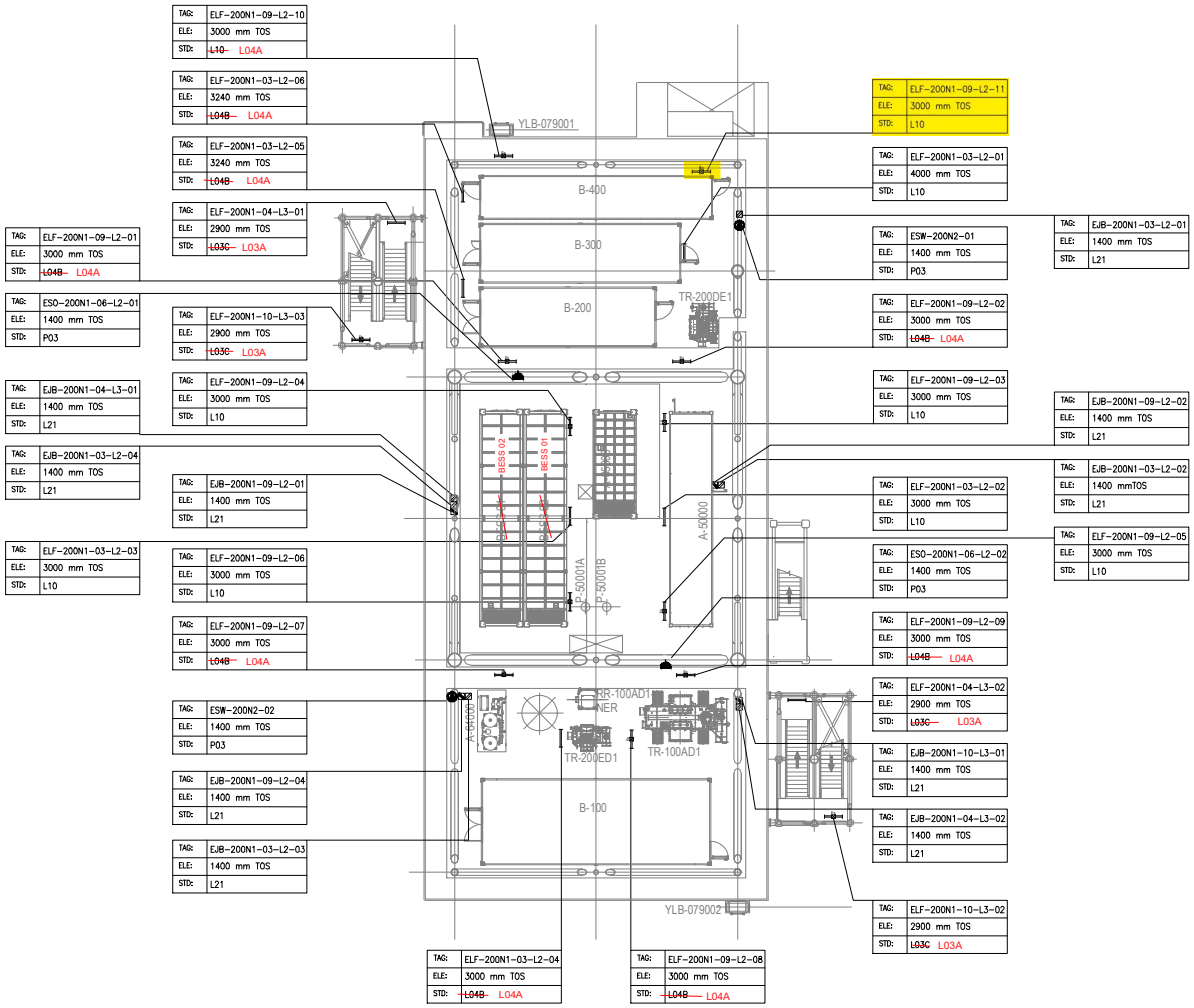
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

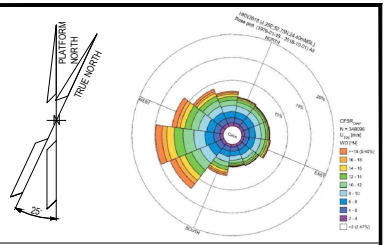
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM (ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-12	2024-12-17	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-12T16:30:20.821Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-17T10:58:26.628Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

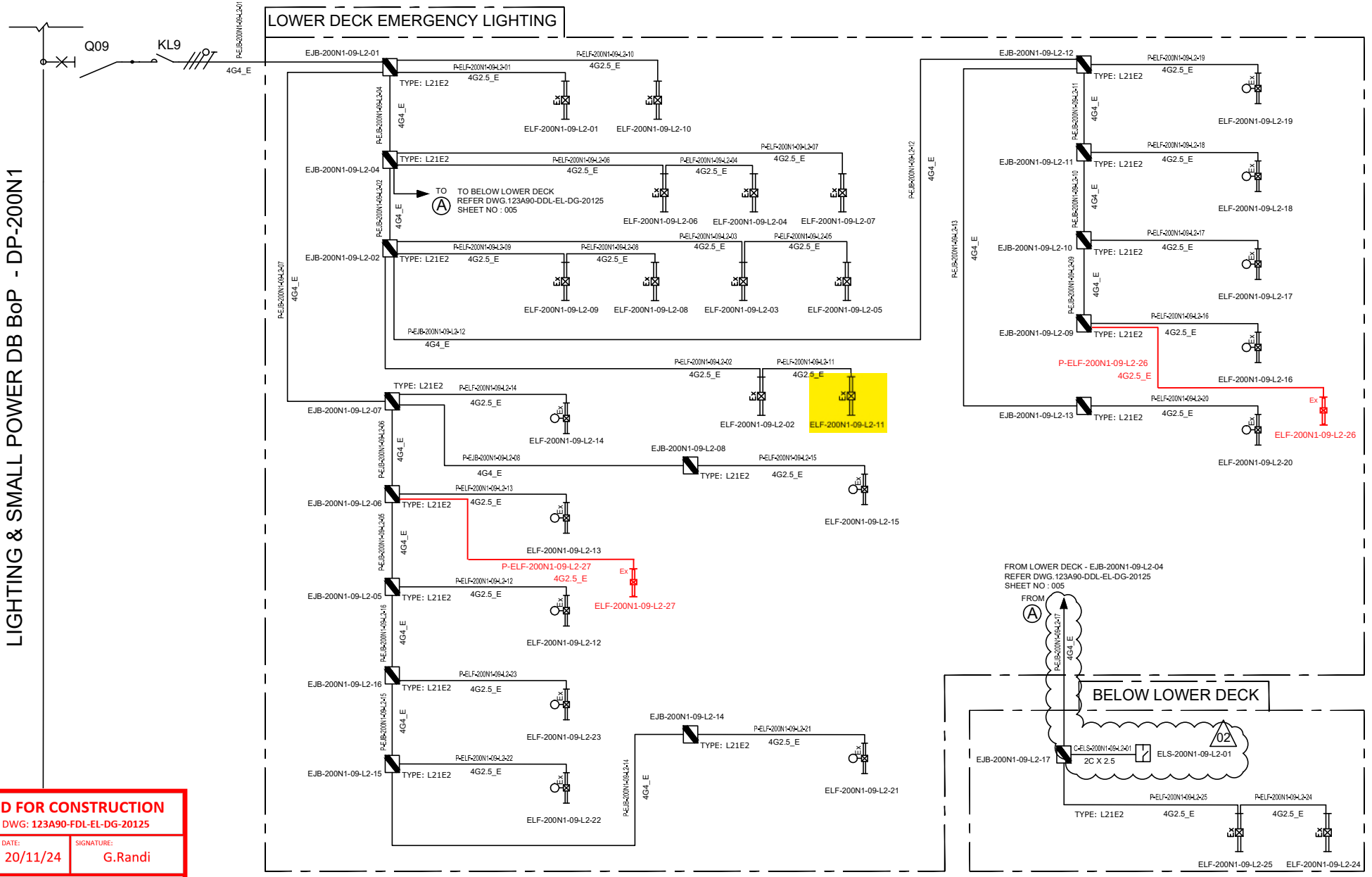
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

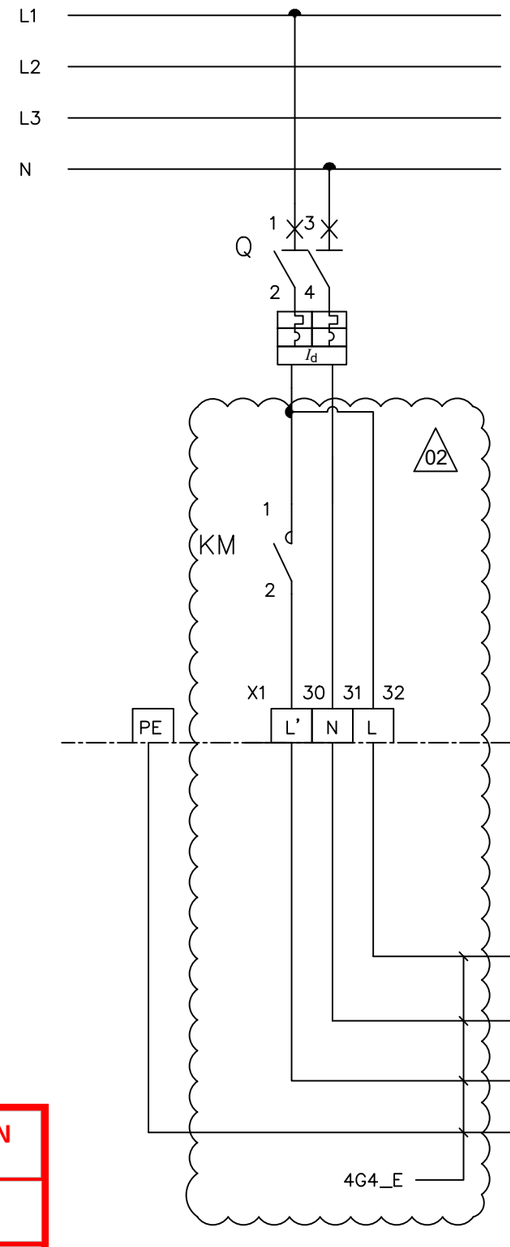
ROSETTI MARINO

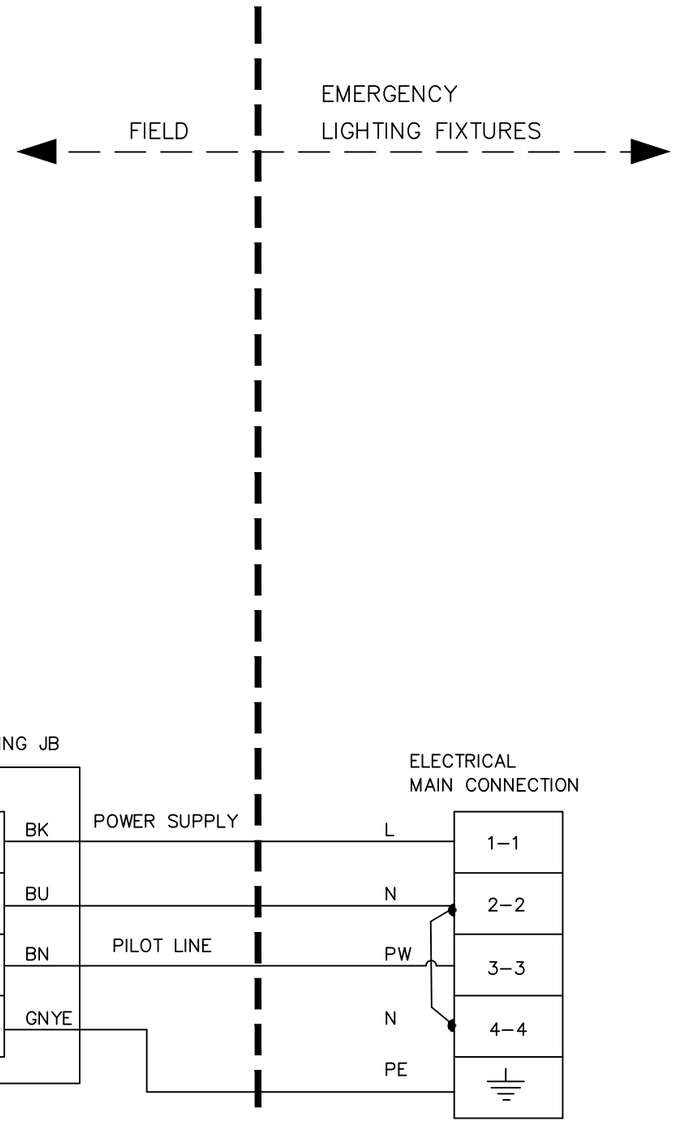
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz





L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

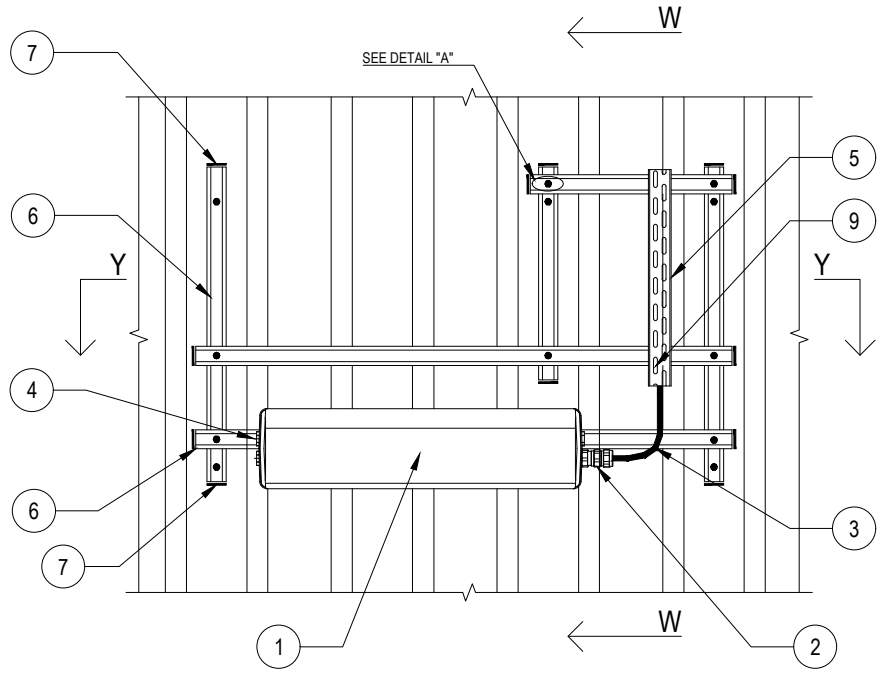
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

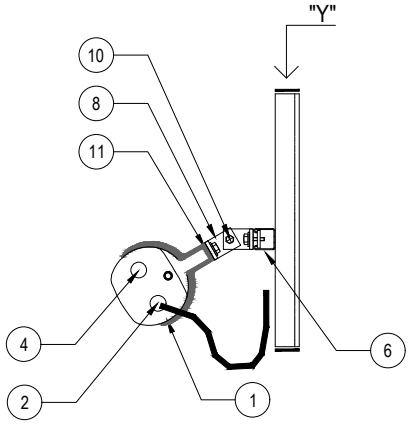
File Name : 123A90–DDL–EL–DG–20125

L10

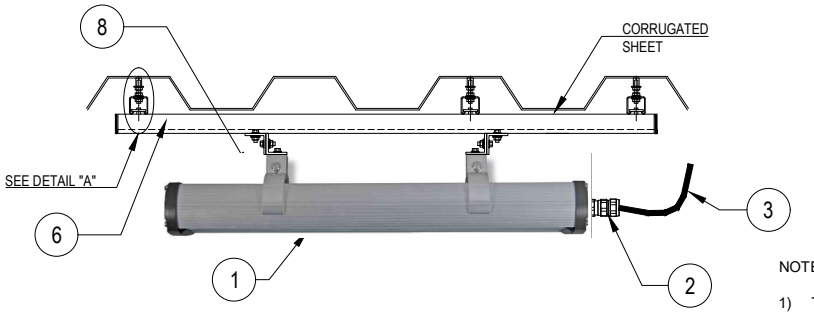


02

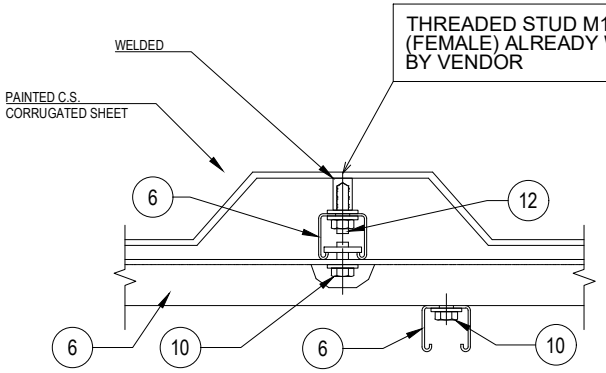
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		AS REQ.	NOTE 2 NOTE 4
3	ARMOURED/UNARMOURED CABLE				NOTE 4
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
5	CABLE TRAY	AISI 316L			
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L	41x41x2		NOTE 1
7	PLUG FOR U-CHANNEL	LPDE		AS REQ.	
8	ANGLE PLATE FOR ORTOGONAL-TRASV. CONNECTION WITH NO. 2 HOLES FOR UNISTRUT PROFILE 41x41x2X2	AISI 316L		4	
9	DOUBLE SLOT CROWNED HEAD SCREW WITH NUT FOR CHANNEL WITH SPRING	AISI 316L	M6x20		
10	HEX. BOLT WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10x30	4	
11	HEX. BOLT WITH PLANE WASHER	AISI 316L	M8x16	2	
12	THREADED ROD COMPLETE WITH PLANE WASHER, LARGE PLANE WASHERS, SPRING WASHER AND NUTS	AISI 316L	M10x110		



SECTION "W-W"



SECTION "Y-Y"



DETAIL "A"

NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON WALL WITH U-CHANNEL

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 012 | REV. 02

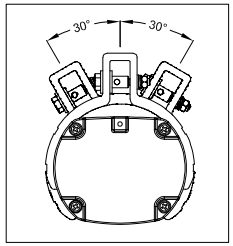
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

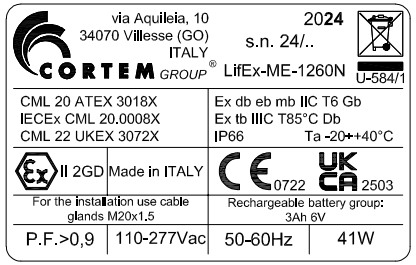
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



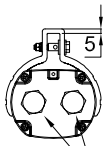
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

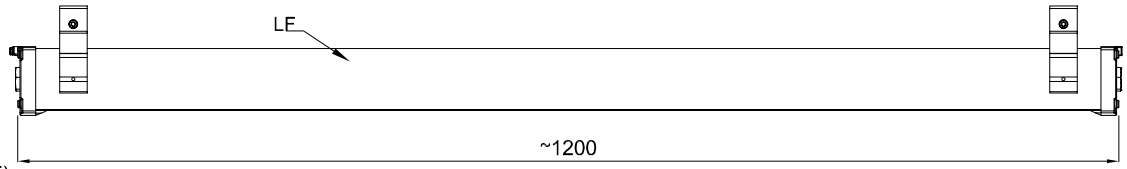
CERTIFICATE NAMEPLATE



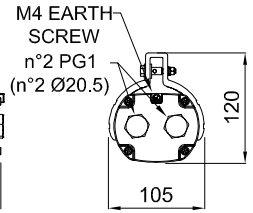
LEFT SIDE (OUT)



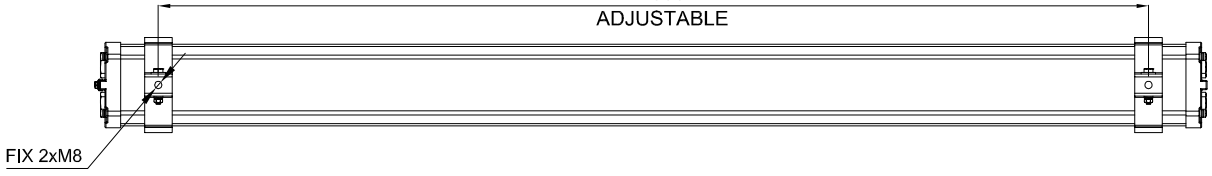
FRONT SIDE



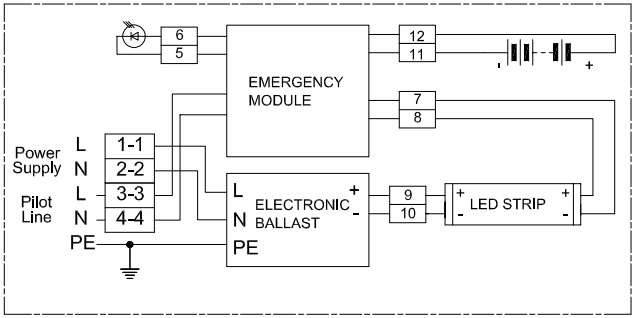
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-16	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001416		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

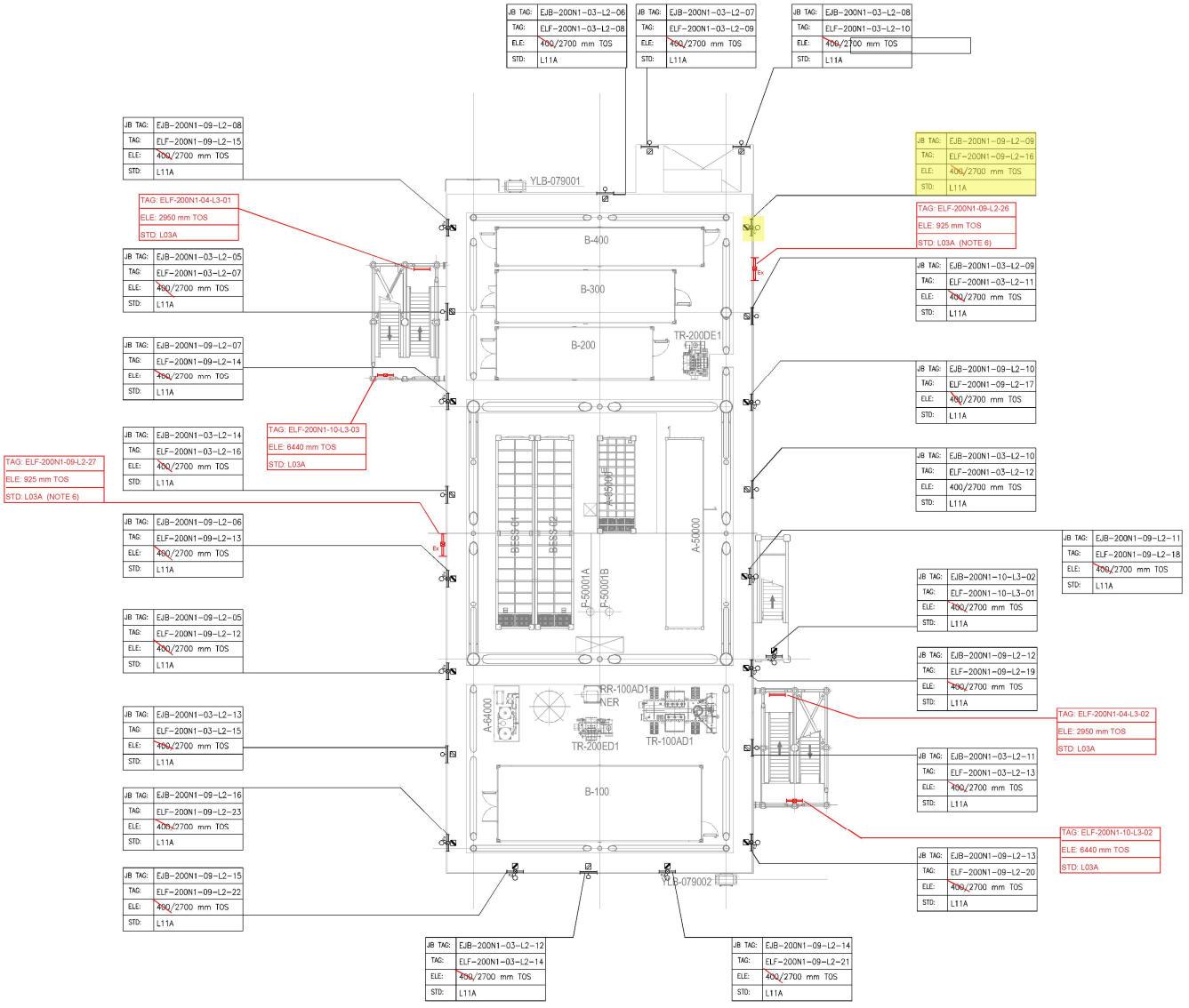
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	PL
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

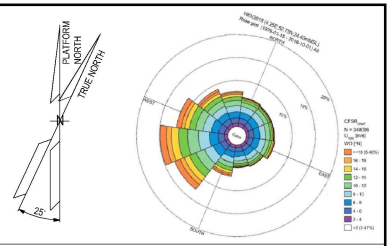
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Carmelo Bongiovanni	Luca Mussi	
Date	2024-11-22	2024-12-04	
Signature	PROVERLIS Digitaly signed by Carmelo Bongiovanni 2024-11-22T17:29:21.236Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-04T13:08:29.359Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 80W LED EMERGENCY LUMINARIES
- 80W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2
P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
P-EJB-200N1-09-L2-02 4G4_E

EJB-200N1-09-L2-02 — TYPE: L21E2
P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-12 4G4_E
P-EJB-200N1-09-L2-07 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2
P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2
P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2
P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2
P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — ELF-200N1-09-L2-26
P-EJB-200N1-09-L2-13 4G4_E

EJB-200N1-09-L2-13 — TYPE: L21E2
P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20

P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2
P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2
P-EJB-200N1-09-L2-08 4G4_E
P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2
P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-ELF-200N1-09-L2-27 4G2.5_E — ELF-200N1-09-L2-27
P-EJB-200N1-09-L2-05 4G4_E

EJB-200N1-09-L2-05 — TYPE: L21E2
P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2
P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2
P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22
P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-14 — TYPE: L21E2
P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)
P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17
C-ELS-200N1-09-L2-01 2C X 2.5
02 ELS-200N1-09-L2-01

P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND — ROSETTI MARINO

File Name : 123A90-DDL-EL-DG-20125

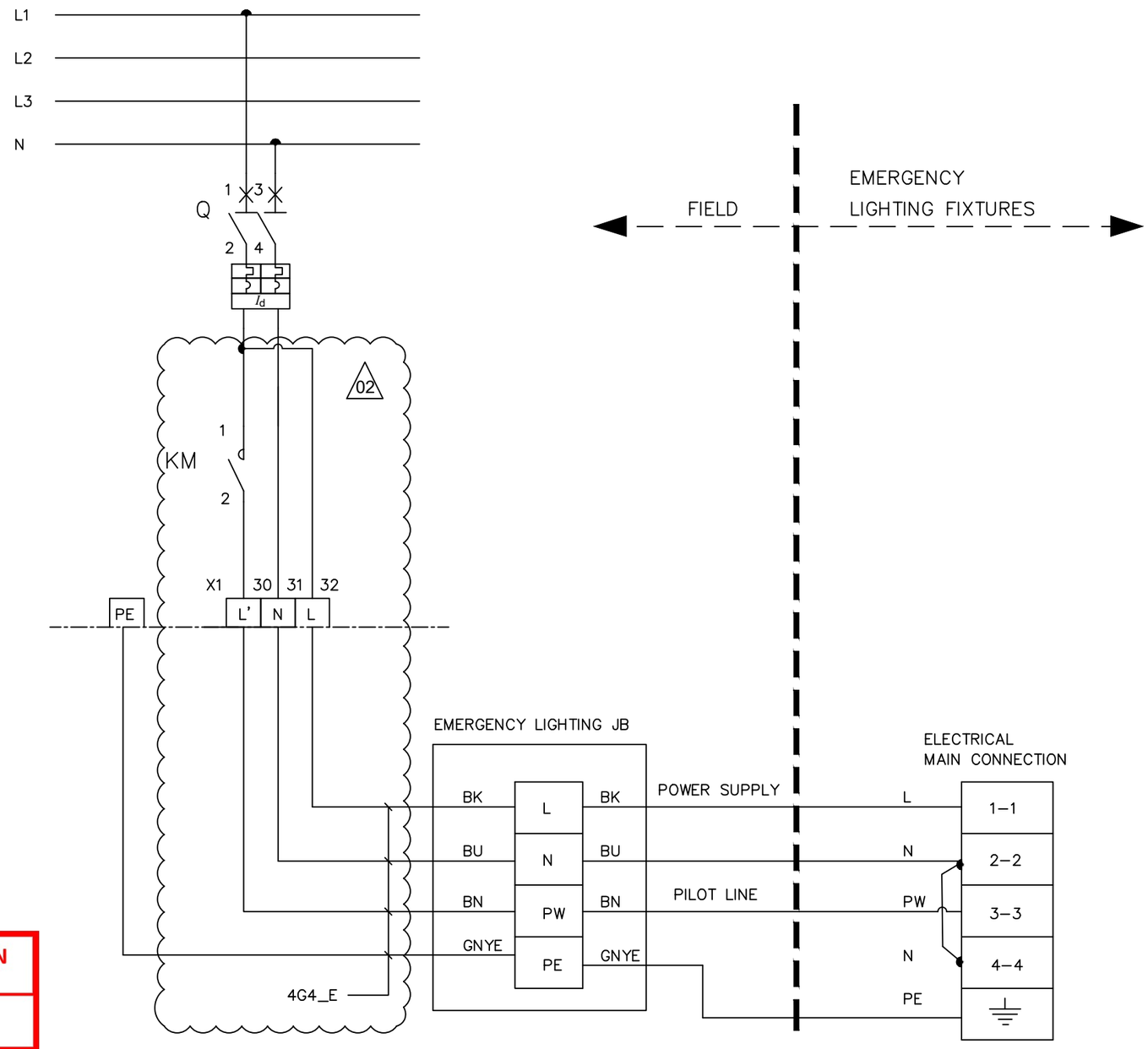
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

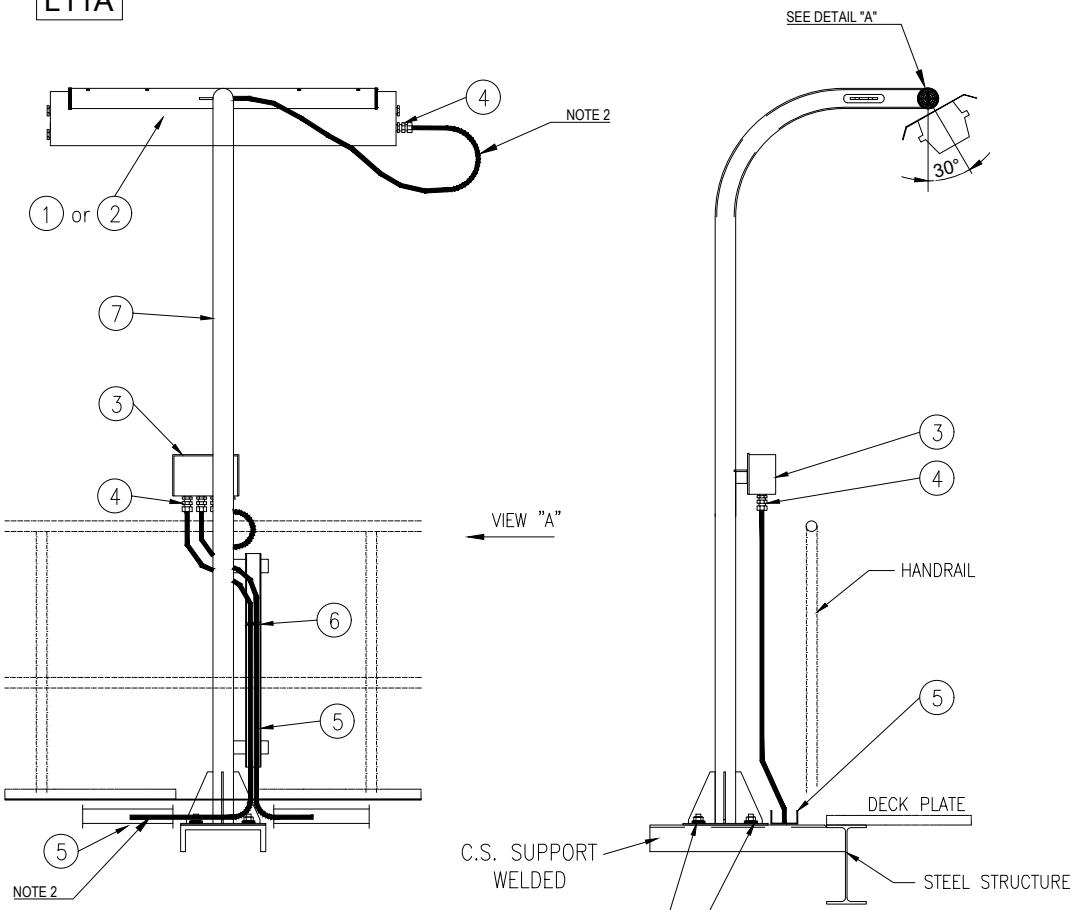
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

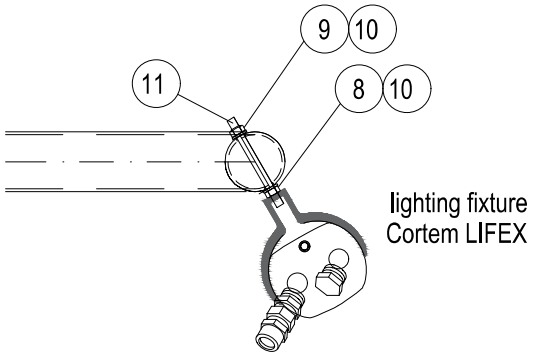
File Name : 123A90–DDL–EL–DG–20125

L11A



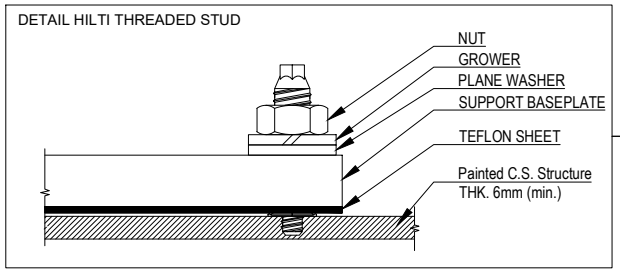
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

02

CROSSWIND

ROSETTI MARINO

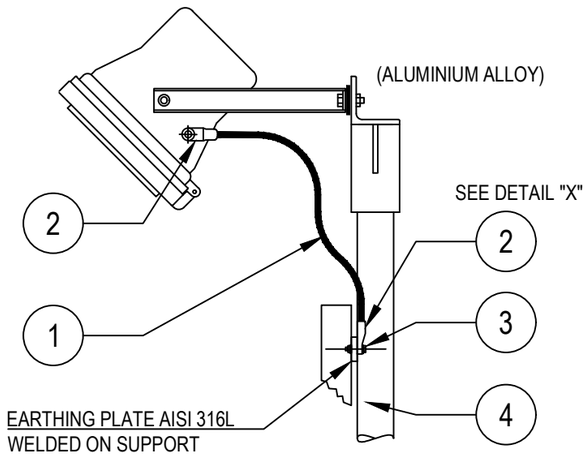
F.to UNI A3: 420mmx297mm

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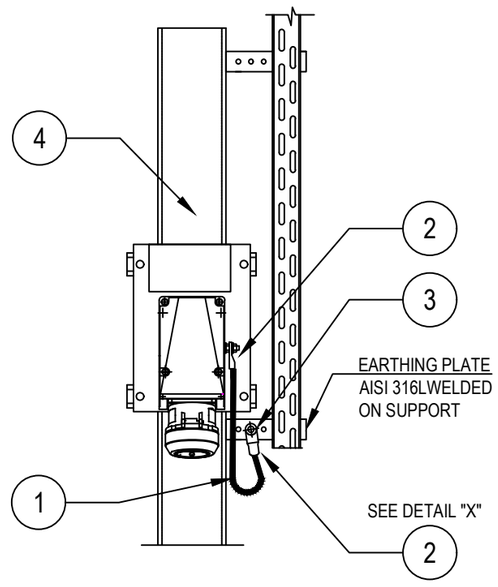
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

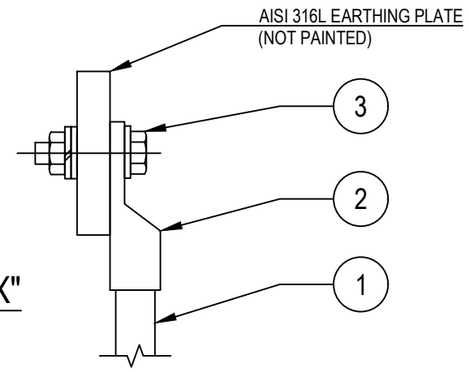
LIGHTING FIXTURE/GENERAL ITEM ON POLE



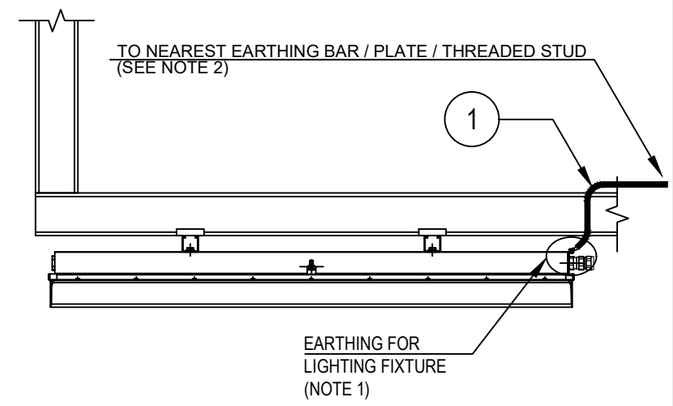
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

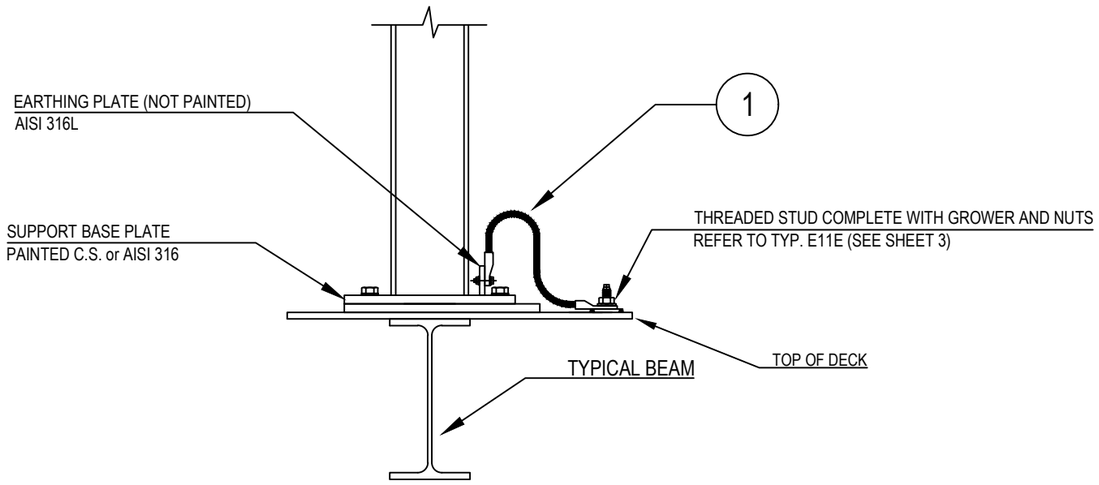
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

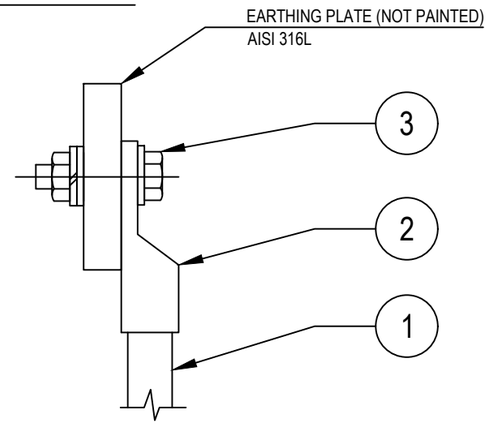
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

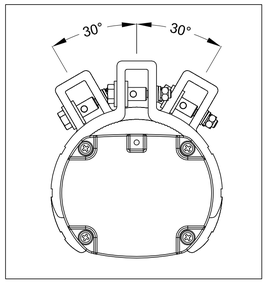
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

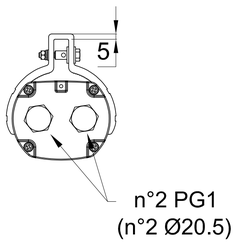
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



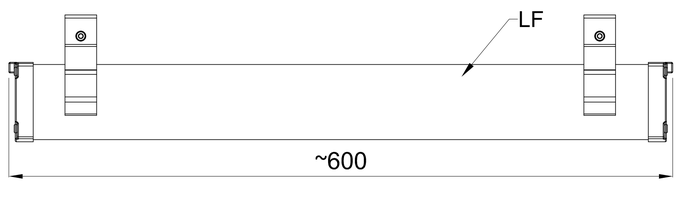
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

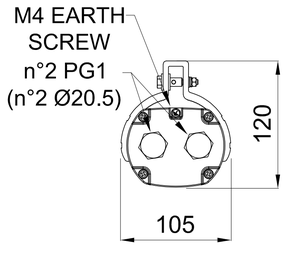
LEFT SIDE (OUT)



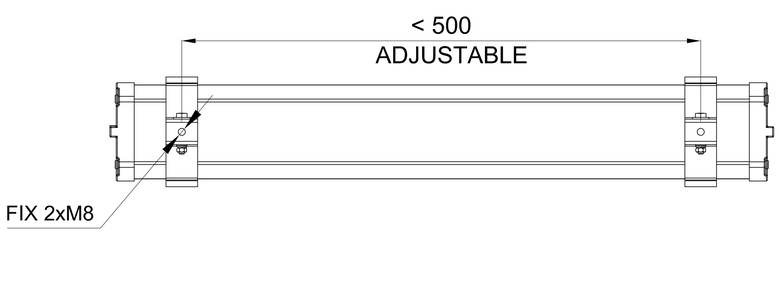
FRONT SIDE



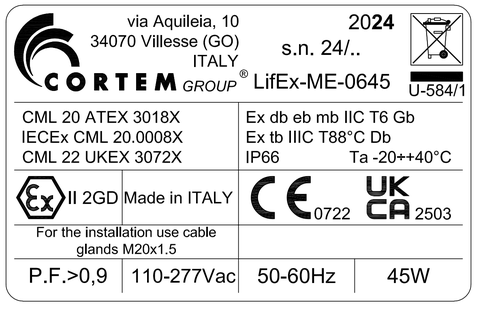
RIGHT SIDE (IN)



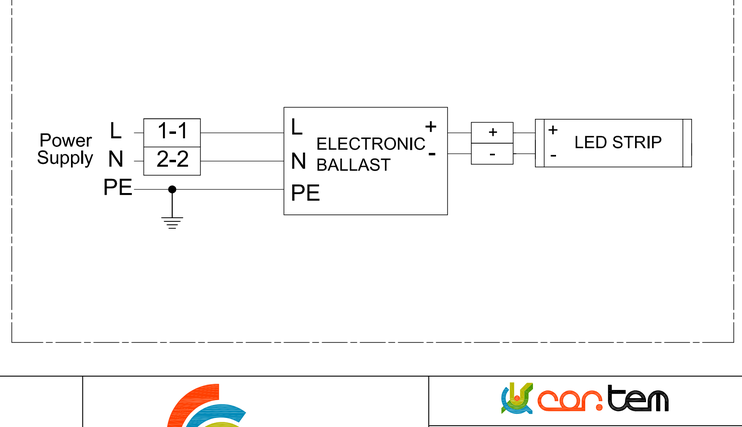
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 1 / TOT. 2

NEXT 2

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AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-17	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001417		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

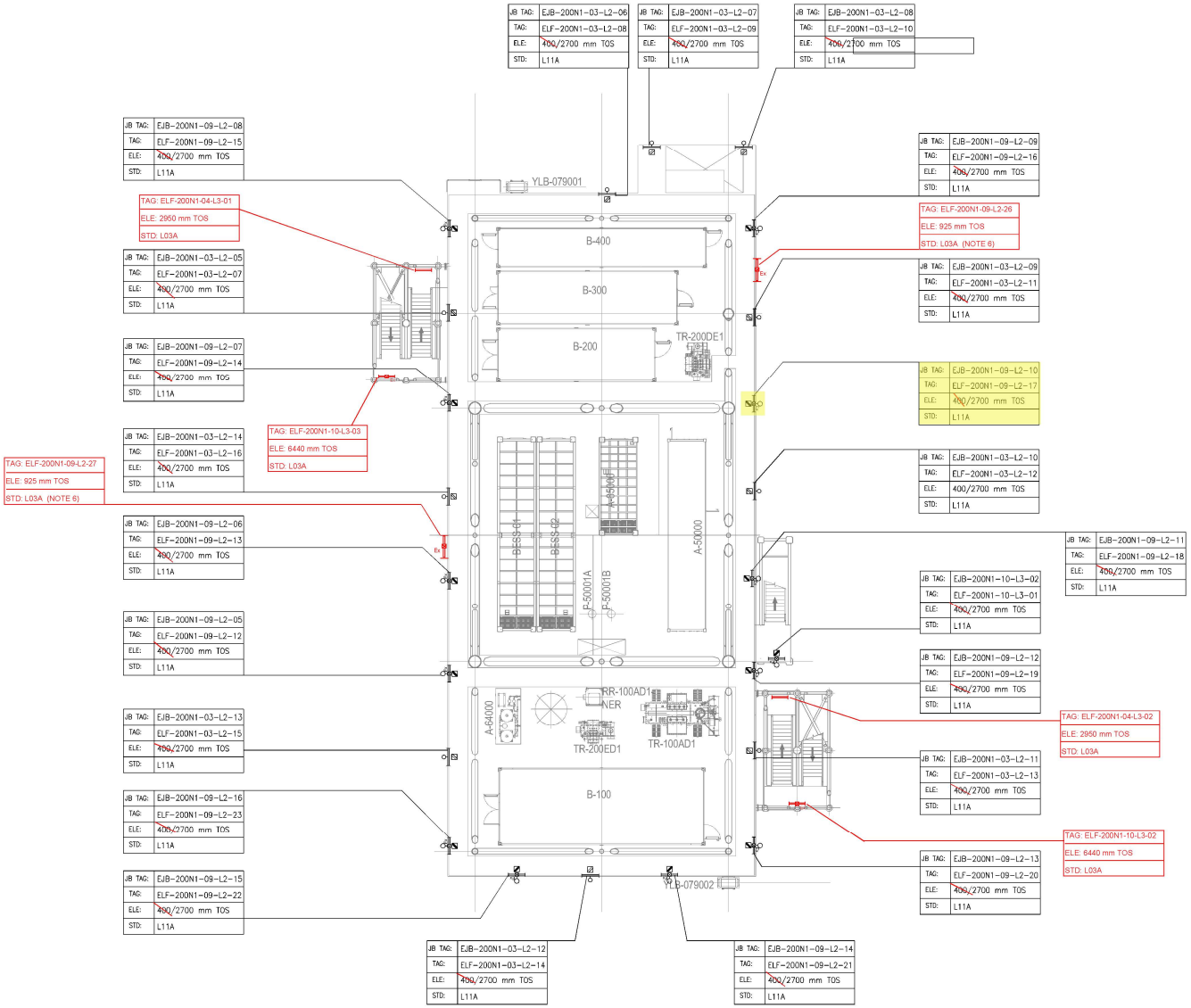
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	PL
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-11-29	2024-12-04	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-11-29T10:33:08.195Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-04T13:09:01.198Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S

NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 80W LED EMERGENCY LUMINARIES
- 80W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-1-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2 — P-ELF-200N1-09-L2-01 4G2.5_E — ELF-200N1-09-L2-01
P-ELF-200N1-09-L2-10 4G2.5_E — ELF-200N1-09-L2-10
P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2
P-ELF-200N1-09-L2-06 4G2.5_E — ELF-200N1-09-L2-06
P-ELF-200N1-09-L2-04 4G2.5_E — ELF-200N1-09-L2-04
P-ELF-200N1-09-L2-07 4G2.5_E — ELF-200N1-09-L2-07
P-EJB-200N1-09-L2-02 4G4_E
TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005

EJB-200N1-09-L2-02 — TYPE: L21E2
P-ELF-200N1-09-L2-09 4G2.5_E — ELF-200N1-09-L2-09
P-ELF-200N1-09-L2-08 4G2.5_E — ELF-200N1-09-L2-08
P-ELF-200N1-09-L2-03 4G2.5_E — ELF-200N1-09-L2-03
P-ELF-200N1-09-L2-05 4G2.5_E — ELF-200N1-09-L2-05
P-EJB-200N1-09-L2-07 4G4_E
P-EJB-200N1-09-L2-12 4G4_E

P-ELF-200N1-09-L2-02 4G2.5_E — ELF-200N1-09-L2-02
P-ELF-200N1-09-L2-11 4G2.5_E — ELF-200N1-09-L2-11

EJB-200N1-09-L2-07 — TYPE: L21E2
P-ELF-200N1-09-L2-14 4G2.5_E — ELF-200N1-09-L2-14
P-EJB-200N1-09-L2-06 4G4_E
P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-08 — TYPE: L21E2
P-ELF-200N1-09-L2-15 4G2.5_E — ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2
P-ELF-200N1-09-L2-13 4G2.5_E — ELF-200N1-09-L2-13
P-EJB-200N1-09-L2-05 4G4_E
P-ELF-200N1-09-L2-27 4G2.5_E — Ex — ELF-200N1-09-L2-27

