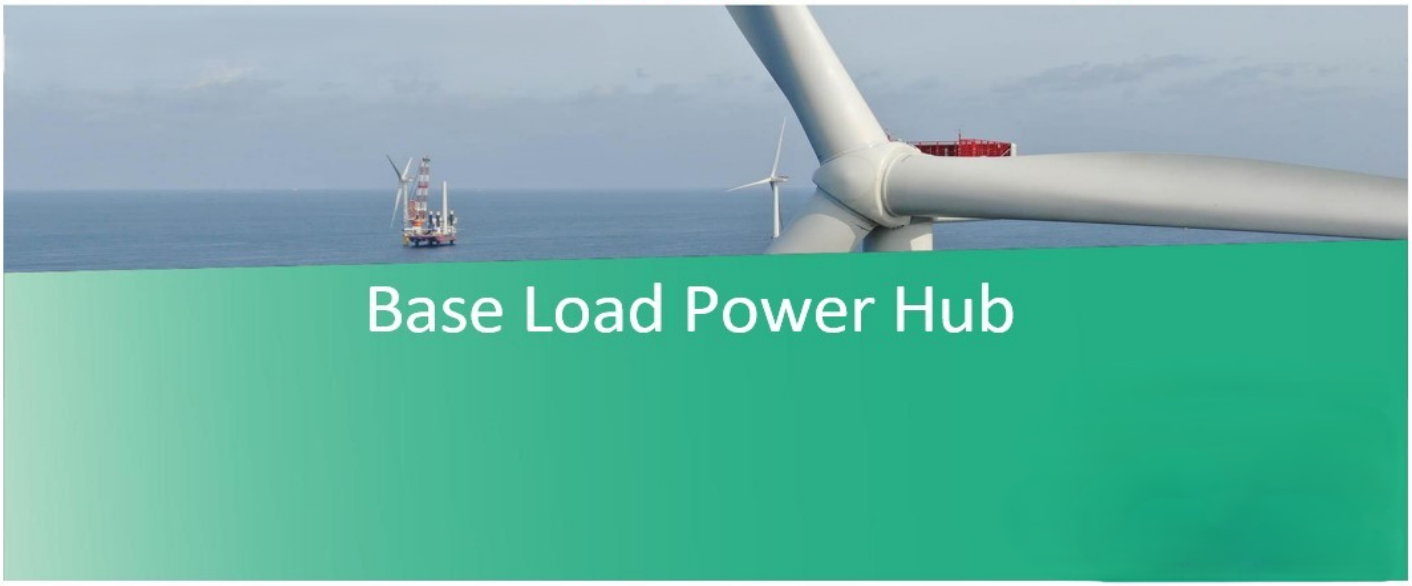
CROSSWIND

ROSETTI MARINO

PROVERLIS

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



MECHANICAL COMPLETION DOSSIER (ONSHORE)

SYSTEM	76 Escape & Personnel Safety
SUBSYSTEM	76-50 Personal Protection

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

Sub System N°:	76-50	Tick as appropriate	ONSHORE	O
Description:	Personal Protection		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*	NA
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*	NA
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*	O
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:	1		Issued on:	2025-05-07	
System:	76	/	Escape & Personnel Safety		
SubSystem:	76-50	/	Personal Protection		

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: All equipment inside the cabinets will be installed during offshore phase.

	CONTRACTOR Construction Manager	**CONTRACTOR** Commissioning Manager	**COMPANY** Construction Lead (if required)	**COMPANY** Commissioning Lead (if required)
Name	Wolmer Borghi	Anthony Iveson	CPY NOT PRESENT	CPY NOT PRESENT
Date	2025-05-07	2025-05-12	2025-05-12	2025-05-12
Signature	PROVERLIS Digitaly signed by Wolmer Borghi 2025-05-07T14:36:34.093Z	PROVERLIS Digitaly signed by Anthony Iveson 2025-05-12T08:25:05.828Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-05-12T09:21:41.889Z	PROVERLIS Digitaly signed by CPY NOT PRESEN 2025-05-12T09:21:46.343Z

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 76-50 & process: MC

Safety	76-50 Personal Protection						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
First_Aid_Equipment_LD	First Aid Equipment Lower Deck	ONSHORE	C10004512	CYX10	100	2025-05-07	RFC 1
First_Aid_Equipment_TP	First Aid Equipment Transition Piece	ONSHORE	C10004513	CYX10	100	2025-05-07	RFC 1
Survival_Equipment_LD	Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Upper Deck	ONSHORE	C10004492	CYX09	100	2025-05-07	RFC 1
Survival_Equipment_TP	Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Transition Piece	ONSHORE	C10004493	CYX09	100	2025-05-07	RFC 1
Survival_Equipment_UD	Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Lower Deck	ONSHORE	C10004491	CYX09	100	2025-05-07	RFC 1

Project CROSSWIND

PUNCH LIST REPORT

NO DATA AVAILABLE

Section 2 CONSOLIDATED PUNCH LISTS

Project CROSSWIND

PUNCH LIST REPORT

NO DATA AVAILABLE

Section 3 SYSTEM,SUB-SYSTEM LIMIT DRAWINGS

NOT APPLICABLE

Section 4 MECHANICAL COMPLETION STATUS INDEX - BUILDING DISCIPLINE

NOT APPLICABLE

Section 5 MECHANICAL COMPLETION STATUS INDEX - ELECTRICAL DISCIPLINE

NOT APPLICABLE

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

CROSSWIND

ROSETTI MARINO

Project CROSSWIND

STATUS INDEX DETAIL

Filtered on subsystem: 76-50 & process: MC & discipline : S

Safety	76-50 Personal Protection						
ITEM		TASK					
Code	Description	Location	Code	Form	Progress	Date	Certificate
First_Aid_Equipment_LD	First Aid Equipment Lower Deck	ONSHORE	C10004512	CYX10	100	2025-05-07	RFC 1
First_Aid_Equipment_TP	First Aid Equipment Transition Piece	ONSHORE	C10004513	CYX10	100	2025-05-07	RFC 1
Survival_Equipment_LD	Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Upper Deck	ONSHORE	C10004492	CYX09	100	2025-05-07	RFC 1
Survival_Equipment_TP	Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Transition Piece	ONSHORE	C10004493	CYX09	100	2025-05-07	RFC 1
Survival_Equipment_UD	Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Lower Deck	ONSHORE	C10004491	CYX09	100	2025-05-07	RFC 1

ITEM	Tag	Survival_Equipment_UD	: Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Lower Deck			Dwg	123A90-DDL-SAF-DL-30026
	S/Sys	76-50	: Personal Protection			Module	UD
TASK	code	C10004491	Location	Onshore Activities		User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Safety	Form	CYX09 Survival Equipment

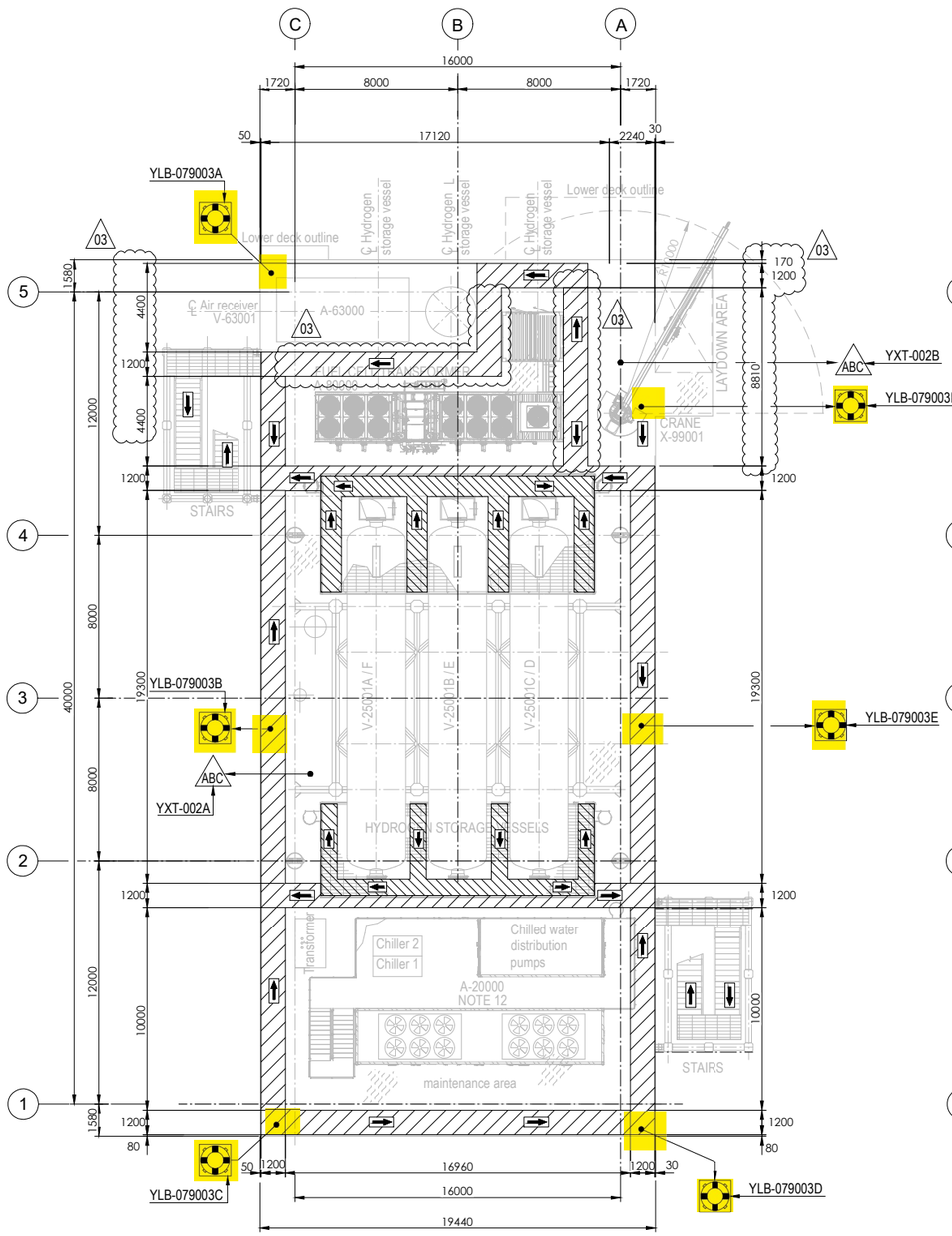
1	Check that the equipment certification is complete and that the nameplate data is correct.	OK
2	Check that the equipment "Tag Number" is correct.	OK
3	Check that the location is correct.	OK
4	Check that the mounting arrangements are correct.	OK
	THE FOLLOWING EQUIPMENT SHALL BE CHECKED IN ACCORDANCE WITH MARKED UP LAYOUT DRAWING	
5	Lifebuoys.	Note
6	Smoke and Light units (for man overboard).	Note
7	Lifejackets.	Note
8	Survival suits.	Note
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments: NOTE: all equipment will be installed in offshore phase.

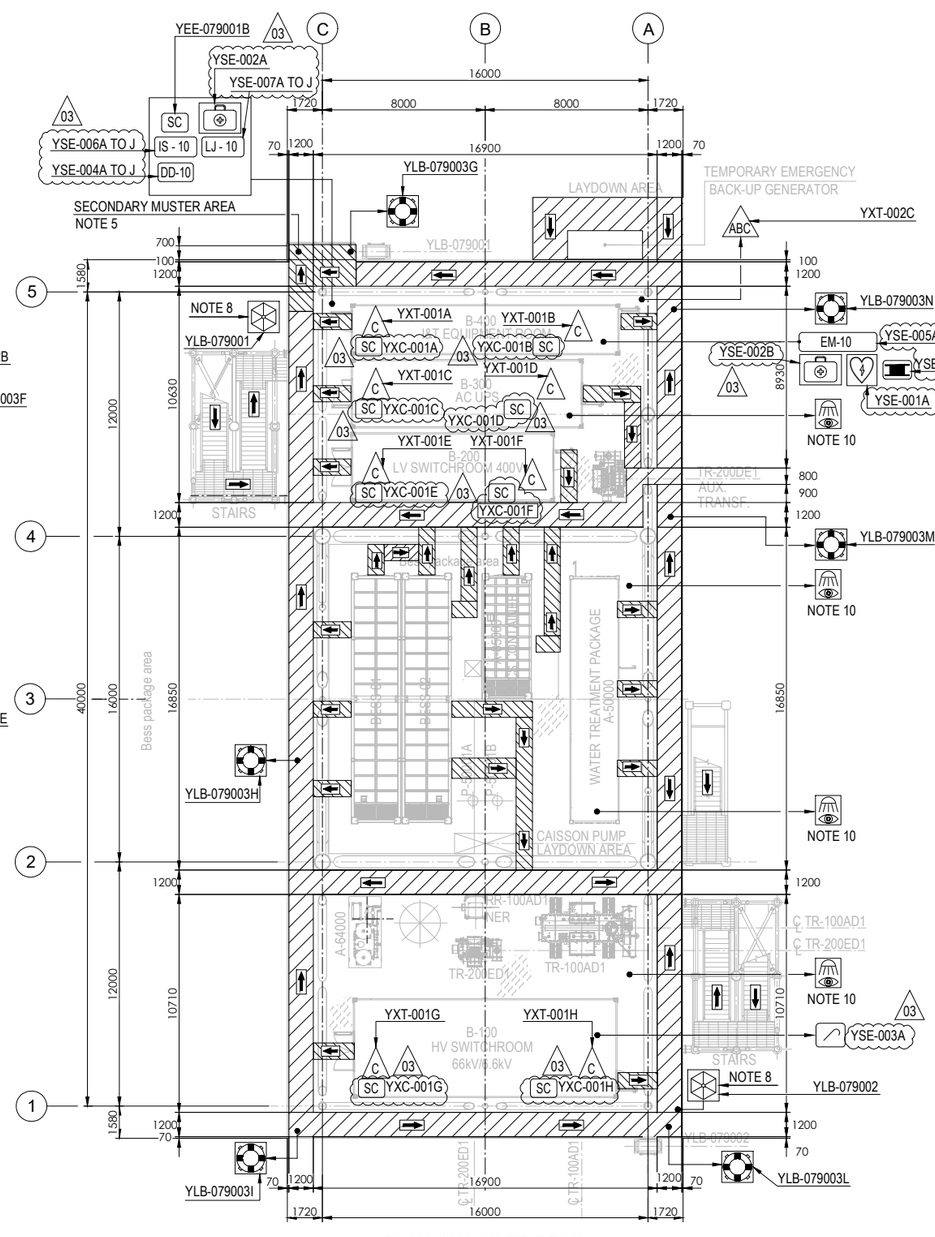
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM CONSTRUCTION	RM (ROSETTI MARINO)	
Name	Gianluca De Maglie	Giovanni Tangianu	
Date	2025-04-24	2025-05-07	
Signature	PROVERLIS Digitaly signed by Gianluca De Maglie 2025-04-24T06:50:35.918Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-07T12:53:33.420Z	