EJB-200N1-09-L2-05 — TYPE: L21E2
P-ELF-200N1-09-L2-12 4G2.5_E — ELF-200N1-09-L2-12
P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2
P-ELF-200N1-09-L2-23 4G2.5_E — ELF-200N1-09-L2-23
P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2
P-ELF-200N1-09-L2-22 4G2.5_E — ELF-200N1-09-L2-22
P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-14 — TYPE: L21E2
P-ELF-200N1-09-L2-21 4G2.5_E — ELF-200N1-09-L2-21

EJB-200N1-09-L2-12 — TYPE: L21E2
P-ELF-200N1-09-L2-19 4G2.5_E — ELF-200N1-09-L2-19
P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2
P-ELF-200N1-09-L2-18 4G2.5_E — ELF-200N1-09-L2-18
P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2
P-ELF-200N1-09-L2-17 4G2.5_E — ELF-200N1-09-L2-17
P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2
P-ELF-200N1-09-L2-16 4G2.5_E — ELF-200N1-09-L2-16
P-ELF-200N1-09-L2-26 4G2.5_E — Ex — ELF-200N1-09-L2-26
P-EJB-200N1-09-L2-13 4G4_E

EJB-200N1-09-L2-13 — TYPE: L21E2
P-ELF-200N1-09-L2-20 4G2.5_E — ELF-200N1-09-L2-20
P-EJB-200N1-09-L2-17 4G4_E

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)

BELOW LOWER DECK

EJB-200N1-09-L2-17
C-ELS-200N1-09-L2-01 2C X 2.5
02 ELS-200N1-09-L2-01

P-ELF-200N1-09-L2-25 4G2.5_E — ELF-200N1-09-L2-25
P-ELF-200N1-09-L2-24 4G2.5_E — ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND — ROSETTI MARINO

File Name : 123A90-DDL-EL-DG-20125

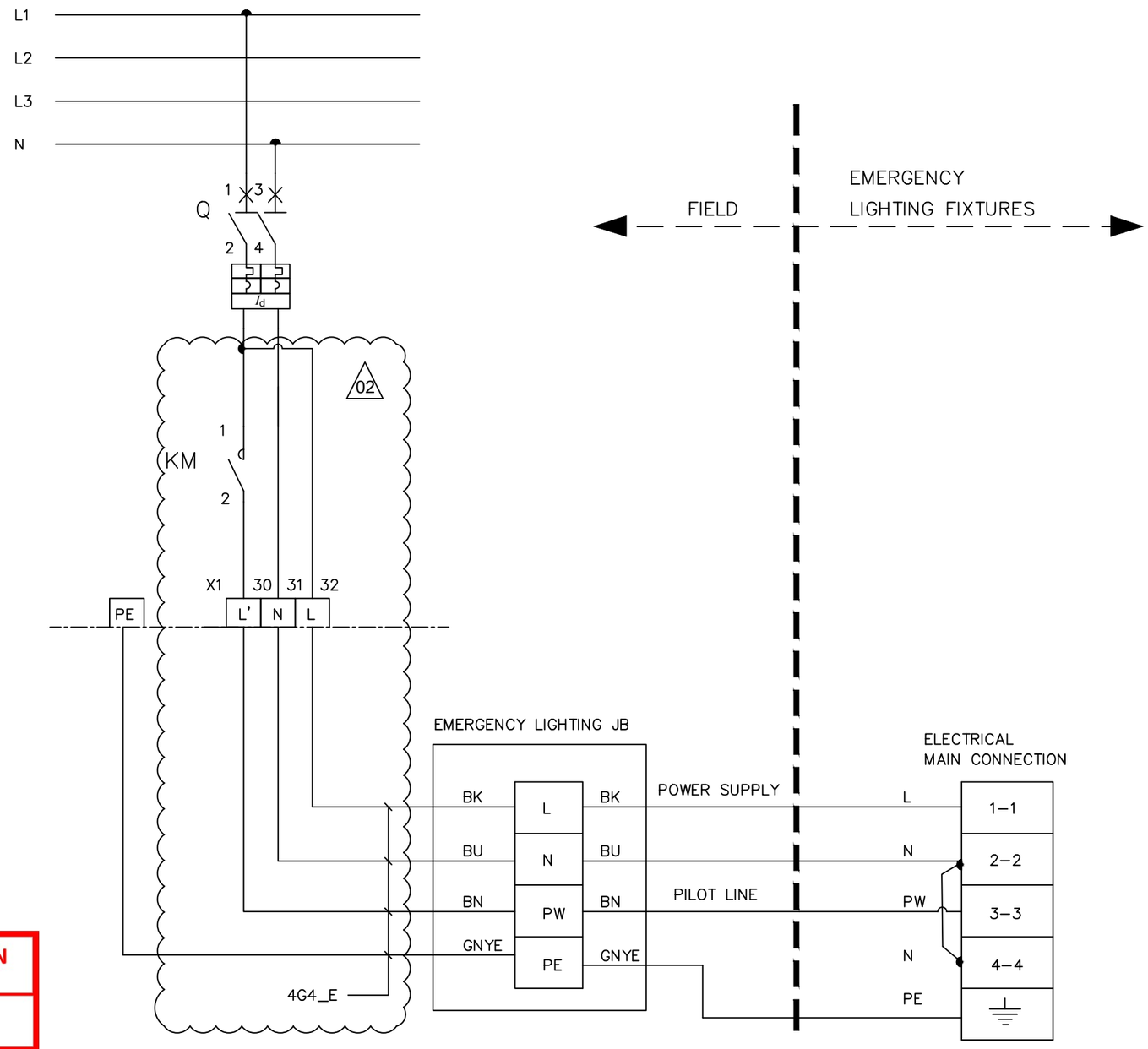
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

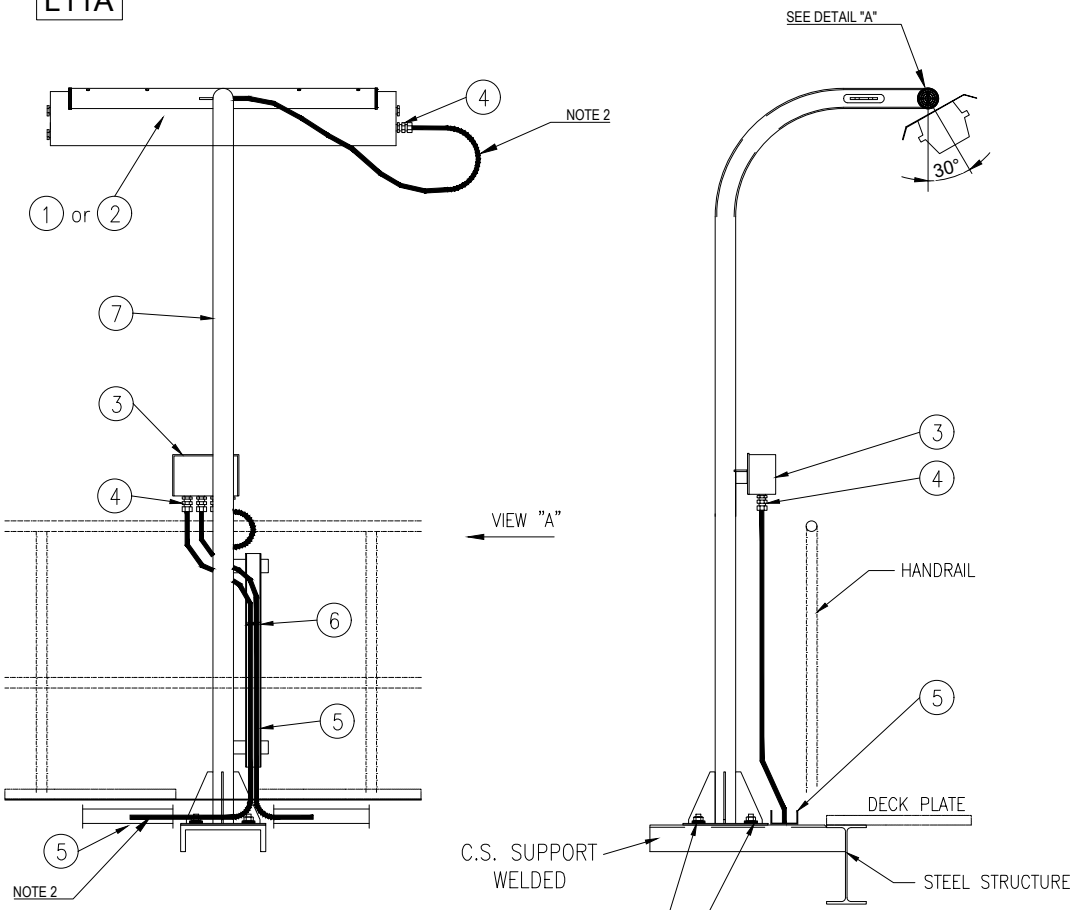
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

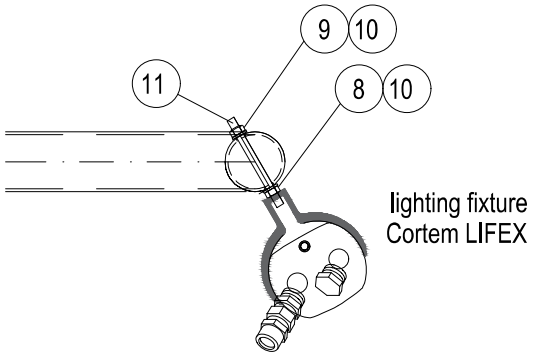
File Name : 123A90–DDL–EL–DG–20125

L11A



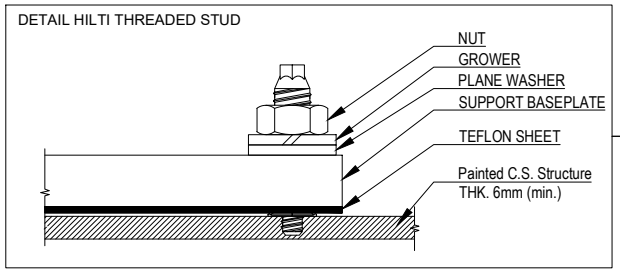
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

02

CROSSWIND

ROSETTI MARINO

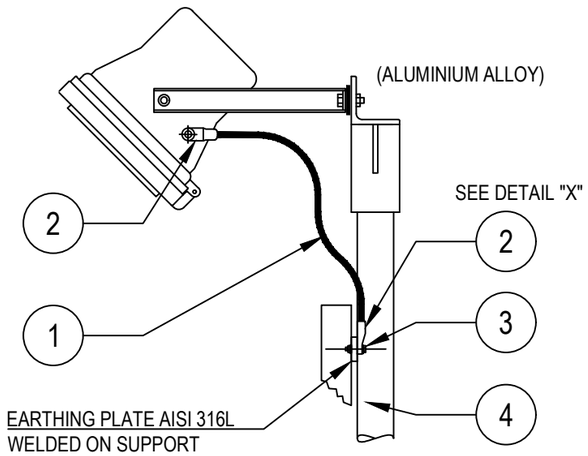
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

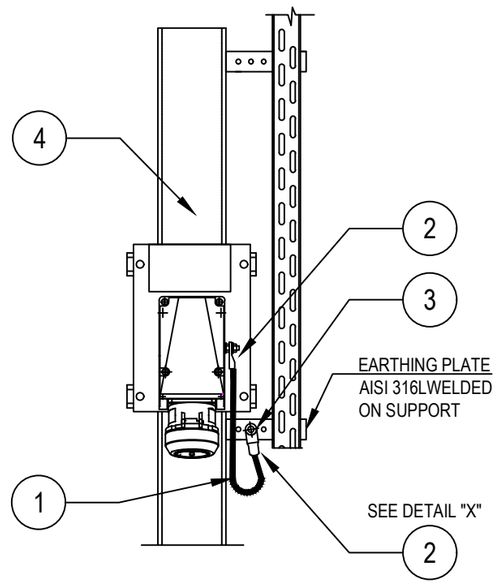
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

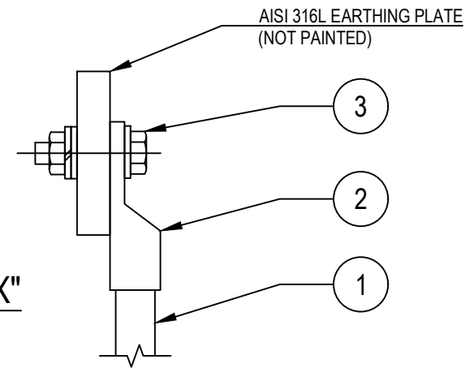
LIGHTING FIXTURE/GENERAL ITEM ON POLE



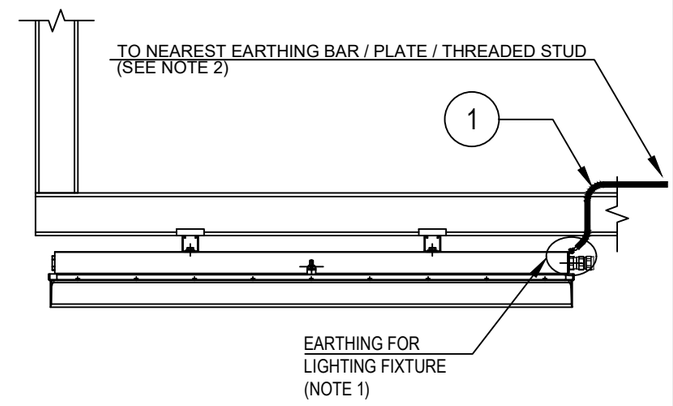
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

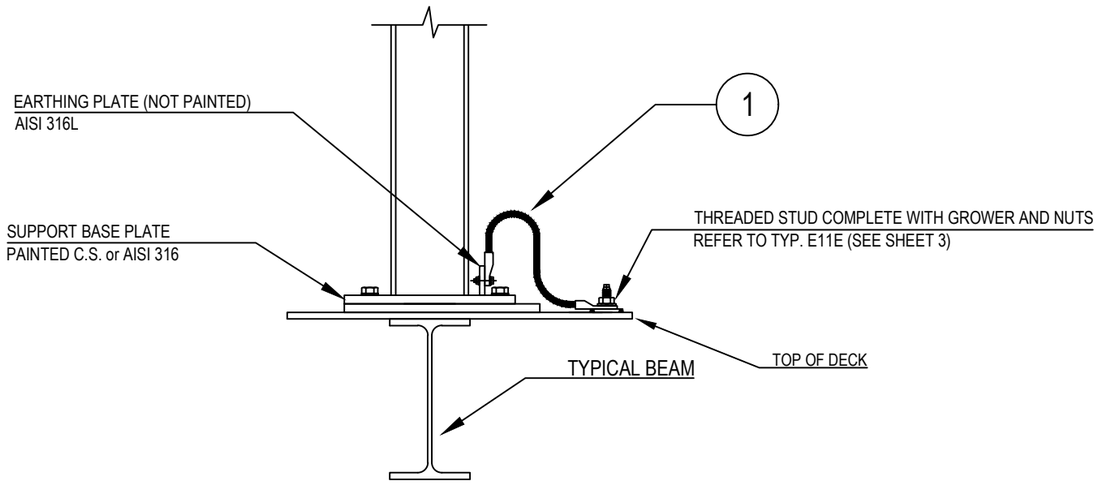
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

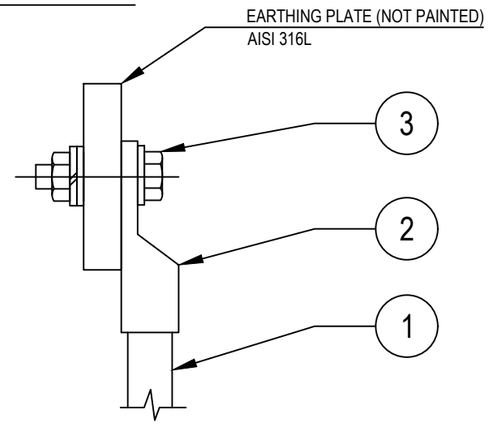
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

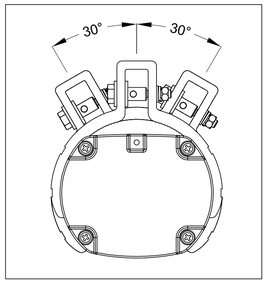
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

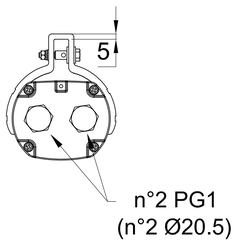
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



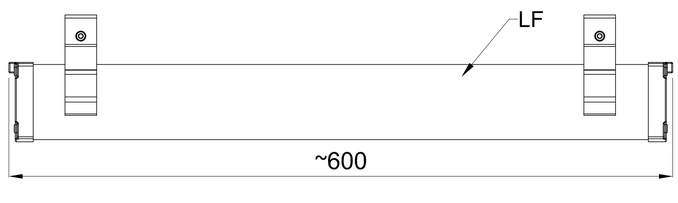
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

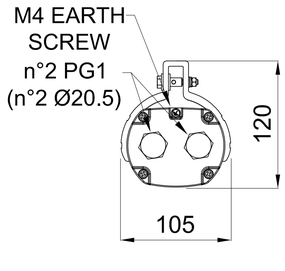
LEFT SIDE (OUT)



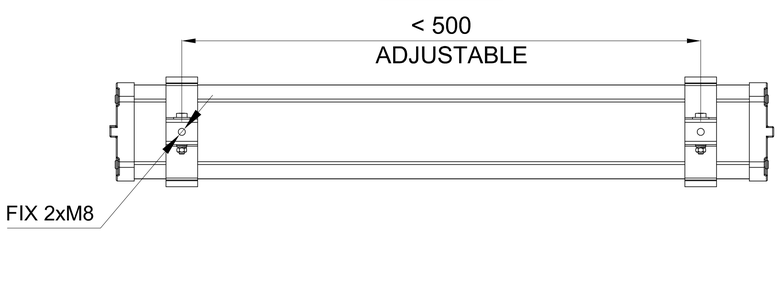
FRONT SIDE



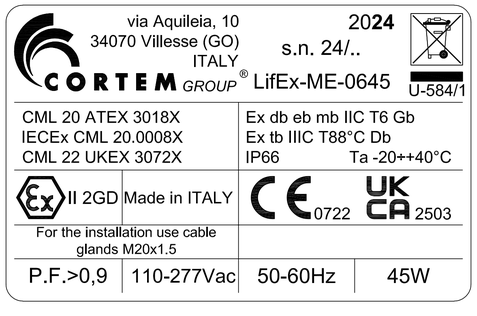
RIGHT SIDE (IN)



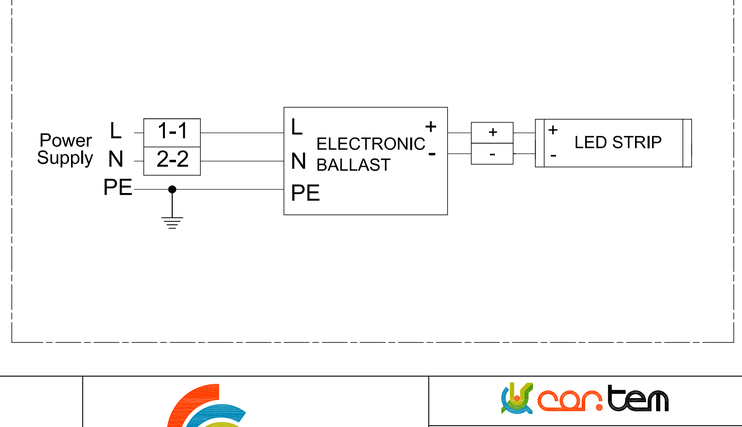
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 1 / TOT. 2

NEXT 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-18	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001418		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

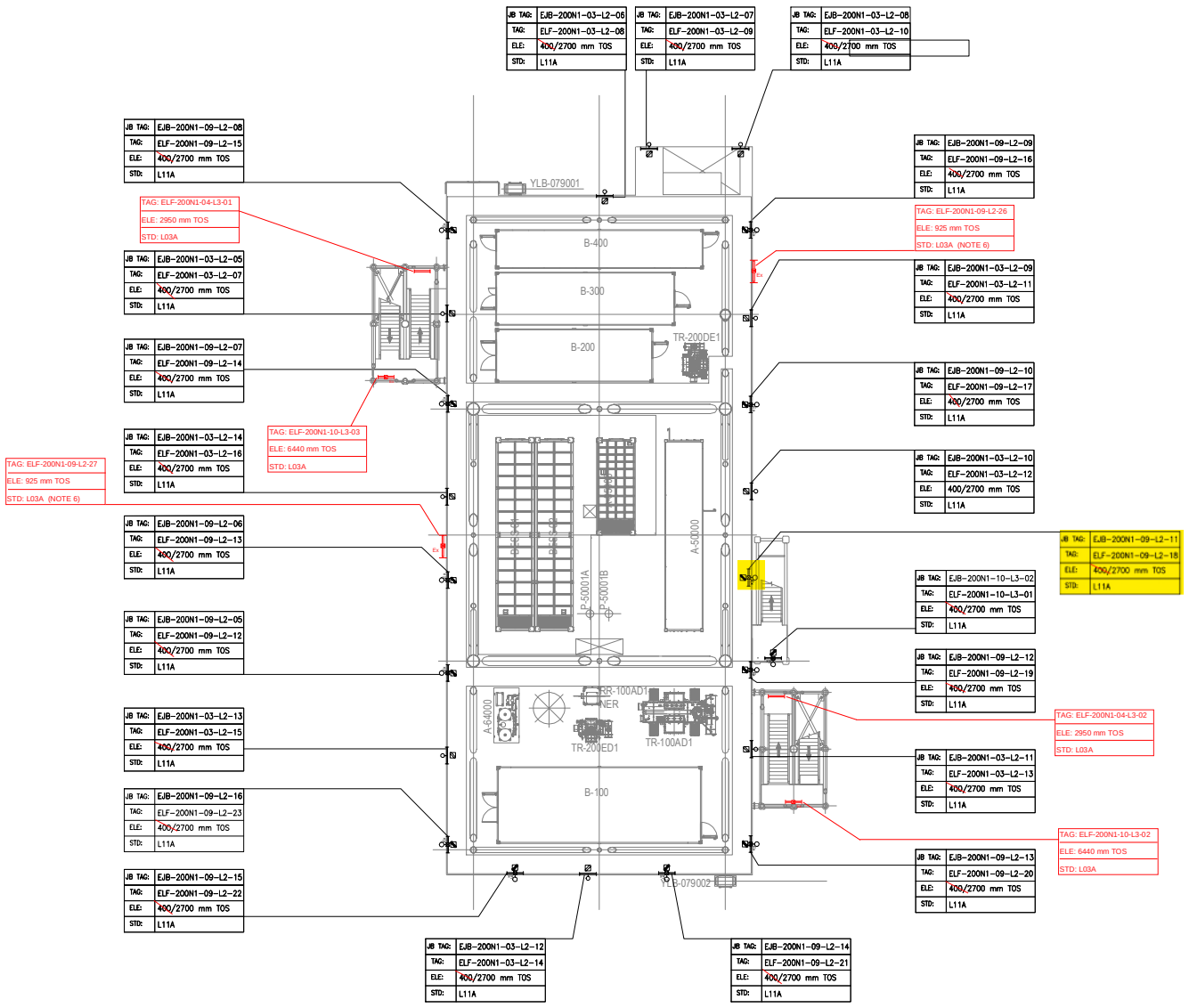
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

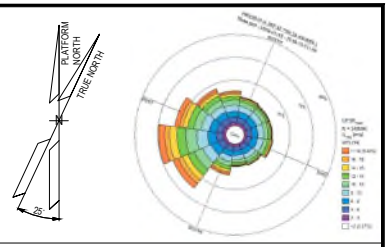
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Gabriele Bertuccelli	
Date	2024-12-11	2024-12-12	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-11T17:12:30.184Z	PROVERLIS Digitaly signed by Gabriele Bertuccelli 2024-12-12T17:56:03.727Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

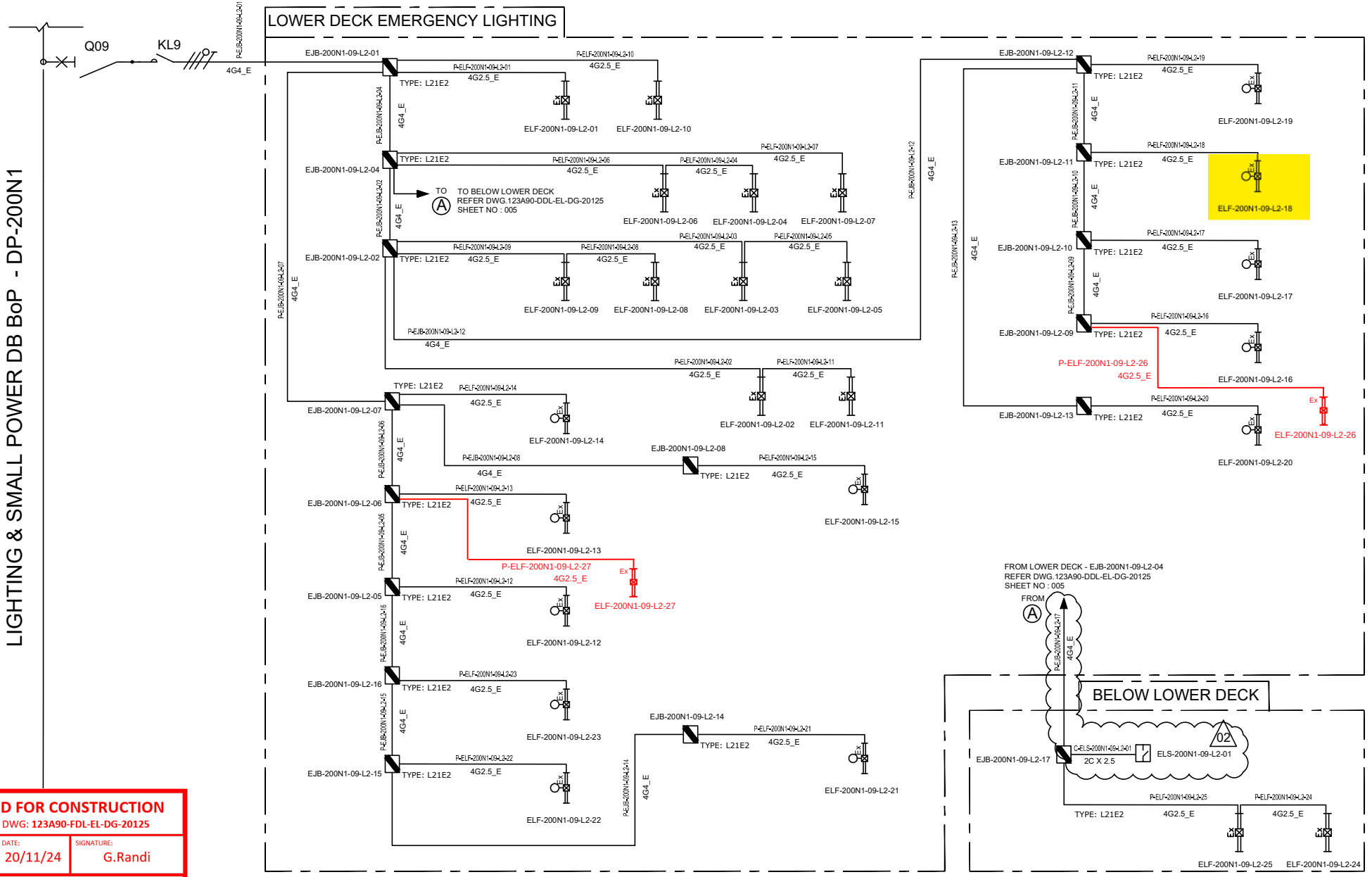
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

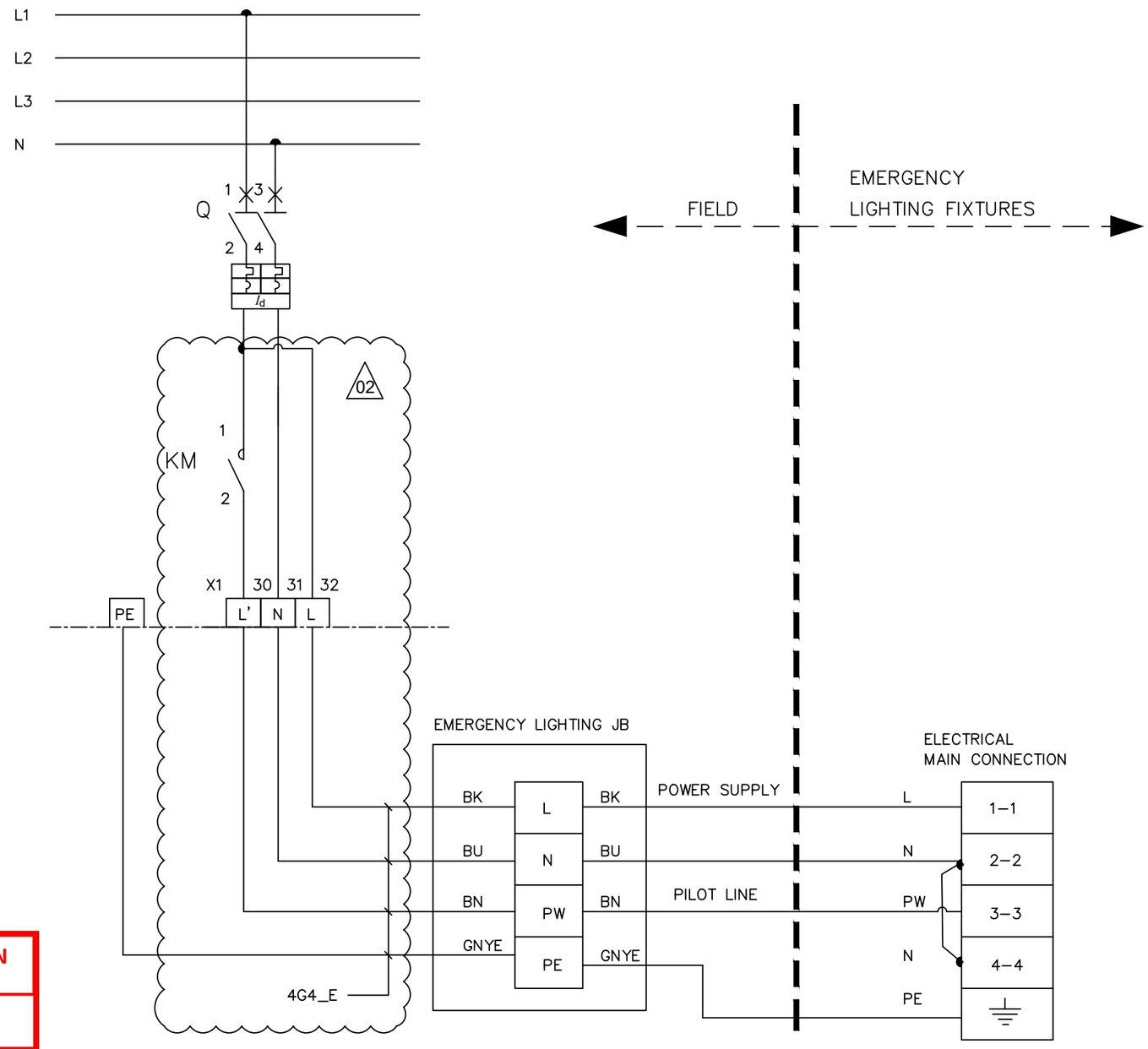
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

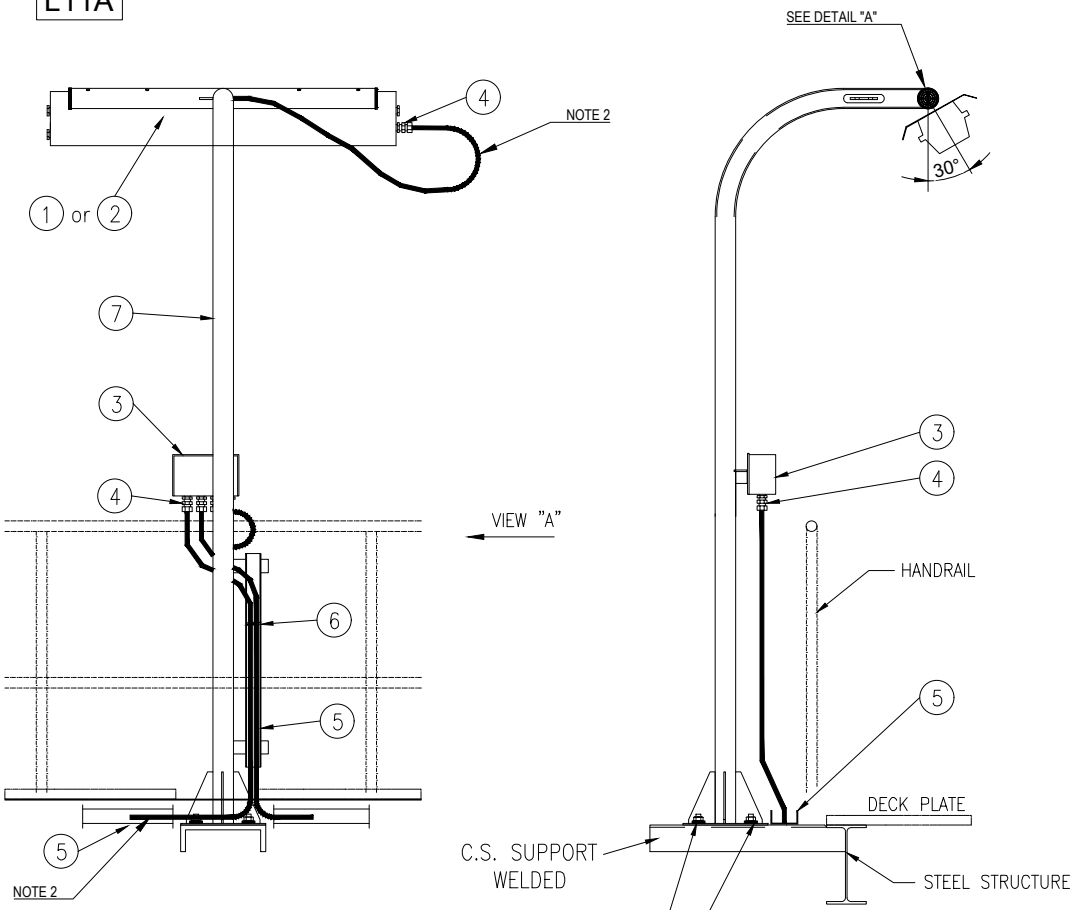
CROSSWIND

ROSETTI MARINO

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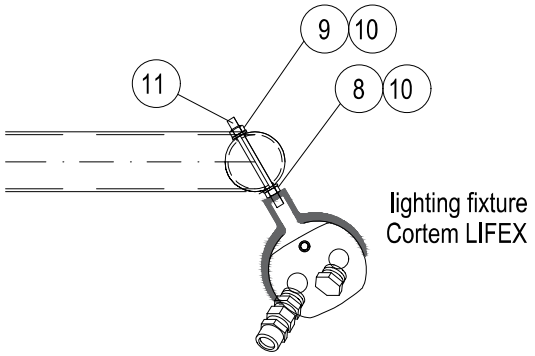
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L11A



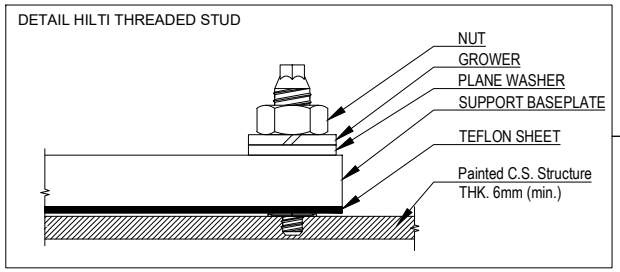
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

02

CROSSWIND

ROSETTI MARINO

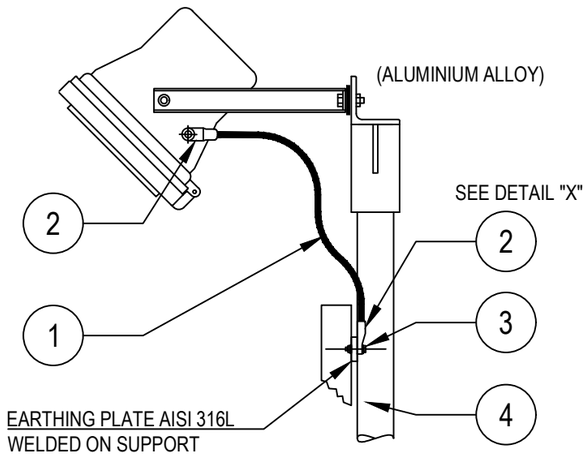
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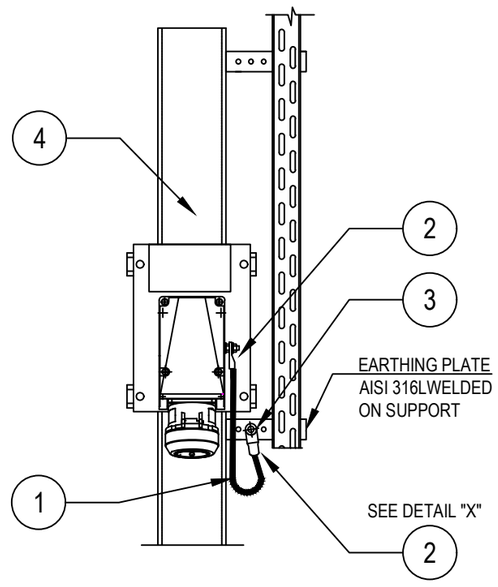
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

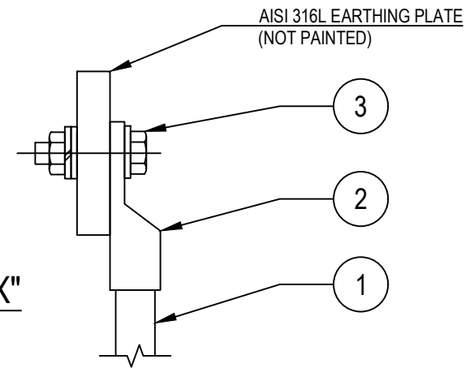
LIGHTING FIXTURE/GENERAL ITEM ON POLE



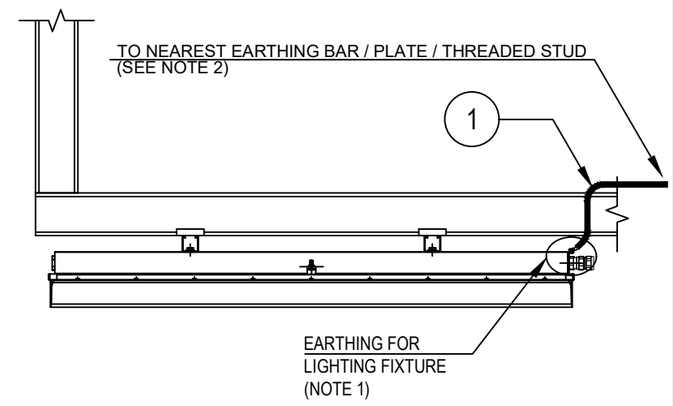
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

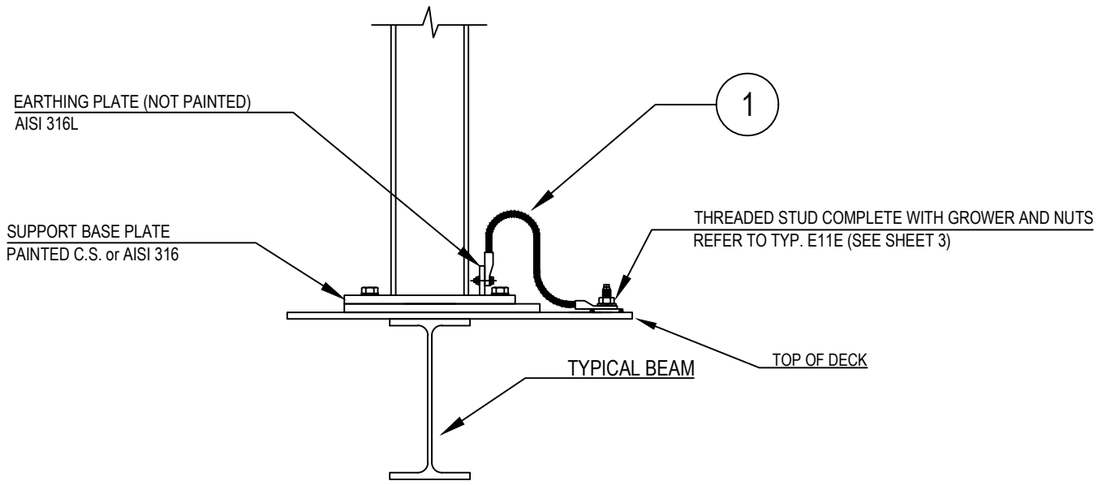
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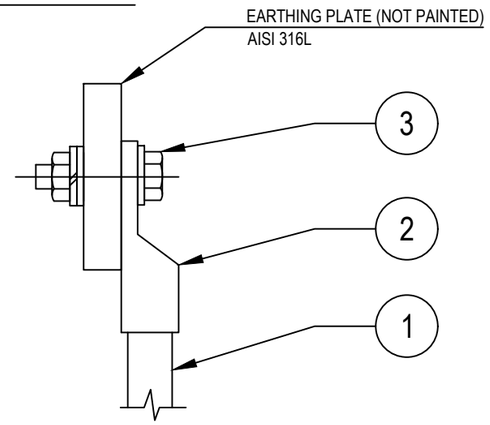
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

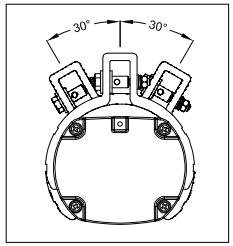
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

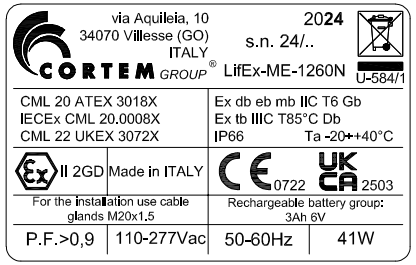
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



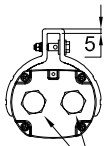
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

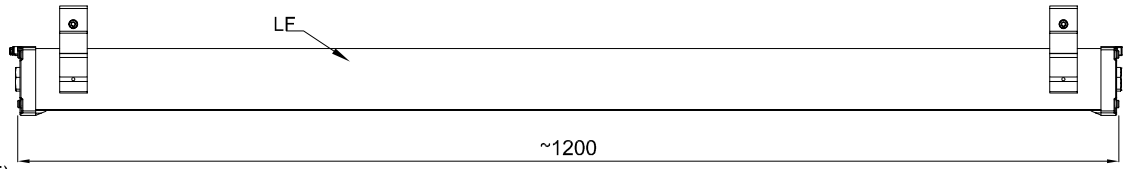
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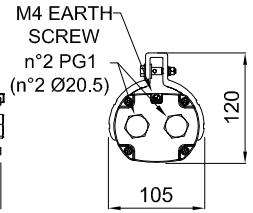
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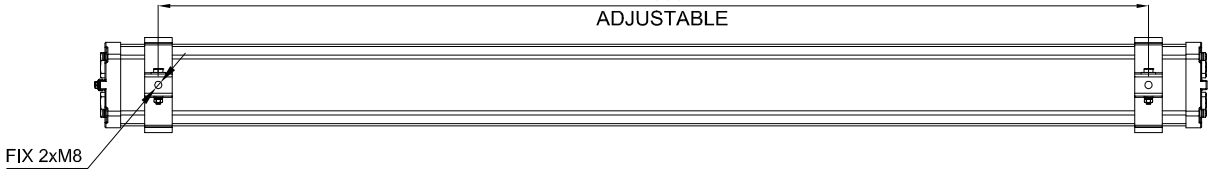
FRONT SIDE



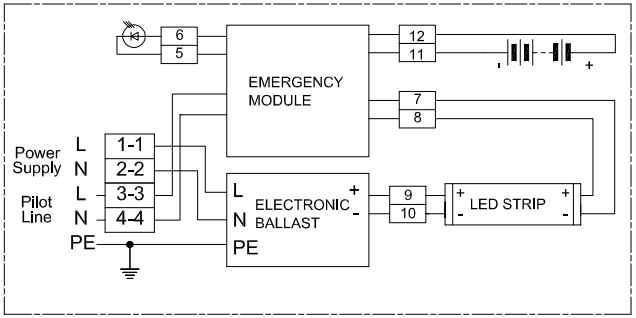
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

THIS DRAWING IS PROPERTY OF CORTEM SPA
AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-19	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001419		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

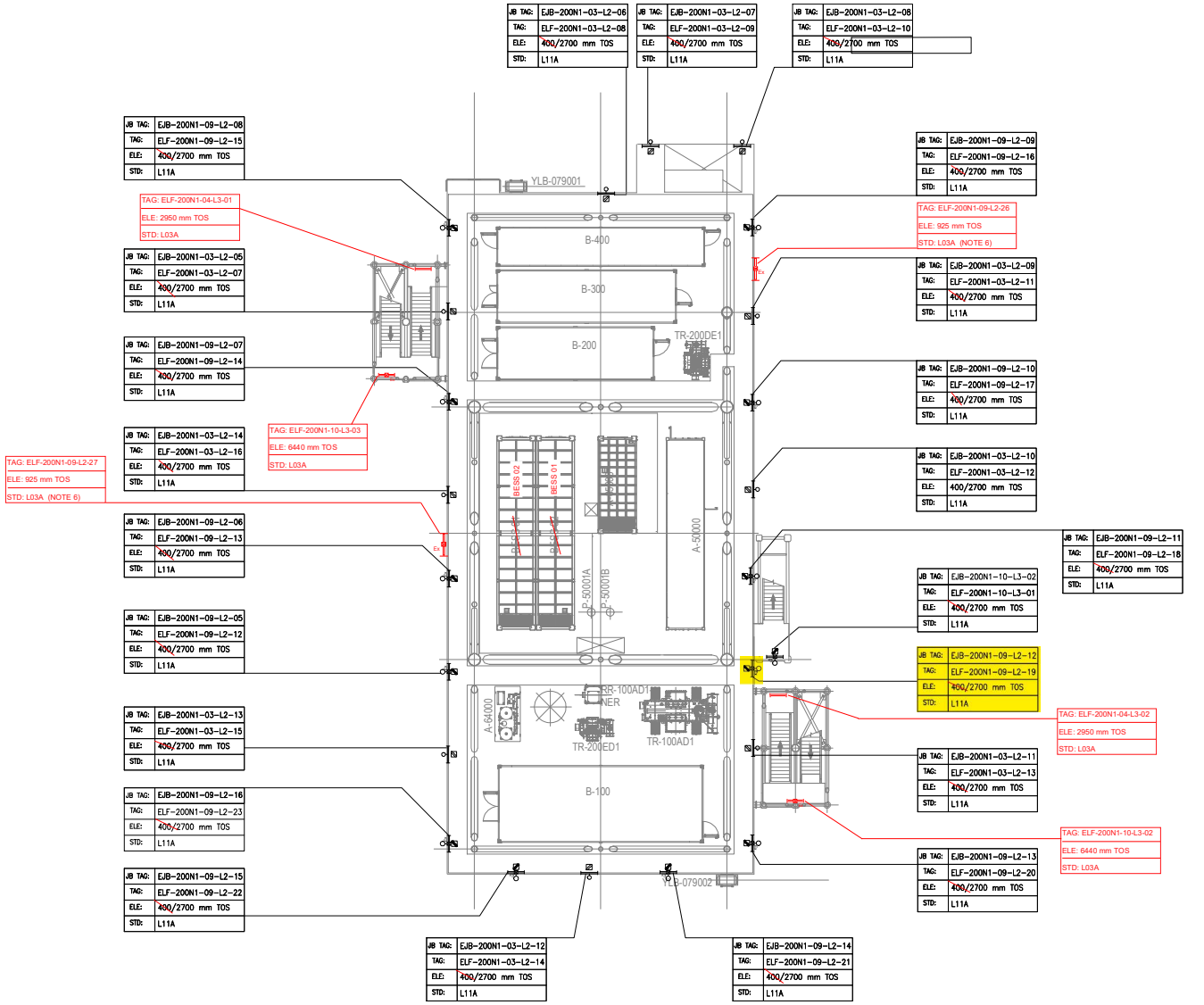
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

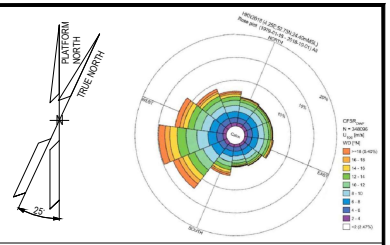
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2025-01-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:32:22.251Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-07T08:49:31.991Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2
- P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01
- P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10

P-EJB-200N1-09-L2-04 4G4_E

EJB-200N1-09-L2-04 — TYPE: L21E2
- P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06
- P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04
- P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07
- TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005

P-EJB-200N1-09-L2-02 4G4_E

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09
- P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08
- P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03
- P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05

P-EJB-200N1-09-L2-12 4G4_E

P-EJB-200N1-09-L2-07 4G4_E

EJB-200N1-09-L2-07 — TYPE: L21E2
- P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02
- P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11
- P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14

P-EJB-200N1-09-L2-06 4G4_E

EJB-200N1-09-L2-06 — TYPE: L21E2
- P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13
- P-ELF-200N1-09-L2-27 4G2.5_E → ELF-200N1-09-L2-27

P-EJB-200N1-09-L2-05 4G4_E

EJB-200N1-09-L2-05 — TYPE: L21E2
- P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12

P-EJB-200N1-09-L2-16 4G4_E

EJB-200N1-09-L2-16 — TYPE: L21E2
- P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23

P-EJB-200N1-09-L2-15 4G4_E

EJB-200N1-09-L2-15 — TYPE: L21E2
- P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