DRAWING NO. 123A90-DDL-SAF-DL-30025

REV. 03

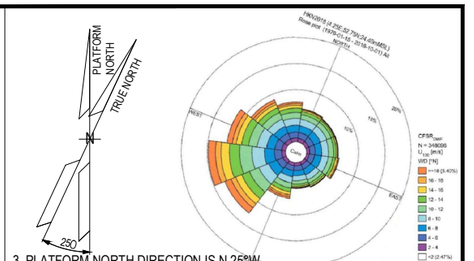


PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

SYMBOL	DESCRIPTION	QTY.	SYMBOL	DESCRIPTION	QTY.
	LIFE BUOY(FITTED WITH LIGHT, SMOKE SIGNAL & LIFELINE)	13	EM	ESCAPE MASK NOTE 13	4
	EYE WASH STATION (BOTTLES)	4	IS-XX	IMMERSION SUITS (INSIDE CABINET)	10
	RESUSCITATION UNIT	1	LJ-XX	LIFE JACKET (INSIDE CABINET)	20
	FIRST AID KIT	3		LIFERAFTS	2
	ELECTRIC SAFETY KIT	1	ABC 9 kg	POWDER PORTABLE EXTINGUISHER	3
C	PORTABLE EXTINGUISHER (CO2)	8	SC	SAFETY CABINET	2
DD	DESCENT DEVICE	20		EVACUATION STRETCHER (TO BE LOCATED IN ITER)	1



3. PLATFORM NORTH DIRECTION IS N 25°W.

NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PRIMARY ESCAPE ROUTES SHALL BE MINIMUM 1.2m WIDTH AND 2.3m HEIGHT.
4. SECONDARY ESCAPE ROUTES SHALL BE MINIMUM 0.8m WIDTH AND 2.3m HEIGHT.
5. SECONDARY MUSTER AREA SHALL BE SIZED IN ORDER TO PROVIDE SUFFICIENT SPACE FOR THE MAXIMUM POB OF 10 ON THE PLATFORM, CONSIDERING AS MINIMUM 0.8 m^2 PER PERSON.
6. THE EVACUATION PHILOSOPHY IS AS FOLLOW:
   - PRIMARY MEANS OF EVACUATION - VIA PRIMARY MUSTER AREA,LOCATED AT PLATFORM ON TRANSITION PIECE THEN TO CREW TRANSFER VESSEL.
   - SECONADRY MEANS OF EVACUATION - VIA SECONDARY MUSTER AREA, LOCATED AT THE NORTH-EAST CORNER OF THE LOWER DECK, THEN TO LIFERAFTS.
7. ESCAPE MASKS, ELECTRICAL SAFETY KIT, RESUSCITATION UNIT, IMMERSION SUITS, LIFE JACKET AND FIRST AID KID TO BE LOCATED IN WEATHERPROOF CABINETS, AT STRATEGIC POSITIONS.
8. EACH LIFERAFT TO BE SIZED FOR MAXIMUM POB OF 10 PERSONS.
9. 2 NOS. OF PORTABLE CO2 EXTINGUISHERS TO BE LOCATED IN EACH ROOM (ITER, HV & LV ROOMS AND UPS ROOM).
10. EYEWASH BOTTLES TO BE PORTABLE AND CARRIED BY OPERATORS ONLY DURING MAINTENACE PERIOD.
11. ALL PORTABLE EXTINGUISHERS LOCATED IN OPEN AREA WILL BE EQUIPPED WITH A WEATHERPROOF CABINET.
12. LIFE RAFT ACCESS WILL BE GUARANTED BY MEANS OF DESCENT DEVICE.
13. QUANTITY OF ESCAPE MASK WAS ASSESSED AGAINST THE NUMBER OF EXPECTED RESCUE TEAM (2/3 OPERATORS) THAT COULD NEED TO RESCUE SOMEONE REMAINED TRAPPED INSIDE ANY CONTAINER WHEN A FIRE EMERGENCY SCENARIO IS ONGOING.

LEGEND

PRIMARY ESCAPE ROUTE

SECONDARY ESCAPE ROUTE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	28/02/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	01/10/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	31/01/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
ESCAPE ROUTES, FIRE FIGHTING, LIFE SAVING EQUIPMENT AND SAFETY EQUIPMENT LAYOUTS DRAWING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 28/02/25
A1	DRAWING NO. 123A90-DDL-SAF-DL-30026	SHEET 001	REV. 03

File Name : 123A90-DDL-SAF-DL-30026 REV.03

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

LIFEBUOY

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/14/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 01

SHEET 001

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES

1. Marking: LIFEBUOY
2. Colour: Green RAL6002
3. Tag number:

YLB-079003A
YLB-079003B
YLB-079003C
YLB-079003D
YLB-079003E
YLB-079003F
YLB-079003G
YLB-079003H
YLB-079003I
YLB-079003N
YLB-079003M
YLB-079003L
YLB-079003O

Dräger

CROSSWIND ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING

LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

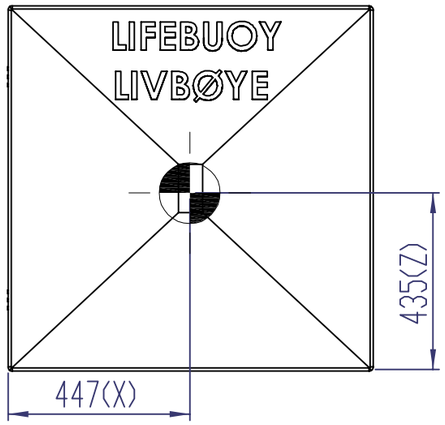
SCALE : NTS

	DRAWING NO.	SHEET	REV.
A3	01	002	04

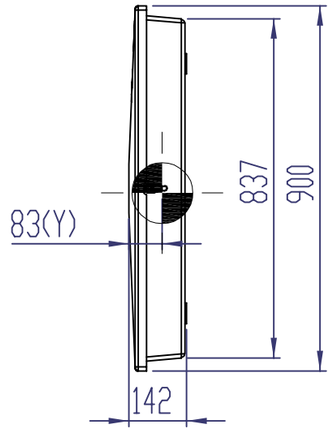
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

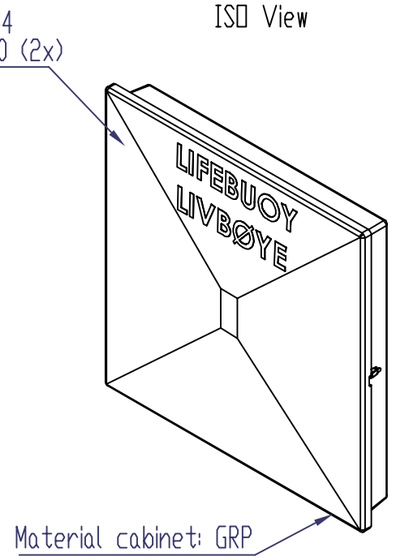
FRONT VIEW



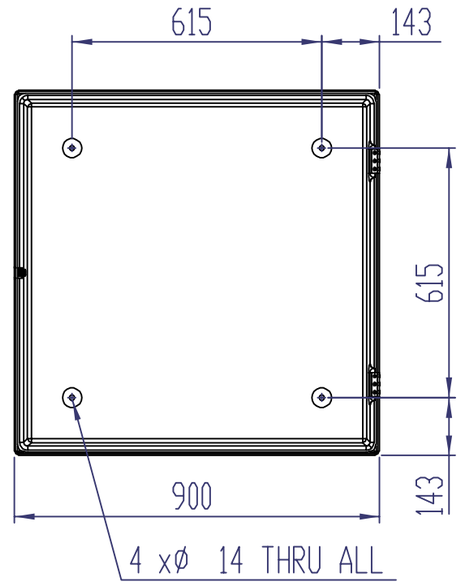
SIDE VIEW



ISO View

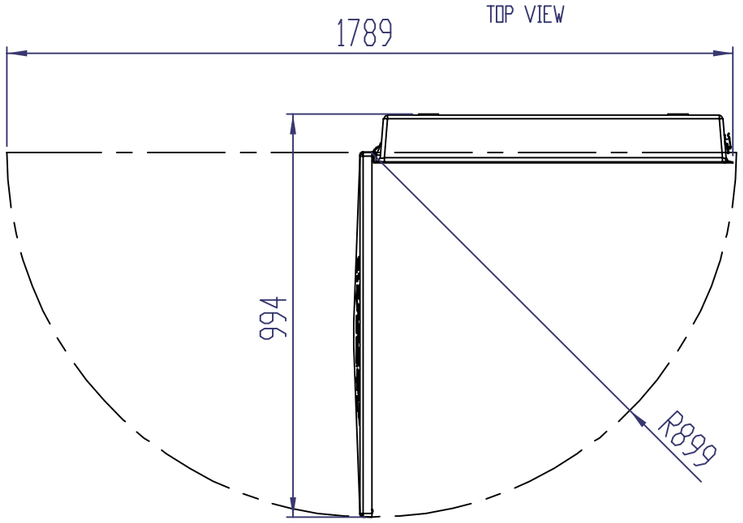


MOUNTING VIEW



Wall mount bolt pattern

TOP VIEW



Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-447 / Y-83 / Z-435 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING

LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 01

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

4 LIFEBUOY

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

survitec

PERRYBUOY LIFEBUOY

4 and 2.5KG solution



Lifebuoy marking is mandatory for ships, with options to label them with the vessel's name and port of registry using 2" self-adhesive black letters or a transfer. The Perrybuoy, fitted with MED approved high-intensity retro reflective tape and a 10mm high-density polyethylene grabline, ensures visibility and durability even in harsh conditions.

BENEFITS:

- ✓ The 30-inch, 4 kg, and 2.5 kg Orange Perrybuoys are MED approved
- ✓ The 4 kg Orange Perrybuoy meets the weight requirement to deploy the Man Overboard smoke and light unit from its bracket on the bridge wing of a vessel
- ✓ The 30-inch, 4 kg Orange Perrybuoy is suitable for use at sea or on land
- ✓ The 30-inch, 2.5 kg Orange Perrybuoy is suitable for use in any area of the ship except the bridge wing, and for land-based applications



"Durable grabline solution even for the most hazardous marine environments"

TRUSTED TO
PROTECT LIVES

PERRYBUOY LIFEBUOY

TECHNICAL DATA

PERRYBUOY LIFEBUOY	
Maximum Installation Height	60m
Outer Diameter	751 mm +/-2%
Inner Diameter	450 mm +/-2%
Reflective Tape	Yes
Elliptical Section	Major Axis 150 +/- 7 mm Minor Axis 99 +/- 7 mm

APPROVALS & ACCREDITATIONS

✓ Approved in compliance with MED

ORDERING INFORMATION

Code	Product Name
751017	30” inch 2.5 kg Perrybuoy
751027	30” inch 4 kg Perrybuoy

ACCESSORIES

Code	Product Name
FLL170C	L170 Lifebuoy Light SOLAS/MED/USCG App
908006	Crewsaver Hamble Horseshoe Buoy Set
902917	Galvanised Y Bracket
7000770	Perryline 30m 8mm Line SOLAS for Vessel Use
606208	Floating Lifeline 30m
900790	Man Overboard MK9 PW

survitec
SURVIVAL TECHNOLOGY

GET IN TOUCH
Email info@survitecgroup.com
Survitec House, Lederle Lane, Gosport, Hampshire, United Kingdom, PO13 0FZ
www.survitecgroup.com

© Copyright Survitec Group 2022

Comet

WESCOM
Signal & Rescue



Light and Smoke Signal

Art No. 9181600

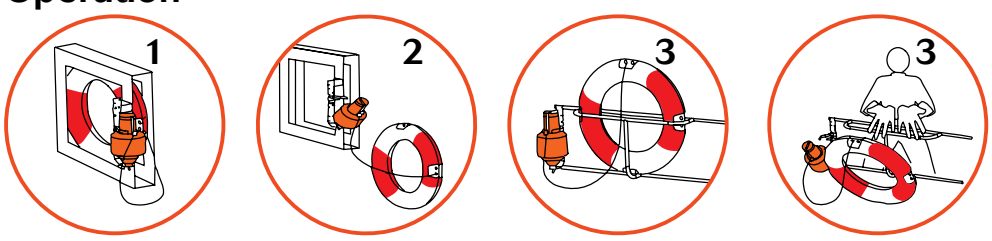
The Light and Smoke Lifebuoy Marker produces dense orange smoke for 15 minutes and features two self contained, inversion switched, LED lights which far exceed SOLAS requirements for output and duration.
Ships are required to carry 2 markers, one mounted on each bridge wing with the brackets supplied and attached by line to a 4kg Lifebuoy. The signal is used to mark the position of a man overboard by day or night. It can be automatically deployed by releasing the attached lifebuoy, or manually activated.

The Comet Smoke Signal Art. No 9181700 is identical, except that it does not feature the lighting system, so is an orange smoke daytime marker only.

Application

- Day and night signal attached to 4kg lifebuoy and used in an emergency to mark the position of man overboard.
- Provides 15 minutes of dense orange smoke.
- Far exceeds SOLAS requirements of 2 hours at 2 candela for light output and duration.
- Safe to use on petrol or oil covered water.
- Lithium batteries sealed for life - no annual replacement.
- Screw fit, inversion switched, LED light units.
- Automatic or manual deployment.
- Universal stainless steel mounting bracket. Usually mounted on a ships bridge wing
- Approved mounting height: 56m - but manufacturer tested to survive 100m drop into water. (SOLAS only requires 30m).
- Ideal for use on ships or rigs with high freeboard.

Operation



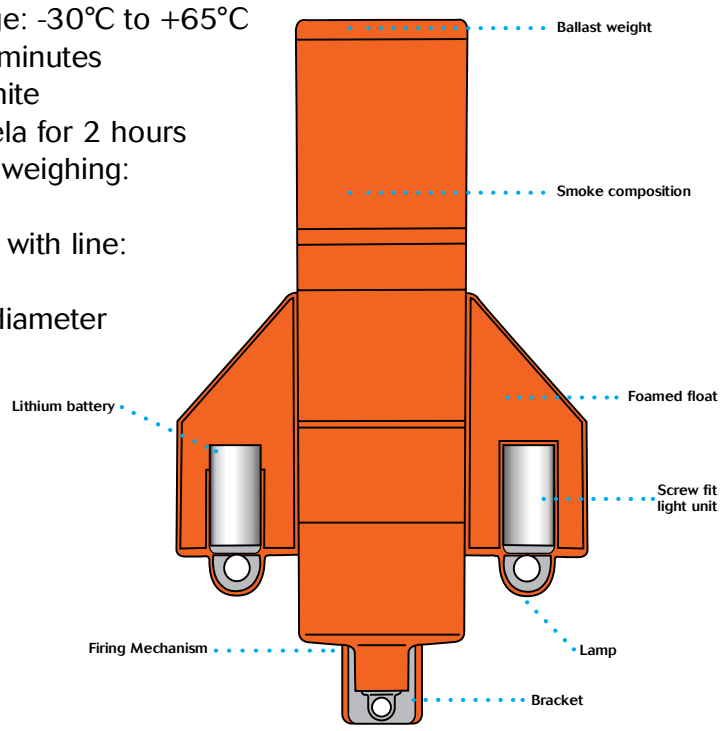
1. Signal and Lifebuoy mounted on bridge wing in ready to fire position.
2. Release locking pin and lifebuoy falls, automatically deploying marker.
3. Alternatively, manually throw lifebuoy overboard.