EJB-200N1-09-L2-08 — TYPE: L21E2
- P-EJB-200N1-09-L2-08 4G4_E
- P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15

P-EJB-200N1-09-L2-14 4G4_E

EJB-200N1-09-L2-14 — TYPE: L21E2
- P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21

P-EJB-200N1-09-L2-12 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2
- P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19

P-EJB-200N1-09-L2-11 4G4_E

EJB-200N1-09-L2-11 — TYPE: L21E2
- P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18

P-EJB-200N1-09-L2-10 4G4_E

EJB-200N1-09-L2-10 — TYPE: L21E2
- P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17

P-EJB-200N1-09-L2-09 4G4_E

EJB-200N1-09-L2-09 — TYPE: L21E2
- P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16
- P-ELF-200N1-09-L2-26 4G2.5_E → ELF-200N1-09-L2-26

P-EJB-200N1-09-L2-13 4G4_E

EJB-200N1-09-L2-13 — TYPE: L21E2
- P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)

P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17 — C-ELS-200N1-09-L2-01 2C X 2.5 → ELS-200N1-09-L2-01 (02)
- P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25
- P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

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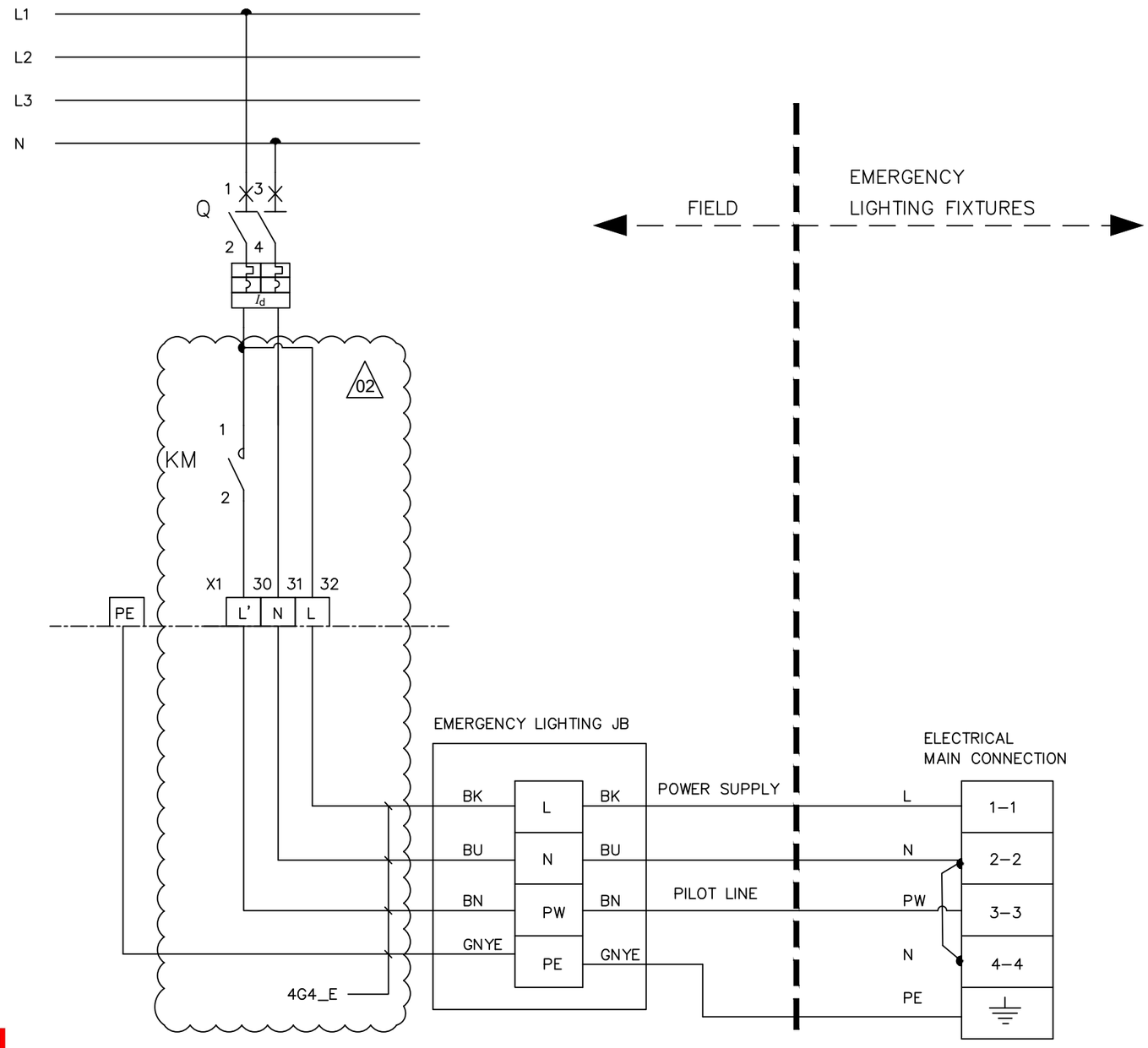
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DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

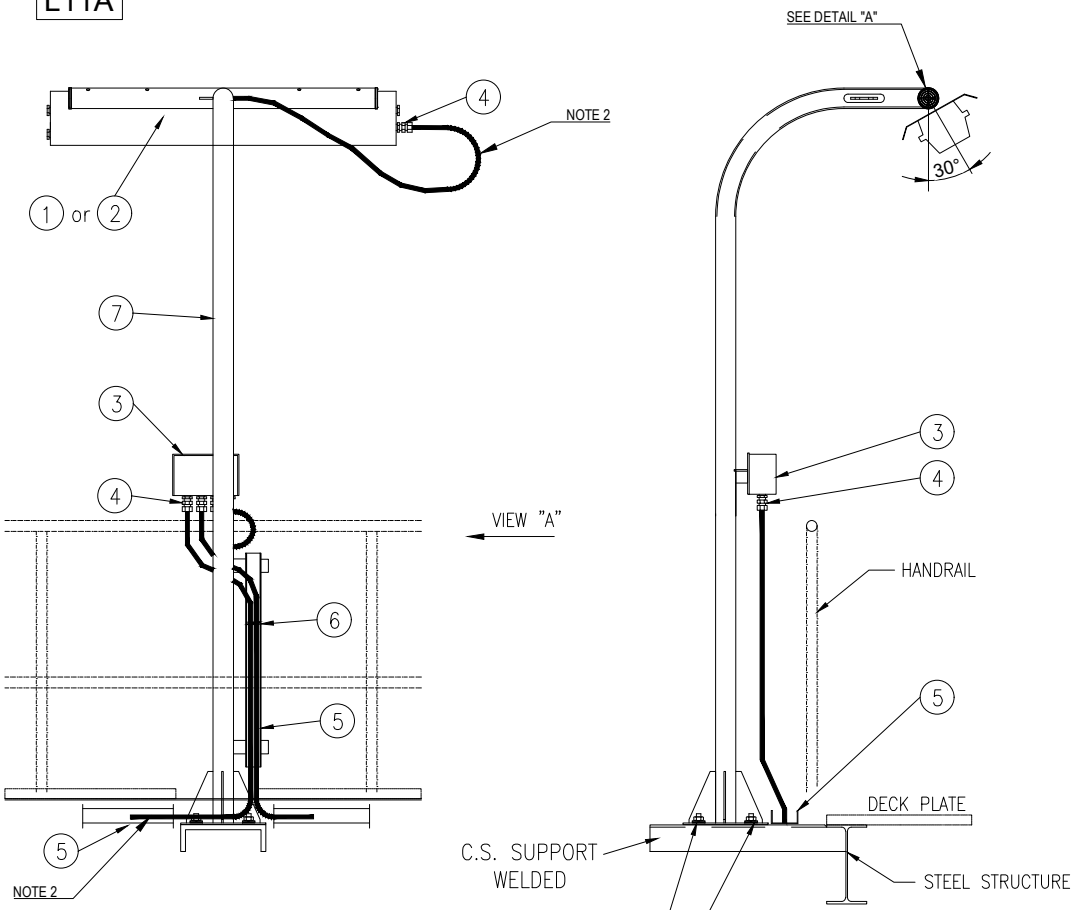
SHEET 014

REV. 02

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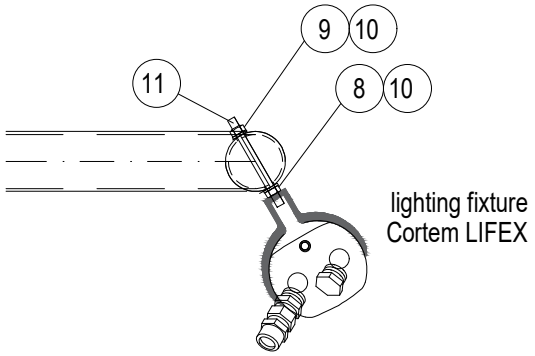
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L11A



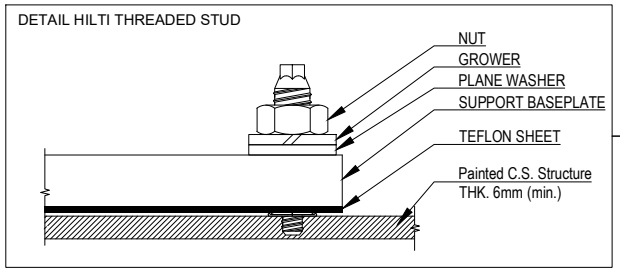
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

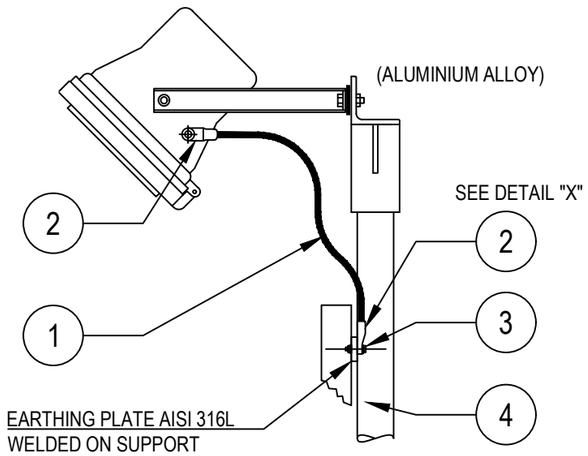
F.to UNI A3: 420mmx297mm

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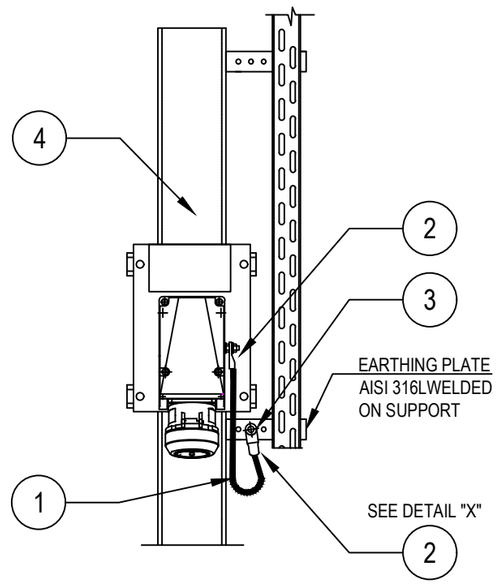
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

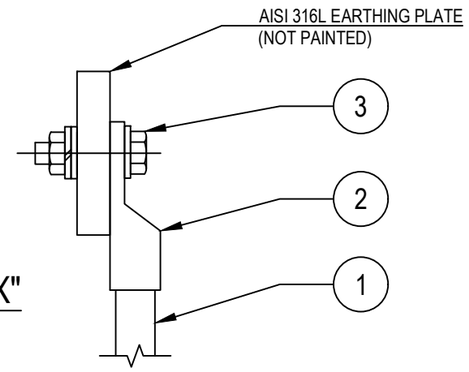
LIGHTING FIXTURE/GENERAL ITEM ON POLE



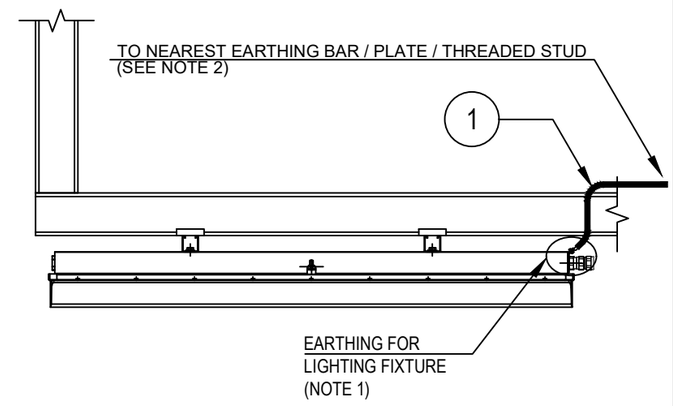
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

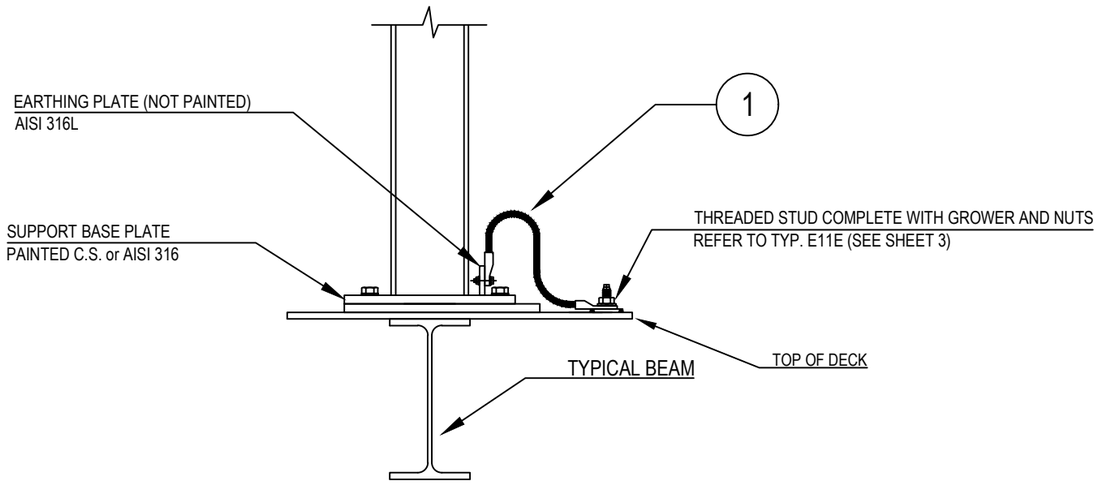
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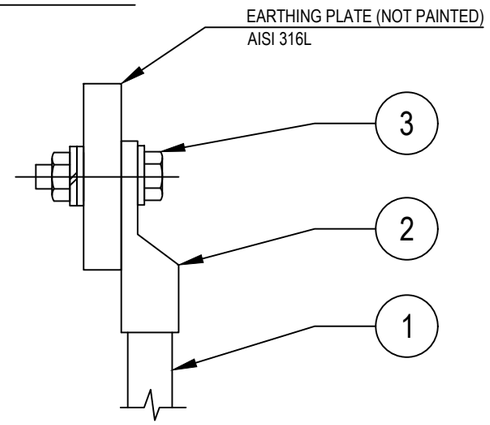
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

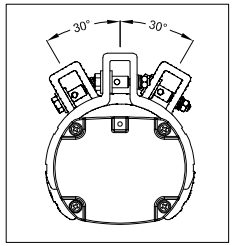
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

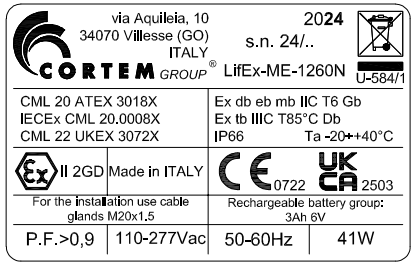
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



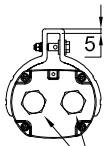
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

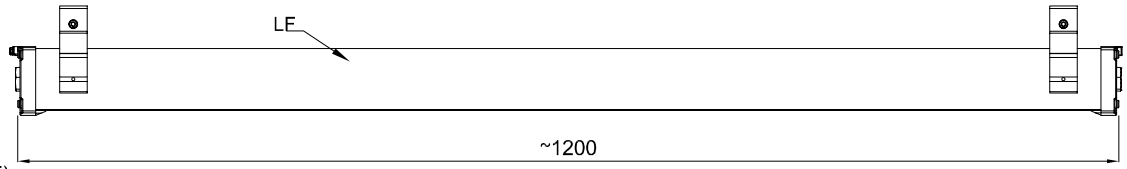
CERTIFICATE NAMEPLATE



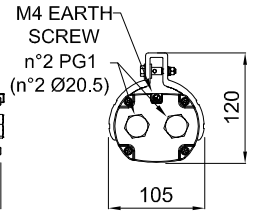
LEFT SIDE (OUT)



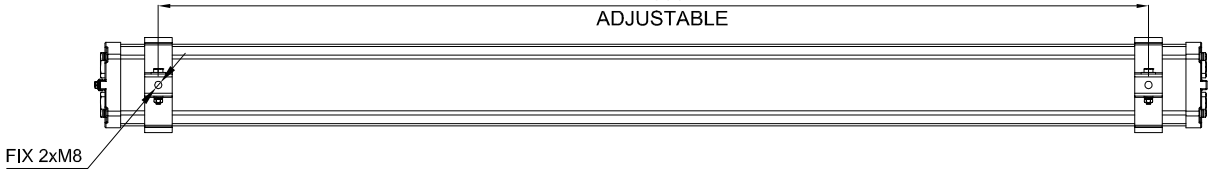
FRONT SIDE



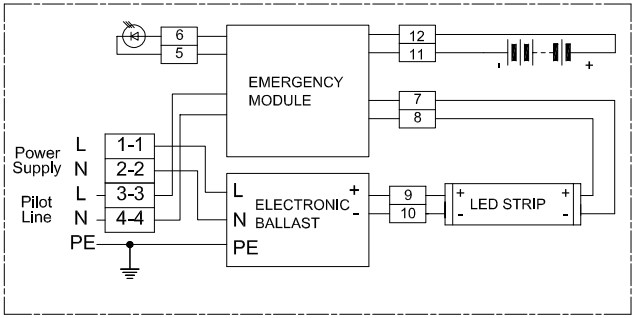
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-20	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001420		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

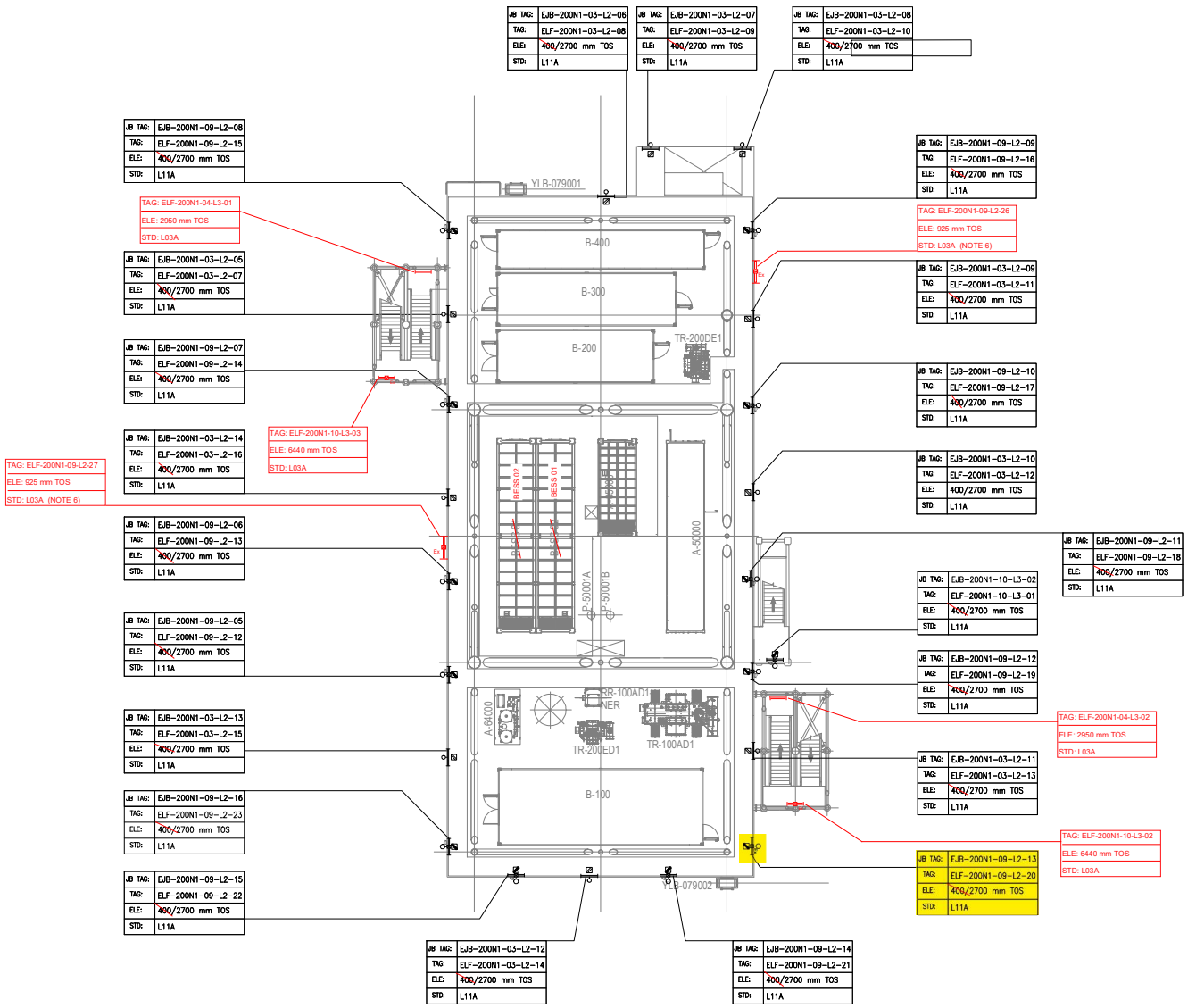
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

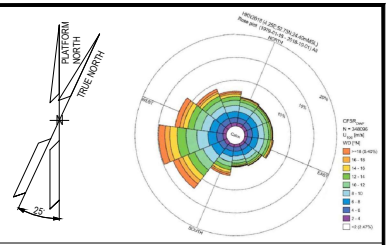
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-28	2025-01-07	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-28T07:32:48.056Z	PROVERLIS Digitaly signed by Luca Mussi 2025-01-07T08:51:19.256Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

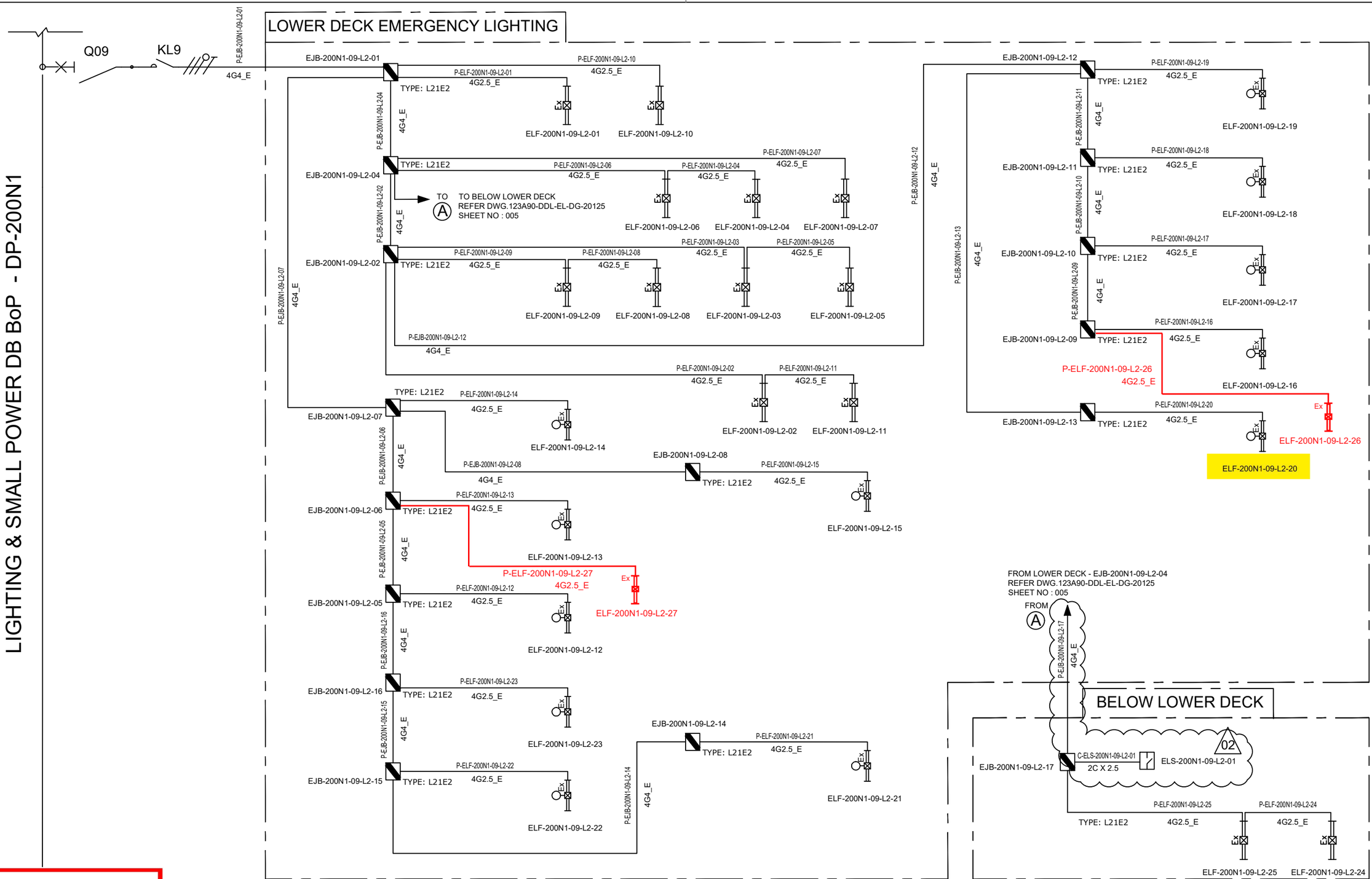
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 005

REV. 02

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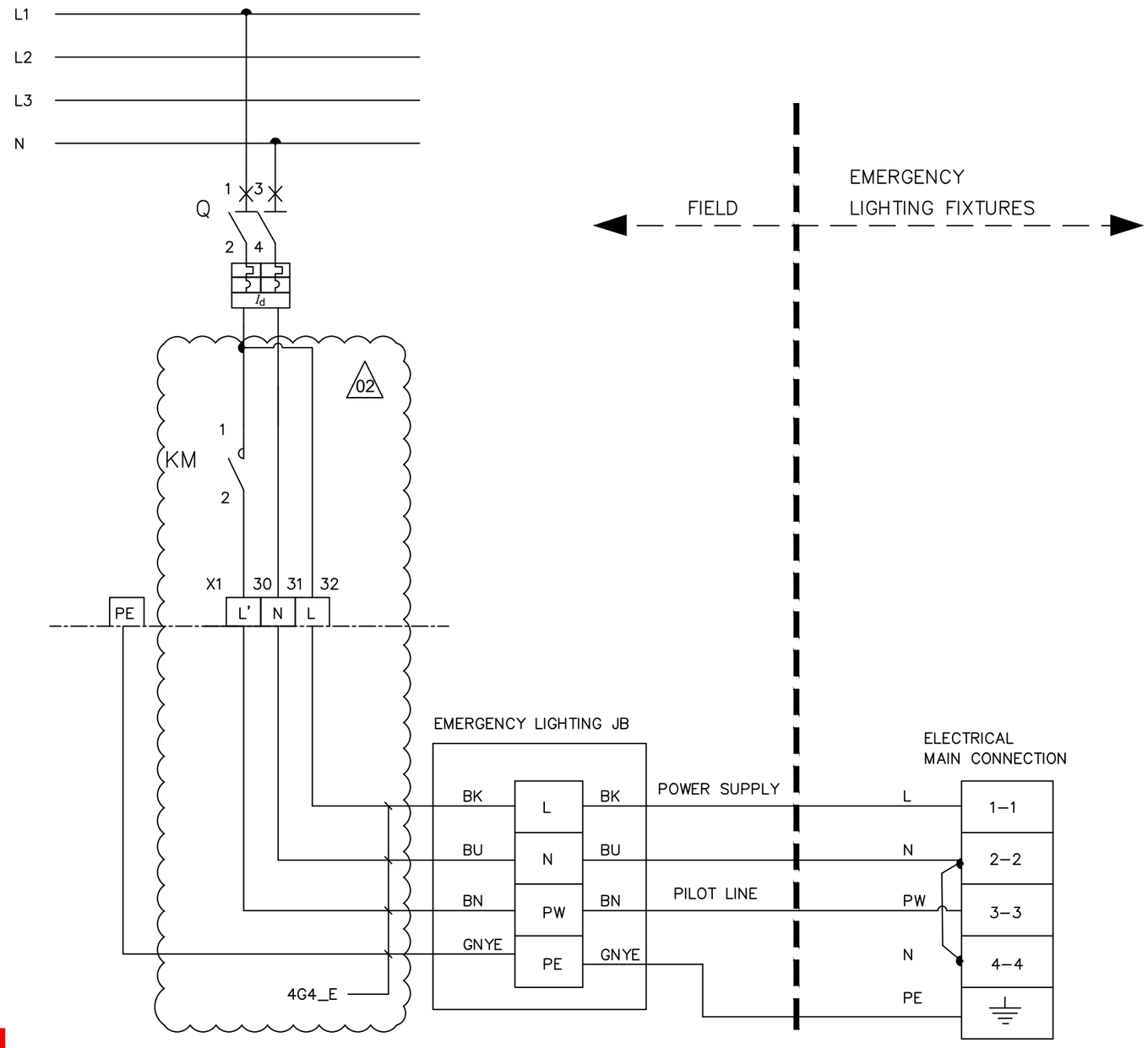
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_C	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

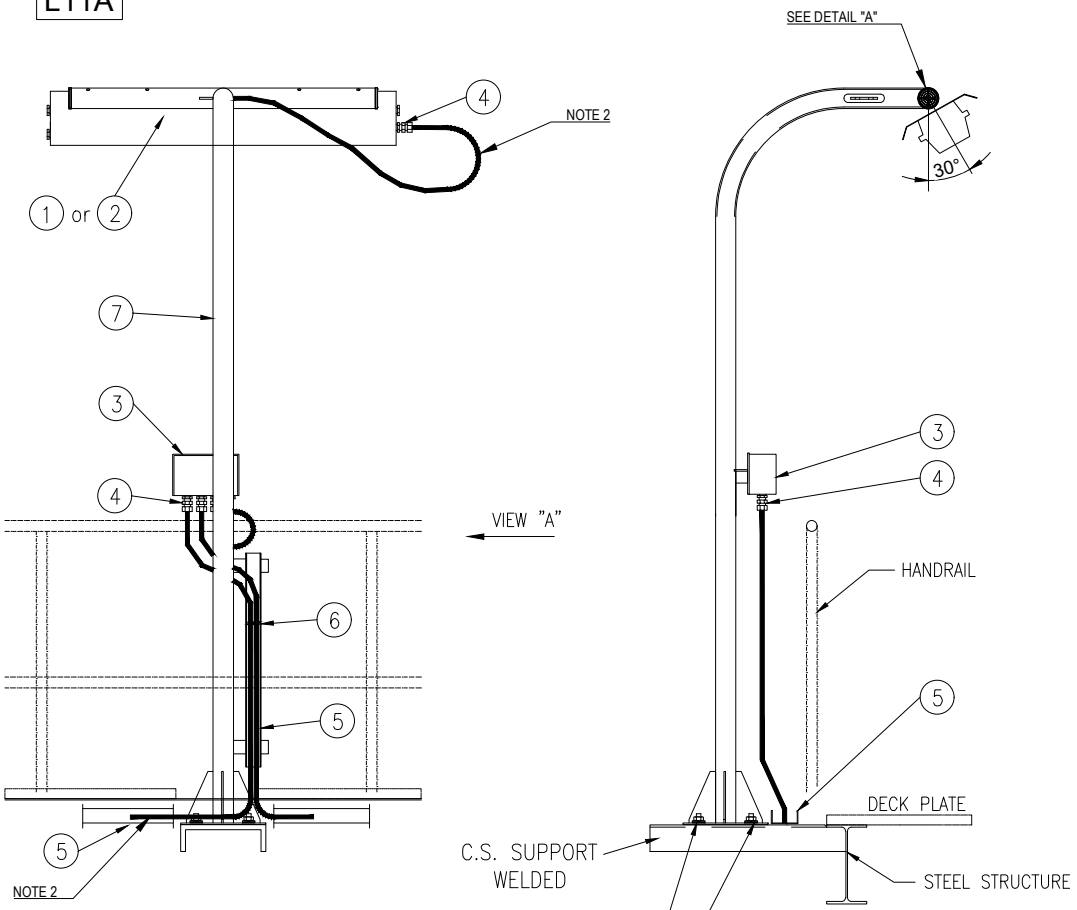
SHEET 014

REV. 02

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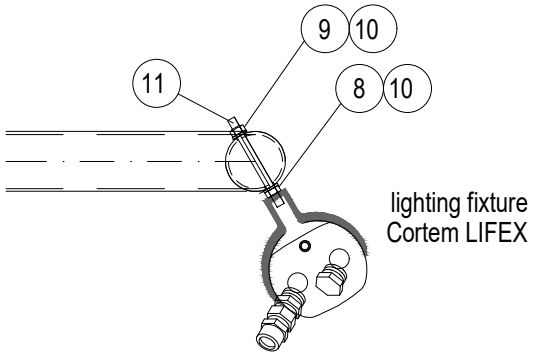
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L11A



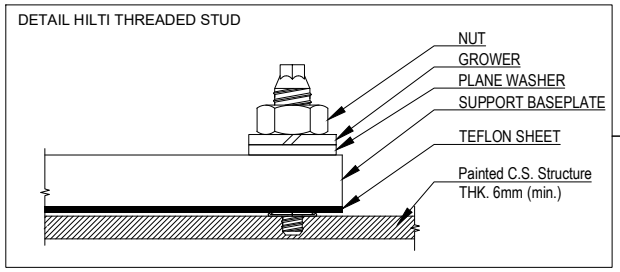
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND ~~C/W EARTH TAG,~~ WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

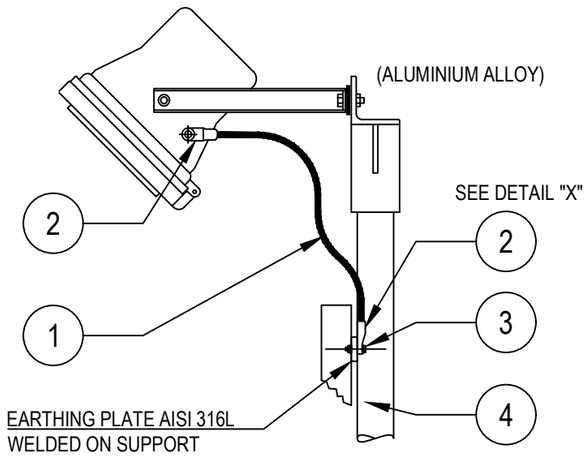
F.to UNI A3: 420mmx297mm

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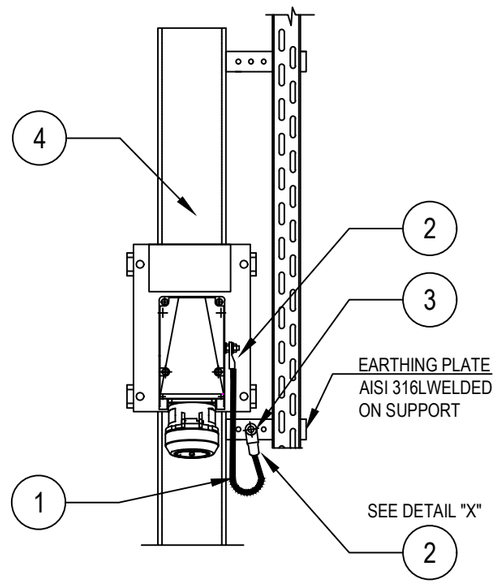
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

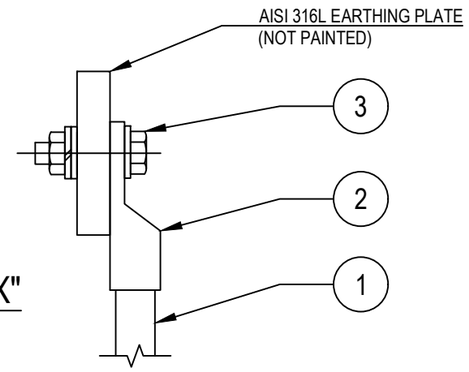
LIGHTING FIXTURE/GENERAL ITEM ON POLE



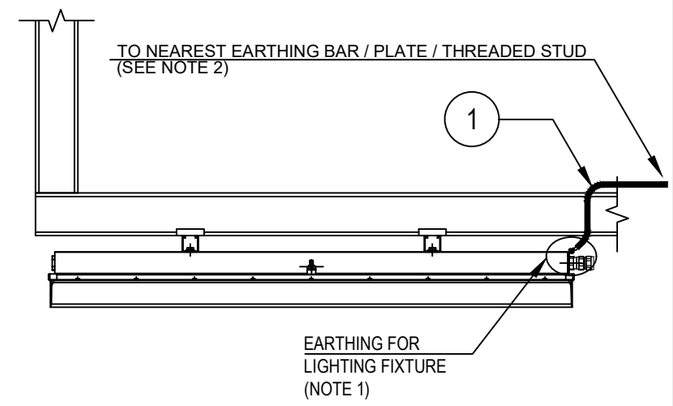
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

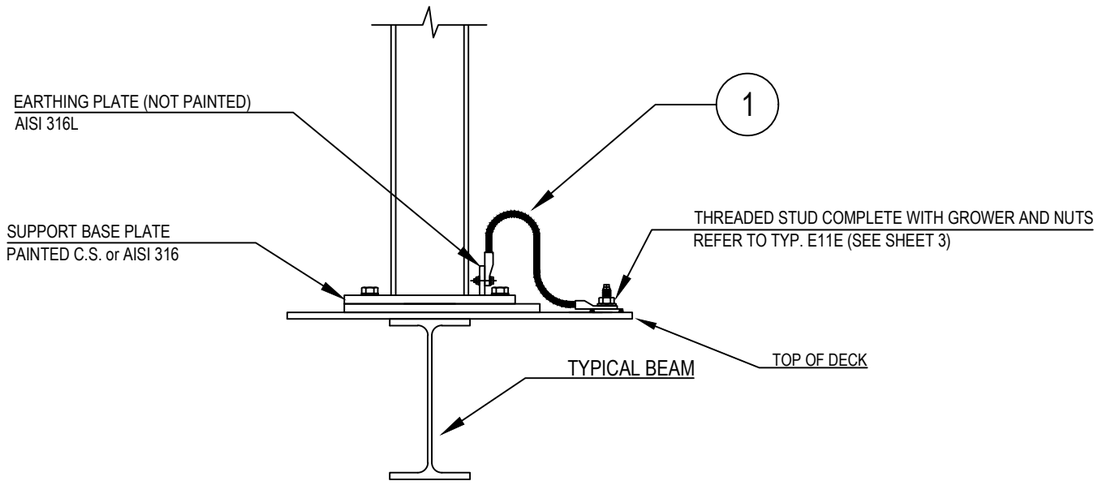
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

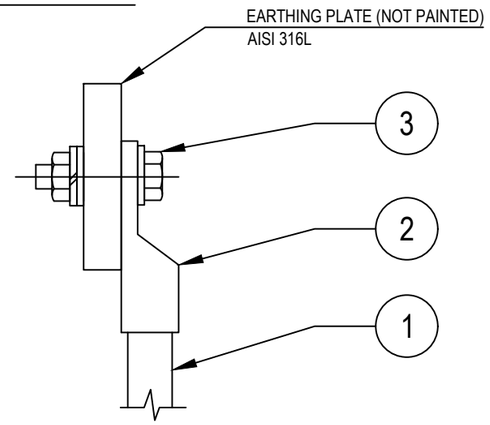
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

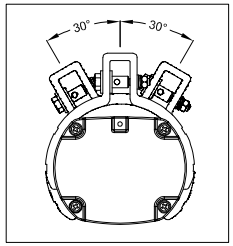
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

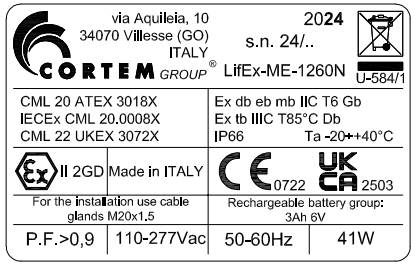
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



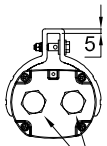
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

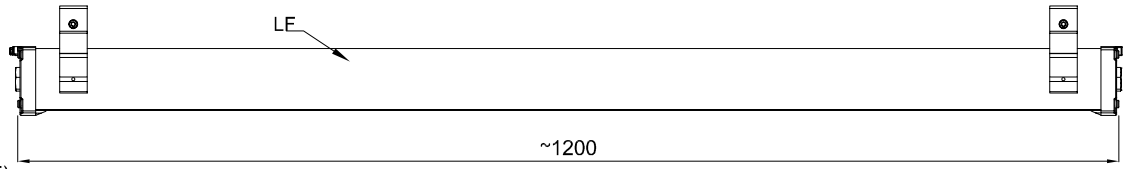
CERTIFICATE NAMEPLATE



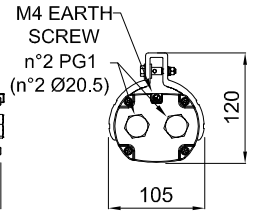
LEFT SIDE (OUT)



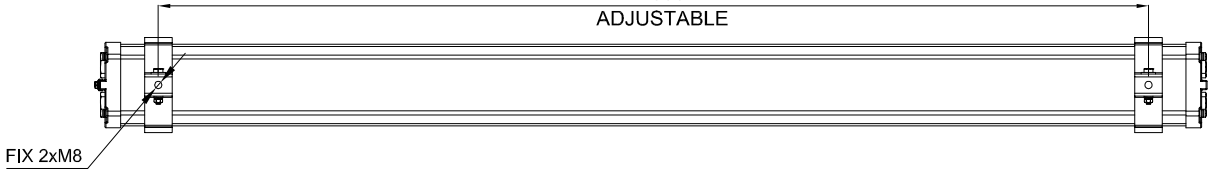
FRONT SIDE



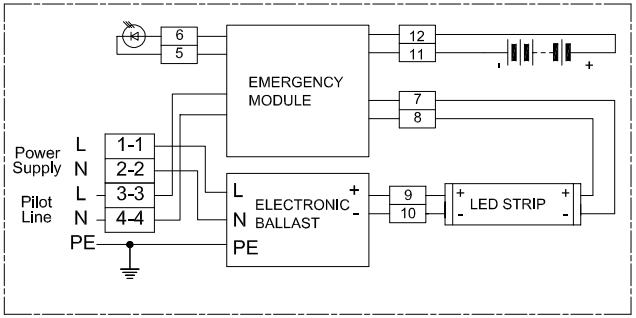
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-21	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001421		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

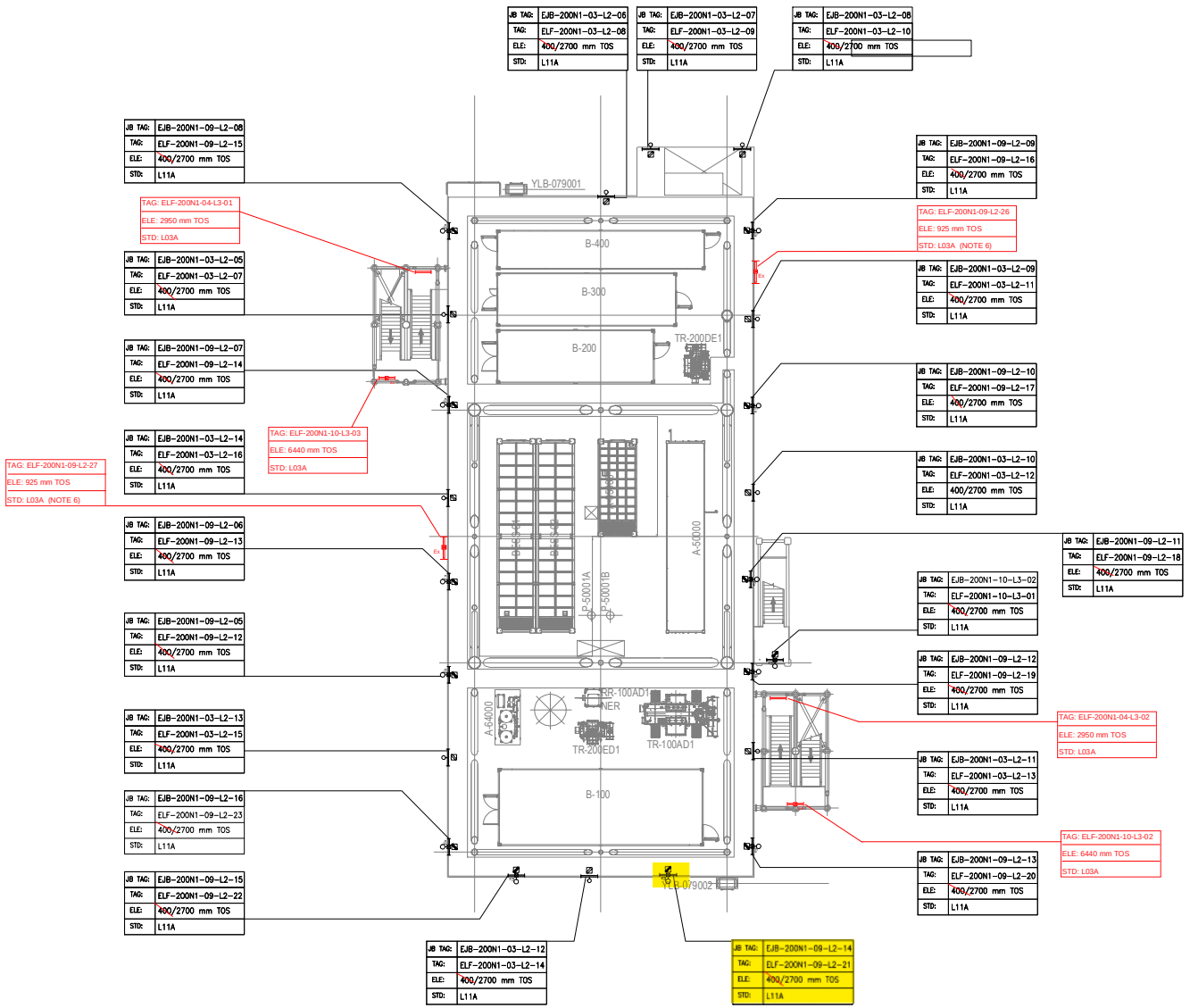
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

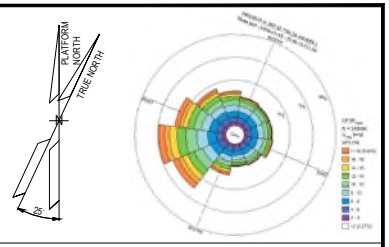
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-13	2024-12-16	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-13T10:22:38.112Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-16T16:15:21.728Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG: — JB-TAG
TAG: — TAG
ELE: — ELEVATION
STD: — STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

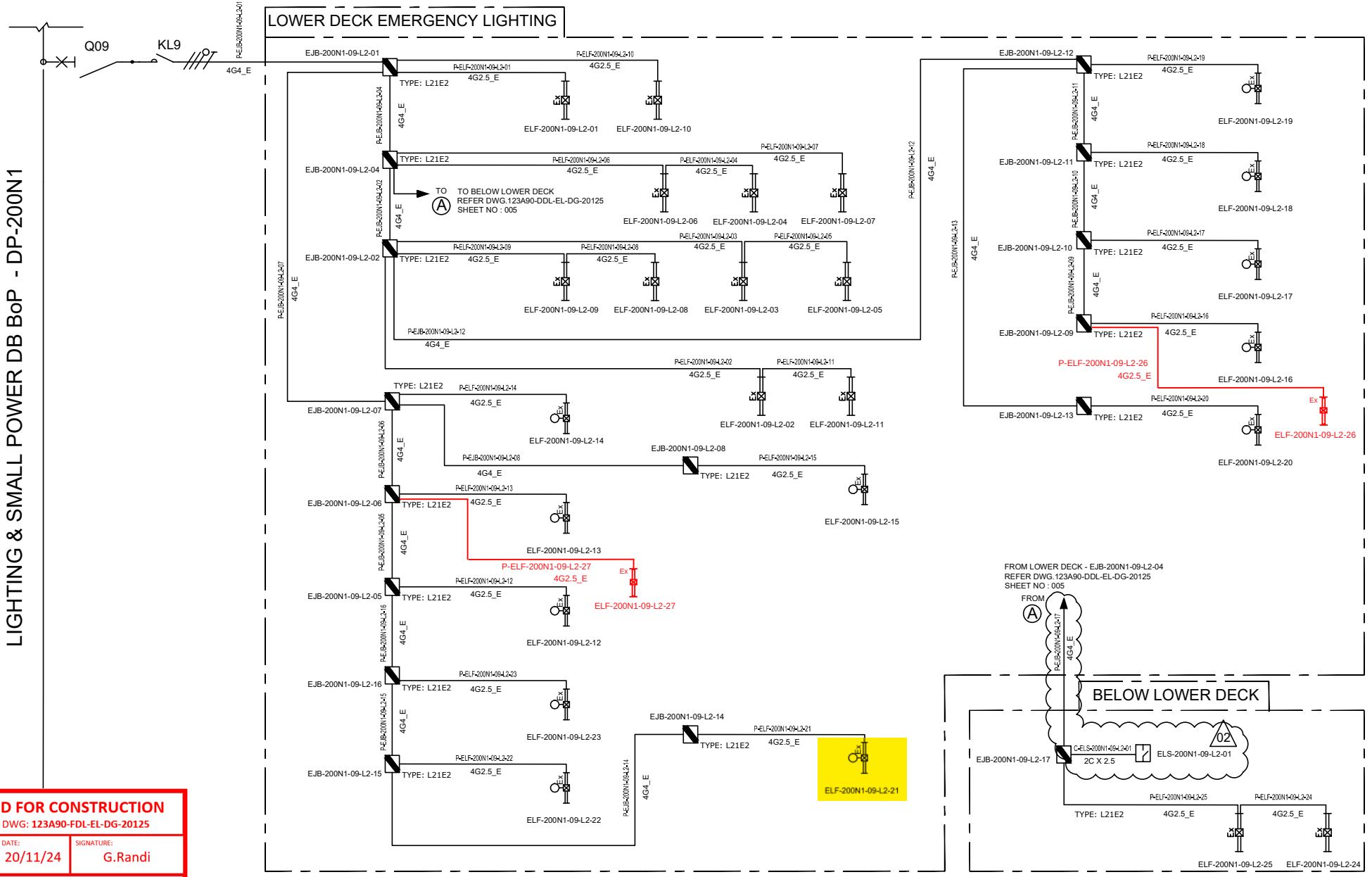
ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90-DDL-EL-DG-20125	005	02

CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

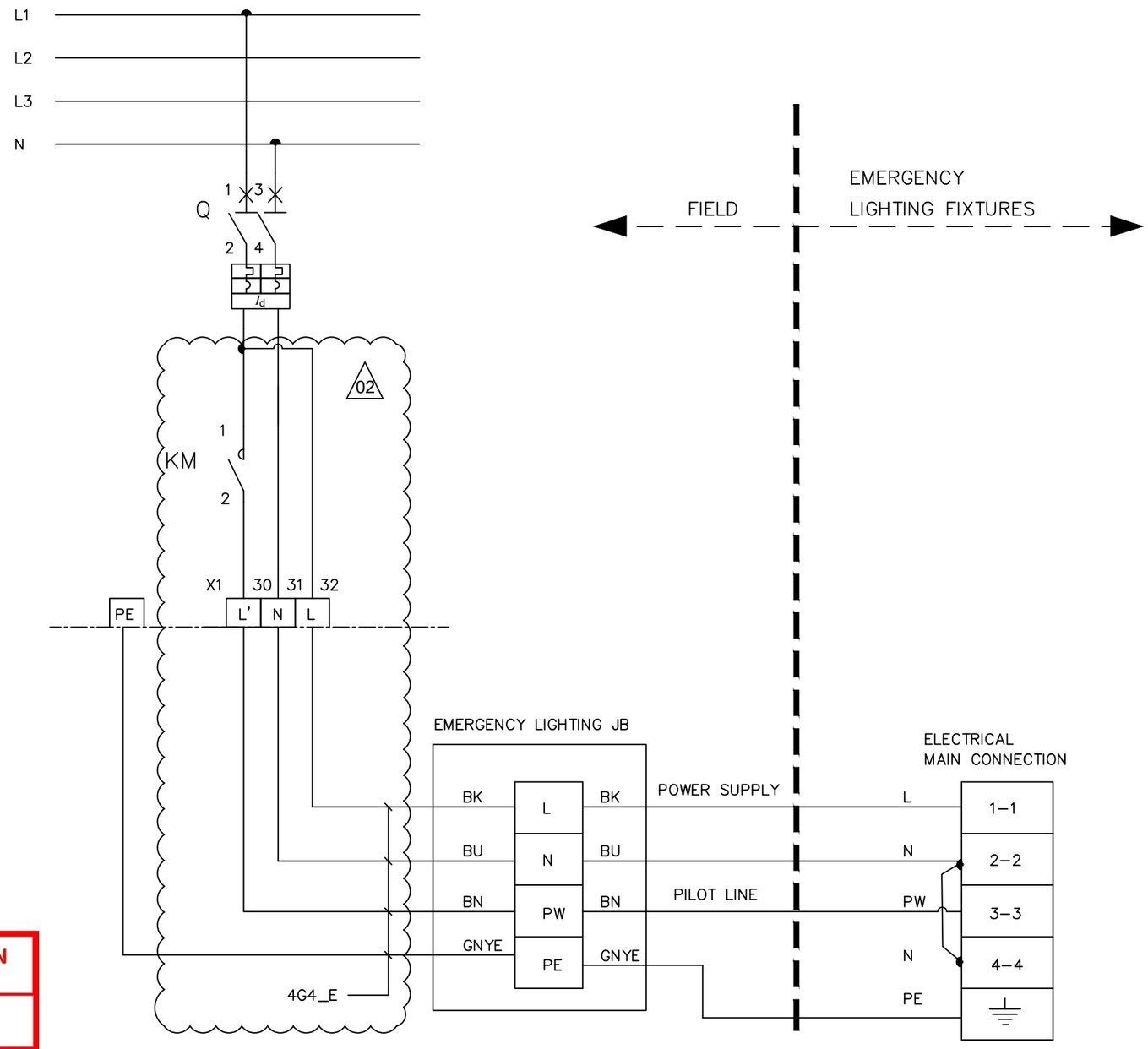
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

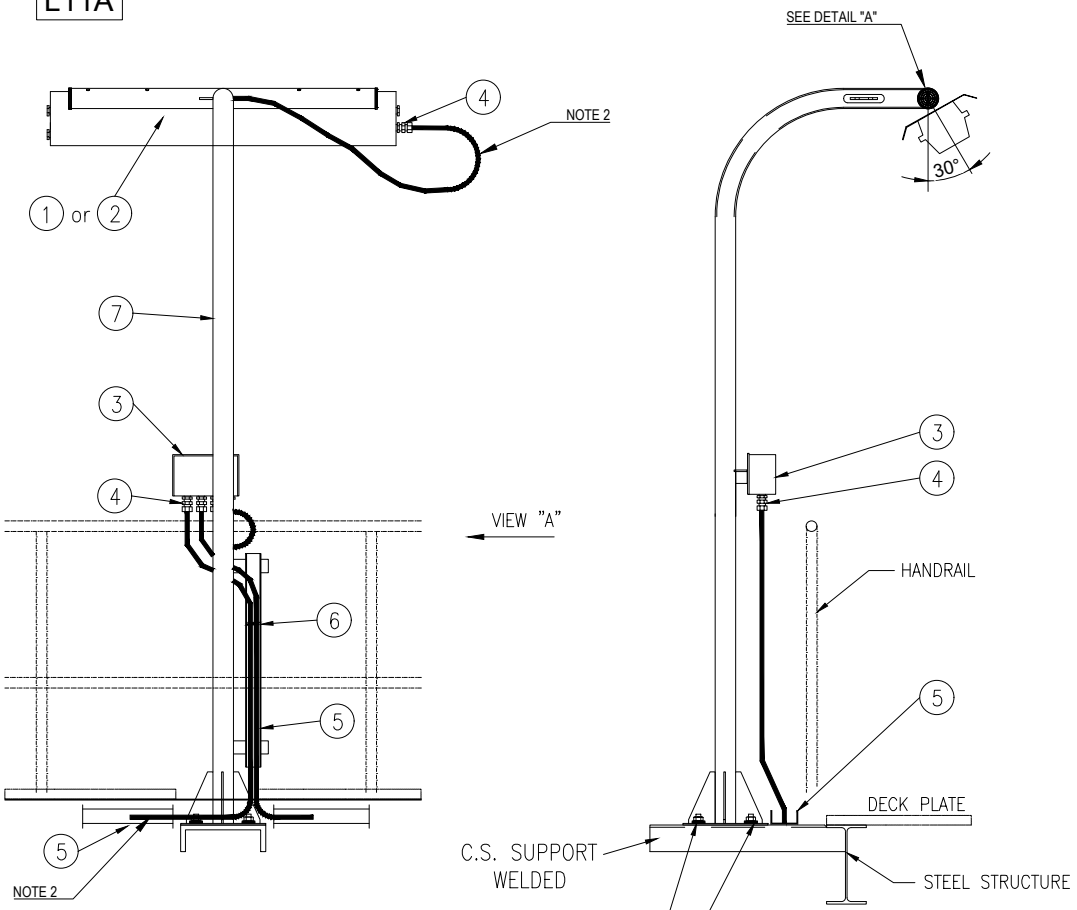
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

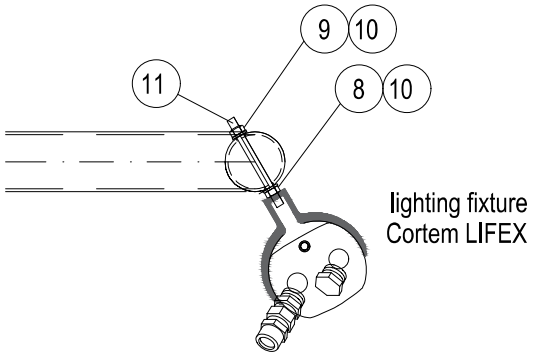
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L11A



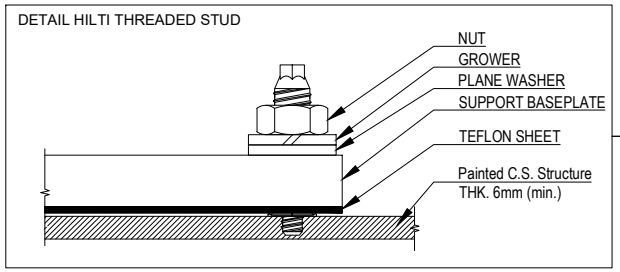
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

02

CROSSWIND

ROSETTI MARINO

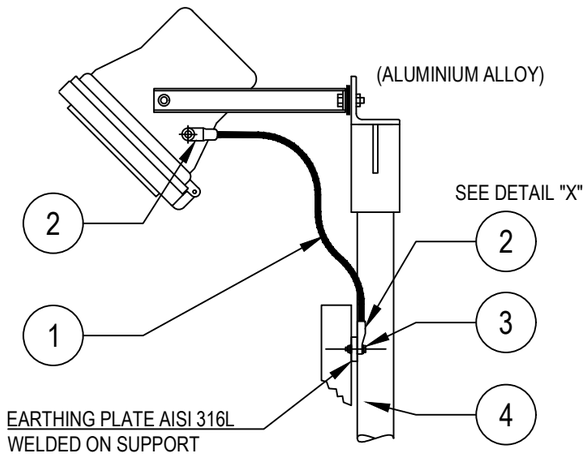
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

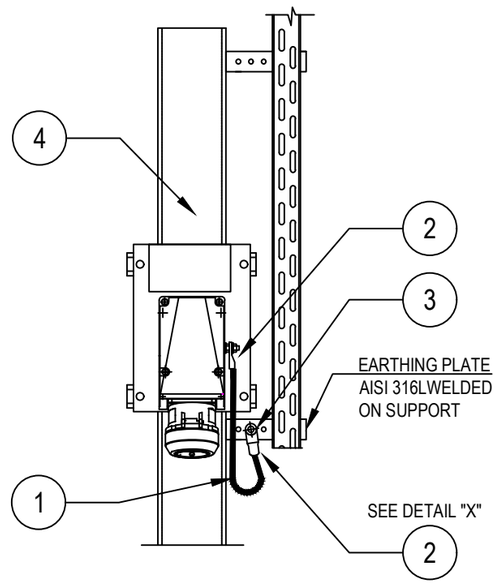
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

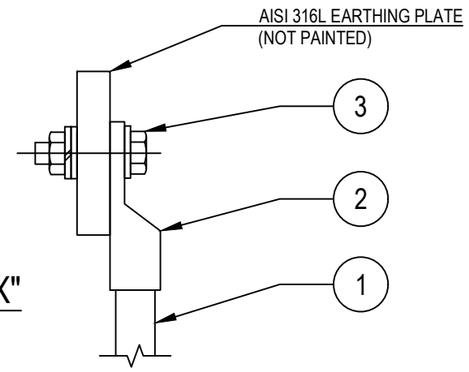
LIGHTING FIXTURE/GENERAL ITEM ON POLE



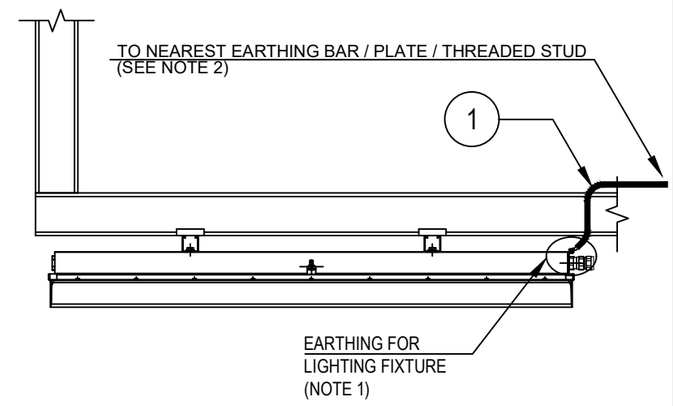
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

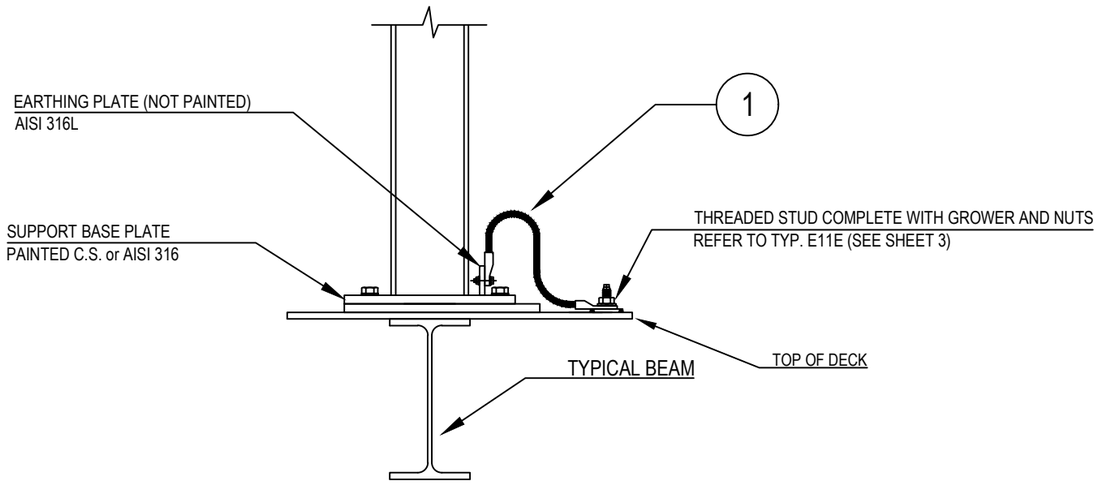
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

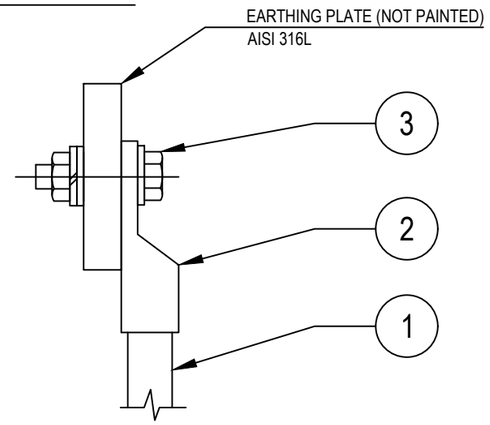
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

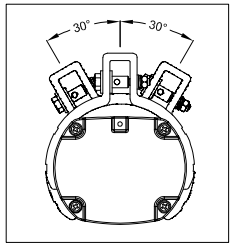
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

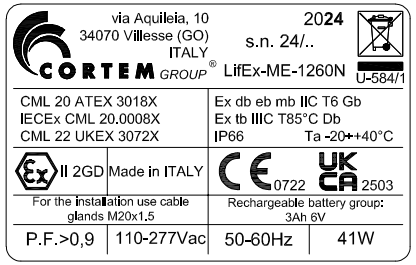
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



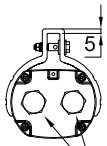
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

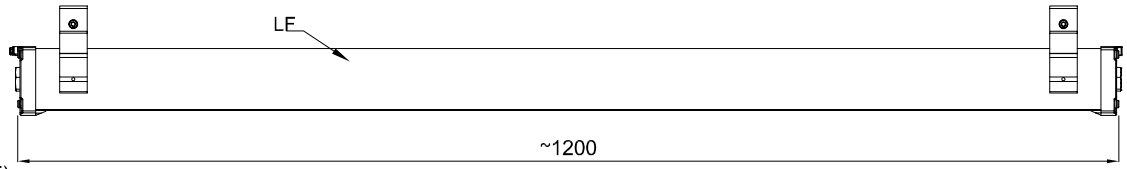
CERTIFICATE NAMEPLATE



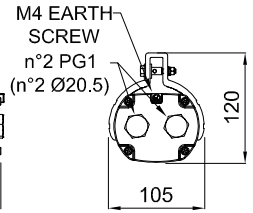
LEFT SIDE (OUT)



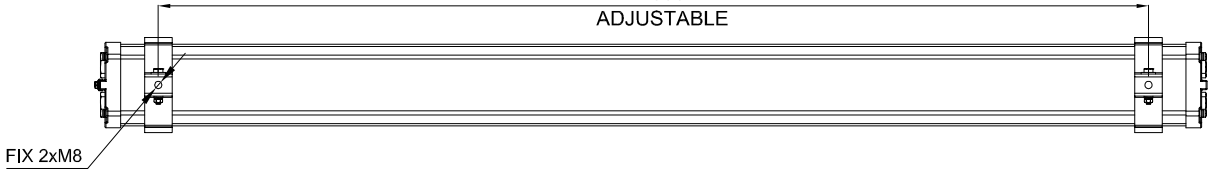
FRONT SIDE



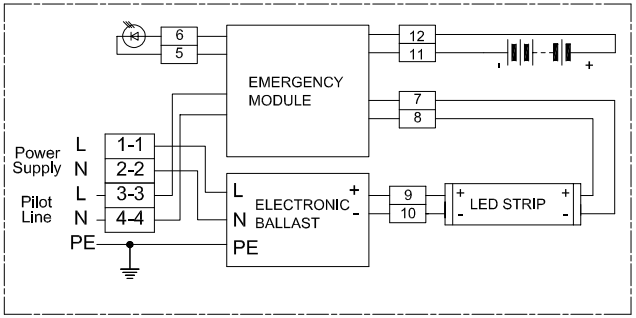
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 2 / NEXT /

TOT. 2

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Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-22	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001422		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

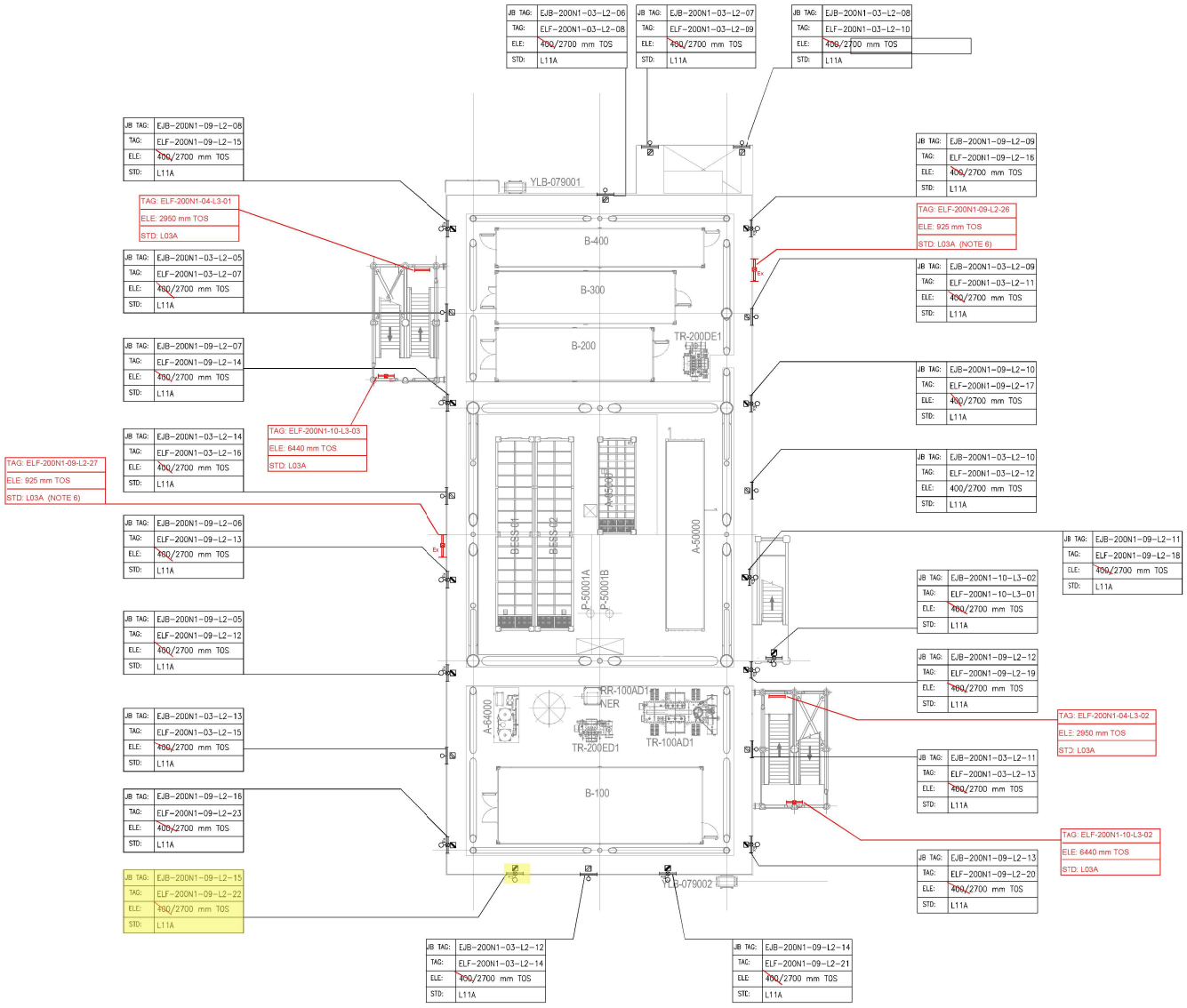
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	PL
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

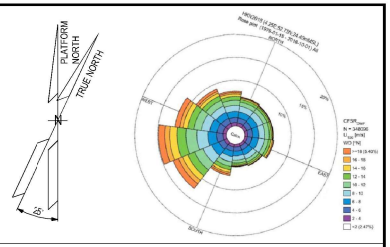
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Luca Mussi	
Date	2024-12-02	2024-12-04	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-02T16:26:54.628Z	PROVERLIS Digitaly signed by Luca Mussi 2024-12-04T13:22:45.723Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_D	20/11/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 4G4_E P-EJB-200N1-09-L2-01

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2
- P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01
- P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10

EJB-200N1-09-L2-04 — TYPE: L21E2
- P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06
- P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04
- P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07
- TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09
- P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08
- P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03
- P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05
- P-EJB-200N1-09-L2-12 4G4_E

EJB-200N1-09-L2-12 — TYPE: L21E2
- P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19
- P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18
- P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17
- P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16
- P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

EJB-200N1-09-L2-11 — TYPE: L21E2

EJB-200N1-09-L2-10 — TYPE: L21E2

EJB-200N1-09-L2-09 — TYPE: L21E2
- P-ELF-200N1-09-L2-26 4G2.5_E → ELF-200N1-09-L2-26

EJB-200N1-09-L2-13 — TYPE: L21E2

EJB-200N1-09-L2-07 — TYPE: L21E2
- P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02
- P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11
- P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14

EJB-200N1-09-L2-08 — TYPE: L21E2
- P-EJB-200N1-09-L2-08 4G4_E
- P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15

EJB-200N1-09-L2-06 — TYPE: L21E2
- P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13
- P-ELF-200N1-09-L2-27 4G2.5_E → ELF-200N1-09-L2-27

EJB-200N1-09-L2-05 — TYPE: L21E2
- P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12

EJB-200N1-09-L2-16 — TYPE: L21E2
- P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23

EJB-200N1-09-L2-15 — TYPE: L21E2
- P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2
- P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A)

BELOW LOWER DECK

EJB-200N1-09-L2-17
- C-ELS-200N1-09-L2-01 2C X 2.5 → ELS-200N1-09-L2-01 (02)
- P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25
- P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND — ROSETTI MARINO

File Name : 123A90-DDL-EL-DG-20125

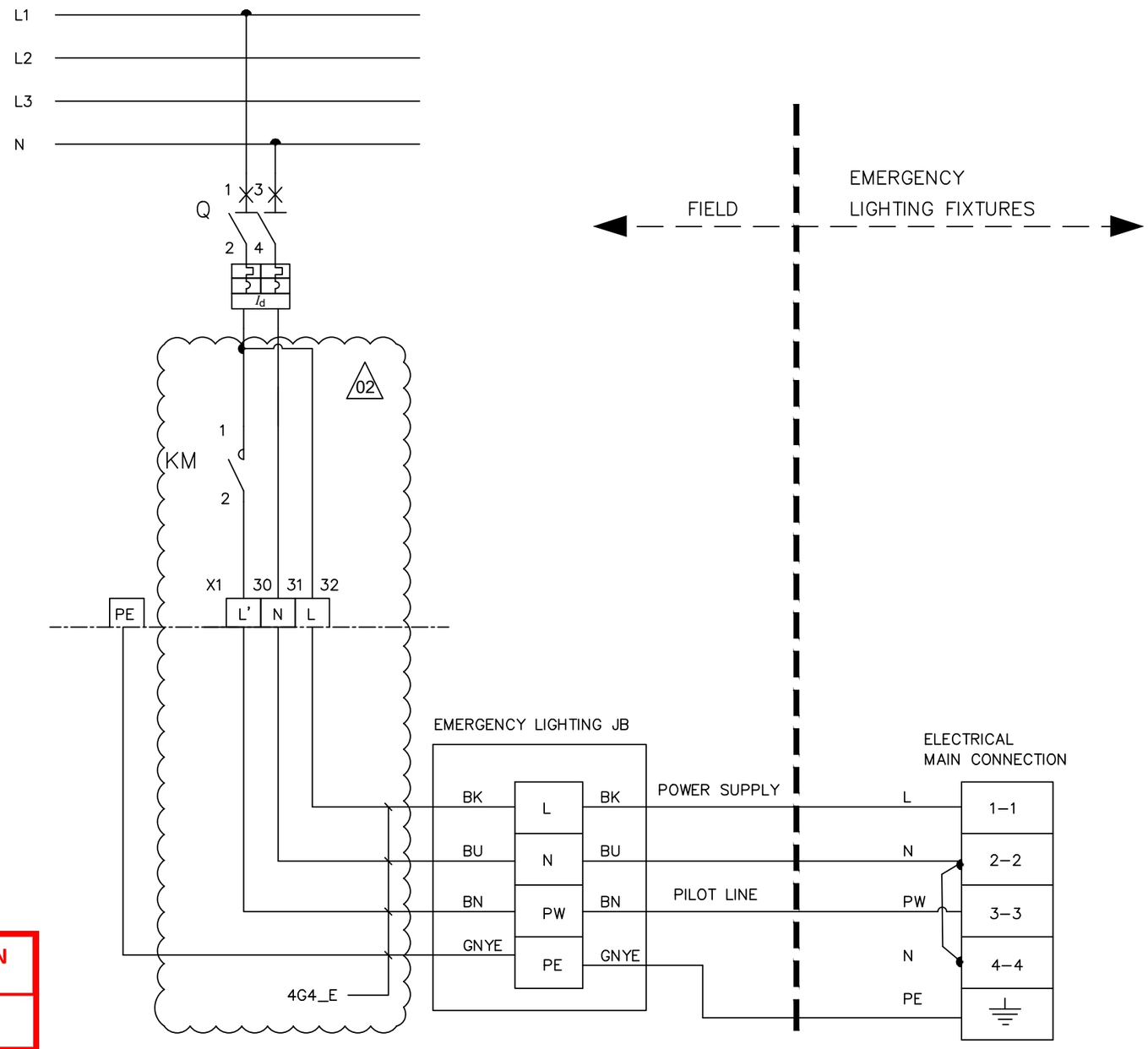
F.to UNI A3: 420mmx297mm

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

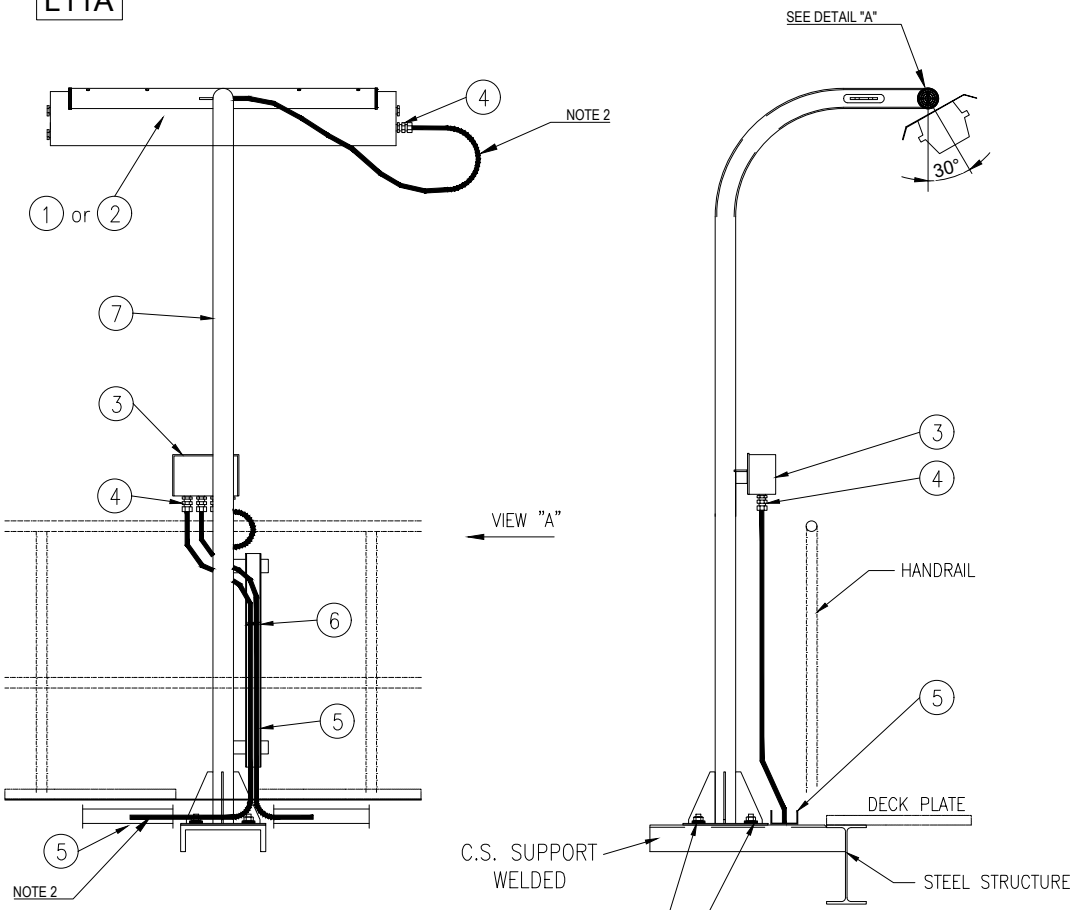
CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

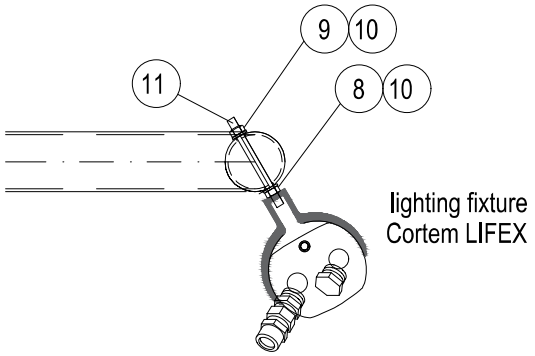
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L11A



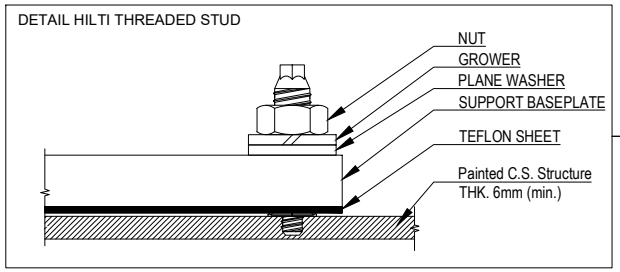
VIEW "A"

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

02

CROSSWIND

ROSETTI MARINO

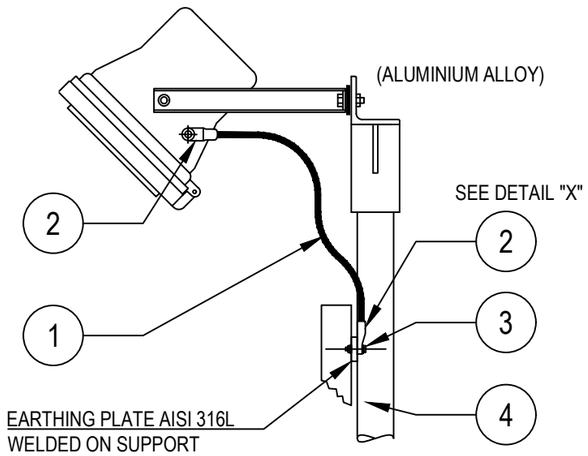
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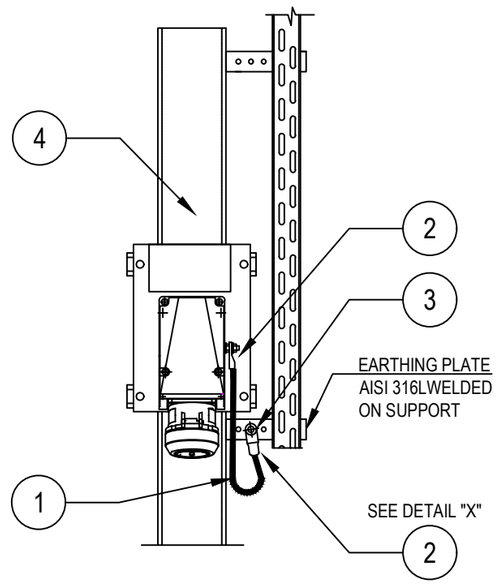
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

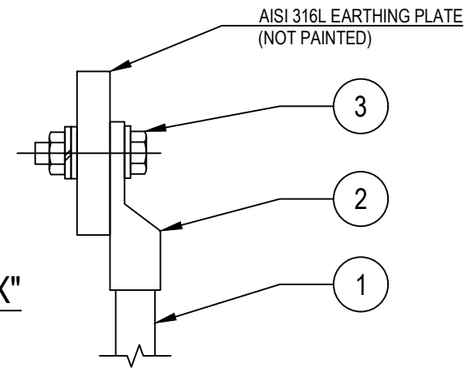
LIGHTING FIXTURE/GENERAL ITEM ON POLE



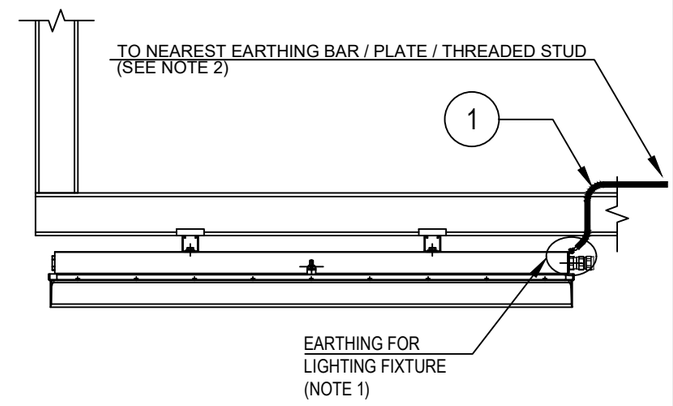
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

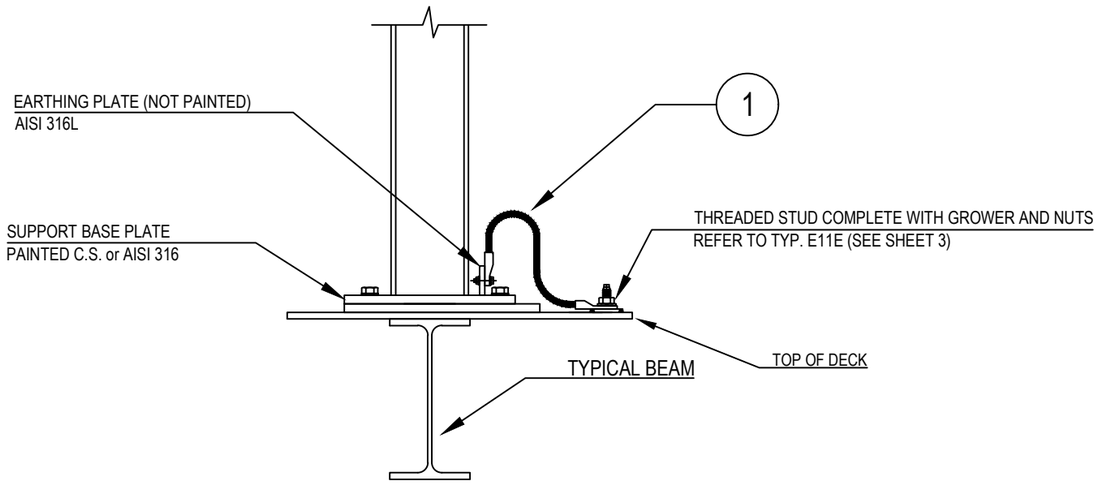
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

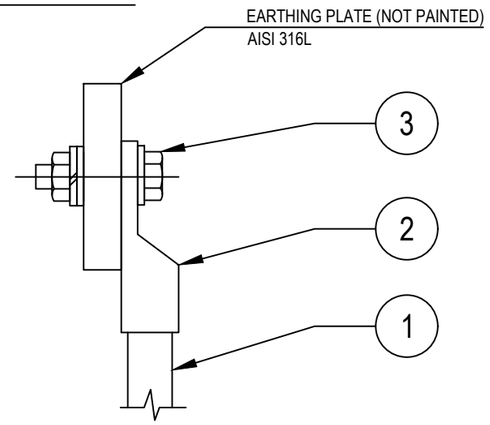
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

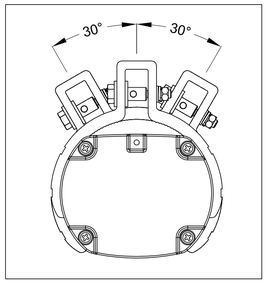
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 1
- Q.TY: 57
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

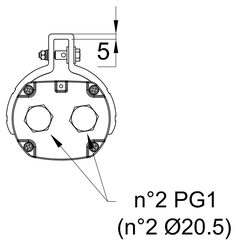
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



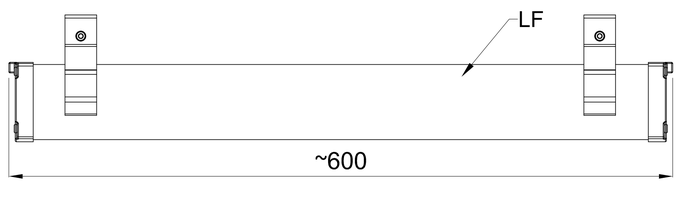
LF INFORMATION	
NOMINAL POWER	45W
CONSUMED POWER	43,5W
POWER FACTOR	>0,93
RATED CURRENT	200 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6200 lm
LIGHT INTENSITY	2248 cd
EFFICIENCY	143 lm/W
WEIGHT	2,5 Kg
IP PROTECTION	IP66

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-0645-BB	110-277Vac 50-60Hz 45W LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

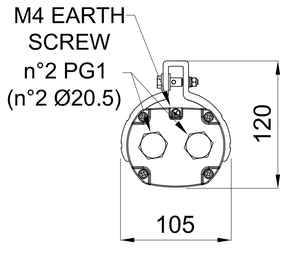
LEFT SIDE (OUT)



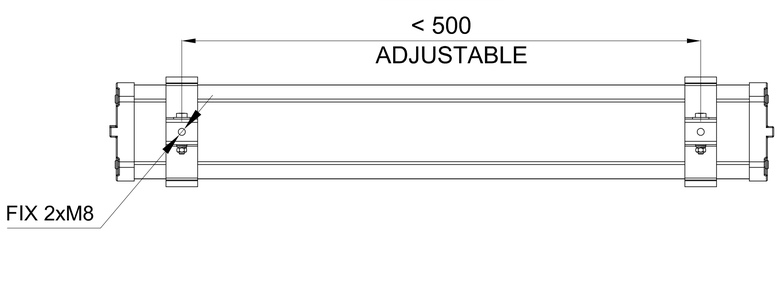
FRONT SIDE



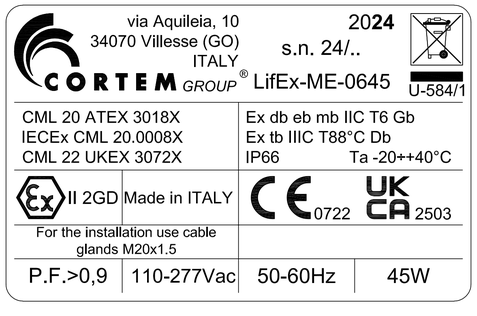
RIGHT SIDE (IN)



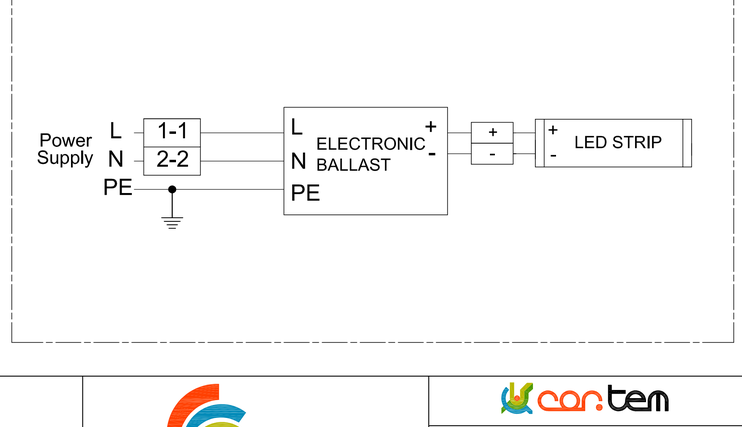
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
001 LIFEX-ME-0645-BB/C2402693/10.

CORTEM JOB: COV2402693

DRAWING SCALE: /

DRAWING NUMBER: A3-C 27521

SHEET 1 / TOT. 2

NEXT 2

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AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-23	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10001423		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

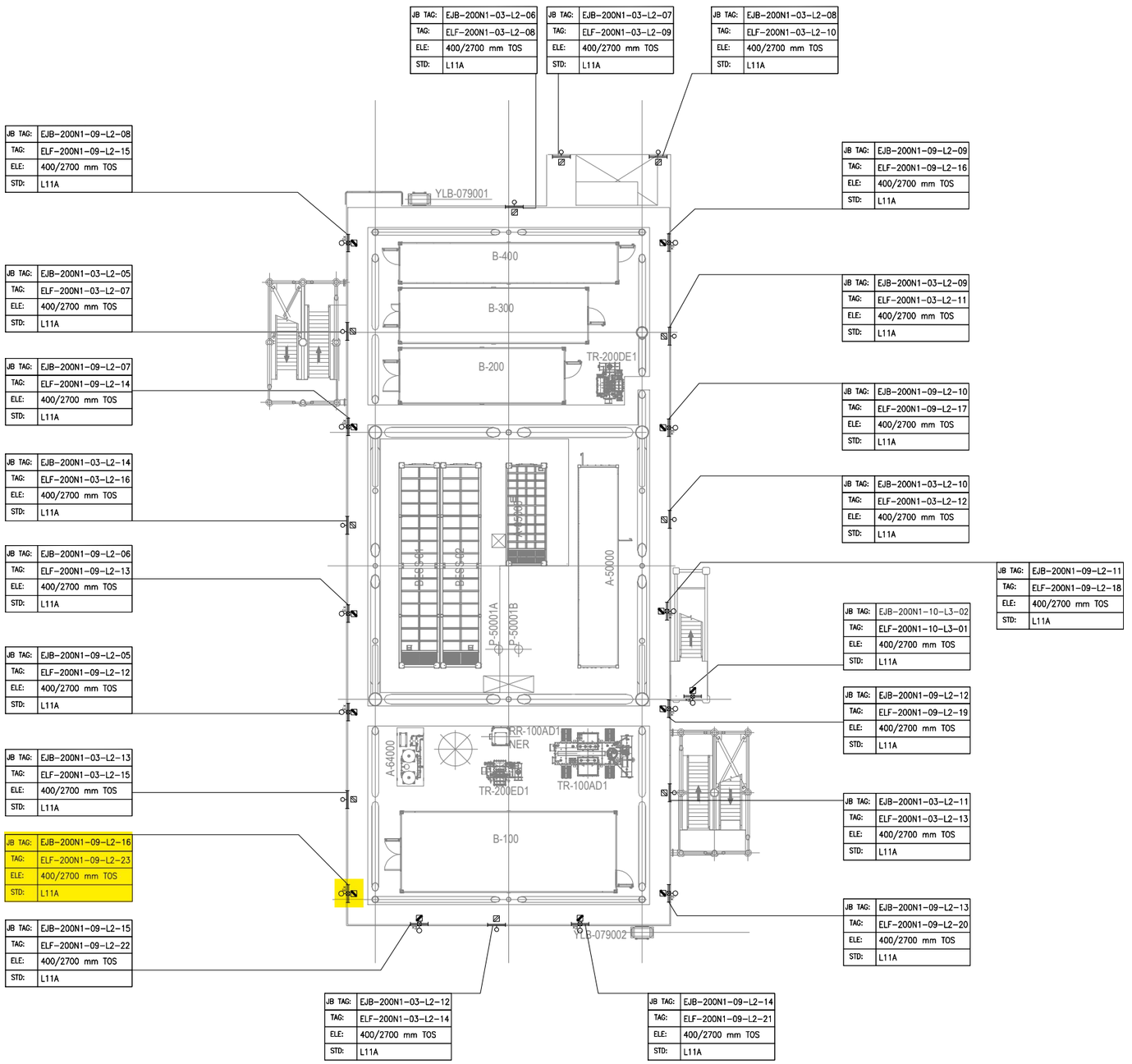
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	PL
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	PL
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

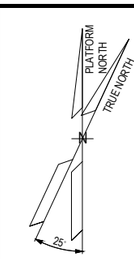
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Francesco Zucca	Andrea Andreani	
Date	2024-12-05	2024-12-06	
Signature	PROVERLIS Digitaly signed by Francesco Zucca 2024-12-05T18:15:01.200Z	PROVERLIS Digitaly signed by Andrea Andreani 2024-12-06T17:48:34.633Z	

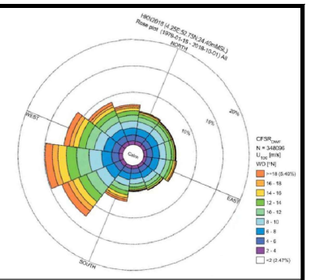
DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S





NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20119**

REV.:	DATE:	SIGNATURE:
1_A	08/08/24	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

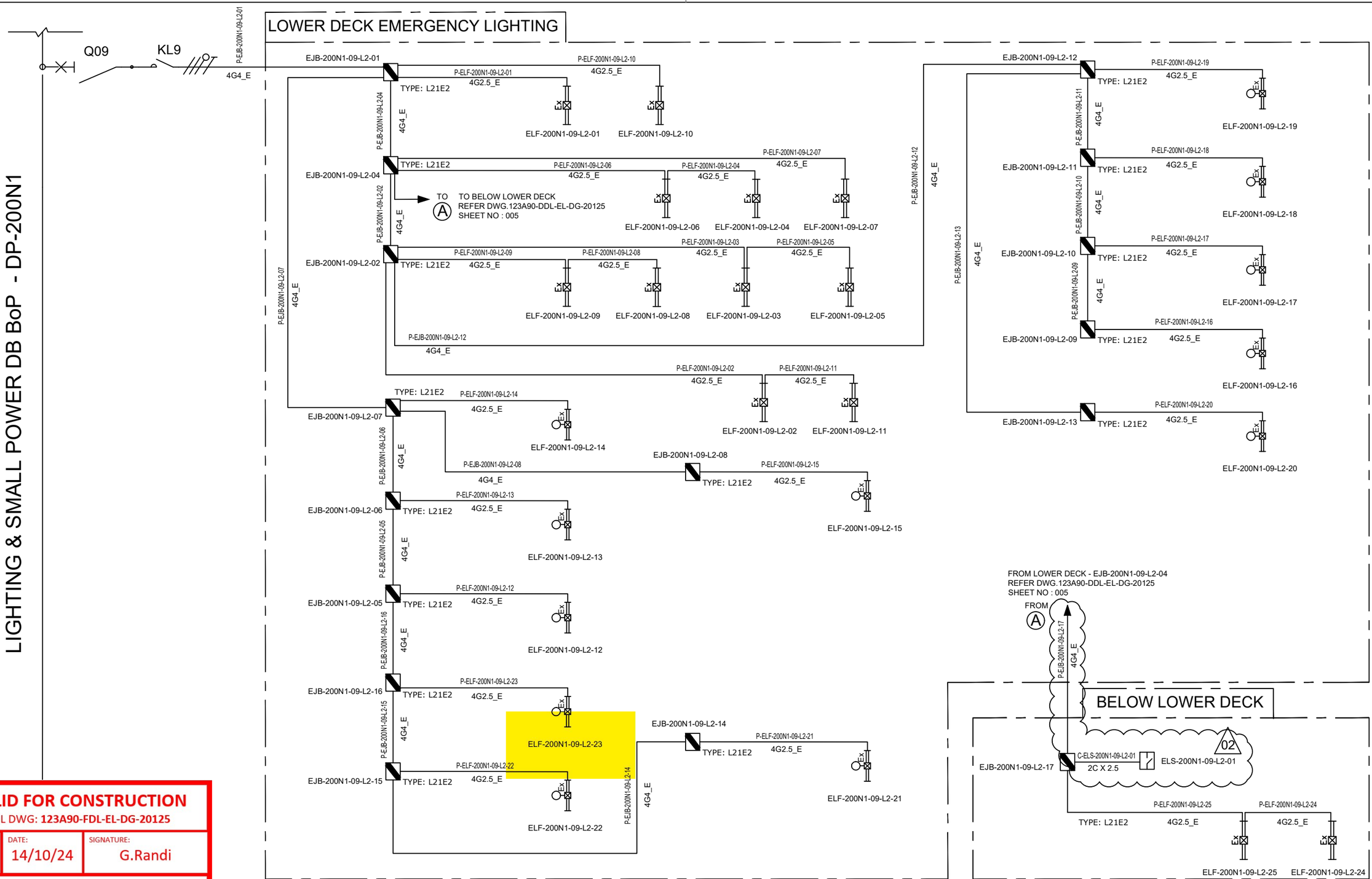
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
1_B	14/10/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

CROSSWIND

ROSETTI MARINO

F.to UNI A3: 420mmx297mm

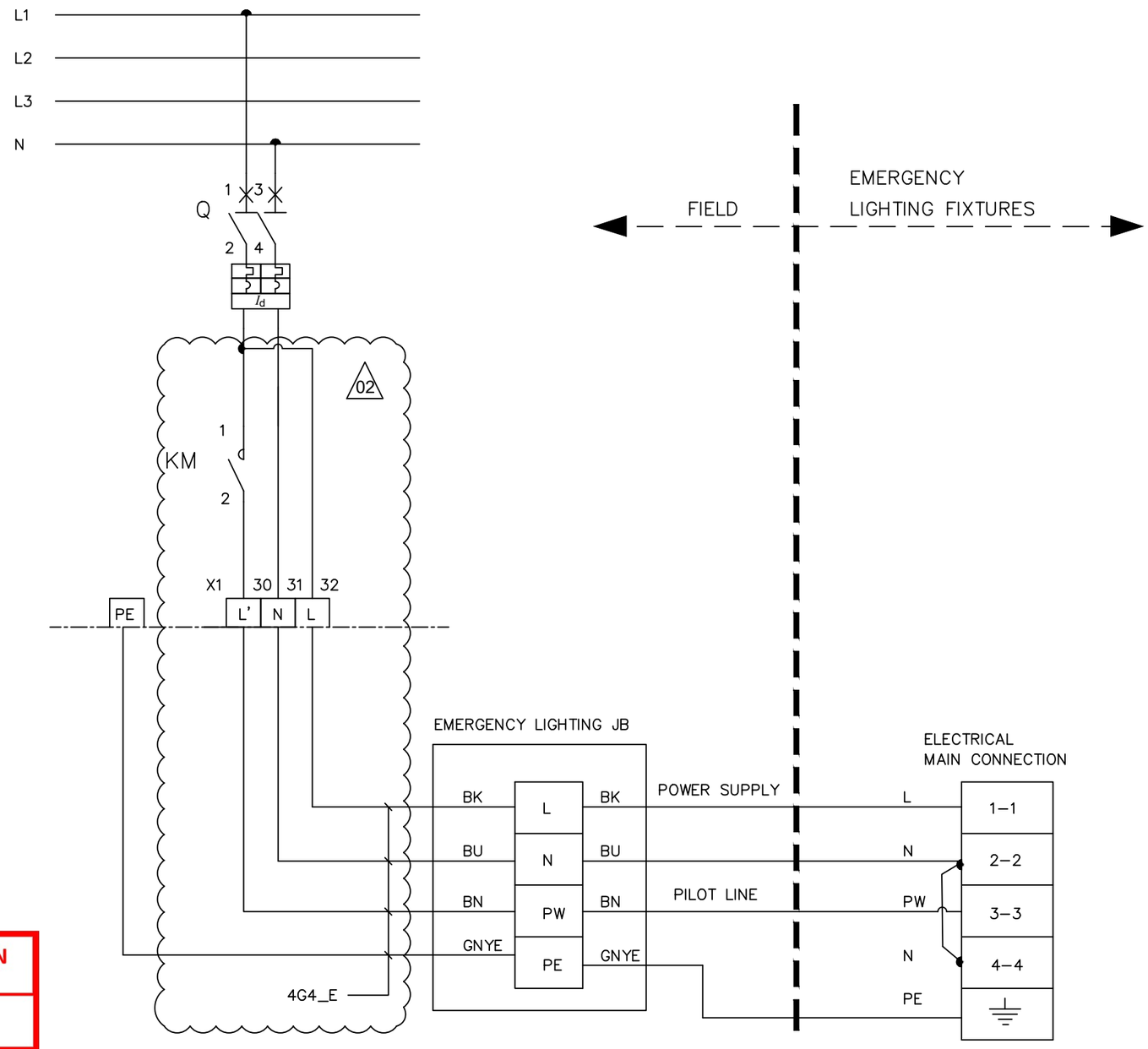
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_B	20/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

REV. 02

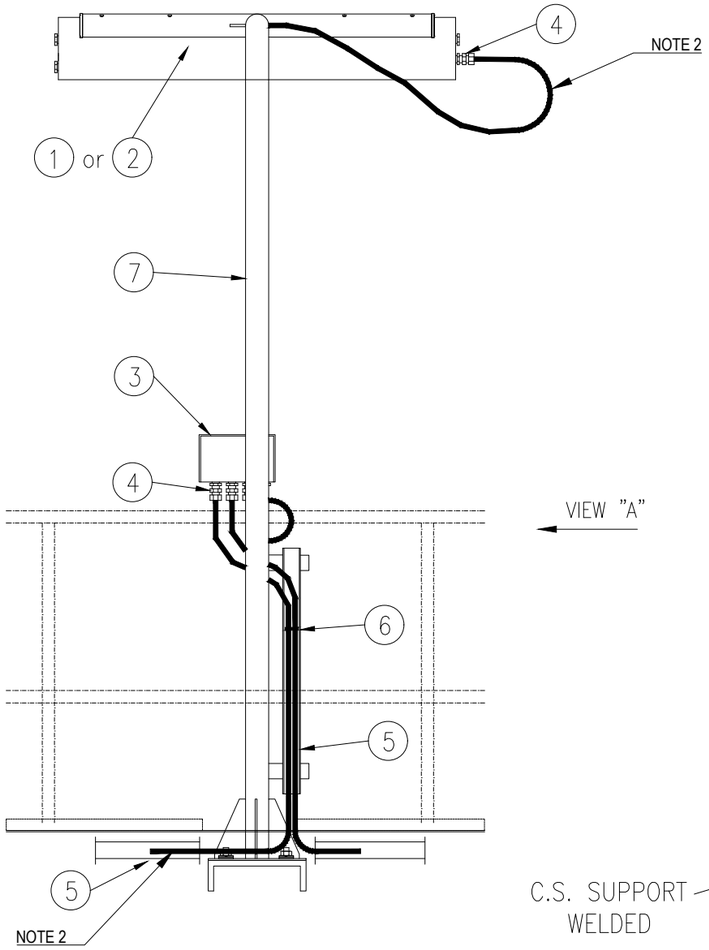
CROSSWIND

ROSETTI MARINO

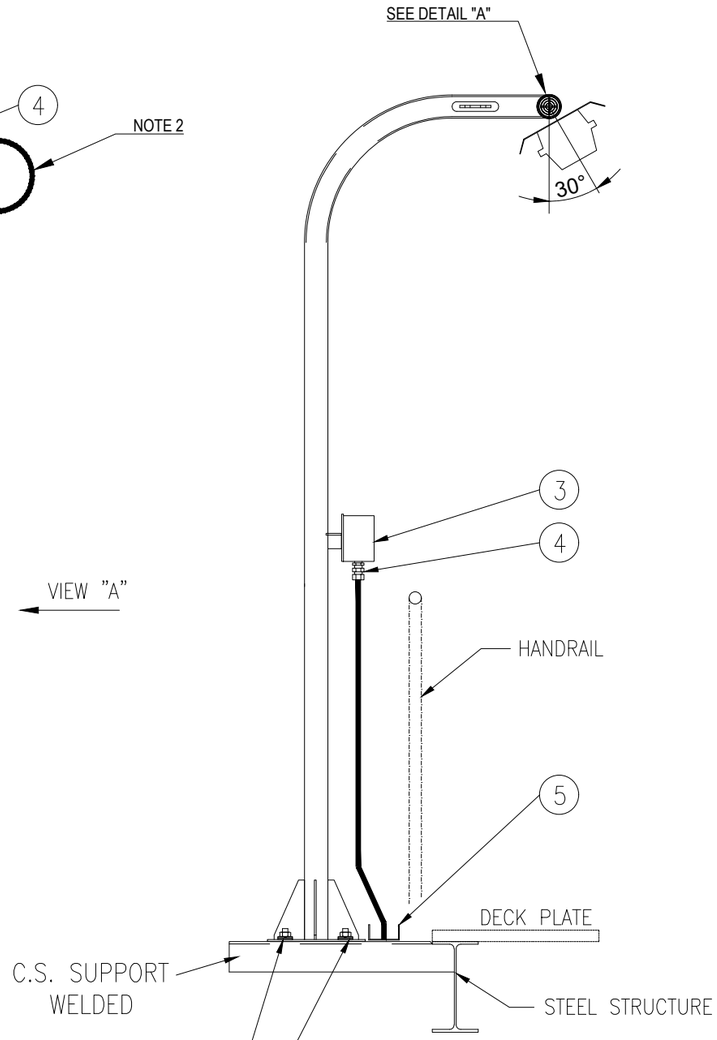
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L11A

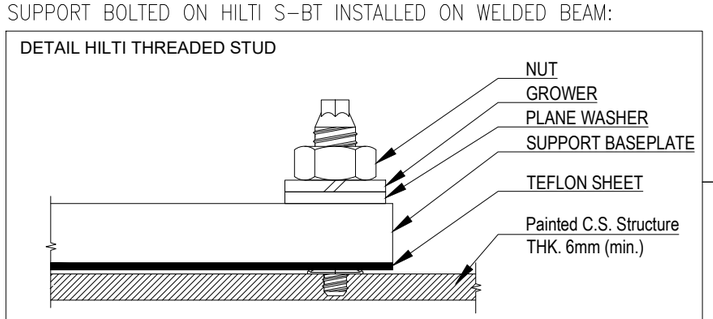


VIEW "A"

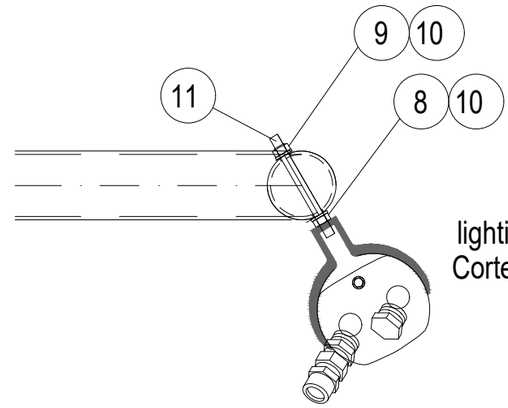


VIEW "A"

SUPPORT BOLTED ON HILTI S-BT INSTALLED ON WELDED BEAM:



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	42W LED LUMINARIES	ALUMINIUM ALLOY		1	
2	45W LED LUMINARIES C/W BATTERY	ALUMINIUM ALLOY		1	
3	JUNCTION BOX (Ex)	GRP		1	NOTE 1
4	CABLE GLAND C/W EARTH TAG, WASHERS, LOCKNUT AND WEATHERPROOF WASHERS	BRASS NICKEL PLATED		AS REQ.	
5	CABLE TRAY	AISI 316L			
6	STAINLESS STEEL NYLON COATED CABLE TIE	SS NYLON COATED			
7	POLE SUPPORT FOR LAMP	AISI 316L	2"		
8	NUT	AISI 316L	M8		
9	SELF.LOCKING NUT	AISI 316L	M8		
10	LARGE PLANE WASHER (24mm DIAM.)	AISI 316L	M8		
11	THREADED ROD M8x100	AISI 316L	M8		



DETAIL "A"

NOTES:

1) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

2) ALWAYS ENSURE CABLE LENGTH IS >3m

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20091
REV.: 2_A | DATE: 30/09/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

02

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-LIGHTING SYSTEM
LIGHTING FIXTURE MOUNTED ON POLE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 014 | REV. 02

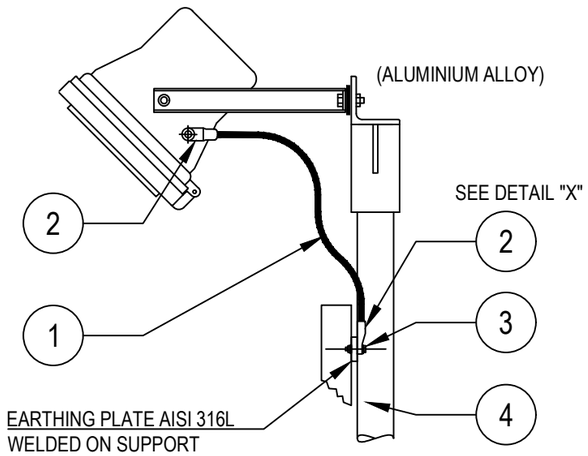
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

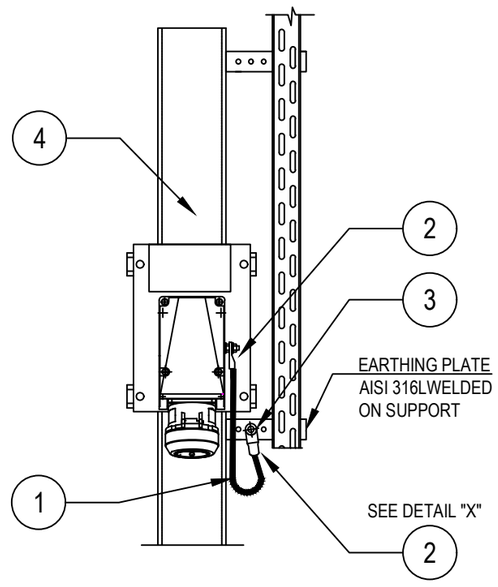
E05

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	Y/G INSULATING COPPER CONDUCTOR	COPPER	$6mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$6mm^2$	2	
3	HEXAG. BOLTS, PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M8X30	1	

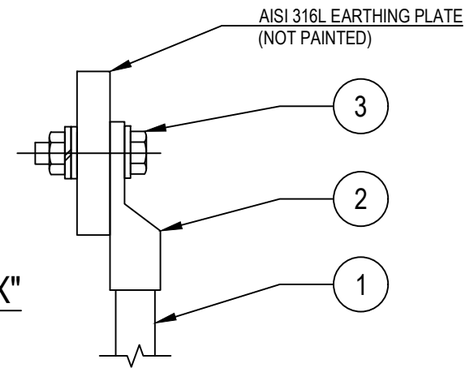
LIGHTING FIXTURE/GENERAL ITEM ON POLE



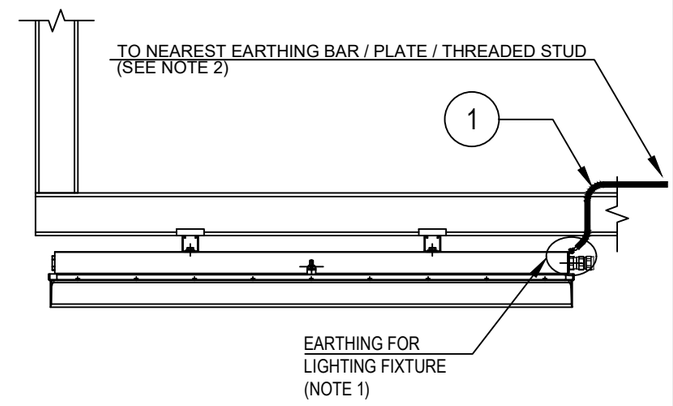
POWER SOCKET OUTLET



DETAIL "X"



LIGHTING FIXTURES



Refer also to TYP. "E32" (SEE SHEET 23)

TYPICAL VALID ALSO FOR NAVAID LIGHTS

NOTES:

1) ALL LIGHTING FIXTURES AND RELEVANT ARMOUR OF THE CABLE, ARE CONNECTED TO EARTH CONNECTION THROUGH THE EARTHING TAG OF THE CABLE GLAND

2) FOR EARTHING POINT USE ONE OF THE FOLLOWING METHODS:
TYP. E03A-D sh. 004 (EARTHING BAR ON STRUCT. UNISTRUT AND CABLE TRAY)
TYP. E11C sh. 003 (EARTHING PLATE)
TYP. E11D sh. 003 (THREADED STUD ON EXTERNAL STRUCTURE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR ELECTRICAL EQUIPMENTS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 006 | REV. 02

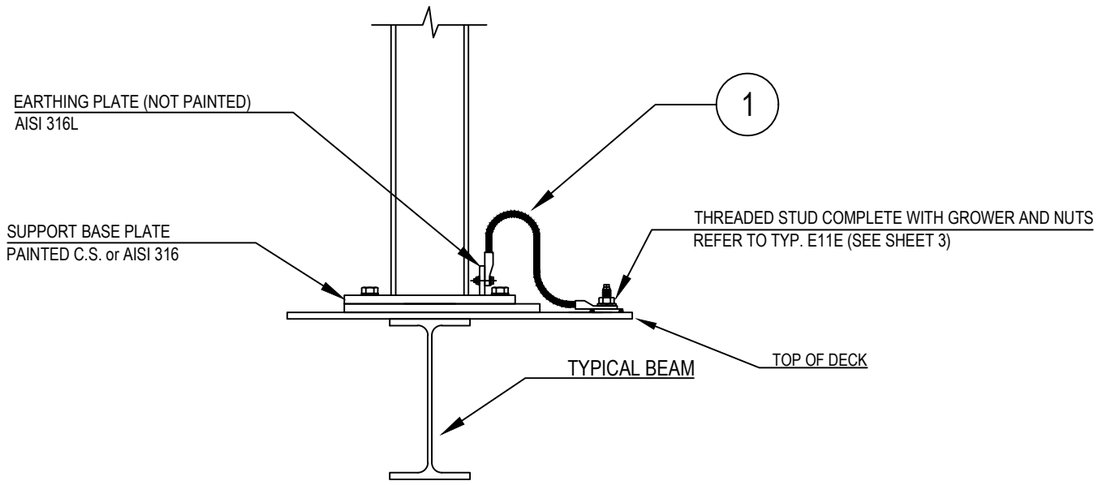
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

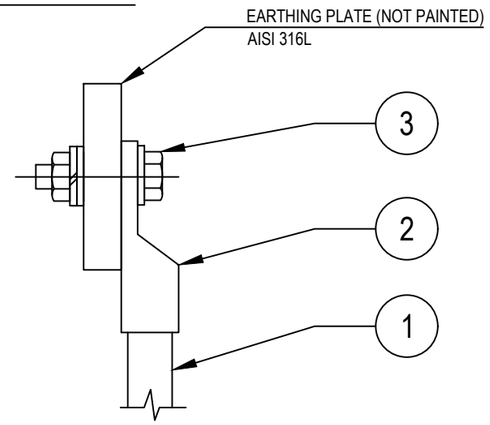
E24

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	As. R. Y/G INSULATING COPPER CONDUCTOR	COPPER	$35mm^2$		
2	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER	$35mm^2$	2	~~NOTE 1~~
3	HEXAG. BOLT M10X30 COMPLETE WITH PLANE WASHERS, SPRING WASHER AND NUT	AISI 316L	M10X30	2	

GENERIC SUPPORT BOLTED ON STRUCTURE



DETAIL "X"



NOTES:
1) ~~CABLE LUG CRIMPING METHOD SHALL BE HEXAGONAL COMPRESSION DIES ONLY.~~
2) EXTERNAL EARTHING CONNECTION ONLY SHALL BE PROTECTED AGAINST CORROSION USING OXIDE RESISTANT COMPOUND (E.G. COPPER GREASE)

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20090**

REV.:	DATE:	SIGNATURE:
2_H	05/11/24	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING FOR POLE/SUPPORT OF GENERIC EQUIPMENTS

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3	DRAWING NO.	SHEET	REV.
	123A90–DDL–EL–DD–20090	012	02

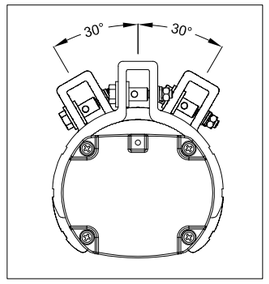
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

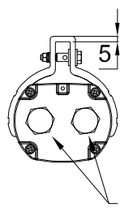
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



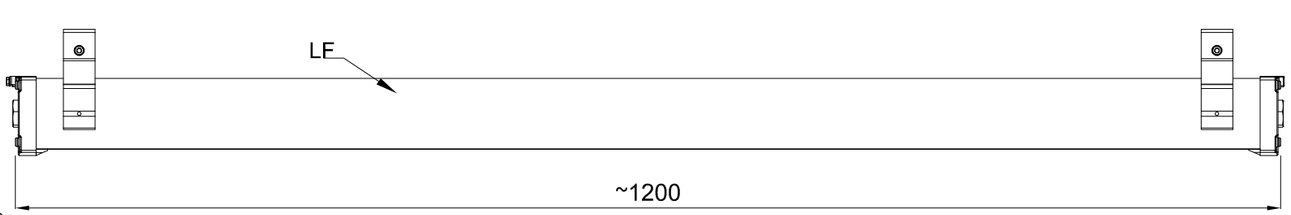
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

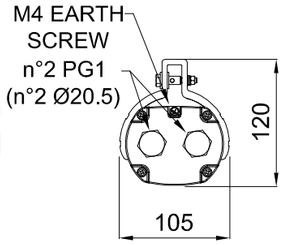
LEFT SIDE (OUT)



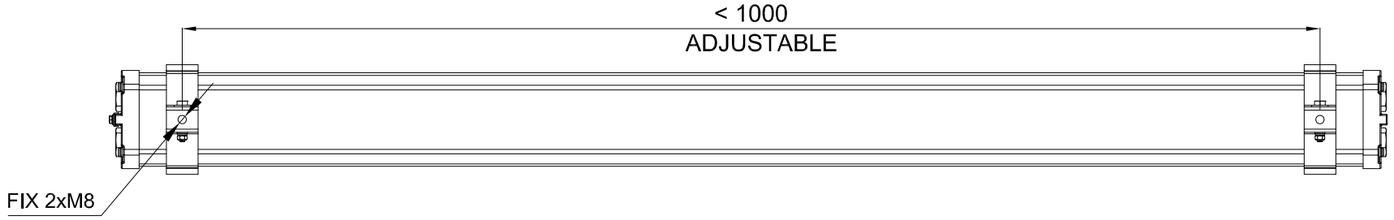
FRONT SIDE



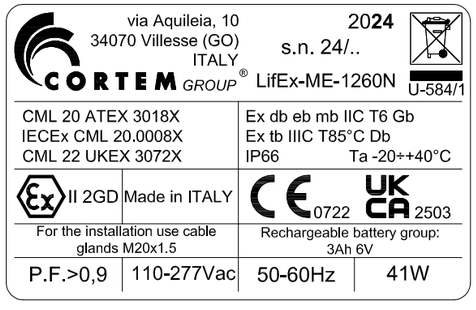
RIGHT SIDE (IN)



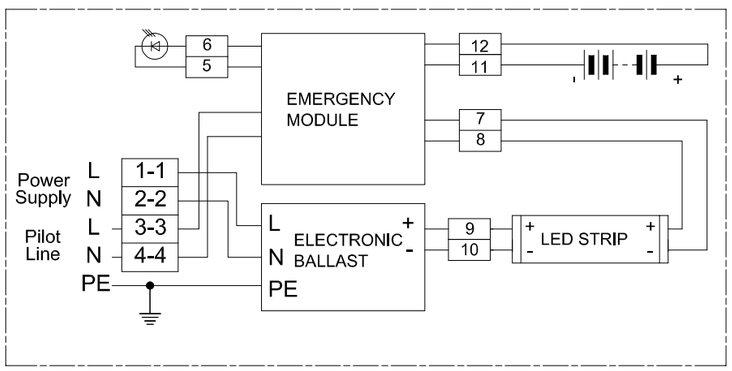
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2
NEXT /
TOT. 2

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-24	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	TP
TASK	code	C10001424		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-28	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:16:10.636Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-28T08:56:57.804Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02

TAG:	ELF-200N1-10-L3-08
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELS-200N1-09-L2-01
ELE:	1275 mm TOF
STD:	L46A

TAG:	EJB-200N1-09-L2-17
ELE:	1275 mm TOF ⚠2
STD:	L21

TAG:	ELF-200N1-10-L3-07
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-14
ELE:	4300 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-06
ELE:	5000 mm TOF
STD:	L02

TAG:	EJB-200N1-10-L3-07
ELE:	200 mm TOF
STD:	L02

TAG:	ELF-200N1-10-L3-09
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELF-200N1-10-L3-13
ELE:	2500 mm TOF
STD:	L03A ⚠2

TAG:	ESO-200N1-06-L2-03
ELE:	1600mm TOS ⚠2
STD:	P03

TAG:	ELF-200N1-09-L2-24
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-06
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-10
ELE:	2800 mm TOF
STD:	L03A

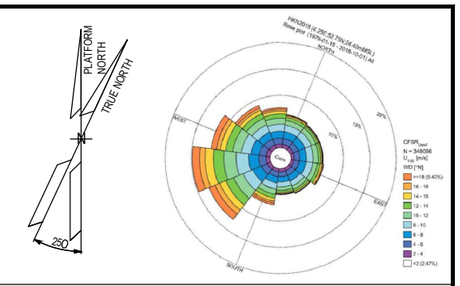
TAG:	ELF-200N1-09-L2-25
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-11
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-12
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-05
ELE:	2800 mm TOF
STD:	L02

PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ⚠2 ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

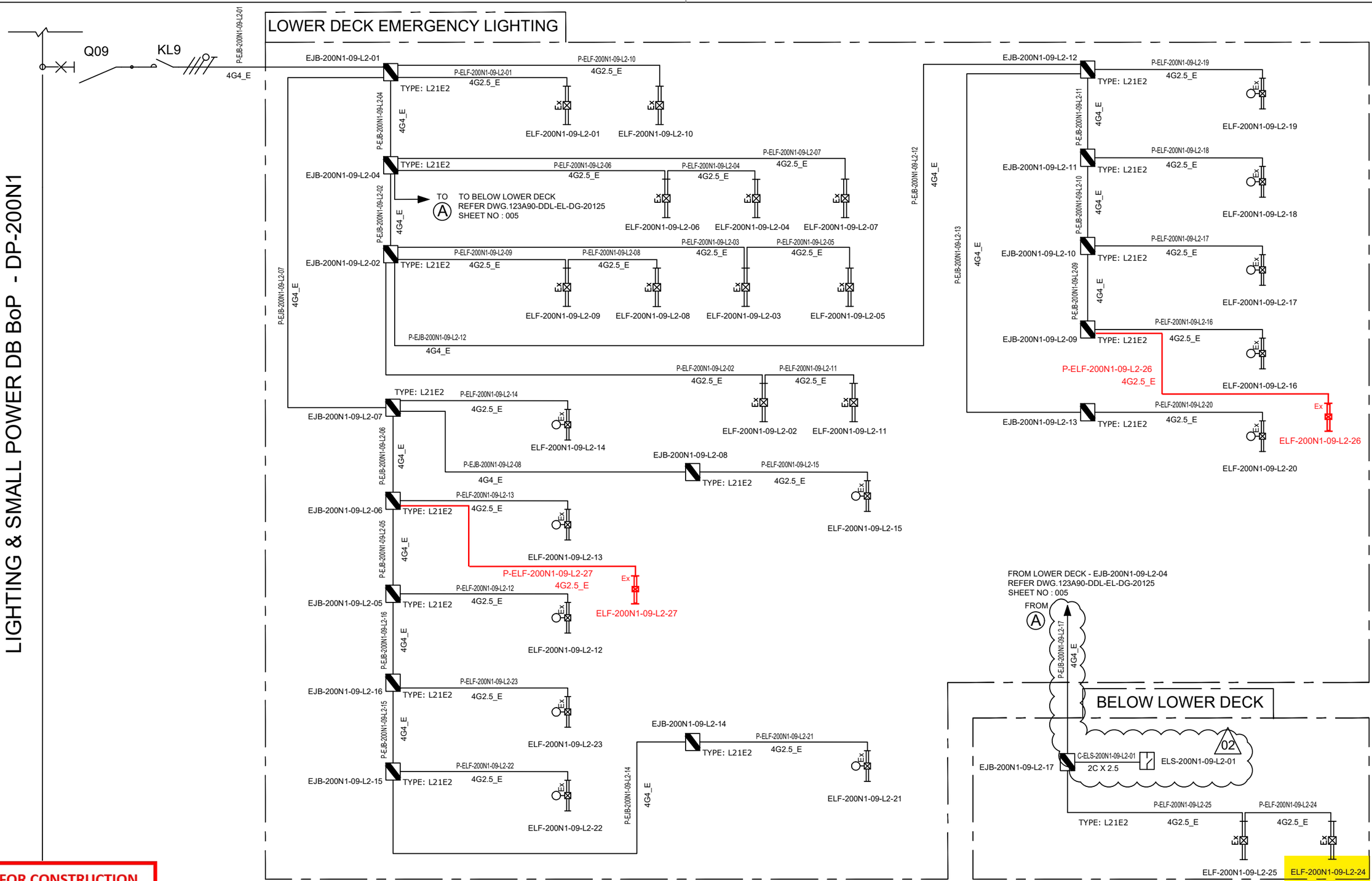
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

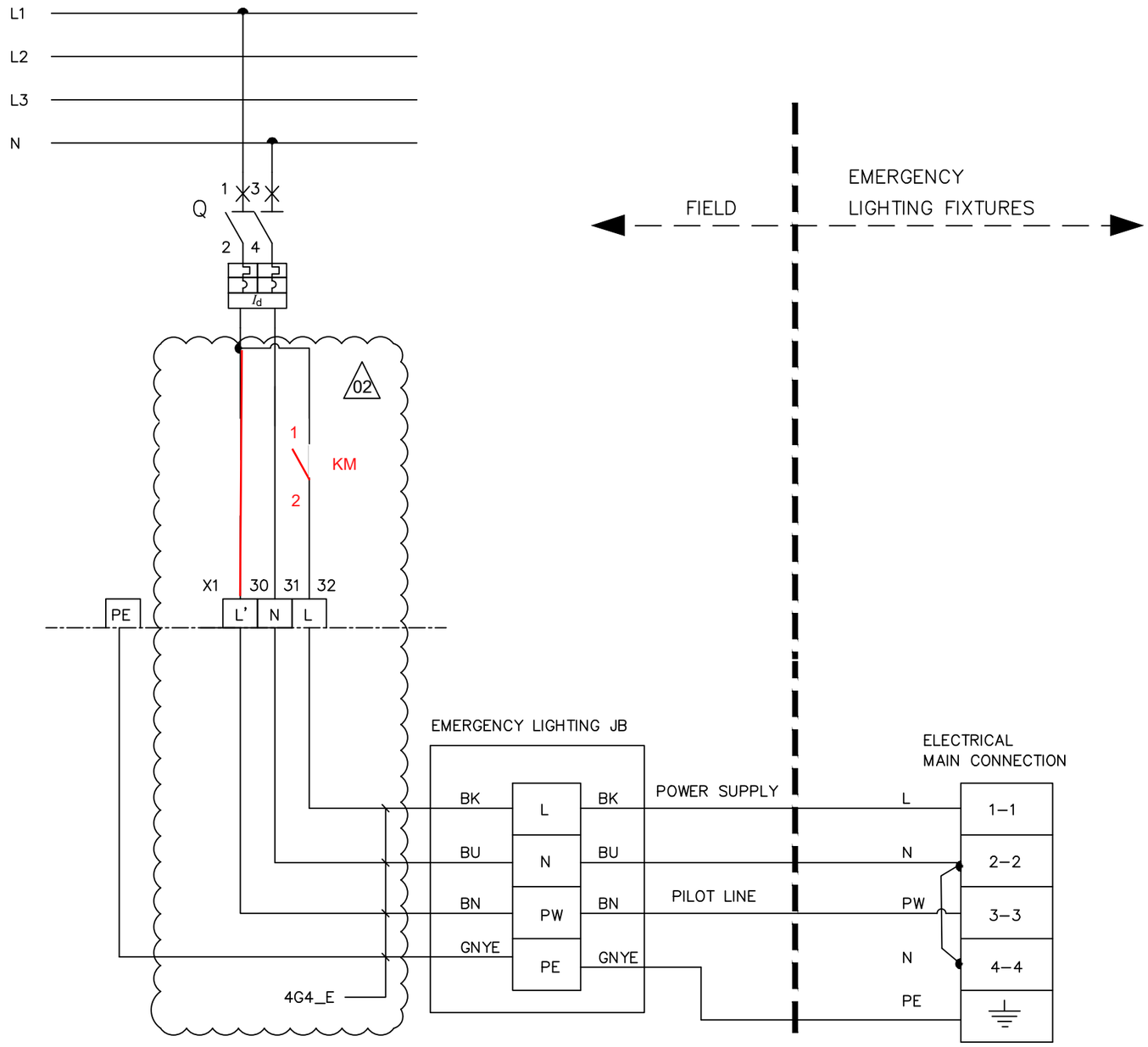
A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

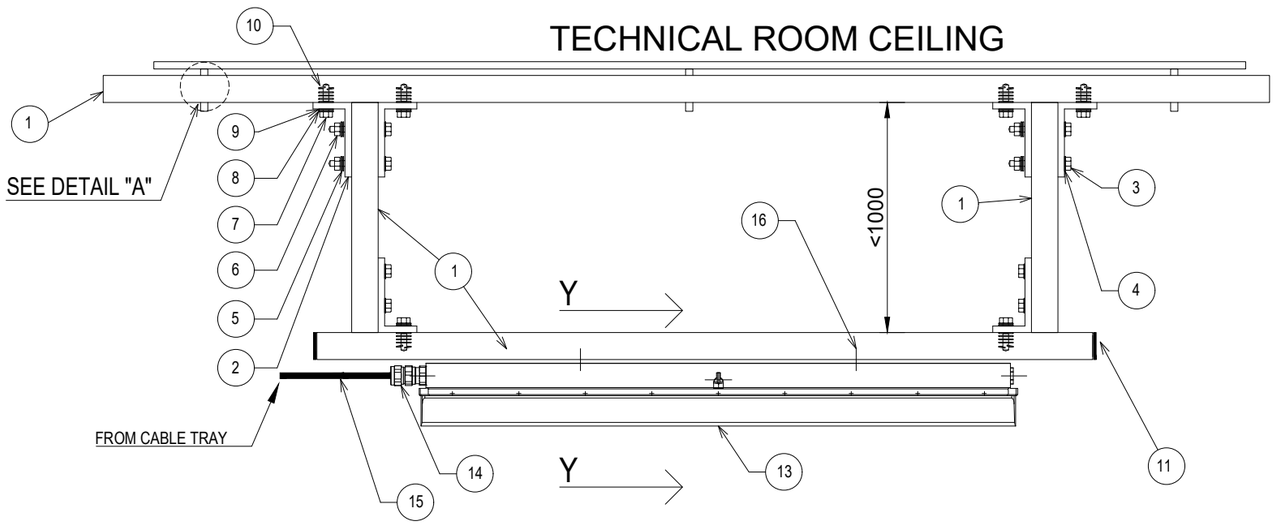
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L04C

02

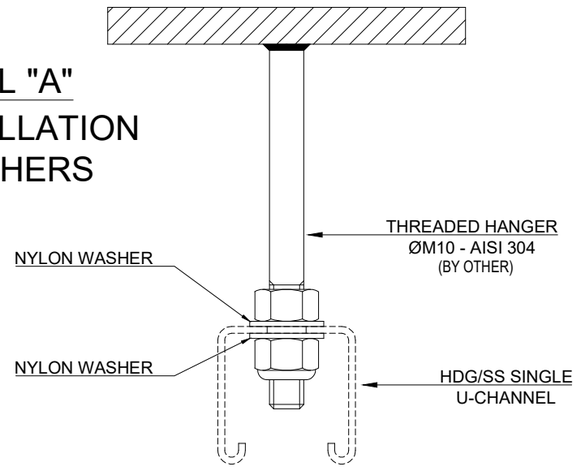
TECHNICAL ROOM CEILING



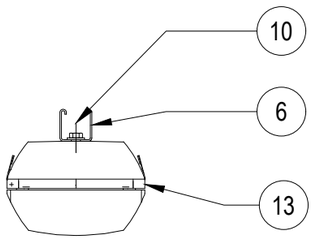
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	NOTE 1
2	ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLE)	AISI 316L		8	
3	HEXAGONAL SCREW	AISI 316L	M10x70	4	
4	PLANE WASHER	AISI 316L	M10	4	
5	GROWER SPRING WASHER	AISI 316L	M10	4	
6	NUT FOR CHANNEL WITH SPRING	AISI 316L	M10	4	
7	HEXAGONAL SCREW	AISI 316L	M12x30	16	
8	PLANE WASHER	AISI 316L	M12	16	
9	GROWER	AISI 316L	M12	16	
10	NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12	12	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	FLAT BAR (4 HOLES)				
13	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
14	SINGLE SEAL CABLE GLAND FOR UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2
15	UNARMOURED CABLE				
16	BOLT	AISI 316L	M8	2	

02

DETAIL "A"
INSTALLATION BY OTHERS



SECTION "Y-Y"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
THREADED HANGER INSIDE TECHNICAL ROOMS

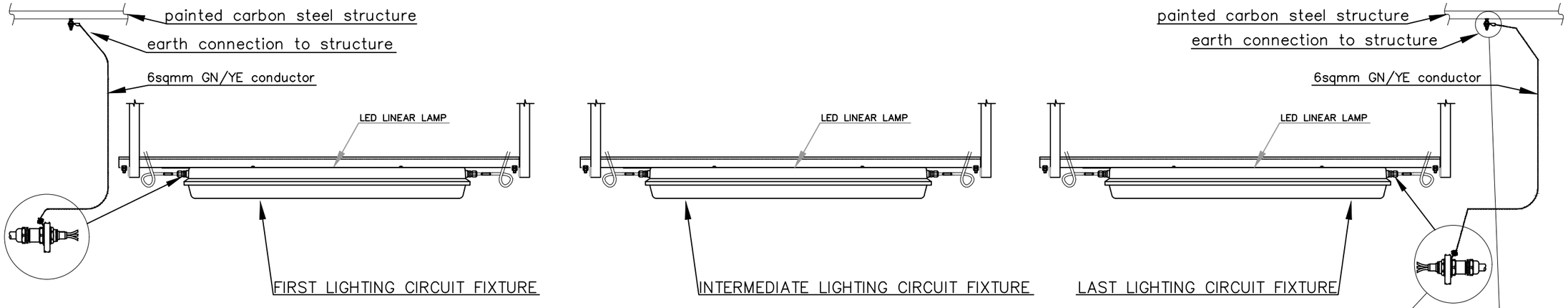
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 015 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

E32

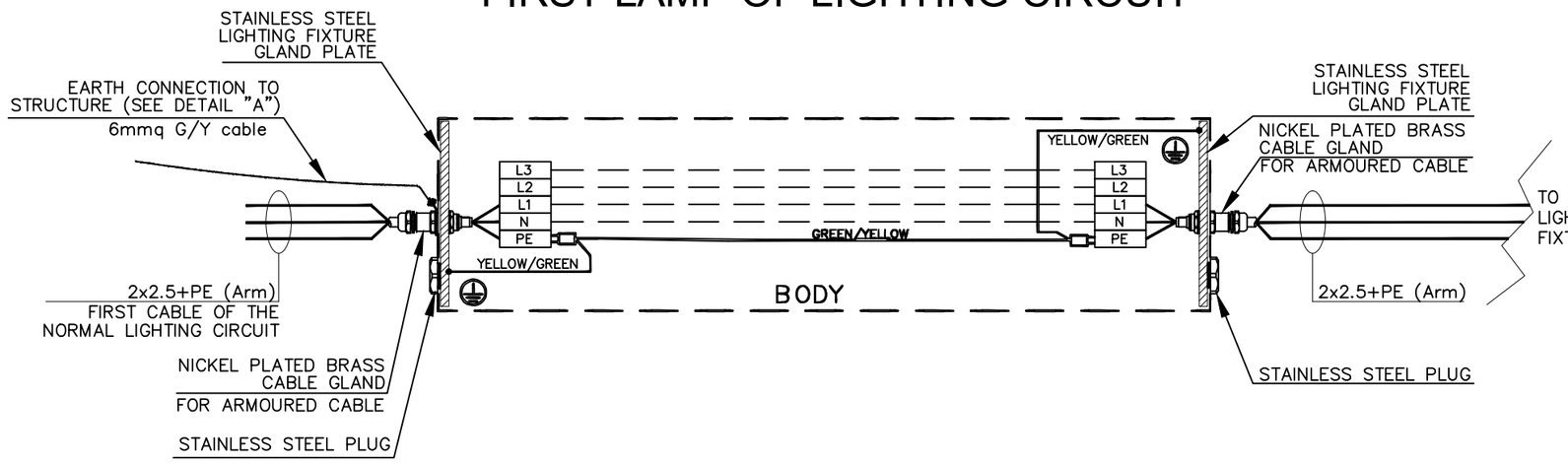


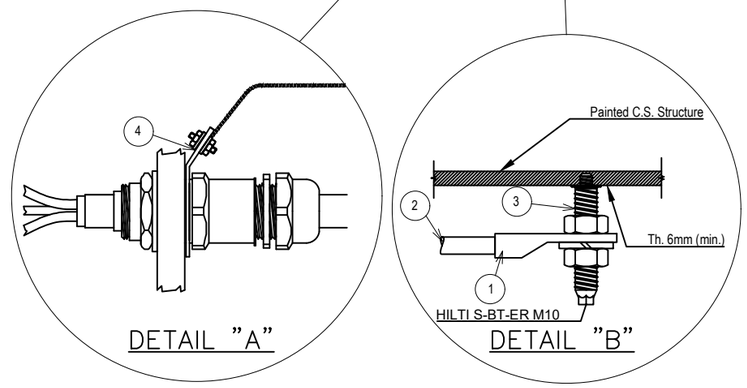
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

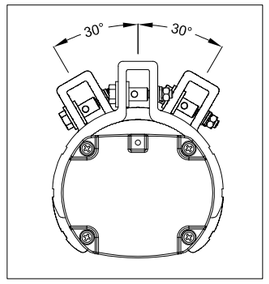
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

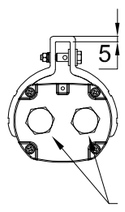
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

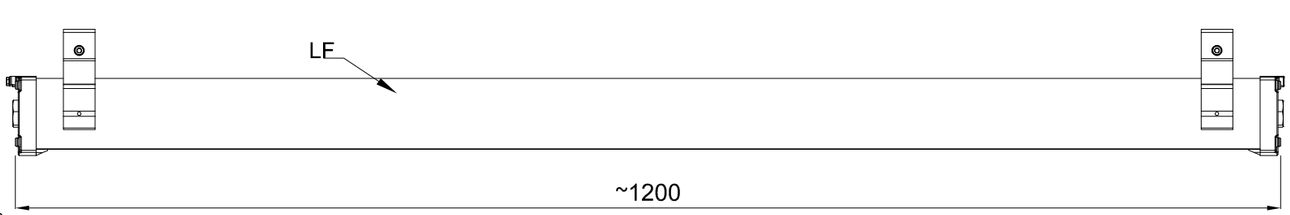
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

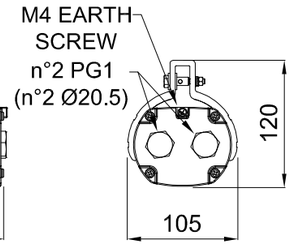


n°2 PG1
(n°2 Ø20.5)

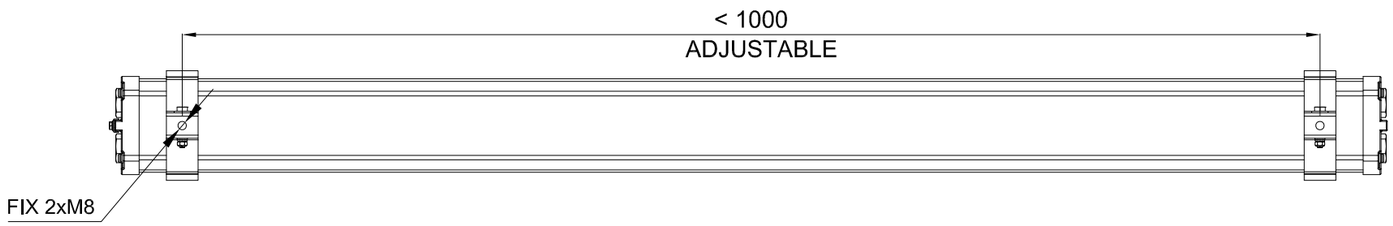
FRONT SIDE



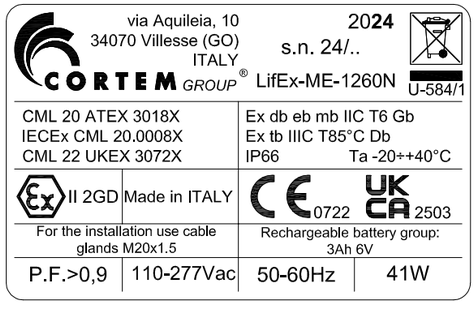
RIGHT SIDE (IN)



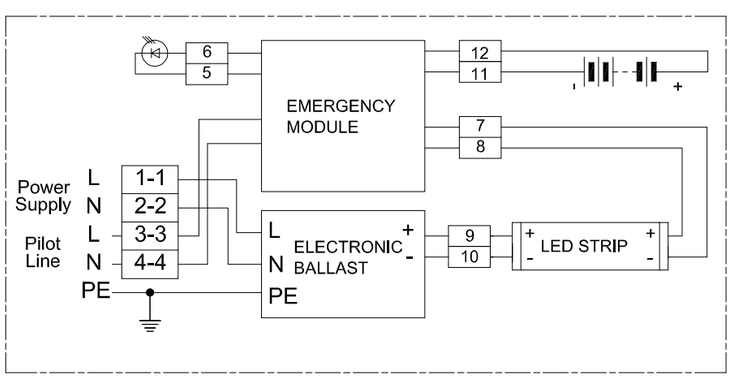
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ROSETTI MARINO | PROVERLIS | CROSSWIND

ITEM	Tag	ELF-200N1-09-L2-25	: EMERGENCY LIGHT			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	TP
TASK	code	C10001425		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	OK
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-28	
Signature	PROVERLIS Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:16:39.469Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-04-28T08:58:35.015Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02

TAG:	ELF-200N1-10-L3-08
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELS-200N1-09-L2-01
ELE:	1275 mm TOF
STD:	L46A

TAG:	EJB-200N1-09-L2-17
ELE:	1275 mm TOF ⚠2
STD:	L21

TAG:	ELF-200N1-10-L3-07
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-14
ELE:	4300 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-06
ELE:	5000 mm TOF
STD:	L02

TAG:	EJB-200N1-10-L3-07
ELE:	200 mm TOF
STD:	L02

TAG:	ELF-200N1-10-L3-13
ELE:	2500 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-09
ELE:	2800 mm TOF
STD:	L03A

TAG:	ESO-200N1-06-L2-03
ELE:	1600mm TOS ⚠2
STD:	P03

TAG:	ELF-200N1-09-L2-24
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-06
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-10
ELE:	2800 mm TOF
STD:	L03A

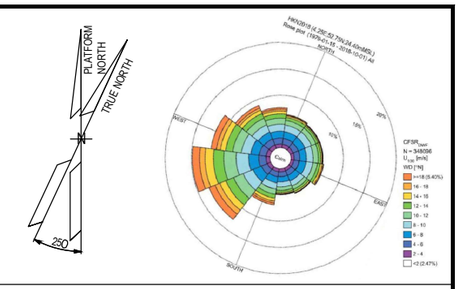
TAG:	ELF-200N1-09-L2-25
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-11
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-12
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-05
ELE:	2800 mm TOF
STD:	L02

PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ⚠2 ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