Packing & Transport Information

- 2 x signals in 1 fibreboard box
- Max. Gross Weight: 9.5 kg (20.94 lb.) per box
- Max. Net Weight: 7.7 kg (17 lb.)
- Measurements of fibreboard box: 36 x 27 x 40 cm (14.2 x 10.6 x 15.8 in)
- Max. Net Explosive Content per box: 2.574kg (5.67 lb.)
- Hazard class 1.4S UN 0507
- Proper shipping name: Signals, Smoke
- Other information: Passenger and cargo aircraft

Specifications

- Height: 375mm (14.76 in)
- Diameter: 183mm (7.20 in)
- Weight: 3.3kg (7.27 lb.)
- Weight – including bracket and angles: 3.85kg (8.5 lb.)
- Net Explosive Content: 1.287kg (2.84 lb.)
- Lamps (bulbs): 2 x 3.6v 2.0A
- Temperature range: -30°C to +65°C
- Burning time: 15 minutes
- Colour of light: white
- Duration: 2 candela for 2 hours
- Use with lifebuoy weighing: 4.0kg (8.82 lb.)
- Attach to lifebuoy with line: 4m (13ft) long, 9.5mm (0.37 in) diameter



Storage

This compact unit is ideally stored in good magazine conditions in an upright position, mounted to its stainless steel bracket in our original packaging. Onboard vessel: Two units are normally required to be carried. Mounted inverted and attached to a Lifebuoy. Usually positioned on each bridge wing and need a clear, uninterrupted drop into the water.

Approvals

Conforms to SOLAS 74 as amended. IMO Resolution MSC 81 (70) part 1. MED: Light & Smoke Signal - BGV 422.012, Smoke Signal - BGV 422.011. BAM-P1-0596, 0589-P1-0619.



WARNING

- Produces dense orange smoke - do not inhale.
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date

DISPOSAL

- Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations. For help and advice, visit our website **www.comet-marine.com**

Throwing line 30 mtr with quoit

Productcode: 230270

Orange floating throwing line 30mtr with attached floating quoit.



GRP storage cabinet: DMO-131

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.

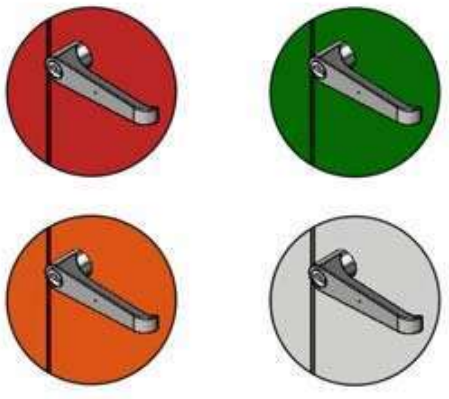


Room to store
- 2.5 kgs or 4.5 kgs lifebuoy
- throwing line
- safety light

Optional
- lettering

TECHNICAL SPECIFICATIONS

Dimensions	125 x 900 x 900 mm (DxWxH)
Aperture dimensions	125 x 900 x 900 mm (DxWxH)
Angle of door opening	100°
Weight	27,5 kgs
Material	GRP
Color	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP55
Door catch	Stainless steel
Door handle	SS 316
Hinges	SS 316
Seal	Neoprene
Reinforcement	Core material
Lettering	White
Approvals	TÜV



GRP storage cabinet: DMO-131
To store lifebuoy

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

	Rev	Item	Required	
1		**GENERAL DATA**		
2		**EQUIPMENT TYPE**	**LIFE BUOY AND CABINET**	
3		**TAG**	Life buoy: YLB-079003 A/B/C/D/E/F/G/H/I/L/M/N/O	
4		**MAIN ITEM**	Lifebuoys	
5		**QUANTITY**	13 water activated light and smoke marker	
6		**STANDARDS**	Chapter 2.1 of the IMO Life-Saving Appliance (LSA) Code	
7		**APPROVAL/CERTIFICATE**	IMO/LSA	
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032	
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26	
10		**OPERATING CONDITIONS**		
11		**LOCATIONS**	Outdoor:, as per ref. Drawings	
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT	
13		**TEMPERATURE**	from -10°C to 30°C	
14				
15		**TECHNICAL DATA**		
16		**MATERIAL**	Plastic	
17		**COLOR**	International Orange	
18		**DIMENSION**	outer diameter <= 800 mm; inner diameter >= 400mm	
19		**WEIGHT**	By Vendor	
20		**SELF-IGNITED LIGHT**	lit by an electric battery and inextinguishable in the water	
21		**BUOYANT LIFELINE**	three times longer than the height above sea level (at LAT level) at which the life buoy is posted	
22		**MARKING**	Name of the installation	
23		**CABINET**		
24		**MATERIAL**	stainless steel or other suitable for marine environment	
25		**SUPPORT**	handrail mounting	
26		**PAINTING**	According to 123A90-DDL-MAT-SP-60006	
27		**DIMENSION**	By Vendor	
28		**WEIGHT**	By Vendor	
29		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English	

ITEM	Tag	Survival_Equipment_LD	: Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Upper Deck			Dwg	123A90-DDL-SAF-DL-30026
	S/Sys	76-50	: Personal Protection			Module	LD
TASK	code	C10004492	Location	Onshore Activities		User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Safety	Form	CYX09 Survival Equipment

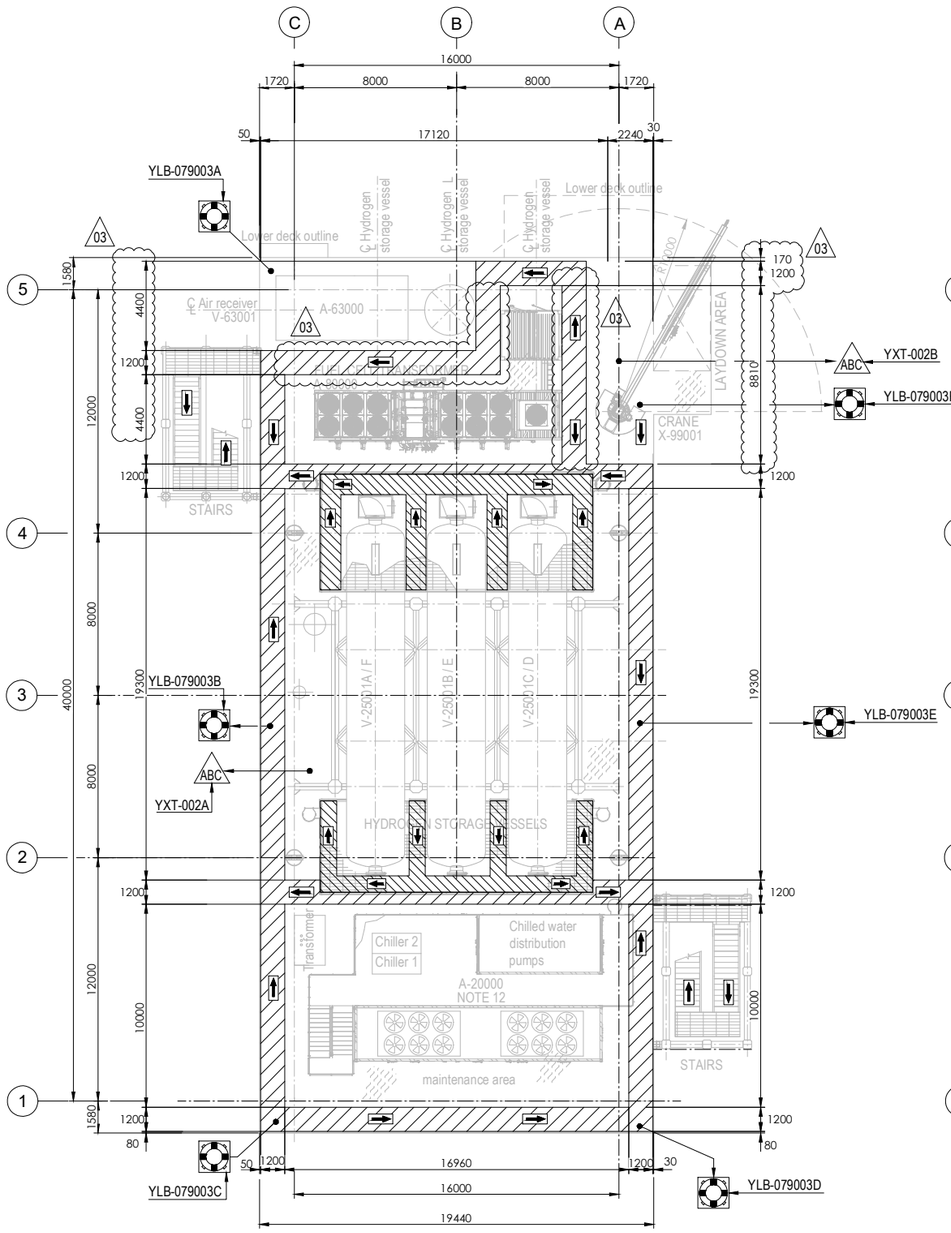
1	Check that the equipment certification is complete and that the nameplate data is correct.	OK
2	Check that the equipment "Tag Number" is correct.	OK
3	Check that the location is correct.	OK
4	Check that the mounting arrangements are correct.	OK
	THE FOLLOWING EQUIPMENT SHALL BE CHECKED IN ACCORDANCE WITH MARKED UP LAYOUT DRAWING	
5	Lifebuoys.	Note
6	Smoke and Light units (for man overboard).	Note
7	Lifejackets.	Note
8	Survival suits.	Note
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments: NOTE: all equipment will be installed in offshore phase.

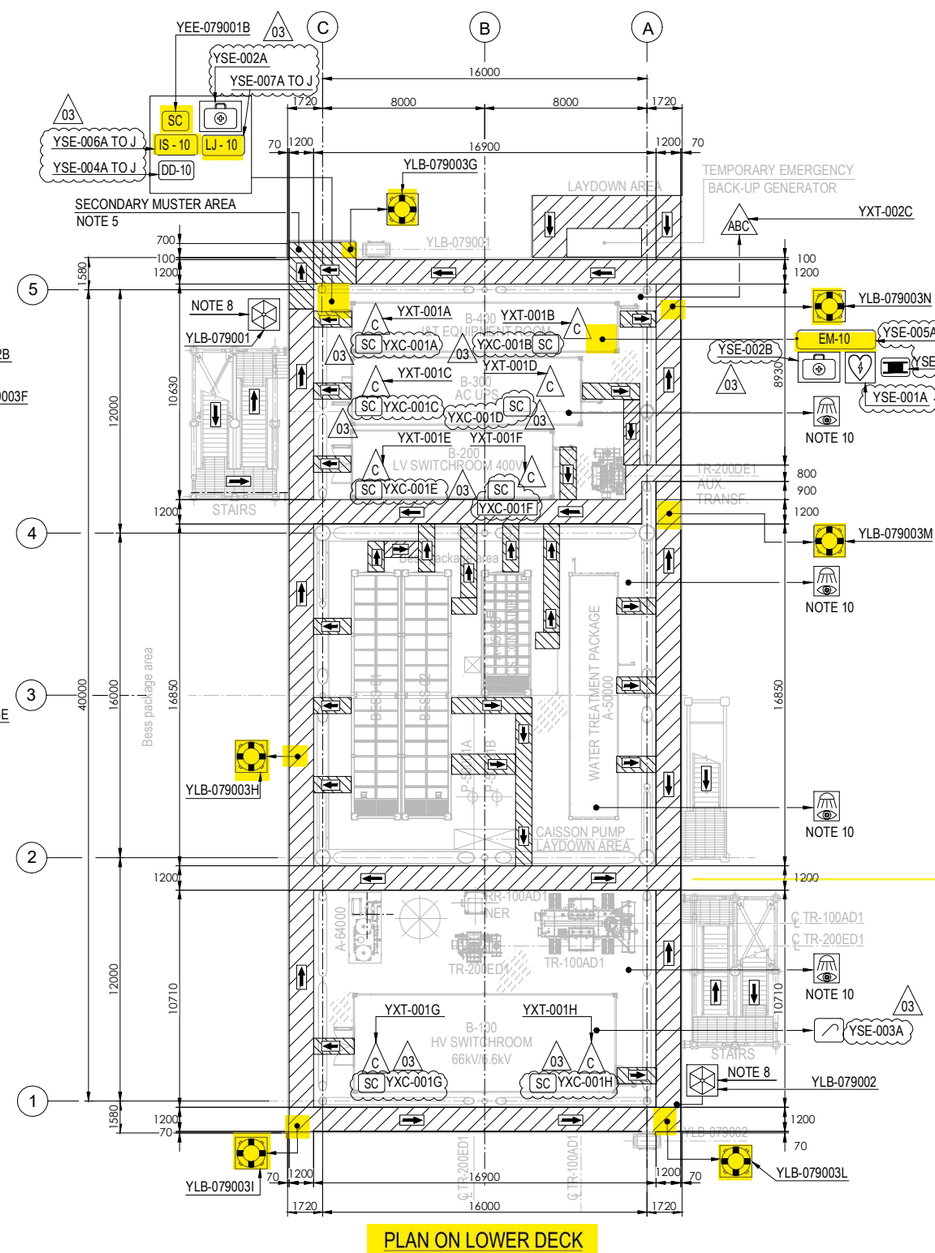
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM CONSTRUCTION	RM (ROSETTI MARINO)	
Name	Gianluca De Maglie	Giovanni Tangianu	
Date	2025-04-24	2025-05-07	
Signature	PROVERLIS Digitaly signed by Gianluca De Maglie 2025-04-24T06:50:59.244Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-07T12:54:09.407Z	

DRAWING NO. 123A90-DDL-SAF-DL-30025

REV. 03

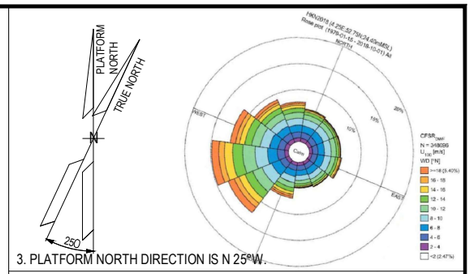


PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

SYMBOL	DESCRIPTION	QTY.	SYMBOL	DESCRIPTION	QTY.
	LIFE BUOY(FITTED WITH LIGHT, SMOKE SIGNAL & LIFELINE)	13	EM	ESCAPE MASK NOTE 13	4
	EYE WASH STATION (BOTTLES)	4	IS-XX	IMMERSION SUITS (INSIDE CABINET)	10
	RESUSCITATION UNIT	1	LJ-XX	LIFE JACKET (INSIDE CABINET)	20
	FIRST AID KIT	3		LIFERAFTS	2
	ELECTRIC SAFETY KIT	1	ABC 9 kg	POWDER PORTABLE EXTINGUISHER	3
C	PORTABLE EXTINGUISHER (CO2)	8	SC	SAFETY CABINET	2
DD	DESCENT DEVICE	20		EVACUATION STRETCHER (TO BE LOCATED IN ITER)	1