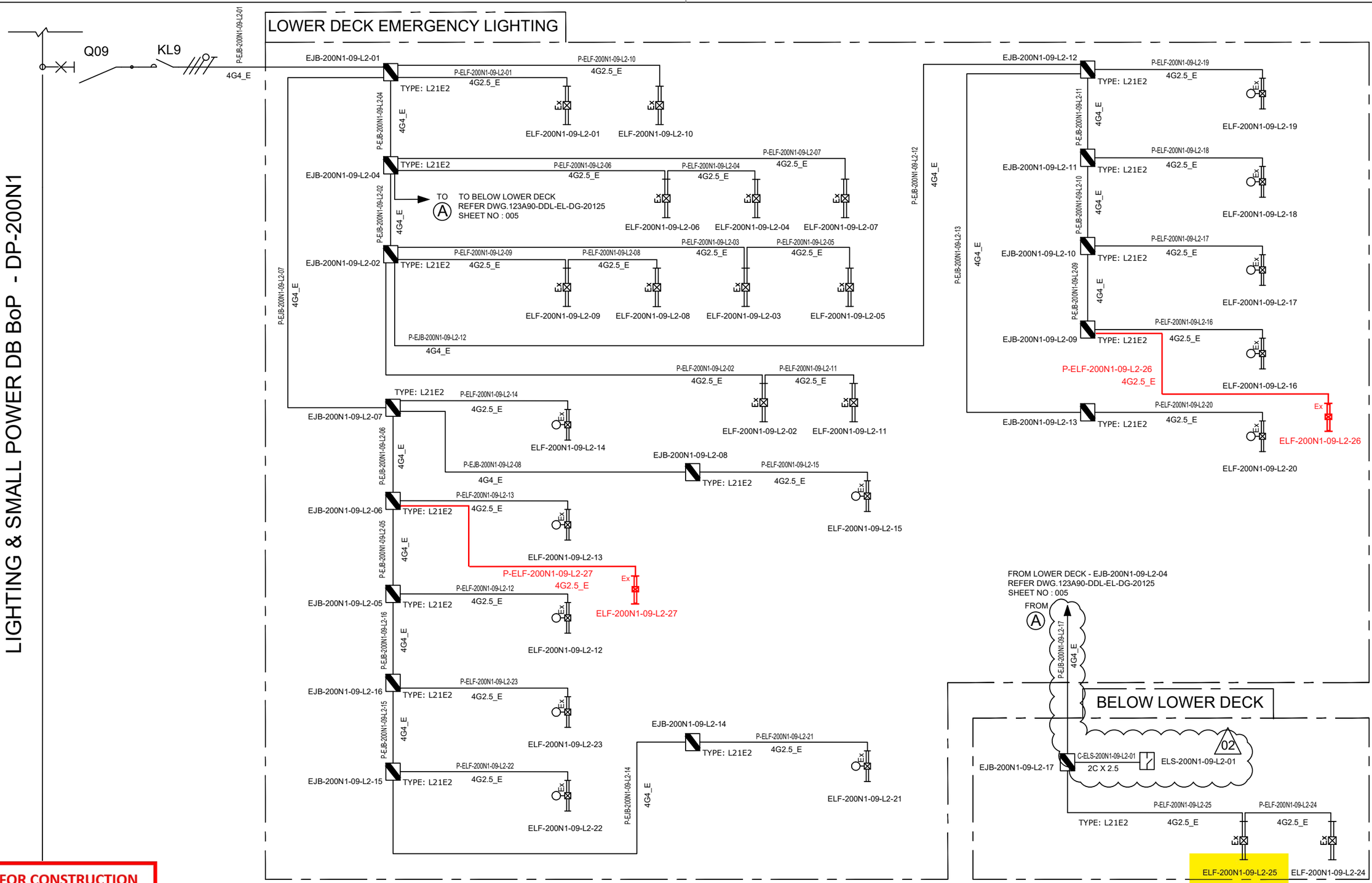
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

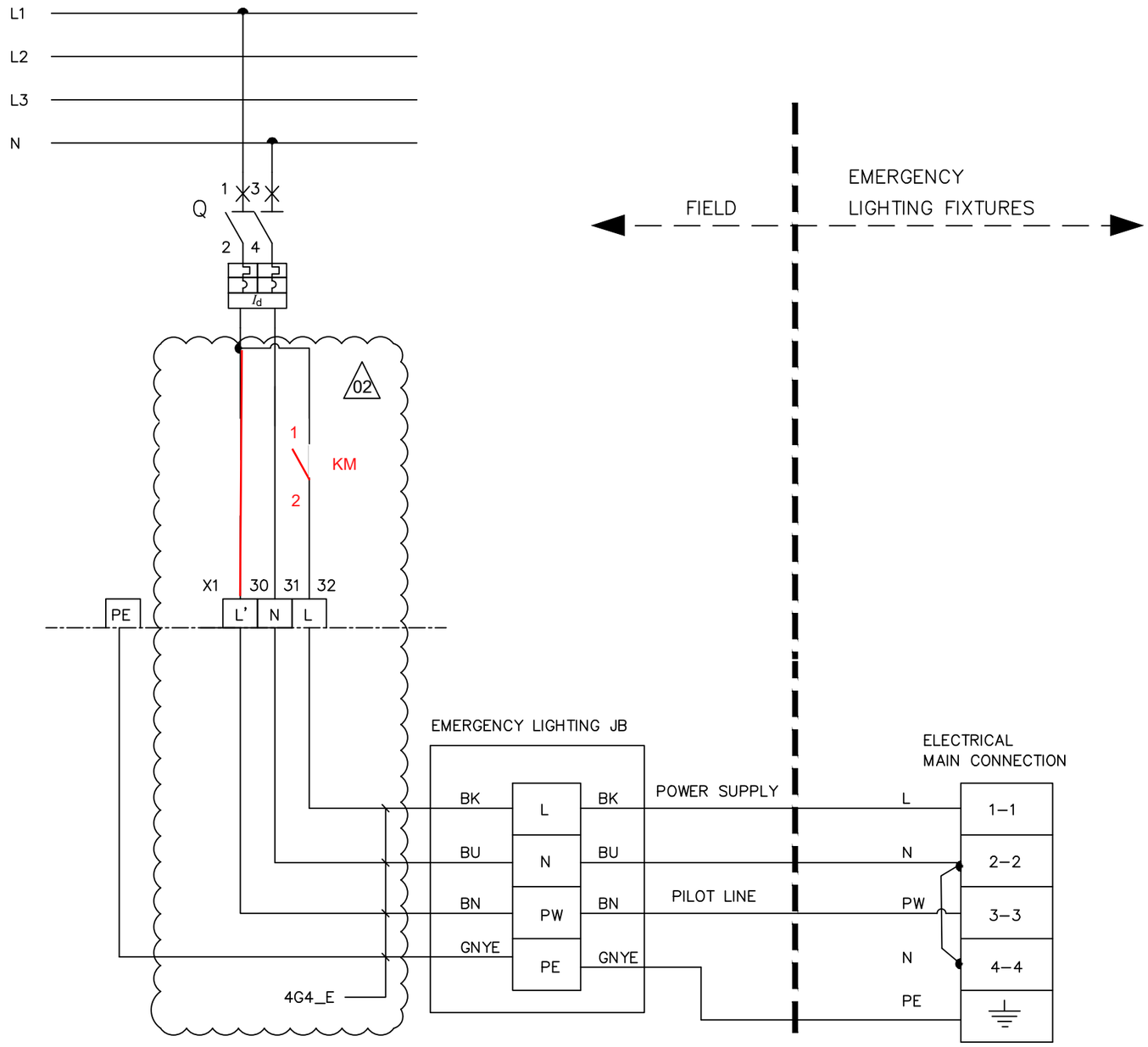
A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

EMERGENCY LIGHTS WIRING DIAGRAM

DP–200N1
FOR EMERGENCY LIGHTING
INTERNAL BUS BAR 400V–230V / 50Hz



L – POWER SUPPLY
N – NEUTRAL
PW – PILOT LINE
PE – PROTECTIVE EARTH
BN – BROWN (L')
BK – BLACK (L)
BU – BLUE (N)
GNYE – GREEN/YELLOW (PE)

02

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DG–20125 | SHEET 014 | REV. 02

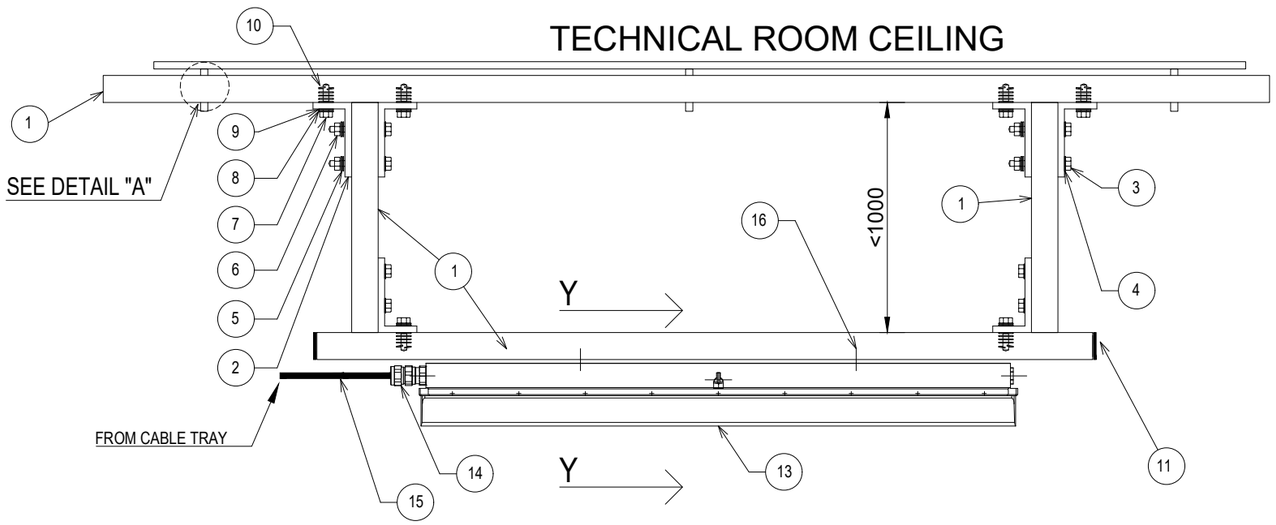
F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

L04C

02

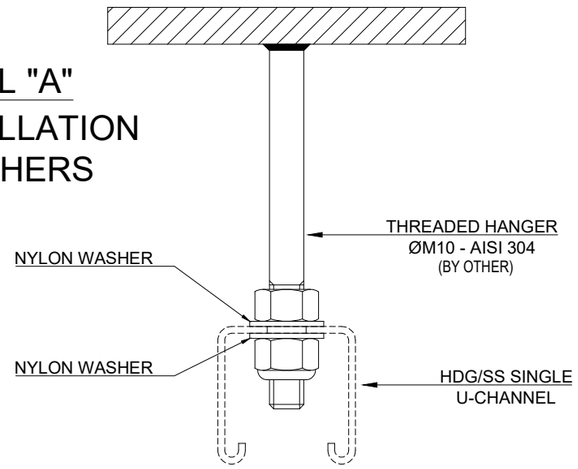
TECHNICAL ROOM CEILING



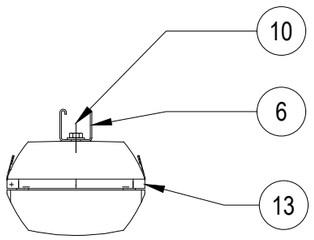
POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	SINGLE U-CHANNEL PERFORATED ON NO. 3 SIDE	AISI 316L	41x41x2	AS REQ.	NOTE 1
2	ORTHOGONAL-TRASVERSAL CONNECTION (3 HOLE)	AISI 316L		8	
3	HEXAGONAL SCREW	AISI 316L	M10x70	4	
4	PLANE WASHER	AISI 316L	M10	4	
5	GROWER SPRING WASHER	AISI 316L	M10	4	
6	NUT FOR CHANNEL WITH SPRING	AISI 316L	M10	4	
7	HEXAGONAL SCREW	AISI 316L	M12x30	16	
8	PLANE WASHER	AISI 316L	M12	16	
9	GROWER	AISI 316L	M12	16	
10	NUT FOR U-CHANNEL WITH SPRING	AISI 316L	M12	12	
11	PLUG FOR U-CHANNEL	LPDE		2	
12	FLAT BAR (4 HOLES)				
13	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
14	SINGLE SEAL CABLE GLAND FOR UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2
15	UNARMOURED CABLE				
16	BOLT	AISI 316L	M8	2	

02

DETAIL "A"
INSTALLATION BY OTHERS



SECTION "Y-Y"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
THREADED HANGER INSIDE TECHNICAL ROOMS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20091 | SHEET 015 | REV. 02

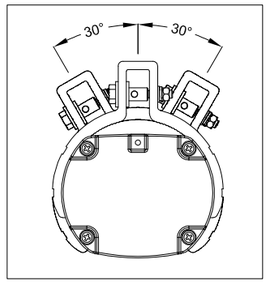
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

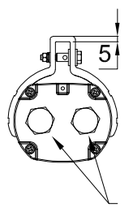
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

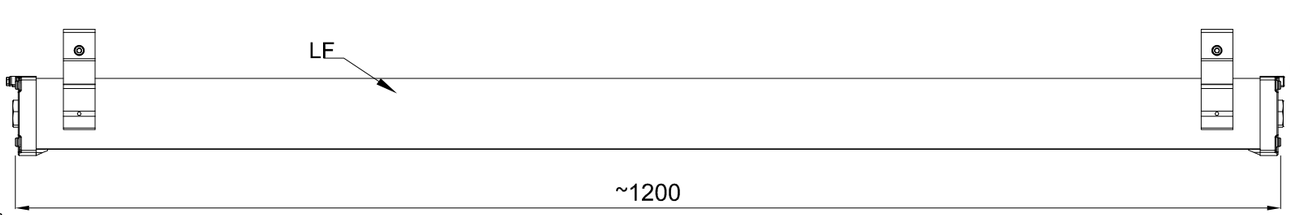
N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

LEFT SIDE (OUT)

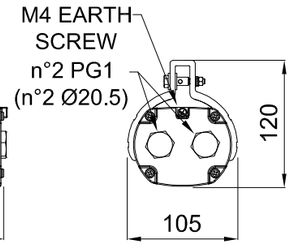


n°2 PG1
(n°2 Ø20.5)

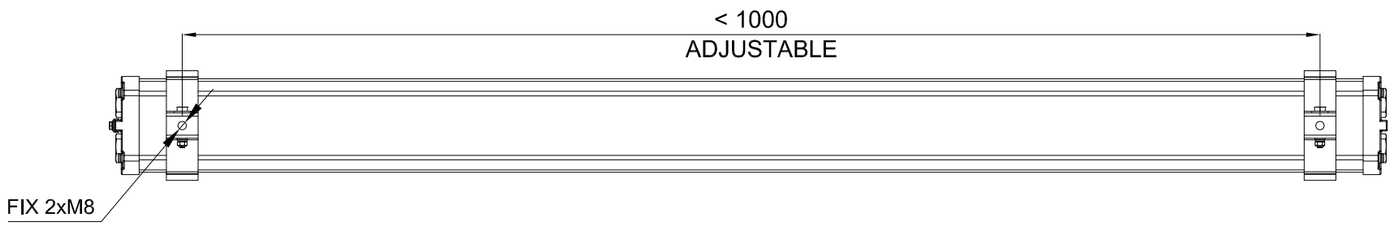
FRONT SIDE



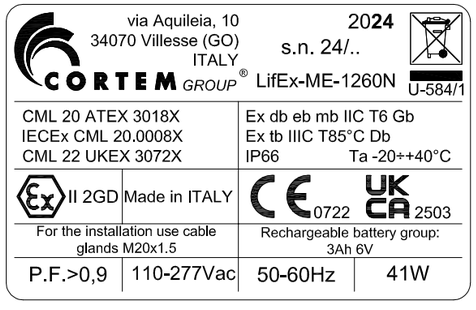
RIGHT SIDE (IN)



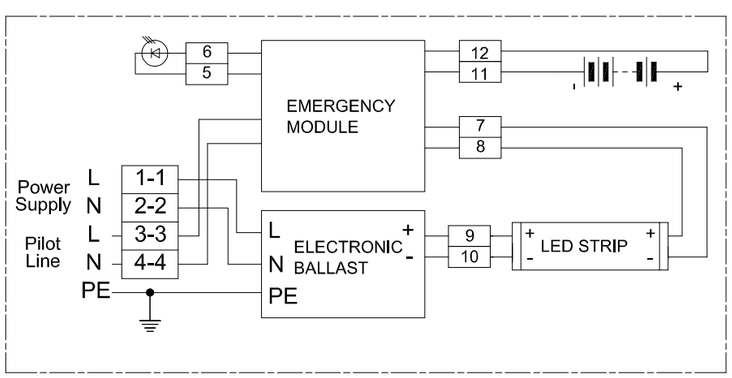
TOP SIDE



CERTIFICATE NAMEPLATE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTARUOLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTARUOLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

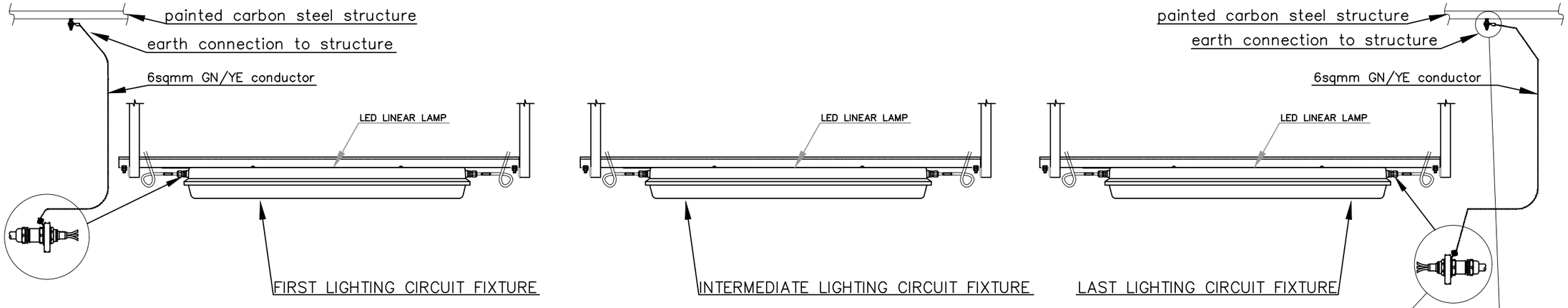
CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET 2 / TOT. 2
NEXT /

CORTEM GROUP
contem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

E32

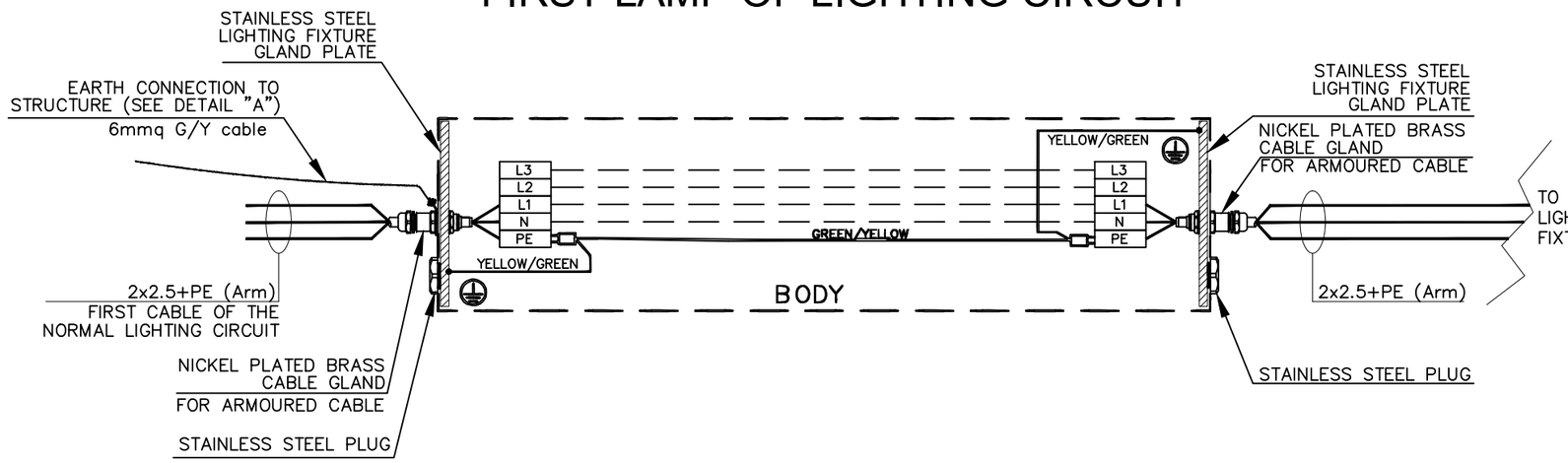


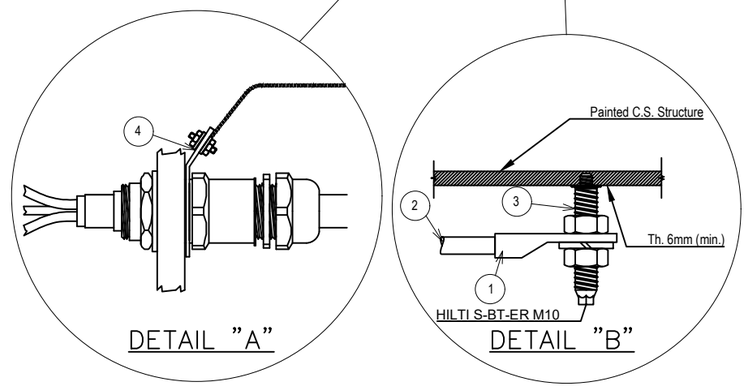
ONLY the first and the last lighting fixture of all circuits are connected to earthing system. The earthing continuity of the intermediate lighting fixtures of the circuits is guaranteed by the using of the first and the last lighting fixture earthing connection which is permanently connected to the earthing system as per the typical below.

Refer also to TYP. "E05" for Lighting Fixtures.

NORMAL LIGHTING CIRCUIT EARTHING CONTINUITY TYPICAL

FIRST LAMP OF LIGHTING CIRCUIT





POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	COMPRESSION TYPE LUG FOR INSULATION COPPER CONDUCTOR	TINNED COPPER			
2	Y/G INSULATING COPPER CONDUCTOR		6sqmm	ASR	
3	HILTI S-BT-ER M10/15 SN6 C/W NUTS AND GROWER	AISI 316L	M10X28		NOTE 1
4	CABLE GLAND EARTH TAG	NPB	M20		

The same logic is used for the earthing continuity of Emergency Lighting Circuits. The above typical has been done to represent the Earthing Continuity of G/Y conductors, the correct connections of all conductors in the respective Terminal Strips are shown in doc. AR-FEN-10-ROEC-600132 Lighting and Socket Circuit Diagrams.

NOTES:
1) HILTI S-BT-ER M10/15 SN6 CERTIFIED FOR EARTHING SYSTEM FOR SINGLE EQUIPMENTS EARTHING CONNECTION.

VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DD-20090
REV.: 2_I | DATE: 07/11/24 | SIGNATURE: G.Randi
ROSETTI MARINO SpA

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	26/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/06/24	SPS	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–EARTHING SYSTEM
EARTHING – OUTDOOR LINEAR LIGHTING FIXTURE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20090 | SHEET 023 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20090 REV.02.DWG

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	P-EJB-200N1-09-L2-17	: Emergency Lighting JB / Local Switch	Dwg	123A90-DDL-EL-LIS-20148		
	S/Sys	83-36	: Emergency Lighting Lower Deck	Module	LD/TP		
TASK	code	C10002065	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From EJB-200N1-09-L2-04 To EJB-200N1-09-L2-17

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	OK
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-EJB-200N1-09-L2-17	: Emergency Lighting JB / Local Switch		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	LD/TP	
TASK	code	C10002065	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1	0,6	
6		PH 2	0,6	
7		PH 3	0,6	
8	ARMOUR CONTINUITY Ω		na	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,6	
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

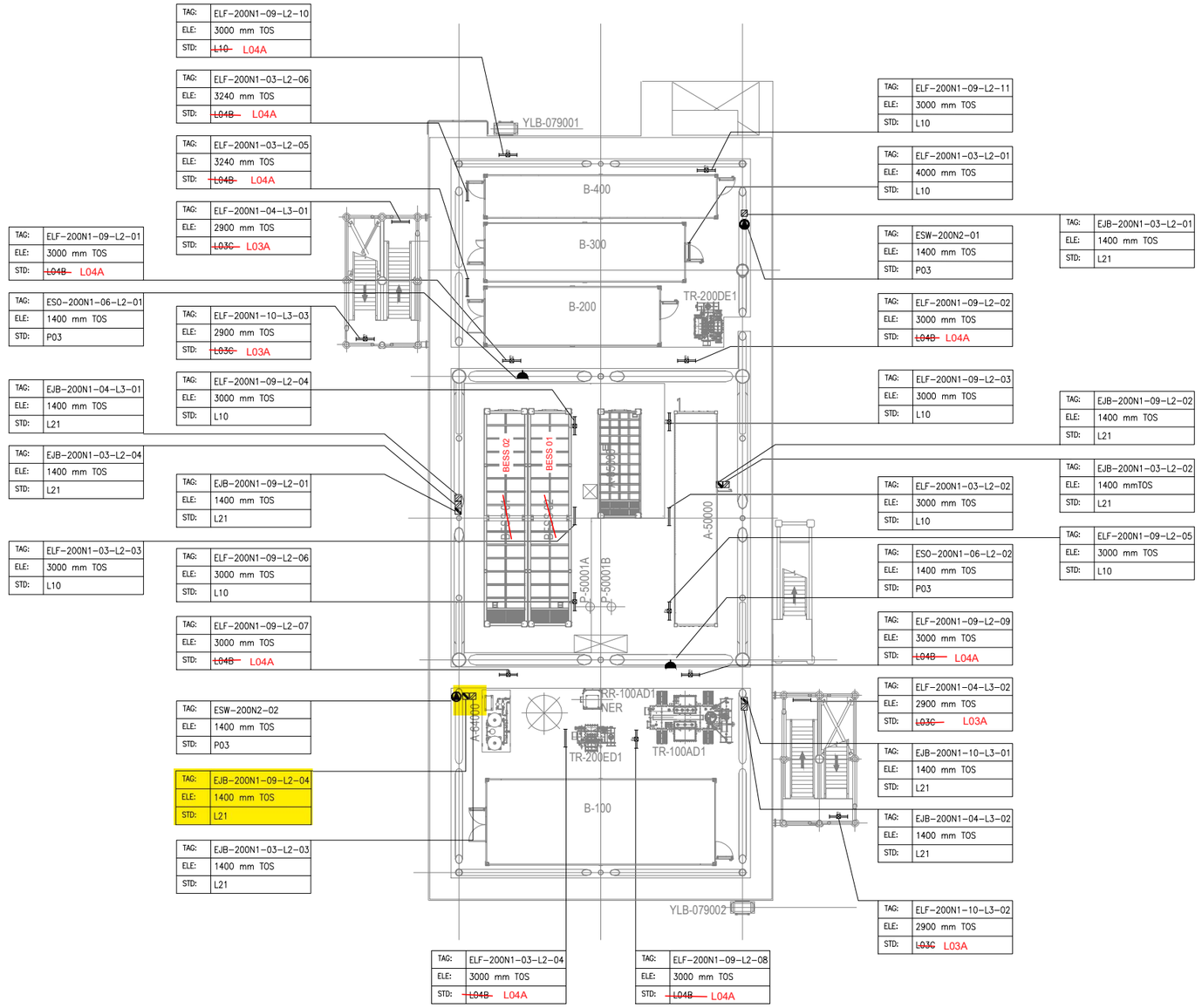
TESTING INSTRUMENTS USED			
TYPE / SERIAL N° :	VOLCRAFT 1000V - ET-200 S/N:H240103023	TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207
Calibration certificate N° and date:	N°LAT 042 00768/24 _ 12/10/2024	Calibration certificate N° and date:	N°7722/24 _ 10/07/2024

Comments: Cable installation and connection both sides will be completed during OFFSHORE phase (See Ref. task C10004690)

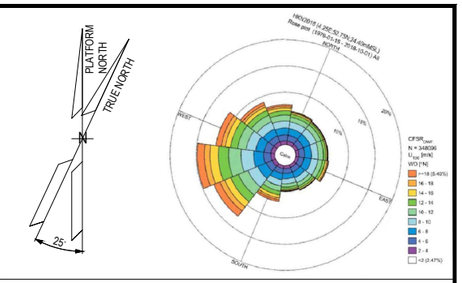
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Giovanni Tangianu	
Date	2025-02-19	2025-02-27	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-02-19T13:41:17.200Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-02-27T13:09:06.812Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150	
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24	
A1	DRAWING NO. 123A90-DDL-EL-DL-20119		SHEET 2of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02

TAG:	ELF-200N1-10-L3-08
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELS-200N1-09-L2-01
ELE:	1275 mm TOF
STD:	L46A

TAG:	EJB-200N1-09-L2-17
ELE:	1275 mm TOF ⚠2
STD:	L21

TAG:	ELF-200N1-10-L3-07
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-14
ELE:	4300 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-06
ELE:	5000 mm TOF
STD:	L02

TAG:	EJB-200N1-10-L3-07
ELE:	200 mm TOF
STD:	L02

TAG:	ELF-200N1-10-L3-13
ELE:	2500 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-09
ELE:	2800 mm TOF
STD:	L03A

TAG:	ESO-200N1-06-L2-03
ELE:	1600mm TOS ⚠2
STD:	P03

TAG:	ELF-200N1-09-L2-24
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

TAG:	ELF-200N1-10-L3-06
ELE:	2800 mm TOF
STD:	L52C

TAG:	ELF-200N1-10-L3-10
ELE:	2800 mm TOF
STD:	L03A

TAG:	ELF-200N1-09-L2-25
ELE:	2200 mm TOF
STD:	~~L06A~~ L04C

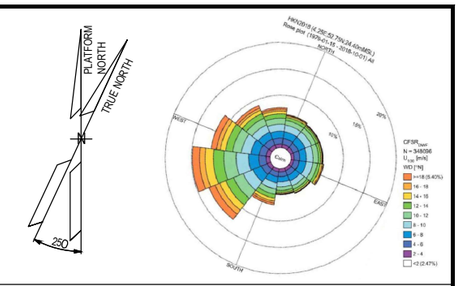
TAG:	ELF-200N1-10-L3-11
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	ELF-200N1-10-L3-12
ELE:	2400 mm TOF
STD:	L03A ⚠2

TAG:	EJB-200N1-10-L3-05
ELE:	2800 mm TOF
STD:	L02

T-55001

PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, ⚠2 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

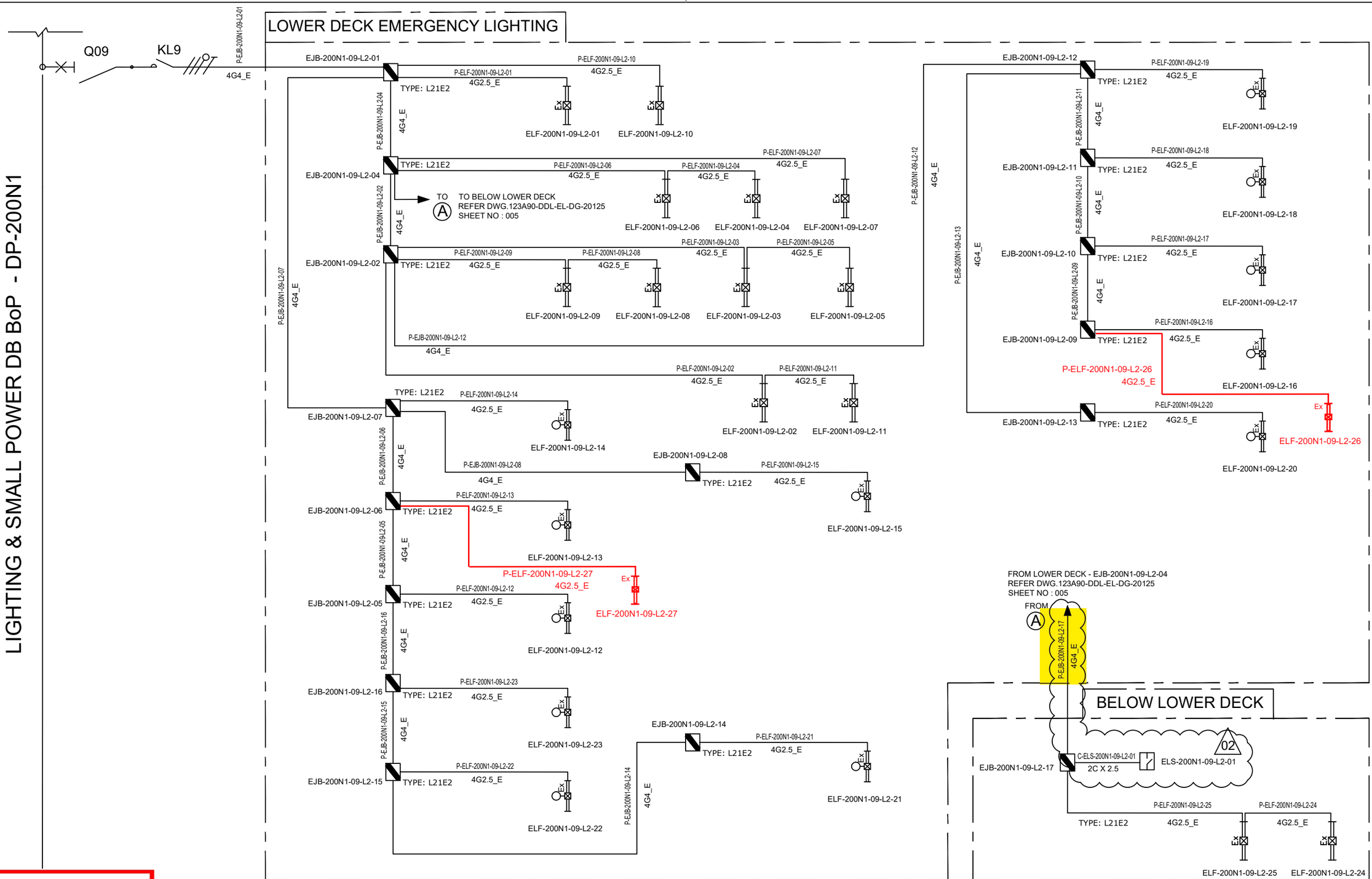
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_H	24/01/25	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

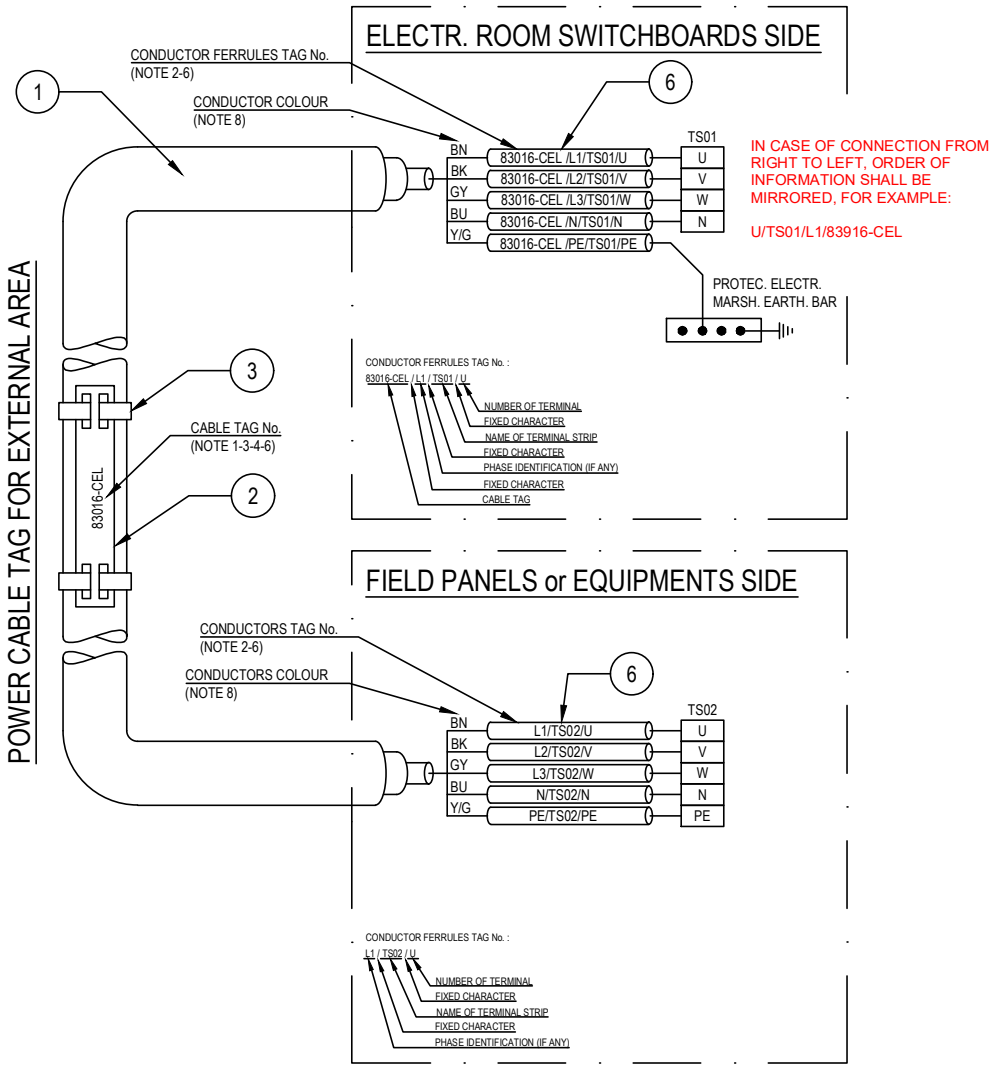
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

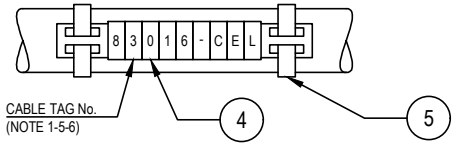
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

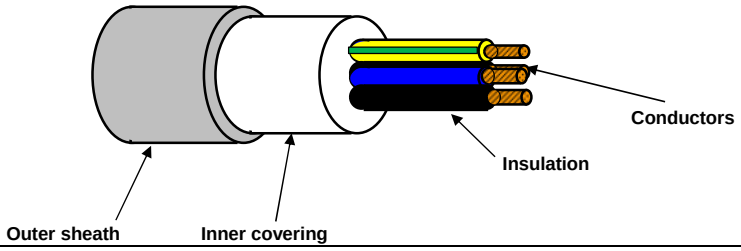
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-EJB-200N1-09-L2-17	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						ELS-200N1-09-L2-01	Local Switch	Transition Piece		EJB-200N1-09-L2-17	Emergency Lighting JB	Below Lower Deck		ELECV11-4G4_E	Cable Cu Cl.2/EPR/LSZH 0,6/1kV 4G4mm²_E - Grey	M25	T1_M25_Single			T1_M25_Single				L-50-100-LVT-023

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G4_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G4 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(15,5 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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ITEM	Tag	ELS-200N1-09-L2-01	: Local Switch			Dwg	123A90-DDL-EL-DL-20120
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD_B-200_Ext
TASK	code	C10003048		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

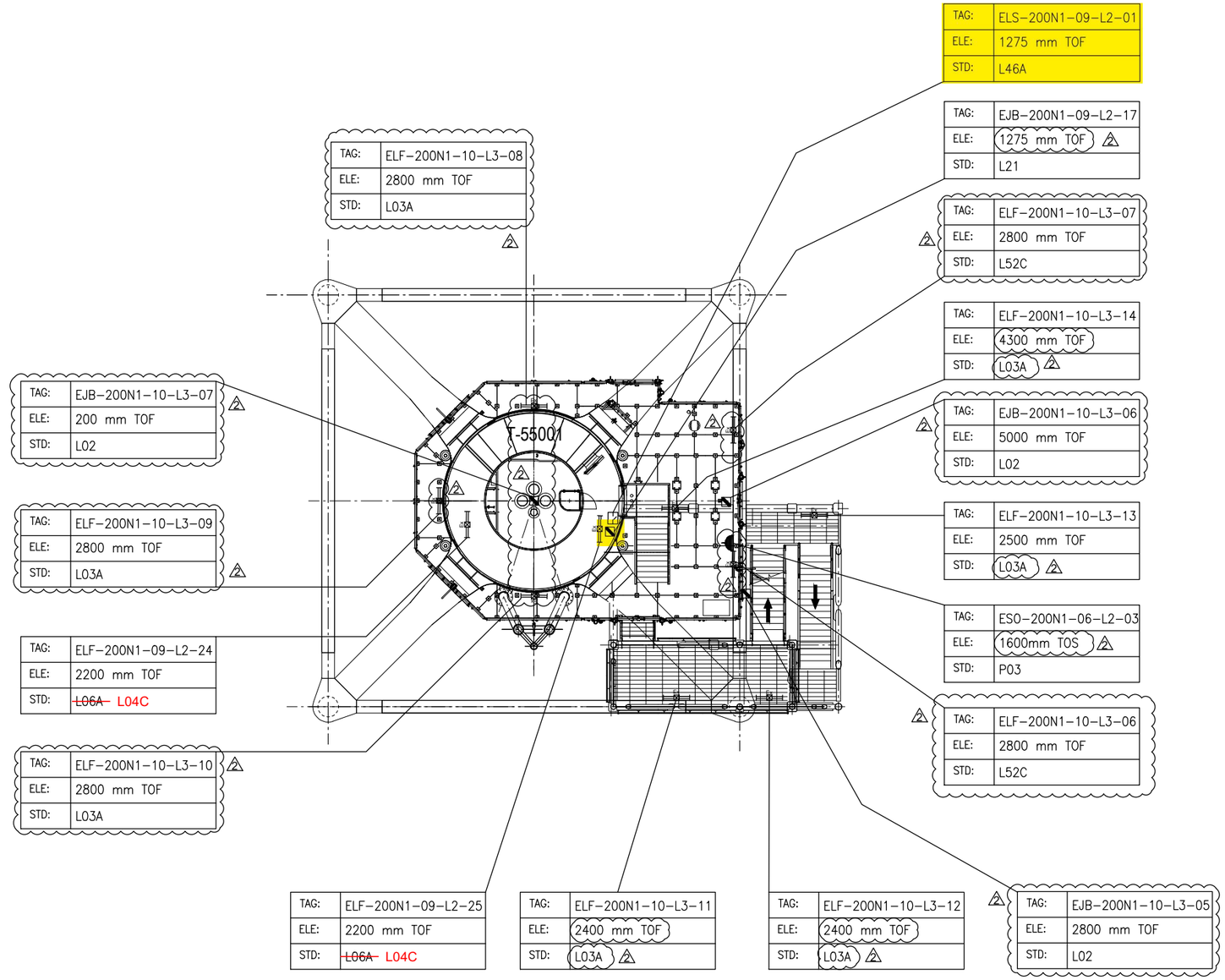
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	OK
3	Check equipment is undamaged and correcly tagged.	OK
4	Check nameplate data is correct.	PL
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

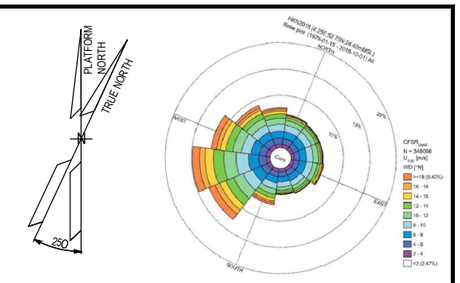
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	VIP	RM(ROSETTI MARINO)	
Name	Madhankumar Arunagiri	Giovanni Tangianu	
Date	2025-04-18	2025-04-24	
Signature	Digitaly signed by Madhankumar Arunagiri 2025-04-18T06:44:03.805Z	Digitaly signed by Giovanni Tangianu 2025-04-24T09:36:19.289Z	

DRAWING NO. 123A90-DDL-EL-DL-20120

REV. 02



PLAN ON EXISTING PLATFORM AT EL.+16.860 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN mm UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S / T.O.F.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. ELEVATION OR STANDARD PRESENT IN THE MASK, WHERE JB AND FIXTURE ARE SHOWN, ARE RELATIVE TO THE ORDER OF THE TAGS, 1°ROW JB AND 2°ROW FIXTURE = ELEVATION JB / ELEVATION FIXTURE.