3. PLATFORM NORTH DIRECTION IS N 25°W.

NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PRIMARY ESCAPE ROUTES SHALL BE MINIMUM 1.2m WIDTH AND 2.3m HEIGHT.
4. SECONDARY ESCAPE ROUTES SHALL BE MINIMUM 0.8m WIDTH AND 2.3m HEIGHT.
5. SECONDARY MUSTER AREA SHALL BE SIZED IN ORDER TO PROVIDE SUFFICIENT SPACE FOR THE MAXIMUM POB OF 10 ON THE PLATFORM, CONSIDERING AS MINIMUM 0.8 m^2 PER PERSON.
6. THE EVACUATION PHILOSOPHY IS AS FOLLOW:
   - PRIMARY MEANS OF EVACUATION - VIA PRIMARY MUSTER AREA,LOCATED AT PLATFORM ON TRANSITION PIECE THEN TO CREW TRANSFER VESSEL.
   - SECONDARY MEANS OF EVACUATION - VIA SECONDARY MUSTER AREA, LOCATED AT THE NORTH-EAST CORNER OF THE LOWER DECK, THEN TO LIFERAFTS.
7. ESCAPE MASKS, ELECTRICAL SAFETY KIT, RESUSCITATION UNIT, IMMERSION SUITS, LIFE JACKET AND FIRST AID KID TO BE LOCATED IN WEATHERPROOF CABINETS, AT STRATEGIC POSITIONS.
8. EACH LIFERAFT TO BE SIZED FOR MAXIMUM POB OF 10 PERSONS.
9. 2 NOS. OF PORTABLE CO2 EXTINGUISHERS TO BE LOCATED IN EACH ROOM (ITER, HV & LV ROOMS AND UPS ROOM).
10. EYEWASH BOTTLES TO BE PORTABLE AND CARRIED BY OPERATORS ONLY DURING MAINTENACE PERIOD.
11. ALL PORTABLE EXTINGUISHERS LOCATED IN OPEN AREA WILL BE EQUIPPED WITH A WEATHERPROOF CABINET.
12. LIFE RAFT ACCESS WILL BE GUARANTED BY MEANS OF DESCENT DEVICE.
13. QUANTITY OF ESCAPE MASK WAS ASSESSED AGAINST THE NUMBER OF EXPECTED RESCUE TEAM (2/3 OPERATORS) THAT COULD NEED TO RESCUE SOMEONE REMAINED TRAPPED INSIDE ANY CONTAINER WHEN A FIRE EMERGENCY SCENARIO IS ONGOING.

LEGEND

PRIMARY ESCAPE ROUTE

SECONDARY ESCAPE ROUTE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	28/02/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	01/10/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	31/01/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
ESCAPE ROUTES, FIRE FIGHTING, LIFE SAVING EQUIPMENT AND SAFETY EQUIPMENT LAYOUTS DRAWING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 28/02/25
A1	DRAWING NO. 123A90-DDL-SAF-DL-30026	SHEET 001	REV. 03

File Name : 123A90-DDL-SAF-DL-30026 REV.03

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

LIFEBUOY

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/14/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 01

SHEET 001

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES

1. Marking: LIFEBUOY
2. Colour: Green RAL6002
3. Tag number:

YLB-079003A
YLB-079003B
YLB-079003C
YLB-079003D
YLB-079003E
YLB-079003F
YLB-079003G
YLB-079003H
YLB-079003I
YLB-079003N
YLB-079003M
YLB-079003L
YLB-079003O

Dräger

CROSSWIND ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING

LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

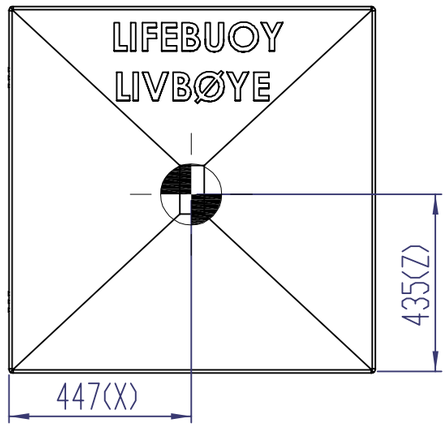
SCALE : NTS

A3	DRAWING NO. 01	SHEET 002	REV. 04

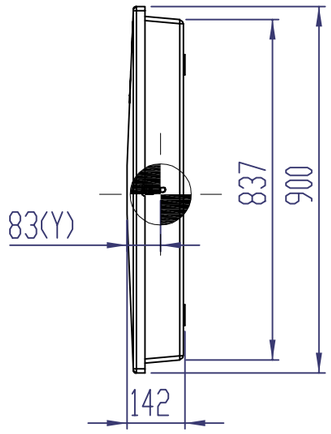
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

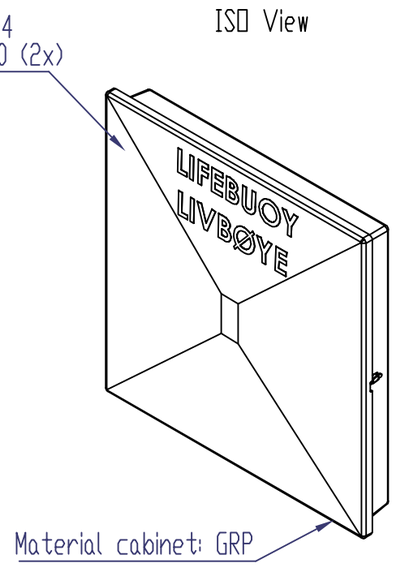
FRONT VIEW



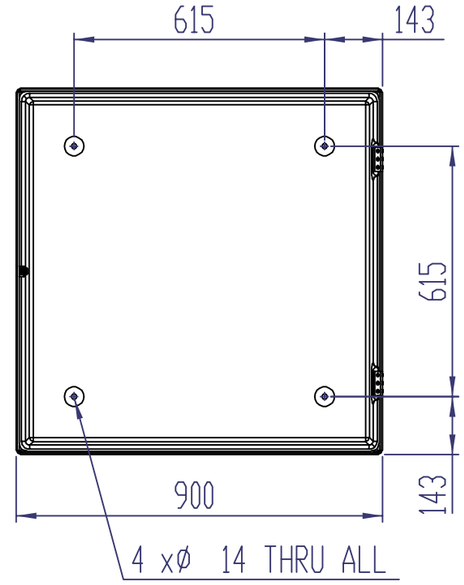
SIDE VIEW



ISO View

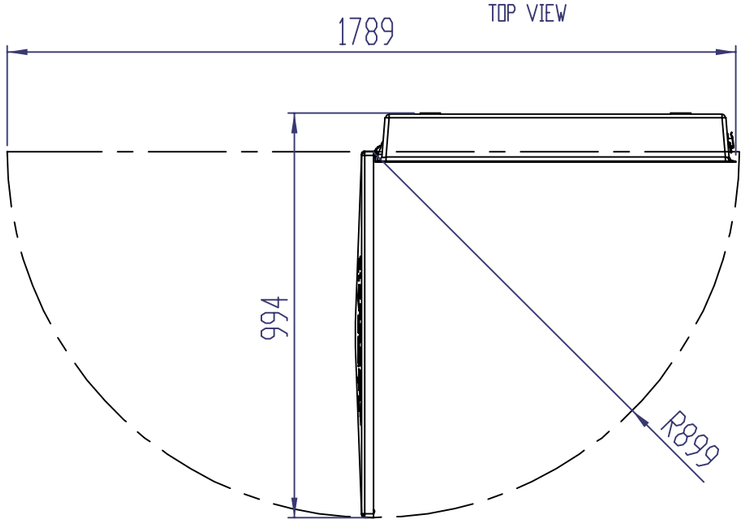


MOUNTING VIEW



Wall mount bolt pattern

TOP VIEW



Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-447 / Y-83 / Z-435 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 01

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

LIFE SAVING EQUIPMENT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 03

SHEET 001

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES:

1. Marking: LIFE SAVING EQUIPMENT
2. Colour: RED RAL3000
3. Tag number: YEE-079001 B

Dräger

CROSSWIND ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 03

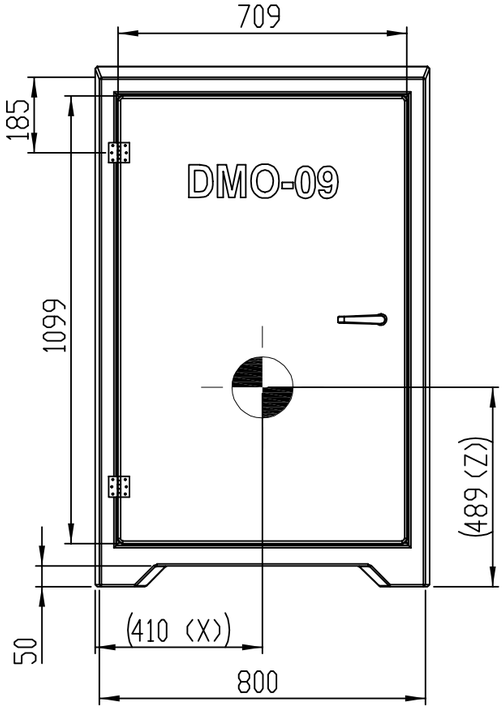
SHEET 002

REV. 04

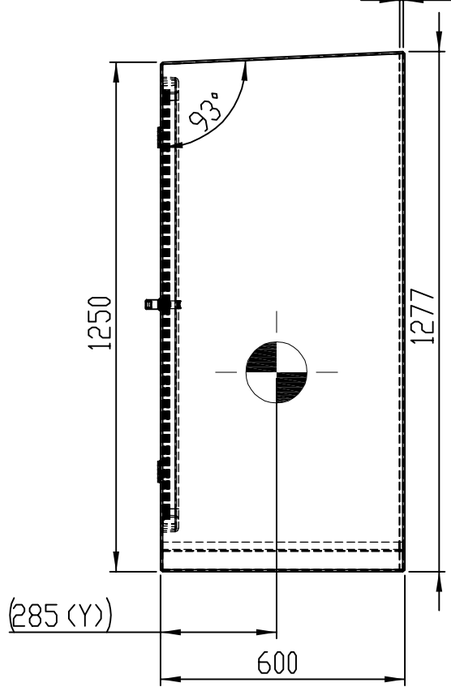
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

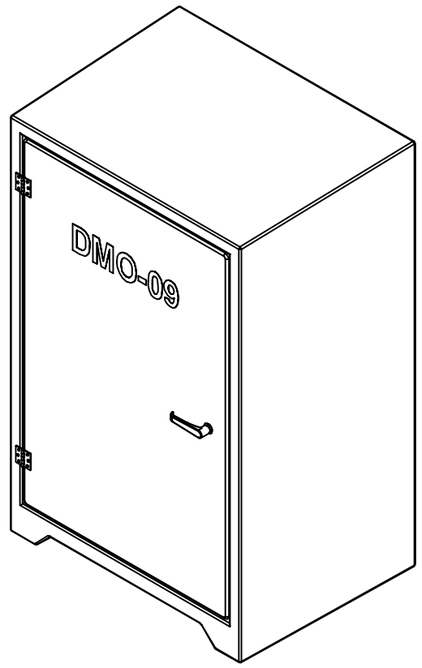
Front View



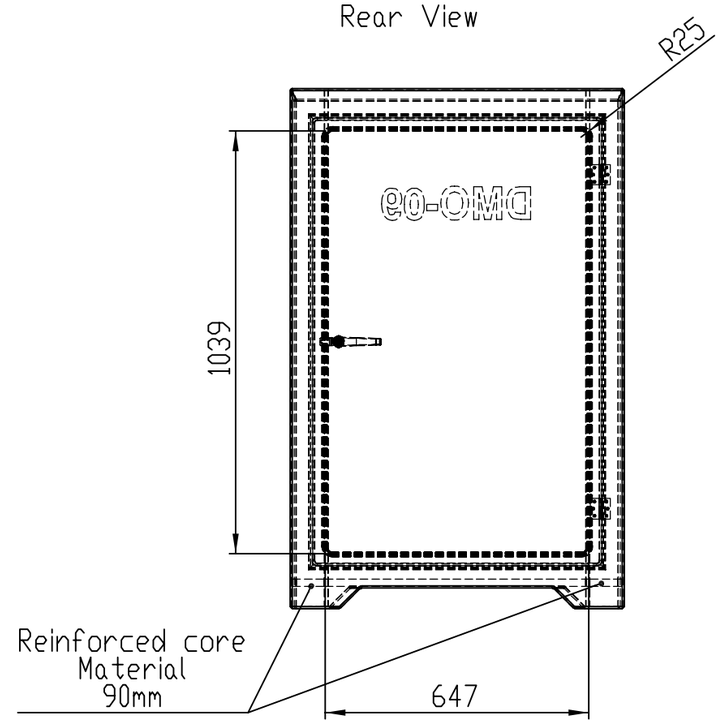
Side View

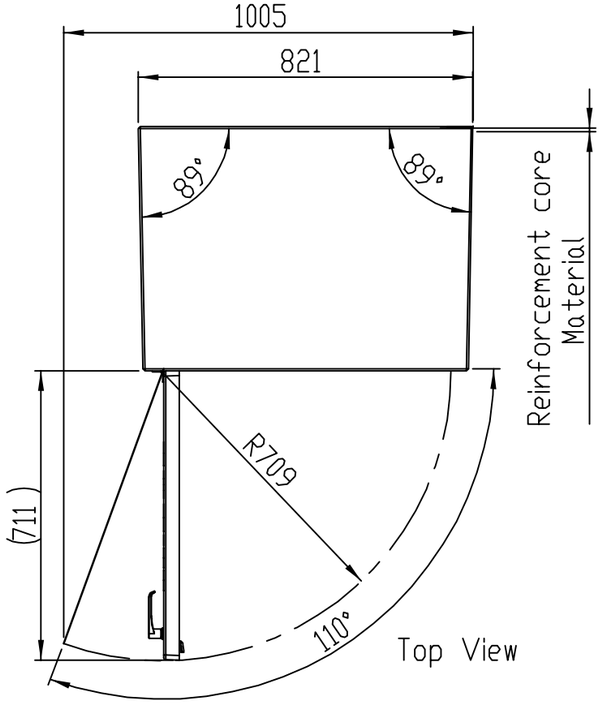


ISO View