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- SMALL POWER SOCKET WITH INTEGRATED JB
- LOCAL SWITCH IP66 TYPE

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

T.O.S TOP OF STEEL
T.O.F TOP OF FOOTING (Walkway plan)

HOLDS

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DL-20120**

REV.:	DATE:	SIGNATURE:
2_B	27/01/25	G.Randi

ROSETTI MARINO SpA

REFERENCE DOCUMENTS

123A90-DDL-EL-DL-20102	ELECTRICAL EQUIPMENT LAYOUT - TRANSITION PIECE
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-PP-DL-70070	BASE LOAD POWER HUB (BLPH) - PLOT PLAN - LOWER AND UPPER DECK
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	04/06/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – BELOW LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:100
DRAWN AMA	CHECKED CGI	APPROVED DLO	DATE 07/10/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20120	SHEET 001	REV. 02

File Name : 123A90-DDL-EL-DL-20120

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2
- P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01
- P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10
- P-EJB-200N1-09-L2-04 4G4_E → EJB-200N1-09-L2-04

EJB-200N1-09-L2-04 — TYPE: L21E2
- P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06
- P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04
- P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07
- TO Ⓐ TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
- P-EJB-200N1-09-L2-02 4G4_E → EJB-200N1-09-L2-02

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09
- P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08
- P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03
- P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05
- P-EJB-200N1-09-L2-12 4G4_E → EJB-200N1-09-L2-12
- P-EJB-200N1-09-L2-07 4G4_E → EJB-200N1-09-L2-07

EJB-200N1-09-L2-12 — TYPE: L21E2
- P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19
- P-EJB-200N1-09-L2-11 4G4_E → EJB-200N1-09-L2-11

EJB-200N1-09-L2-11 — TYPE: L21E2
- P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18
- P-EJB-200N1-09-L2-10 4G4_E → EJB-200N1-09-L2-10

EJB-200N1-09-L2-10 — TYPE: L21E2
- P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17
- P-EJB-200N1-09-L2-09 4G4_E → EJB-200N1-09-L2-09

EJB-200N1-09-L2-09 — TYPE: L21E2
- P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16
- P-ELF-200N1-09-L2-26 4G2.5_E → ELF-200N1-09-L2-26
- P-EJB-200N1-09-L2-13 4G4_E → EJB-200N1-09-L2-13

EJB-200N1-09-L2-13 — TYPE: L21E2
- P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

EJB-200N1-09-L2-07 — TYPE: L21E2
- P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14
- P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02
- P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11
- P-EJB-200N1-09-L2-06 4G4_E → EJB-200N1-09-L2-06

EJB-200N1-09-L2-08 — TYPE: L21E2
- P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15
- P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-06 — TYPE: L21E2
- P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13
- P-ELF-200N1-09-L2-27 4G2.5_E → ELF-200N1-09-L2-27
- P-EJB-200N1-09-L2-05 4G4_E → EJB-200N1-09-L2-05

EJB-200N1-09-L2-05 — TYPE: L21E2
- P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12
- P-EJB-200N1-09-L2-16 4G4_E → EJB-200N1-09-L2-16

EJB-200N1-09-L2-16 — TYPE: L21E2
- P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23
- P-EJB-200N1-09-L2-15 4G4_E → EJB-200N1-09-L2-15

EJB-200N1-09-L2-15 — TYPE: L21E2
- P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2
- P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21
- P-EJB-200N1-09-L2-14 4G4_E → EJB-200N1-09-L2-14

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM Ⓐ
P-EJB-200N1-09-L2-17 4G4_E → EJB-200N1-09-L2-17

BELOW LOWER DECK

EJB-200N1-09-L2-17
- C-ELS-200N1-09-L2-01 2C X 2.5 → ELS-200N1-09-L2-01 (02)
- P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25
- P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

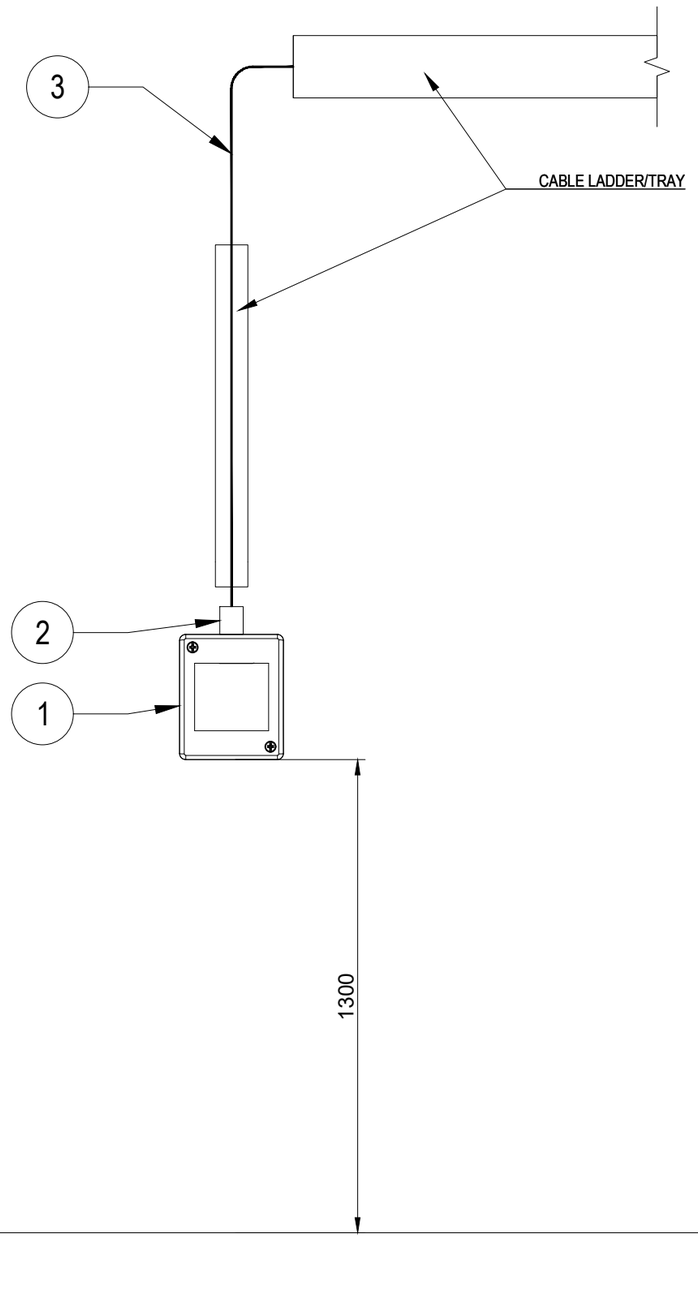
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

L46A



02

POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHTING CONTROL DEVICE COMPLETE WITH SURFACE MOUNTING BOX	THERMOPLASTIC		1	
2	COUPLING PIPE/BOX IP64, GREY, COMPLETE WITH LOCKNUT	THERMOPLASTIC		1	
3	UNARMOURED CABLE				

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
LIGHTING CONTROL DEVICES INDOOR WALL MOUNTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

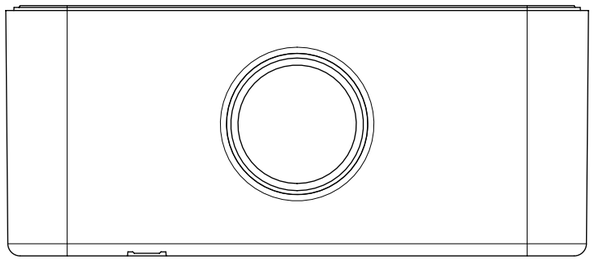
DRAWING NO. 123A90–DDL–EL–DD–20091

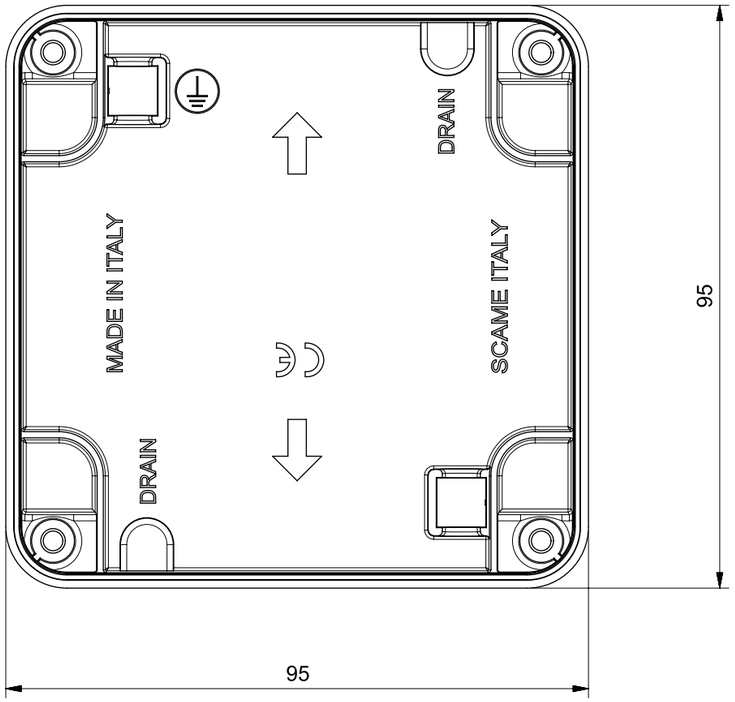
SHEET 017

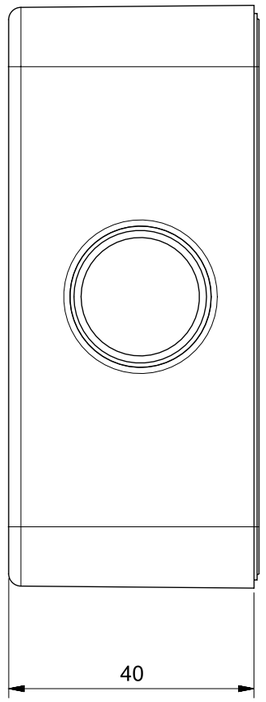
REV. 02

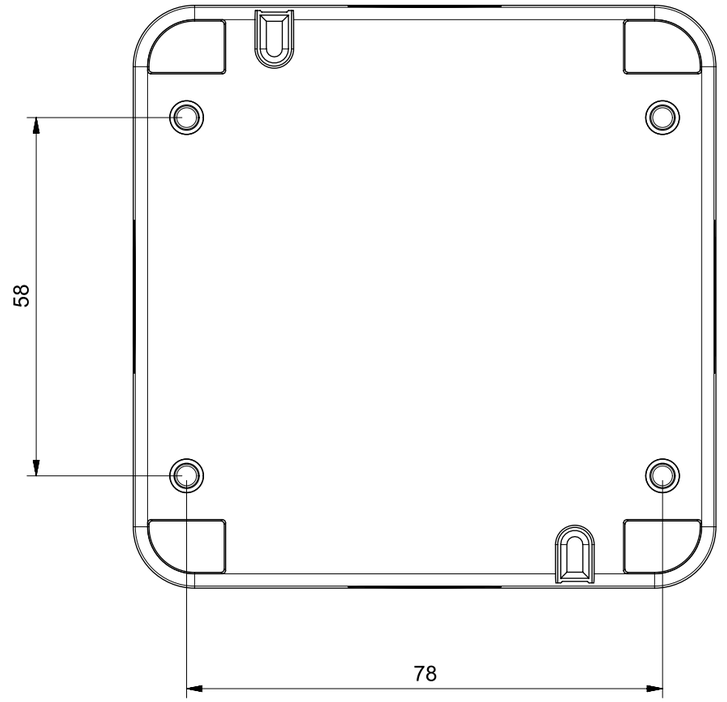
F.to UNI A3: 420mmx297mm

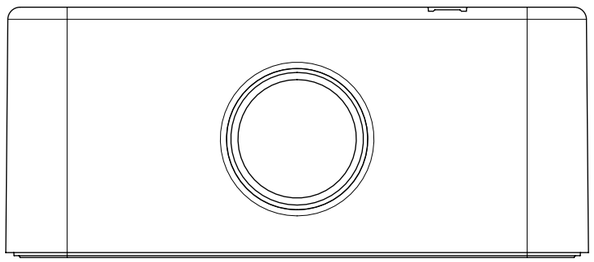
File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG











At the end of the law, we reserve the ownership of this design may not be copied and transfer it to third parties or competitors

Format	A3	Scale	1:1	Mould N°	1000XXXX	Drawn	SCAME
Tolerances for linear and angular dimensions without indication of specific tolerances: JS13 / UNI EN20286						Date	
						Approved	

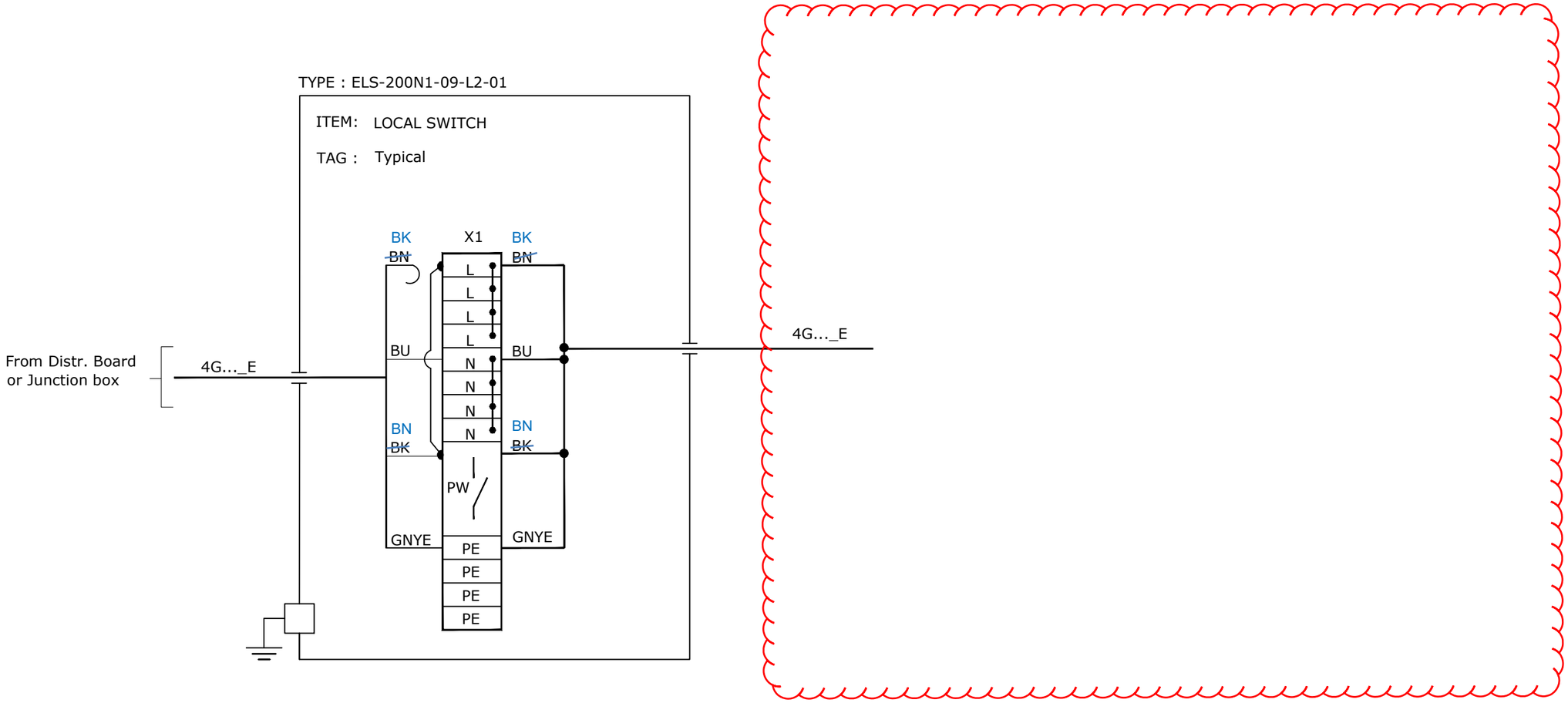
SCAME S.p.A.
PARRE - (Bergamo)

DESCRIPTION

SCATOLA DA PARETE95x95mm 1 MODULO

CODICE Sheet 1 / 1

4001497



VALID FOR CONSTRUCTION
FDL DWG: 123A90-FDL-EL-DG-20125

REV.:	DATE:	SIGNATURE:
2_I	26/03/25	E.Fabbri

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
TYPICAL JB INTERCONNECTING DIAGRAM

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DG-20125

SHEET 017

REV. 01

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

ITEM	Tag	P-EJB-200N1-09-L2-17	: Emergency Lighting JB / Local Switch		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece		Module	LD/TP	
TASK	code	C10004690	Location	Offshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G4_E mm2 Color GREY

From ELS-200N1-09-L2-01 To EJB-200N1-09-L2-17

1	Confirm cable is as specified in project cable schedule
2	Visual Check cable physical integrity.
3	Check is installed in accordance with layout drawing (segregation, distance…).
4	Check cable is supported and fixed to rack according to project specification.
5	Check bending radius is within the specified limits.
6	Confirm cable glands suit for cable type, correctly mounted and tightened.
7	Check gland plate for single core cables is non ferrous (non -magnetic).
8	Confirm cable labelling is in accordance with specifications.
9	Check cable is correctly loomed and segregated in accordance with specification.
10	Check cable earthing against lastest drawings.
11	Check cores marking are in accordance with termination diagram
12	Check terminations are in accordance with latest termination diagram
13	If required produce Red Line Mark Up for "AS BUILT"

ITEM	Tag	P-EJB-200N1-09-L2-17	: Emergency Lighting JB / Local Switch			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-37	: Emergency Lighting Stairs/Transition Piece			Module	LD/TP
TASK	code	C10004690		Location	Offshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CONTINUITY				
5	CORE CONTINUITY Ω	PH 1		
6		PH 2		
7		PH 3		
8	ARMOUR CONTINUITY Ω			
9	PROTECTIVE CONDUCTOR CONTINUITY Ω			
INSULATION				
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E		
11		PH2 / PH1-PH3-A-E		
12		PH3 / PH1-PH2-A-E		
13	CABLE IS CORRECTLY RE-CONNECTED.			

TESTING INSTRUMENTS USED	
TYPE / SERIAL N° : Calibration certificate N° and date:	TYPE / SERIAL N° : Calibration certificate N° and date:

Comments:

	Performed by	☐ WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company			
Name			
Date			
Signature			

ITEM	Tag	ELF-200N1-09-L2-26	: Emergency Lighting Fixture			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10004714		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

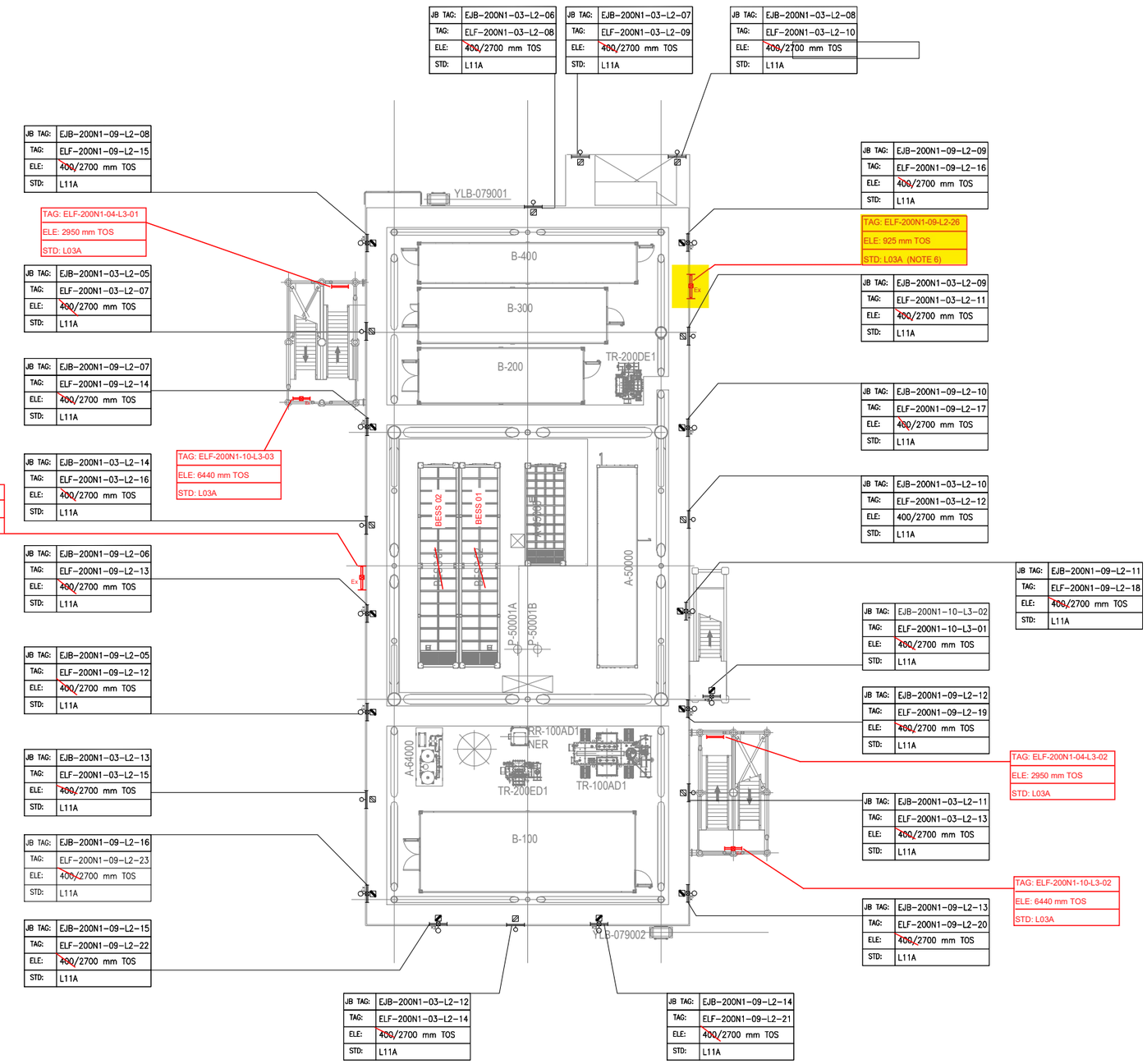
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

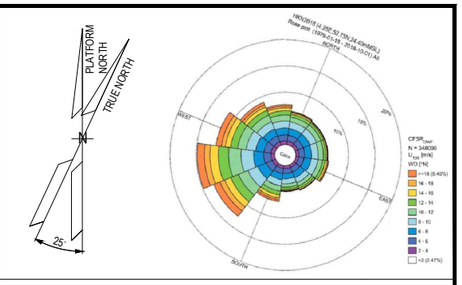
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-17	2025-01-17	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-17T07:47:08.011Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-17T15:59:36.538Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2
- P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01
- P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10
- P-EJB-200N1-09-L2-04 4G4_E → EJB-200N1-09-L2-04

EJB-200N1-09-L2-04 — TYPE: L21E2
- P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06
- P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04
- P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07
- TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
- P-EJB-200N1-09-L2-02 4G4_E → EJB-200N1-09-L2-02

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09
- P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08
- P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03
- P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05
- P-EJB-200N1-09-L2-12 4G4_E → EJB-200N1-09-L2-12
- P-EJB-200N1-09-L2-07 4G4_E → EJB-200N1-09-L2-07

EJB-200N1-09-L2-12 — TYPE: L21E2
- P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19
- P-EJB-200N1-09-L2-11 4G4_E → EJB-200N1-09-L2-11

EJB-200N1-09-L2-11 — TYPE: L21E2
- P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18
- P-EJB-200N1-09-L2-10 4G4_E → EJB-200N1-09-L2-10

EJB-200N1-09-L2-10 — TYPE: L21E2
- P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17
- P-EJB-200N1-09-L2-09 4G4_E → EJB-200N1-09-L2-09

EJB-200N1-09-L2-09 — TYPE: L21E2
- P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16
- P-ELF-200N1-09-L2-26 4G2.5_E → ELF-200N1-09-L2-26
- P-EJB-200N1-09-L2-13 4G4_E → EJB-200N1-09-L2-13

EJB-200N1-09-L2-13 — TYPE: L21E2
- P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

EJB-200N1-09-L2-07 — TYPE: L21E2
- P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14
- P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02
- P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11
- P-EJB-200N1-09-L2-06 4G4_E → EJB-200N1-09-L2-06

EJB-200N1-09-L2-08 — TYPE: L21E2
- P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15
- P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-06 — TYPE: L21E2
- P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13
- P-ELF-200N1-09-L2-27 4G2.5_E → ELF-200N1-09-L2-27
- P-EJB-200N1-09-L2-05 4G4_E → EJB-200N1-09-L2-05

EJB-200N1-09-L2-05 — TYPE: L21E2
- P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12
- P-EJB-200N1-09-L2-16 4G4_E → EJB-200N1-09-L2-16

EJB-200N1-09-L2-16 — TYPE: L21E2
- P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23
- P-EJB-200N1-09-L2-15 4G4_E → EJB-200N1-09-L2-15

EJB-200N1-09-L2-15 — TYPE: L21E2
- P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2
- P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21
- P-EJB-200N1-09-L2-14 4G4_E

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A) → P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17 — C-ELS-200N1-09-L2-01 2C X 2.5 → ELS-200N1-09-L2-01 (02)
- P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25
- P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

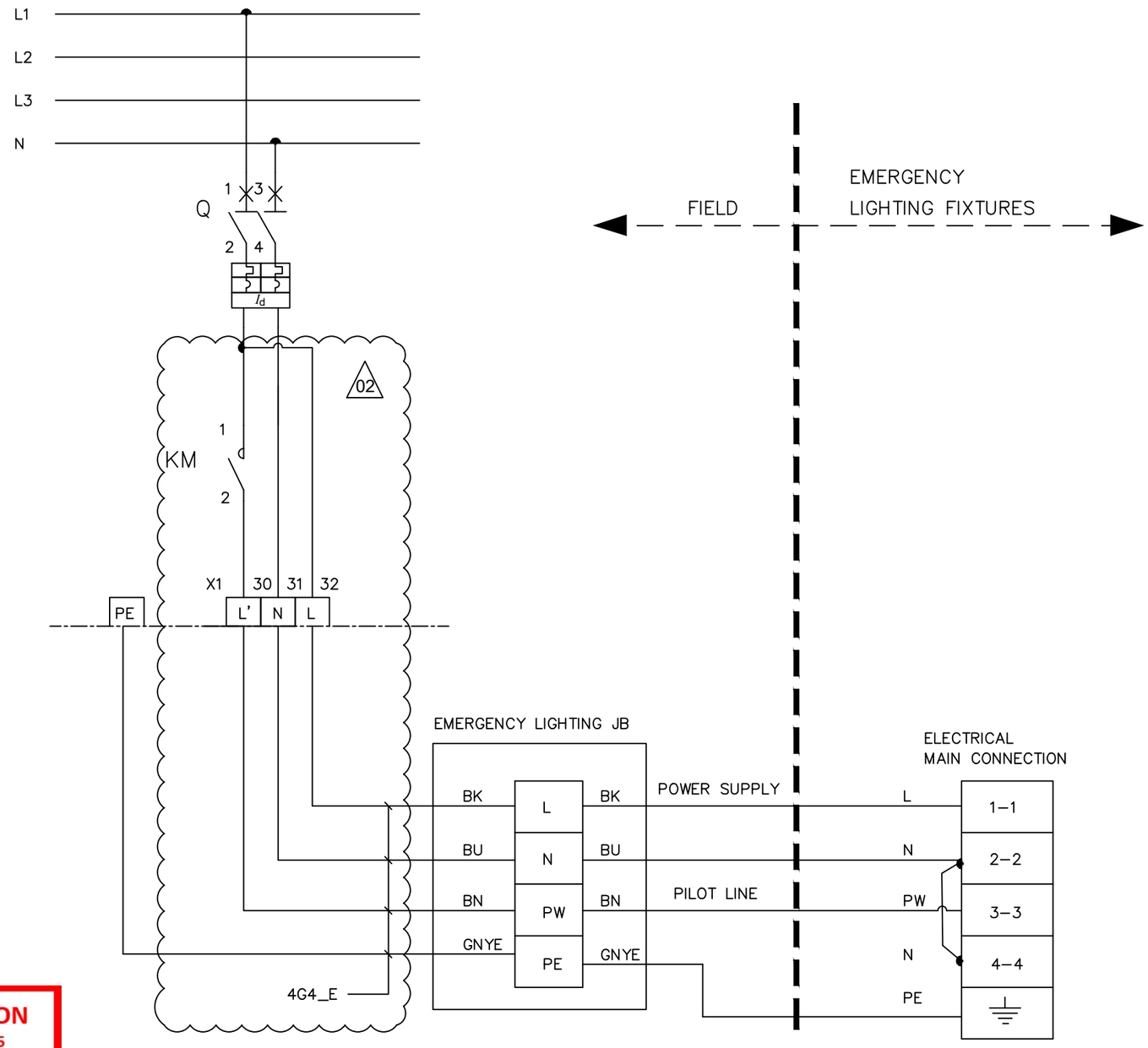
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

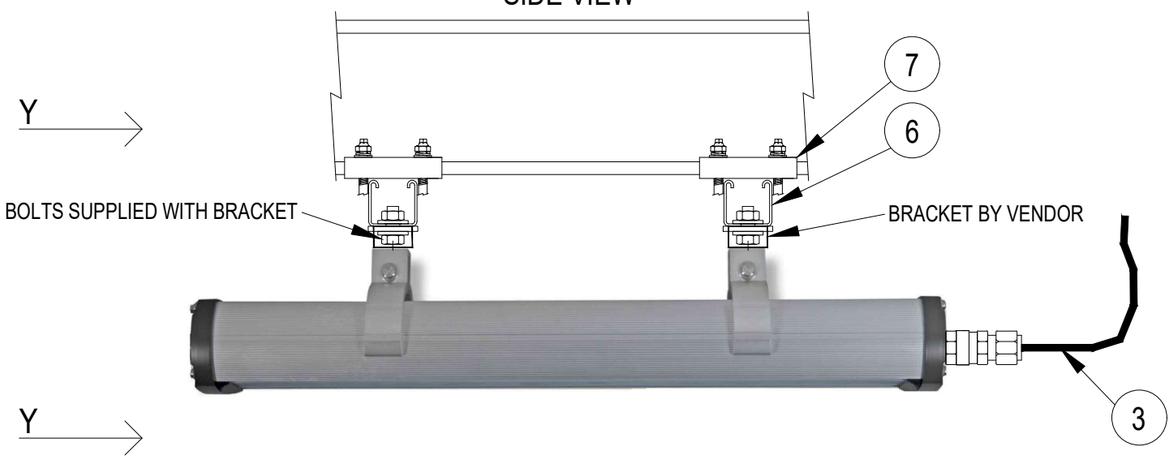
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

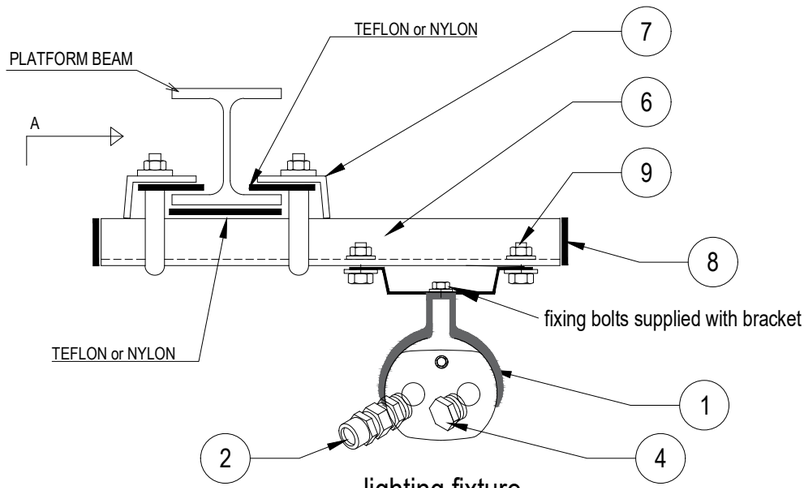
L03A

SIDE VIEW

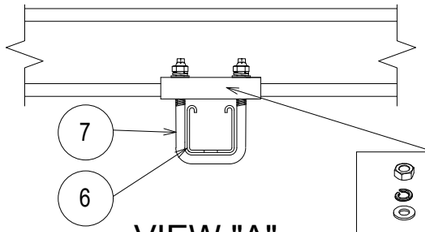


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

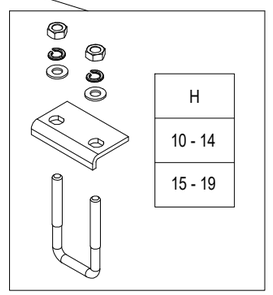
SECTION "Y-Y"



lighting fixture
Cortem LIFEX



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

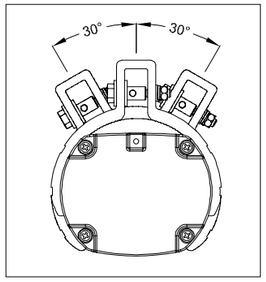
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

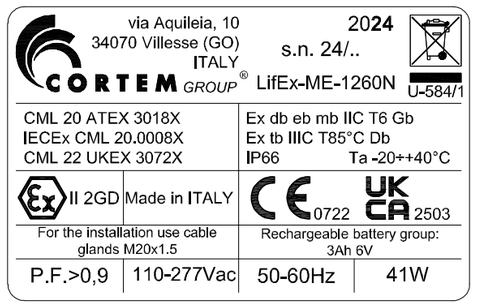
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



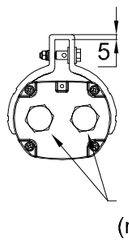
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

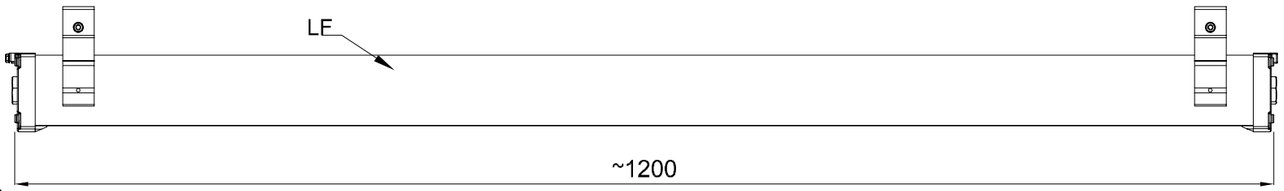
CERTIFICATE NAMEPLATE



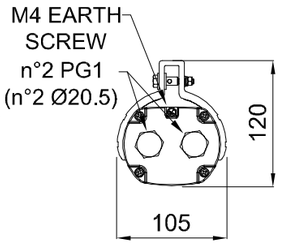
LEFT SIDE (OUT)



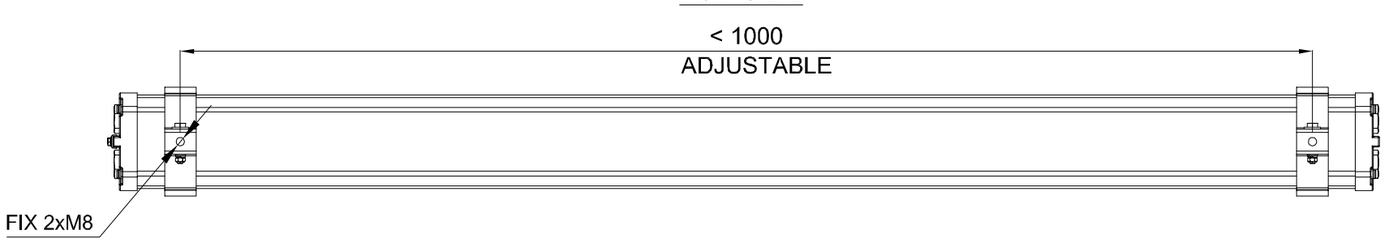
FRONT SIDE



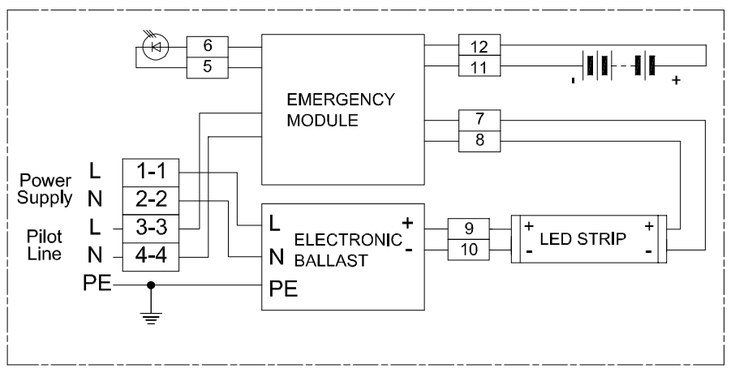
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTAROLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 2
NEXT: /
TOT.: 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

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Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	ELF-200N1-09-L2-27	: Emergency Lighting Fixture			Dwg	123A90-DDL-EL-DL-20119
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10004715		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX00 Miscellaneous Electrical Equipment

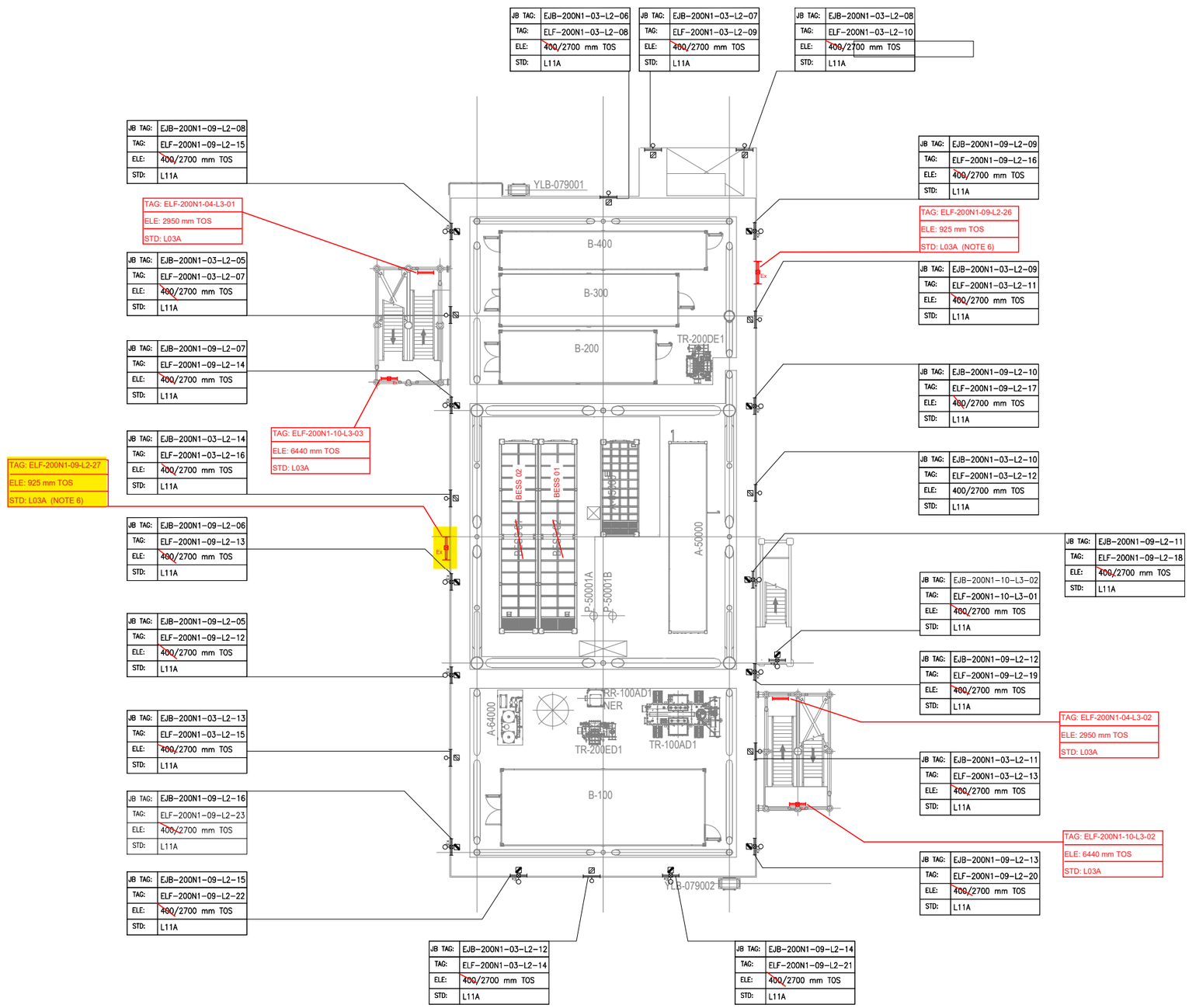
1	Check circuit is de-energized and safe.	OK
2	Check equipment is installed in accordance with layout drawing.	PL
3	Check equipment is undamaged and correcly tagged.	PL
4	Check nameplate data is correct.	NA
5	Check all bolts are fitted and all unused entries are suitably plugged.	OK
6	Check terminals for proper size and installation crimps	OK
7	Check earthing and bonding against drawings.	OK
8	Check items are properly fixed on support.	OK
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments:

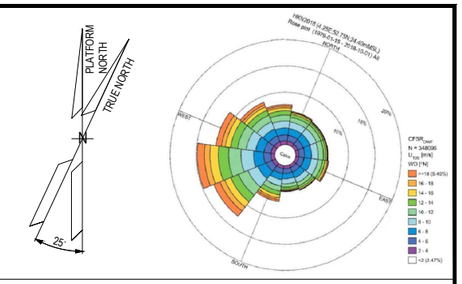
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-17	2025-01-17	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-17T07:47:23.624Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-17T16:02:26.674Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

Q09 KL9 P-EJB-200N1-09-L2-01 4G4_E

LOWER DECK EMERGENCY LIGHTING

EJB-200N1-09-L2-01 — TYPE: L21E2
- P-ELF-200N1-09-L2-01 4G2.5_E → ELF-200N1-09-L2-01
- P-ELF-200N1-09-L2-10 4G2.5_E → ELF-200N1-09-L2-10
- P-EJB-200N1-09-L2-04 4G4_E → EJB-200N1-09-L2-04

EJB-200N1-09-L2-04 — TYPE: L21E2
- P-ELF-200N1-09-L2-06 4G2.5_E → ELF-200N1-09-L2-06
- P-ELF-200N1-09-L2-04 4G2.5_E → ELF-200N1-09-L2-04
- P-ELF-200N1-09-L2-07 4G2.5_E → ELF-200N1-09-L2-07
- TO (A) TO BELOW LOWER DECK REFER DWG.123A90-DDL-EL-DG-20125 SHEET NO : 005
- P-EJB-200N1-09-L2-02 4G4_E → EJB-200N1-09-L2-02

EJB-200N1-09-L2-02 — TYPE: L21E2
- P-ELF-200N1-09-L2-09 4G2.5_E → ELF-200N1-09-L2-09
- P-ELF-200N1-09-L2-08 4G2.5_E → ELF-200N1-09-L2-08
- P-ELF-200N1-09-L2-03 4G2.5_E → ELF-200N1-09-L2-03
- P-ELF-200N1-09-L2-05 4G2.5_E → ELF-200N1-09-L2-05
- P-EJB-200N1-09-L2-12 4G4_E → EJB-200N1-09-L2-12
- P-EJB-200N1-09-L2-07 4G4_E → EJB-200N1-09-L2-07

EJB-200N1-09-L2-12 — TYPE: L21E2
- P-ELF-200N1-09-L2-19 4G2.5_E → ELF-200N1-09-L2-19
- P-EJB-200N1-09-L2-11 4G4_E → EJB-200N1-09-L2-11

EJB-200N1-09-L2-11 — TYPE: L21E2
- P-ELF-200N1-09-L2-18 4G2.5_E → ELF-200N1-09-L2-18
- P-EJB-200N1-09-L2-10 4G4_E → EJB-200N1-09-L2-10

EJB-200N1-09-L2-10 — TYPE: L21E2
- P-ELF-200N1-09-L2-17 4G2.5_E → ELF-200N1-09-L2-17
- P-EJB-200N1-09-L2-09 4G4_E → EJB-200N1-09-L2-09

EJB-200N1-09-L2-09 — TYPE: L21E2
- P-ELF-200N1-09-L2-16 4G2.5_E → ELF-200N1-09-L2-16
- P-ELF-200N1-09-L2-26 4G2.5_E → ELF-200N1-09-L2-26
- P-EJB-200N1-09-L2-13 4G4_E → EJB-200N1-09-L2-13

EJB-200N1-09-L2-13 — TYPE: L21E2
- P-ELF-200N1-09-L2-20 4G2.5_E → ELF-200N1-09-L2-20

EJB-200N1-09-L2-07 — TYPE: L21E2
- P-ELF-200N1-09-L2-14 4G2.5_E → ELF-200N1-09-L2-14
- P-ELF-200N1-09-L2-02 4G2.5_E → ELF-200N1-09-L2-02
- P-ELF-200N1-09-L2-11 4G2.5_E → ELF-200N1-09-L2-11
- P-EJB-200N1-09-L2-06 4G4_E → EJB-200N1-09-L2-06

EJB-200N1-09-L2-08 — TYPE: L21E2
- P-ELF-200N1-09-L2-15 4G2.5_E → ELF-200N1-09-L2-15
- P-EJB-200N1-09-L2-08 4G4_E

EJB-200N1-09-L2-06 — TYPE: L21E2
- P-ELF-200N1-09-L2-13 4G2.5_E → ELF-200N1-09-L2-13
- P-ELF-200N1-09-L2-27 4G2.5_E → ELF-200N1-09-L2-27
- P-EJB-200N1-09-L2-05 4G4_E → EJB-200N1-09-L2-05

EJB-200N1-09-L2-05 — TYPE: L21E2
- P-ELF-200N1-09-L2-12 4G2.5_E → ELF-200N1-09-L2-12
- P-EJB-200N1-09-L2-16 4G4_E → EJB-200N1-09-L2-16

EJB-200N1-09-L2-16 — TYPE: L21E2
- P-ELF-200N1-09-L2-23 4G2.5_E → ELF-200N1-09-L2-23
- P-EJB-200N1-09-L2-15 4G4_E → EJB-200N1-09-L2-15

EJB-200N1-09-L2-15 — TYPE: L21E2
- P-ELF-200N1-09-L2-22 4G2.5_E → ELF-200N1-09-L2-22

EJB-200N1-09-L2-14 — TYPE: L21E2
- P-ELF-200N1-09-L2-21 4G2.5_E → ELF-200N1-09-L2-21
- P-EJB-200N1-09-L2-14 4G4_E

FROM LOWER DECK - EJB-200N1-09-L2-04
REFER DWG.123A90-DDL-EL-DG-20125
SHEET NO : 005
FROM (A) → P-EJB-200N1-09-L2-17 4G4_E

BELOW LOWER DECK

EJB-200N1-09-L2-17 — C-ELS-200N1-09-L2-01 2C X 2.5 → ELS-200N1-09-L2-01 (02)
- P-ELF-200N1-09-L2-25 4G2.5_E → ELF-200N1-09-L2-25
- P-ELF-200N1-09-L2-24 4G2.5_E → ELF-200N1-09-L2-24

VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

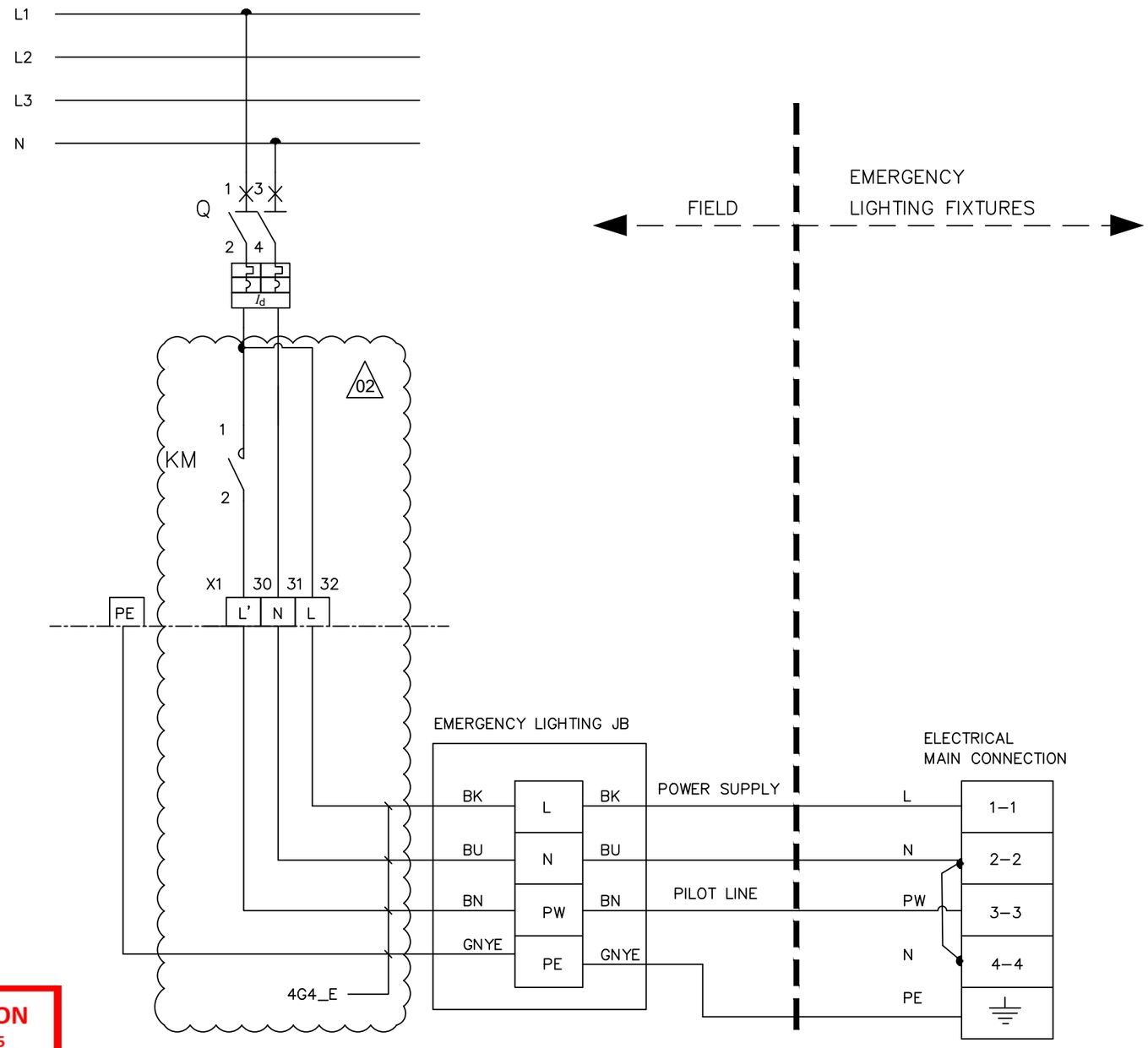
File Name : 123A90-DDL-EL-DG-20125

DP–200N1

FOR EMERGENCY LIGHTING

INTERNAL BUS BAR 400V–230V / 50Hz

EMERGENCY LIGHTS WIRING DIAGRAM



L – POWER SUPPLY

N – NEUTRAL

PW – PILOT LINE

PE – PROTECTIVE EARTH

BN – BROWN (L')

BK – BLACK (L)

BU – BLUE (N)

GNYE – GREEN/YELLOW (PE)

VALID FOR CONSTRUCTION

FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
EMERGENCY LIGHTS WIRING DIAGRAM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90–DDL–EL–DG–20125

SHEET 014

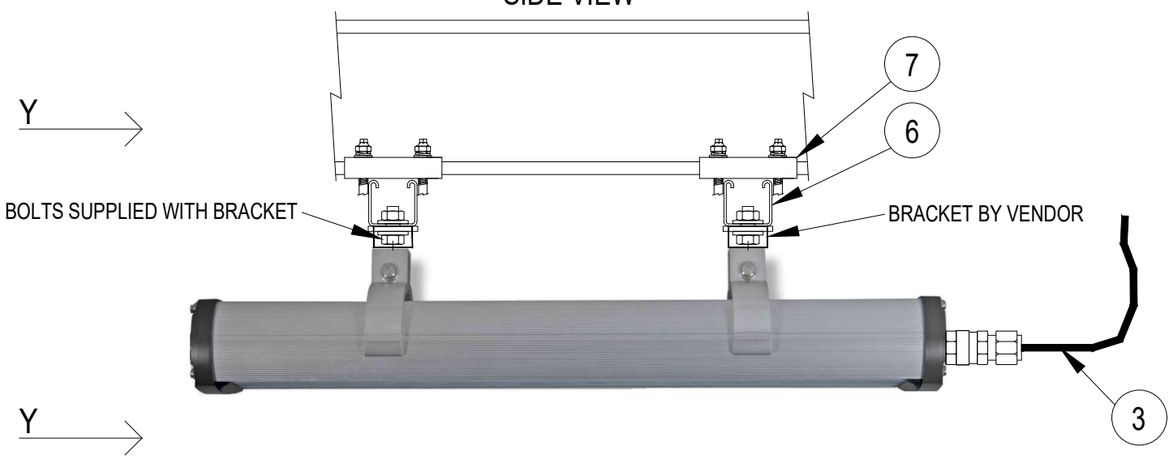
REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DG–20125

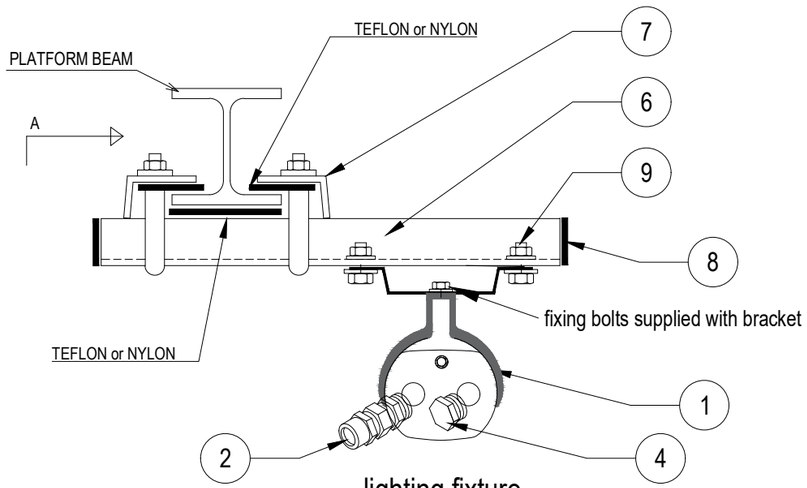
L03A

SIDE VIEW

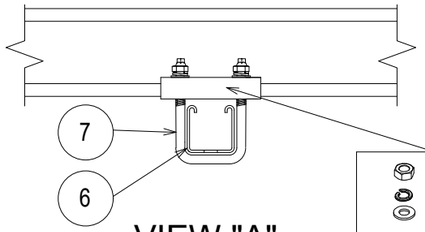


POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	LIGHITNG FIXTURE (Ex e) WITH LED LAMP	ALUMINIUM ALLOY		1	
2	CABLE GLAND (Ex) FOR ARMOURED/UNARMOURED CABLE	NICK.PL.BRASS		1	NOTE 2 NOTE 5
3	ARMOURED/UNARMOURED CABLE				NOTE 5
4	PLUG	NICK.PL.BRASS		AS REQ.	NOTE 3
6	SINGLE U-CHANNEL PERFORATED ON NO.3 SIDE	AISI 316L		AS REQ.	NOTE 1
7	SINGLE U-CHANNEL BEAM ATTACHMENT (10-14) OR (15-19) WITH COLLAR COMPLETE WITH HARDWARE	AISI 316L		4	NOTE 4
8	PLUG FOR U-CHANNEL	LPDE		4	
9	HEX. BOLT M8X16 WITH LARGE PLANE WASHER		M8x16	4	

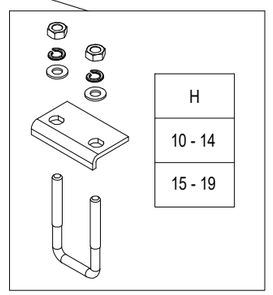
SECTION "Y-Y"



lighting fixture
Cortem LIFEX



VIEW "A"



NOTES:

1) THE EXACT DIMENSIONS WILL BE DEFINED DURING ASSEMBLY PHASE.
2) CABLE GLAND COMPLETE WITH LOCKNUT, NYLON WASHER, SERRATED WASHER, EXTERNAL RUBBER RING AND EARTH TAG (IF NECESSARY).
3) UNUSED CABLE ENTRIES MUST BE CLOSED WITH NICKEL PLATED BRASS PLUG.
4) SINGLE U-CHANNEL BEAM ATTACHMENT (CLAMP) IS PRODUCED IN NO. 2 DIFFERENT SIZES (10-14 OR 15-19) SIZE REFERS TO THE THICKNESS OF THE BEAM WHERE THE CLAMP IS INSTALLED.
5) FOR LAMPS IN HAZARDOUS AREA, USE ARMOURED CABLE, DOUBLE SEAL CABLE GLAND AND EX JUNCTION BOX.

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
2_B	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	30/09/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS–LIGHTING SYSTEM
FIXTURE SUSPENSION MOUNTED WITH CLAMPED SUPPORT

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90–DDL–EL–DD–20091 | SHEET 008 | REV. 02

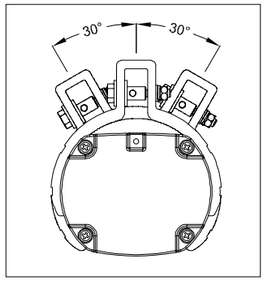
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20091 REV.02.DWG

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001290 DD 26/06/2024
- ITEM.: 2
- Q.TY: 78
- EXTERNAL PAINTING: RAL 7022 (END CAPS)
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

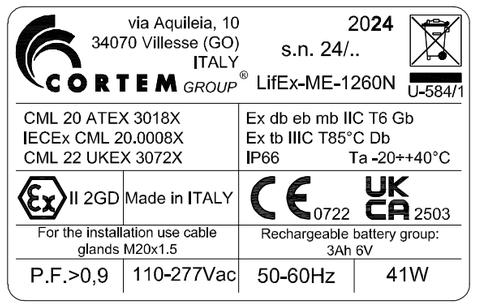
STANDARD FIXING BRACKET
FASTENING WITH 2 THREADED M8
HOLES, ADJUSTABLE FROM 0° TO ±30°



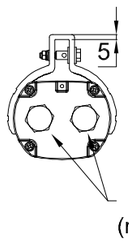
LF INFORMATION	
NOMINAL POWER	60W
CONSUMED POWER	40,9W
POWER FACTOR	>0,96
RATED CURRENT	185 mA
VIEWING ANGLE	120°
COLOUR TEMP.	5000 K
CRI	>80
INSTANT RESTRIKE	YES
LUMEN	6218 lm
LIGHT INTENSITY	2191 cd
EFFICIENCY	152 lm/W
WEIGHT	3,5 Kg
IP PROTECTION	IP66
AUTONOMY	180 min
LUMEN EMERG. MODE	1168 lm

N°	Q.TY	CODE	DESCRIPTION
LF	1	LIFEX-ME-1260N-BB	110-277Vac 50-60Hz 60W (RED. TO 40W) LED LINEAR LIGHTING FIXTURE BODY: ALUMINUM ALLOY EXTRUSION AND ALUMINUM END CAPS TRANSPARENT PART: GLASS RESISTANT TO SHOCKS, UV RAYS AND IMPACT RESISTANCE IK09 GASKETS: ACID AND HYDROCARBON RESISTANT SILICONE ASSEMBLY: FASTENING BRACKETS FOR M8 HOLES, ADJUSTABLE 0° TO ±30° MADE IN ANODIZED ALUMINUM CONNECTION: TERMINAL BLOCK ON SIDE (IN) L, N, PE CROSS SEC. MAX. 4mmq SUITABLE FOR LOOP-IN LOOP-OUT SCREWS, BOLTS AND NUTS: STAINLESS STEEL 304
PG1	4	PLG1IB +DL1IB +RDI1IS/A4	IP66 Ex db IIC Gb - Ex eb IIC Gb NICKEL PLATED BRASS PLUG ISO M20x1,5 WITH RELEVANT LOCKNUT AND SERRATED WASHER MADE IN STAINLESS STEEL

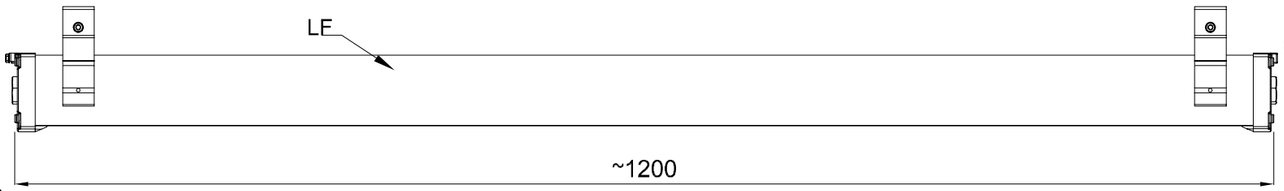
CERTIFICATE NAMEPLATE



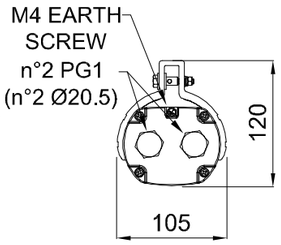
LEFT SIDE (OUT)



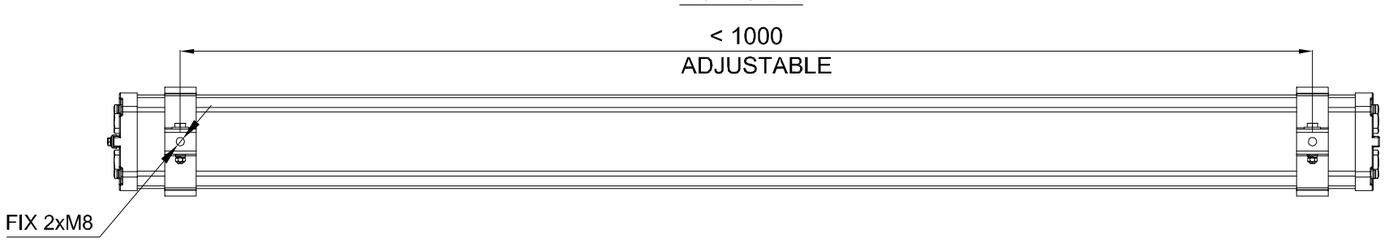
FRONT SIDE



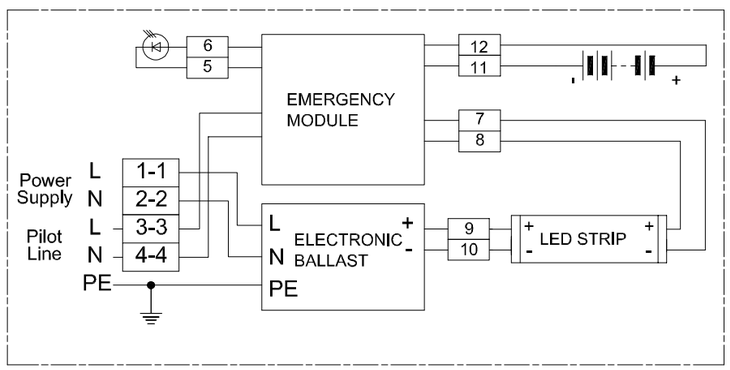
RIGHT SIDE (IN)



TOP SIDE



WIRING DIAGRAM



REV.	DATE	PREP'D	CHK'D	APP'D	DESCRIPTION
2	09/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
1	05/07/2024	FRATTAROLO	GIUSTI	GRATTON	REISSUED FOR APPROVAL
0	28/06/2024	FRATTAROLO	GIUSTI	GRATTON	ISSUED FOR APPROVAL

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 LIFEX-ME-1260N-BB/C2402693/20.

CORTEM JOB: COV2402693
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27521
SHEET: 2
NEXT: /
TOT.: 2

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

Row	Data Sheet for Lighting Fixtures & Accessories				Rev.
1	45W LED Linear Luminaire-Emergency Lighting-ATEX Area				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by vendor	LIFEX-ME-1260N-BB		01
4	Serial Number	by vendor			00
5	Quantity	78 Nos.	78 Nos	(69+9 Spare)	01
6	Location / Module	Lower deck/Upper deck/ Below lower deck			00
7	**LED Lamp**				
8	Nominal power	45 watts	60 watts		01
9	No. of linear	1	1		01
10	Luminous flux	5810 lm	6200 lm		01
11	Colour Temperature	5000 K	5000 K		01
12	**Protection**				
13	Hazardous Area Certification (Ex)	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex II 2GD Ex db eb mb IIC Gb Ex tb IIIC Db		01
14	Degree of Protection (IP)	IP 56	IP 66		01
15	ATEX certified	Classification EX db	ATEX CML 20 ATEX 3018X		01
16	**Material**				
17	Body	GRP/Aluminium alloy	Aluminium alloy		01
18	Reflector	GRP/Aluminium	Aluminium		01
19	Diffuser	Polycarbonate/temperate glass	Tempered glass		01
20	**Cable Entry**				
21	No. of cable entry	4 Nos.	4 Entries, 2 per side		01
22	Size	M20	Ø20.5mm		01
23	**Emergency Battery Pack**				
24	Requirement	Required			00
25	Battery type	NiCd internal battery, gas-tight	Ni/Mh		01
26	Autonomy	180 mins.	180 min		01
27	Emergency luminous flux	1168 lm	1168 lm		01
28	**Mechanical parameters**				
29	Dimension	by vendor	1200x105x120 (mm)		01
30	Weight	by vendor	4.5kg		01

Note:

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ITEM	Tag	P-ELF-200N1-09-L2-26	: Emergency Lighting JB/Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10004718		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

CABLE DATA

Type: Cu Cl.2/EPR/LSZH | Cores/Size mm²: 4G2,5_E | Color: GREY

From: EJB-200N1-09-L2-09 | To: ELF-200N1-09-L2-26

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	PL
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

REFER TO FINAL SHEET FOR ACCEPTANCE

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-26	: Emergency Lighting JB/Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10004718		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

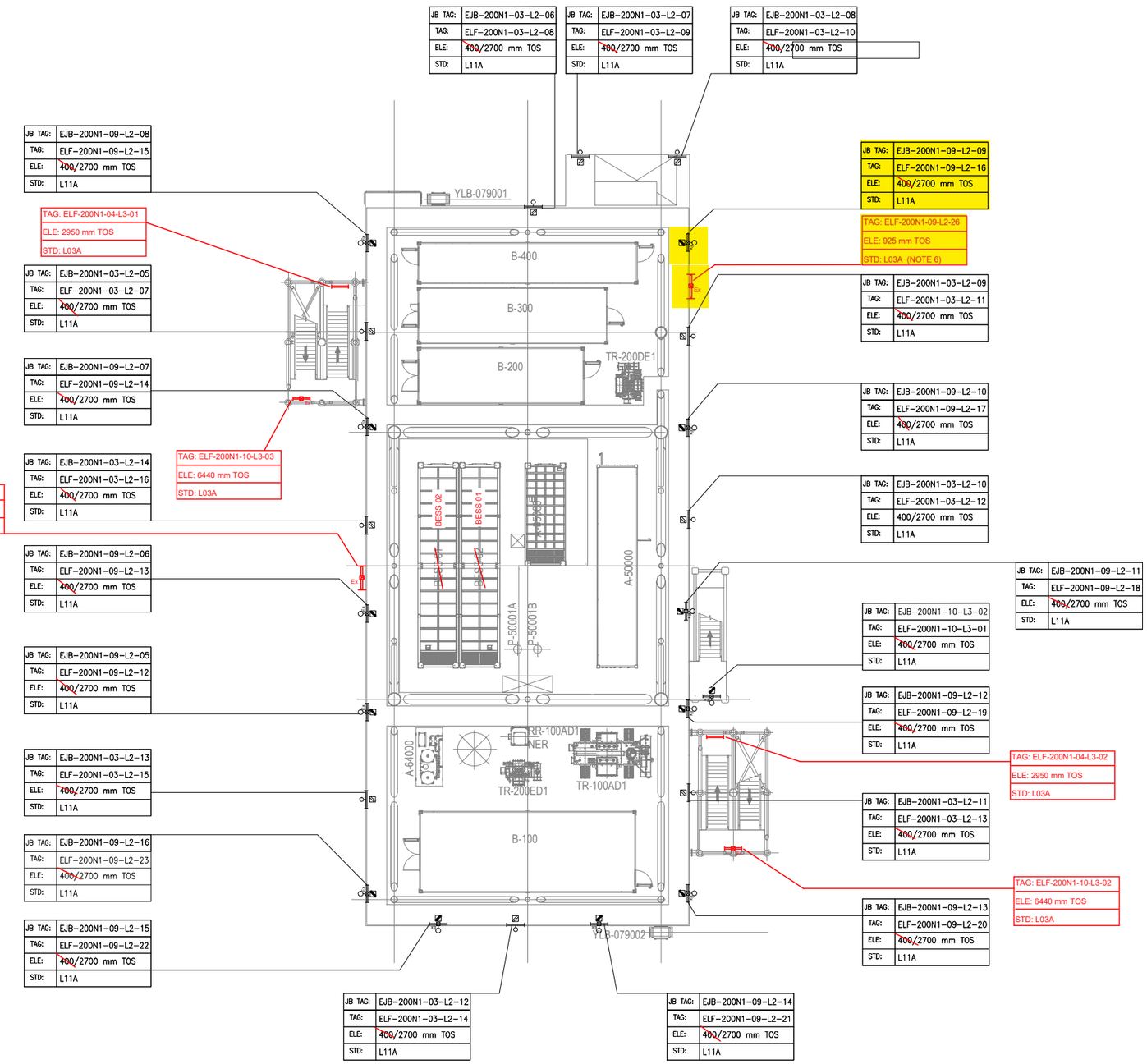
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETRO SIN-STRU-017 S/N:H240103023
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	12/10/2024

Comments: Nota 4: refer to PL C30000679

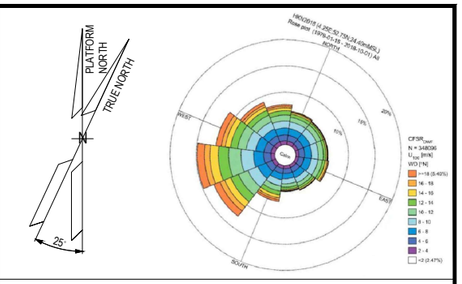
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-17	2025-01-17	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-17T07:48:26.384Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-17T10:58:00.588Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

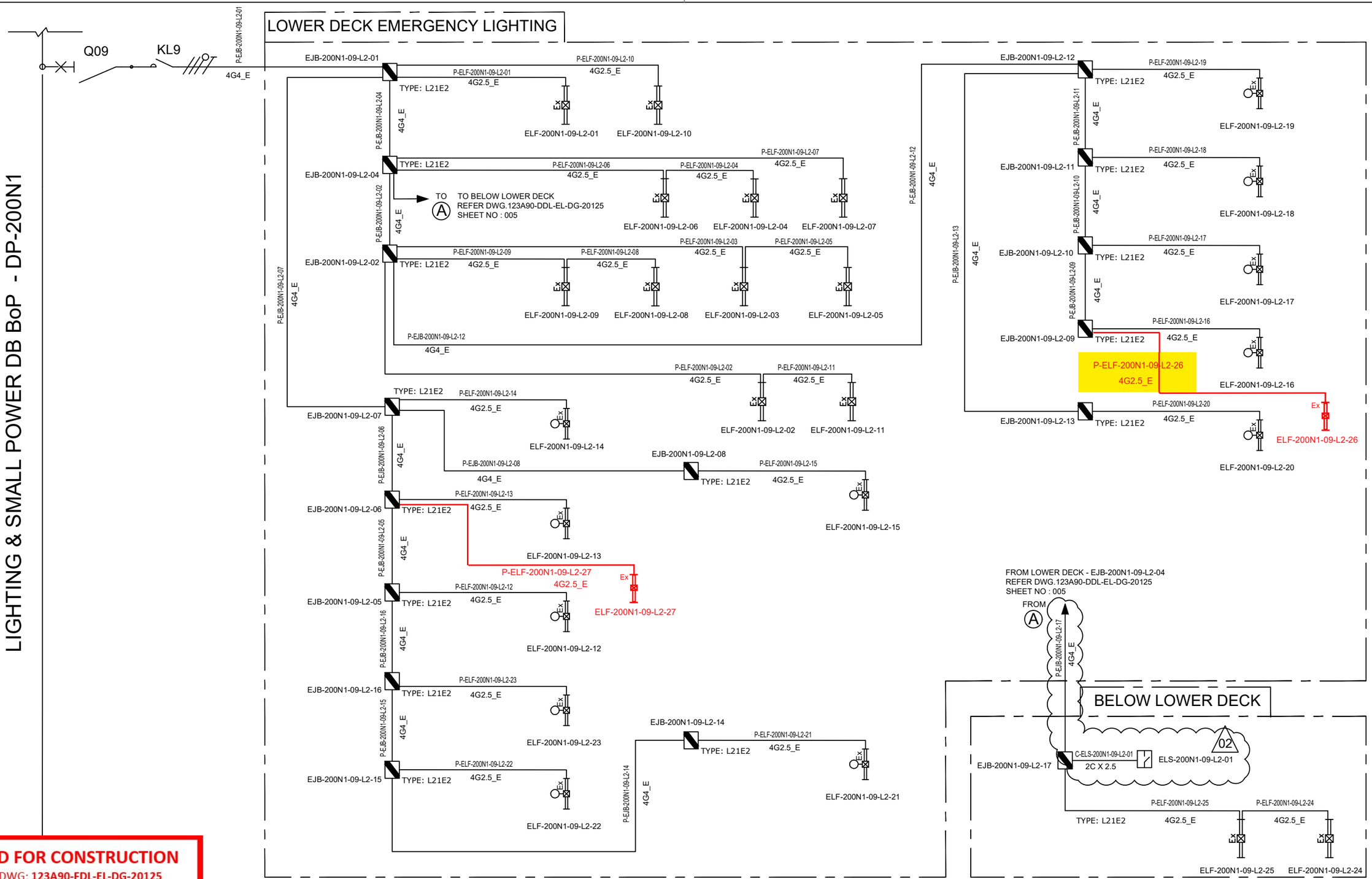
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

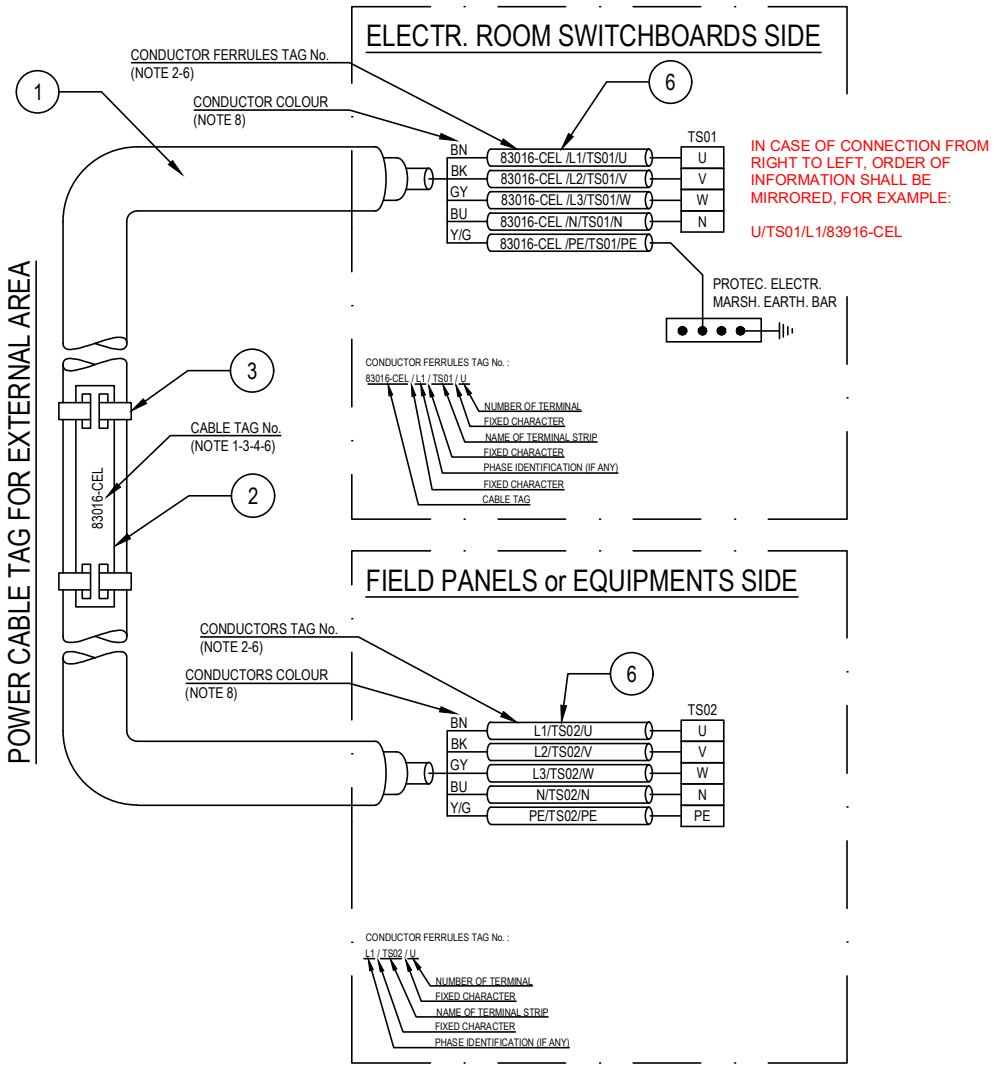
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

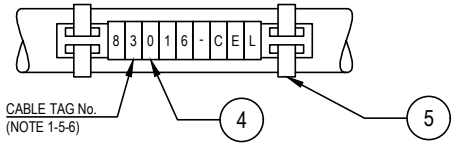
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

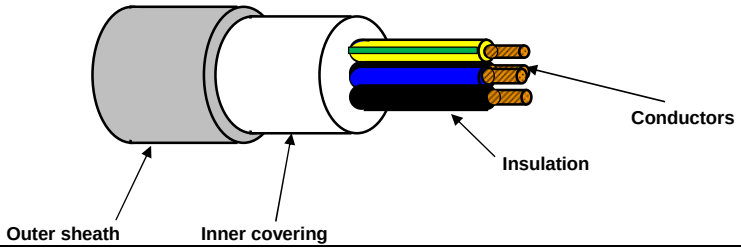
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-26	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-09	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-26	Emergency Lighting Fixture	Lower Deck	Emergency Lighting Fixture for ID Sign Board - EAST	ELECV12-4G2.5_E	Cable Cu CI.2/EPR/LSZH 0.6/1kV 4G2.5mm², E - Grey	M25	T1_M25_Single			T1_M25_Single	M20	ADAP_M20Mx M25F		L-150-101-LVT-083

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

All proprietary rights reserved according to law. This document shall be not reproduced without written permission. FLEI reserves the right to change characteristics and technical data of product shown at any time.

ITEM	Tag	P-ELF-200N1-09-L2-27	: Emergency Lighting JB/Emergency Lighting Fixture		Dwg	123A90-DDL-EL-LIS-20148	
	S/Sys	83-36	: Emergency Lighting Lower Deck		Module	LD	
TASK	code	C10004719	Location	Onshore Activities	User	Rosetti Marino Quality Control	
FORM	Process	MC	Activity CCK	Discipline Electrical	Form	CPX09	LV Power Cable

CABLE DATA

Type Cu Cl.2/EPR/LSZH Cores/Size mm² 4G2,5 mm2 Color GRAY

From EJB-200N1-09-L2-06 To ELF-200N1-09-L2-27

1	Confirm cable is as specified in project cable schedule	OK
2	Visual Check cable physical integrity.	OK
3	Check is installed in accordance with layout drawing (segregation, distance…).	OK
4	Check cable is supported and fixed to rack according to project specification.	Note
5	Check bending radius is within the specified limits.	OK
6	Confirm cable glands suit for cable type, correctly mounted and tightened.	OK
7	Check gland plate for single core cables is non ferrous (non -magnetic).	NA
8	Confirm cable labelling is in accordance with specifications.	PL
9	Check cable is correctly loomed and segregated in accordance with specification.	OK
10	Check cable earthing against lastest drawings.	OK
11	Check cores marking are in accordance with termination diagram	OK
12	Check terminations are in accordance with latest termination diagram	OK
13	If required produce Red Line Mark Up for "AS BUILT"	

ROSETTI MARINO PROVERLIS CROSSWIND

ITEM	Tag	P-ELF-200N1-09-L2-27	: Emergency Lighting JB/Emergency Lighting Fixture			Dwg	123A90-DDL-EL-LIS-20148
	S/Sys	83-36	: Emergency Lighting Lower Deck			Module	LD
TASK	code	C10004719		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Electrical	Form	CPX09 LV Power Cable

	CONTINUITY			
5	CORE CONTINUITY Ω	PH 1	0,2	
6		PH 2	0,2	
7		PH 3	0,2	
8	ARMOUR CONTINUITY Ω		NA	
9	PROTECTIVE CONDUCTOR CONTINUITY Ω		0,2	
	INSULATION			
10	CORES / ARMOUR+EARTH MΩ	PH1 / PH2-PH3-A-E	>999	
11		PH2 / PH1-PH3-A-E	>999	
12		PH3 / PH1-PH2-A-E	>999	
13	CABLE IS CORRECTLY RE-CONNECTED.		Yes	

TESTING INSTRUMENTS USED

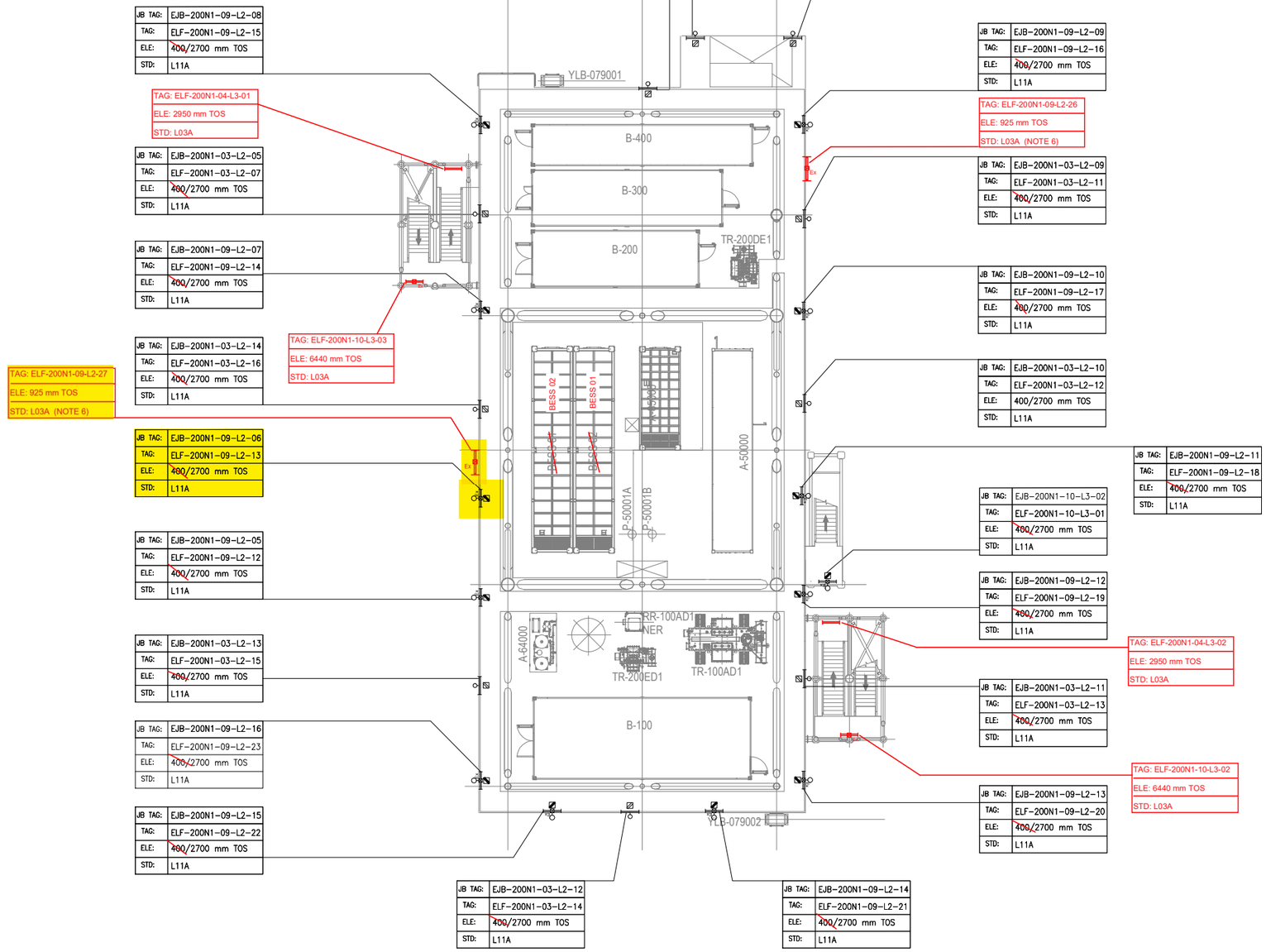
TYPE / SERIAL N° :	MEGGER : KEW3125A SERIAL: W8330207	TYPE / SERIAL N° :	MULTIMETRO SIN-STRU-017 S/N:H240103023
Calibration certificate N° and date:	N°7722/24 _ 10/07/2024	Calibration certificate N° and date:	12/10/2024

Comments:

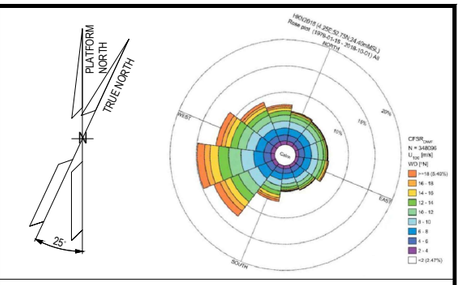
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	ICS IMPIANTI	RM(ROSETTI MARINO)	
Name	Michele Tartaglia	Andrea Andreani	
Date	2025-01-17	2025-01-17	
Signature	PROVERLIS Digitaly signed by Michele Tartaglia 2025-01-17T07:48:46.391Z	PROVERLIS Digitaly signed by Andrea Andreani 2025-01-17T16:16:15.583Z	

DRAWING NO. 123A90-DDL-EL-DL-20119

REV. 01



PLAN ON LOWER DECK
EL+23.310 T.O.S



NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE GIVEN IN MM UNLESS OTHERWISE NOTED.
2. ELEVATIONS REFER TO T.O.S.
3. ELEVATION OF THE LAMPS ARE REFFERED TO THE BOTTOM OF THE LAMP.
4. FOR THE ELEVATION OF JB, REFER TO THE TYPICAL INSTALLATION.
5. SHEET 1 OF 2 SHOWS ONLY POLE MOUNTED TYPE LIGHTING FIXTURES, SHEET 2 OF 2 SHOWS ONLY SUSPENDED TYPE LIGHTING FIXTURES.
6. FOR ELF-200N1-09-L2-26 AND ELF-200N1-09-L2-27 CONSTRUCTION DETAILS REFER TO DOC. 123A90-DDL-ST-DD-90076

LEGEND

- EMERGENCY LIGHTING JB
- 60W LED EMERGENCY LUMINARIES
- 60W LED EMERGENCY LUMINARIES FIXTURE POLE MOUNTED
- NORMAL LIGHTING JB
- 45W LED NORMAL LUMINARIES
- 45W LED NORMAL LUMINARIES FIXTURE POLE MOUNTED
- WELDING SOCKET WITH INTEGRATED JB
- SMALL POWER SOCKET WITH INTEGRATED JB

JB TAG:	JB-TAG
TAG:	TAG
ELE:	ELEVATION
STD:	STANDARD

REFERENCE DOCUMENTS

123A90-DDL-PP-DL-70070	PLOT PLAN - LOWER & UPPER DECK
123A90-DDL-EL-DL-20101	ELECTRICAL EQUIPMENT LAYOUT - LOWER DECK
123A90-DDL-EL-DD-20091	ELECTRICAL TYPICAL INSTALLATION DETAILS - LIGHTING SYSTEM
123A90-DDL-EL-DD-20092	ELECTRICAL TYPICAL INSTALLATION DETAILS - POWER SYSTEM & CABLE INSTALLATION
123A90-DDL-EL-RE-20153	LIGHTING CALCULATION STUDY REPORT
123A90-DDL-ST-DD-90076	IDENTIFICATION PANELS ASSEMBLY AND DETAILS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	06/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	29/05/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

VALID FOR CONSTRUCTION

REV.:	DATE:	SIGNATURE:
1_E	12/12/24	C.Pilato

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

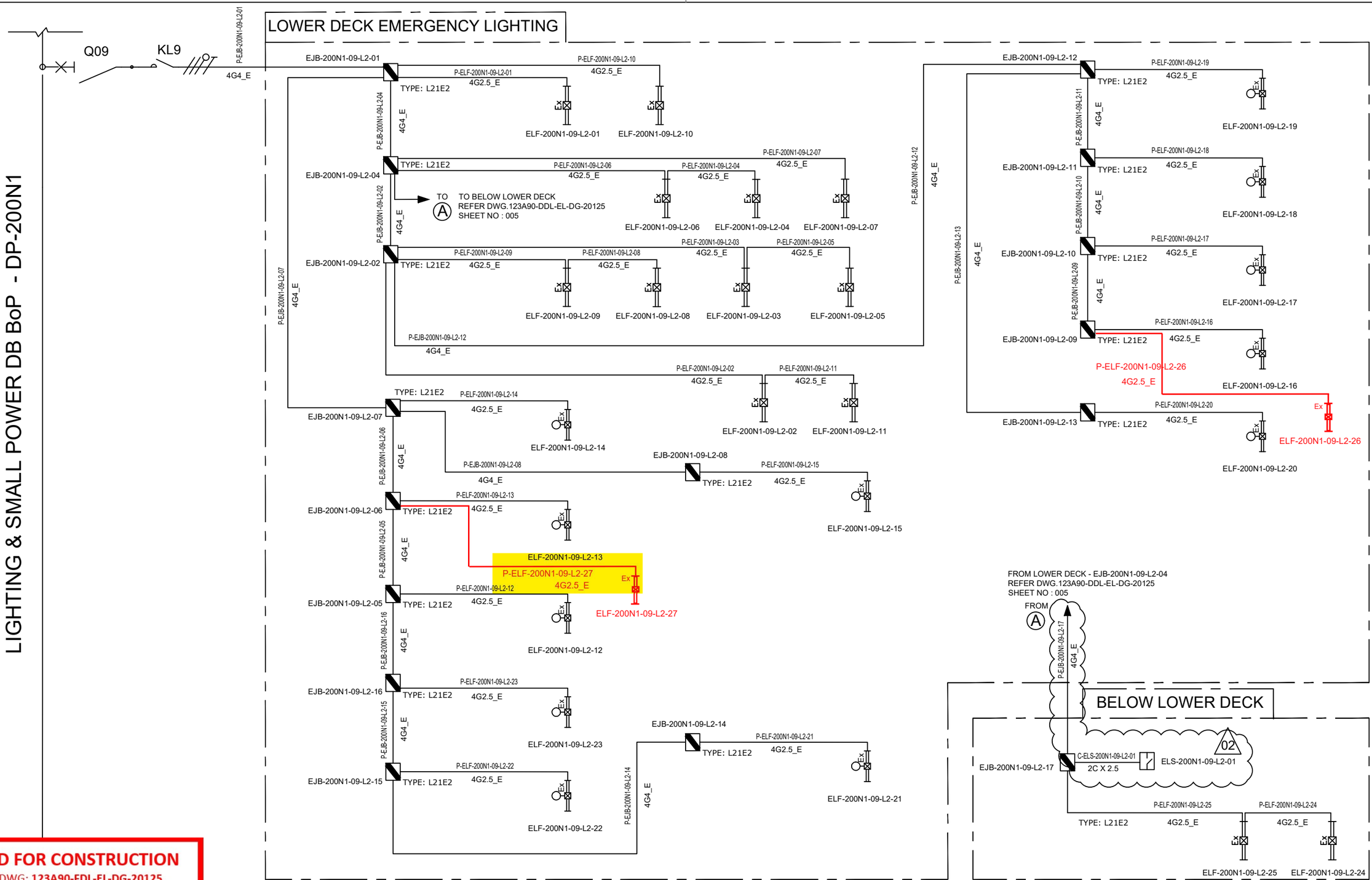
TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET LAYOUT – LOWER DECK

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN ASR	CHECKED FMA/AMA	APPROVED FPA/DLO	DATE 06/08/24
A1	DRAWING NO. 123A90-DDL-EL-DL-20119	SHEET 1of2	REV. 01

File Name : 123A90-DDL-EL-DL-20119

LIGHTING & SMALL POWER DB BoP - DP-200N1

LOWER DECK EMERGENCY LIGHTING



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DG-20125**

REV.:	DATE:	SIGNATURE:
2_G	16/01/25	G.Randi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	07/10/24	AMA	CGI	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	08/08/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	01/07/24	ASR	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
LIGHTING & SOCKET CIRCUIT DIAGRAM
LOWER DECK & BELOW LOWER DECK – EMERGENCY LIGHTING

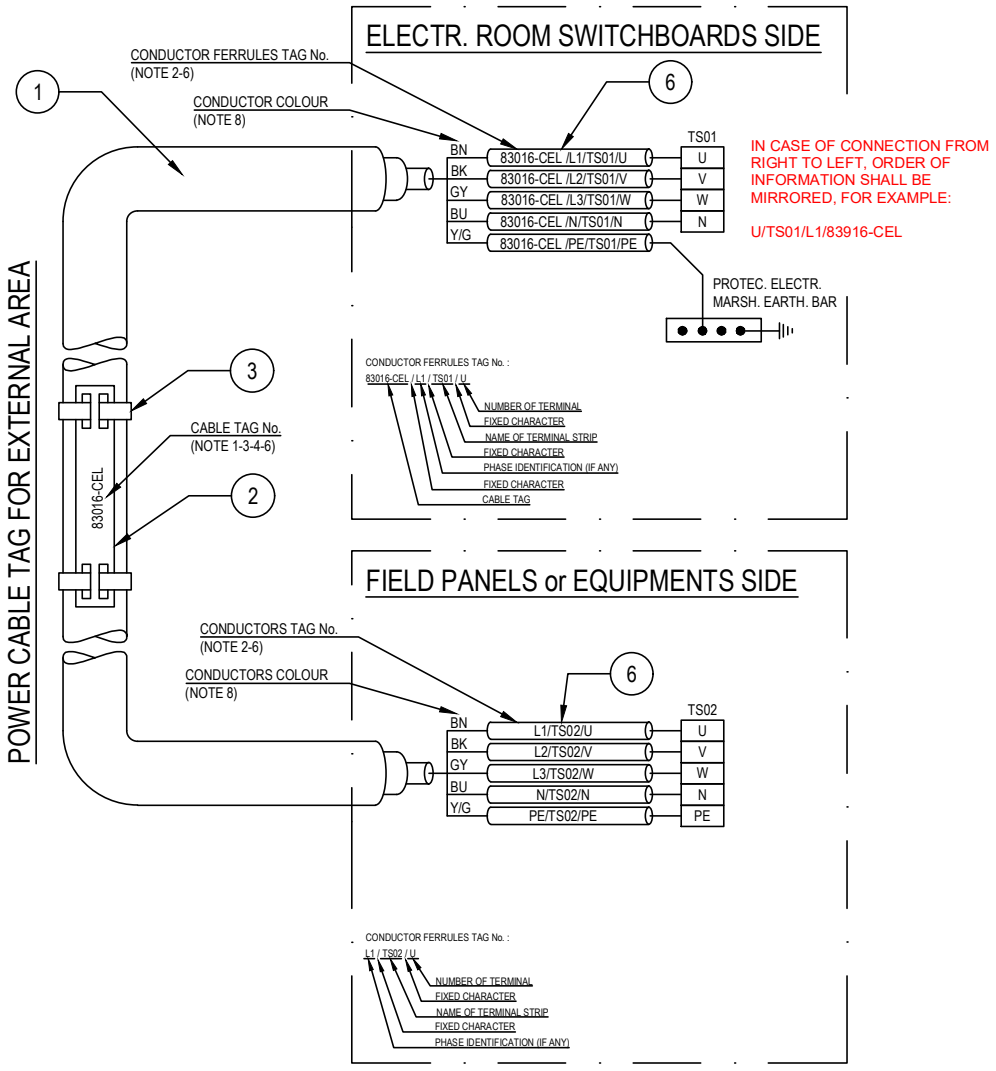
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DG-20125 | SHEET 005 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DG-20125

C02



POS.	DESCRIPTION	MATERIAL	SIZE	Q.TY	NOTE
1	UNARMOURED CABLE				
2	CABLE TAG FOR EXTERNAL AREA	HDG/SS			NOTE 1 NOTE 4
3	TIE FOR CABLE TAG IN EXTERNAL AREA	HDG/SS			
4	CABLE TAG FOR INTERNAL AREA	PVC			NOTE 1 NOTE 5
5	TIE FOR CABLE TAG IN INTERNAL AREA	NYLON 6.6			
6	CORE FERRULES	PVC			

NOTES:

1) ALL CABLES SHALL BE IDENTIFIED AT EACH TERMINATION AND EACH SIDE OF ANY OBSTACLE (E.G. CABLE TRANSIT ON WALLS INSIDE SHELTER AND FLOOR DECK CROSSING, BY THEIR RESPECTIVE TAGS/NUMBERS, AS INDICATED ON THE CABLE SCHEDULE.
CABLE IDENTIFICATION SHALL BE ALSO DONE BELOW AND IN THE SWITCHBOARD CABLE COMPARTMENT.

2) CABLE CORE FERRULES SHALL BE FITTED AT EVERY TERMINATION. THESE FERRULES SHALL BE OF ENGRAVED PLASTIC SLIP ON, INTERLOCKED AND SELF GRIP TYPE.

3) ON CABLE TRAYS OR LADDERS, CABLES SHALL BE IDENTIFIED AT EACH END, AND EVERY 25 METERS.

4) THE CABLE TAG FOR EXTERNAL AREA SHALL DONE BY 316L STAINLESS STEEL LABELS, TAG (H=5mm) SHALL BE LASER PRINTED PREFERABLY OR EMBOSSED, LABEL HELD BY TWO 316L STAINLESS STEEL TIES.

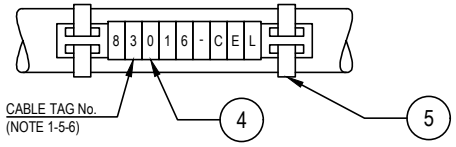
5) THE CABLE TAG FOR INTERNAL AREA SHALL BE DONE BY ENGRAVED PLASTIC SLIP ON CHARACTERS ONTO PLASTIC TIE, BLACK LETTER (H=5mm) ON WHITE.

6) CABLE AND CONDUCTOR TAG ARE INDICATIVE ONLY.

7) WITHIN TECHNICAL BUILDING, PROTECTIVE CONDUCTOR SHALL BE TAGGED BETWEEN FOLLOWING ITEMS:
- PANEL (SWITCHBOARD, SWITCHGEAR, DISTRIBUTION BOARD, ETC) AND EARTH BAR
- EARTH BAR AND EARTH BOSS

8) ONLY IF NECESSARY, SHRINK TUBES OF THE APPROPRIATE COLOR WILL BE INSTALLED TO COVER THE WRONG CONDUCTOR COLOR, THIS WILL BE PERFORMED IN EACH SIDE OF THE CABLES WHERE NECESSARY.

POWER CABLE TAG FOR INTERNAL AREA



VALID FOR CONSTRUCTION
FDL DWG: **123A90-FDL-EL-DD-20092**

REV.:	DATE:	SIGNATURE:
2_D	20/12/24	V.Ramponi

ROSETTI MARINO SpA

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	28/08/24	GRA	AMA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	04/07/24	NLK	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/11/23	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

TITLE : BASE LOAD POWER HUB (BLPH)
ELECTRICAL TYPICAL INSTALLATION DETAILS-POWER SYSTEM & CABLE INSTALLATION
CABLES INSTALLATION SYSTEM IDENTIFICATION FOR POWER CABLES

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 123A90-DDL-EL-DD-20092 | SHEET 007 | REV. 02

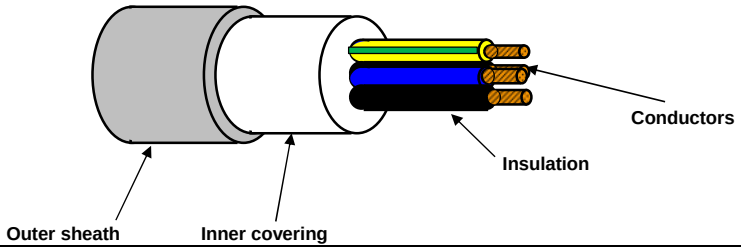
F.to UNI A3: 420mmx297mm

File Name : 123A90-DDL-EL-DD-20092 REV.02.DWG

Tag Number	Category	Discipline	Eng Status	NativeDoc	Layout	Parent Tag	Main Function	Secondary Function	Area	From Tag	From Main Function	From Area	From Tag Section	To Tag	To Main Function	To Area	To Tag Section	Material ID	Material Desc.	Gland Standard	From Gland	From Entry	From Fitting	To Gland	To Entry	To Fitting	Routing	Routing Manual
P-ELF-200N1-09-L2-27	Cable	LSP	VFC	123A90-DDL-EL-LIS-20148						EJB-200N1-09-L2-06	Emergency Lighting JB	Lower Deck		ELF-200N1-09-L2-27	Emergency Lighting Fixture	Lower Deck	Emergency Lighting Fixture for ID Sign Board - WEST	ELECV12-4G2.5_E	Cable Cu Cl.2/EPR/LSZH 0.6/1kV 4G2.5mm², E - Grey	M25	T1_M25_Single	M20	ADAP_M20Mx M25F	T1_M25_Sin gle	M20	ADAP_M20Mx M25F		L-150-101-LVT-108

Cu Cl.2/EPR/LSZH 0,6/1 KV

4G2,5_E - L.V. POWER CABLE - Flame Retardant



TECHNICAL FEATURES

Conductors :	**STRANDED** plain/bare annealed copper wires IEC 60228 Class 2
Insulation :	EPR compound, quality to IEC 60092.360, Nominal Thickness 1,0 mm
Cores colour code :	**Black - Brown - Blue - Yellow/Green**
Pair Assembling :	Not required
Pair Wrapping:	Not required
Drain wire :	Not required
Pair Shield :	Not required
Shield Insulation :	Not Required
Total Assembling :	Cores layed up with optimal lay length
Overall Wrapping:	Not required
Drain wire :	Not required
Overall Shield:	Not required
Inner covering :	Extruded LSZH compound, Average Thickness 1,0 mm
Inner covering color code:	**Black or Natural**
Armour :	Not required
Outer sheath :	Extruded LSZH Thermoplastic Compound (O.I. ≥ 30%), type **SHF1** to IEC 60093.360, Average Thickness 1,2 mm
Outer sheath color code:	**Grey**
Outer printing (INKJET) :	**FLEI - ELECTRIC CABLE - 1000V - 4G2,5 SQMM - EPR/LSZH - 0,6/1 KV - IEC 60332.1.2 - IEC 60332.3.22 - Year of Manufacture - CE + Meter Marking**
Outer diameter :	(14,0 ± 10%) mm
Bending radius :	cable outer diameter x 10 (in fixed installation)
Voltage test :	3,5 kV a.c. for 5' (Between Cores)
Conductors DC Resistance :	IEC 60228 Class 2
Insulation Resistance :	≥ 1100 MΩ x Km (@ 20°C)
Applicable Standards	
Design Guidelines :	**IEC 60092.353**
ON COMPLETE CABLE	
Flame Retardant test :	IEC 60332.1.2 - IEC 60332.3.22
Acid Gas generation :	IEC 60754.1/2
Smoke density/Light Transmittance	IEC 61034.2 (LT ≥ 60%)
Temperature Range :	
ON INSULATION	(max +90°C) (max continuous operation temperature of conductors)
	(max +250°C) (max conductors temperature during short-circuit for 5 seconds)
ON COMPLETE CABLE	
During Operation :	(-20°C up to +90°C) (in fixed installation)
During installation :	(- 5°C up to +50°C)
Note :	**To meet the requirements of installation and use in Zone 1 & Zone 2 (IEC 60079-14) and "Gas & Vapour Tight" the cable must be provided with Penetrating Inner covering together with correct ATEX approved equipment or accessories.**

Office	Date	Sign	Rev.	Date	Sign
Drawn by :	29/03/2024	Messa			
Checked :	29/03/2024	Spaccasassi			
Approved :	29/03/2024	Cucinotta			

The data provided, lending assent for the treatment, will be used to the sense of the article 13 of of the Regulation (UE) 2016/679, also through outsiders, in order to allow the realization of the fulfilments informatives, administrative, commercial and accounting related to the contractual relationship. Integral copy of the informative could be requested at our offices.

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Section 6 MECHANICAL COMPLETION STATUS INDEX - INSTRUMENTAL DISCIPLINE

NOT APPLICABLE

Section 7 MECHANICAL COMPLETION STATUS INDEX - MECHANICAL DISCIPLINE

NOT APPLICABLE

Section 8 MECHANICAL COMPLETION STATUS INDEX - TELECOMMUNICATION DISCIPLINE

NOT APPLICABLE

Section 9 MECHANICAL COMPLETION STATUS INDEX - HVAC DISCIPLINE

NOT APPLICABLE

Section 10 MECHANICAL COMPLETION STATUS INDEX - PIPING DISCIPLINE

NOT APPLICABLE

Section 11 MECHANICAL COMPLETION INDEX - SAFETY DISCIPLINE

NOT APPLICABLE

Section 12 FAT / VENDOR REPORTS

NOT APPLICABLE

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE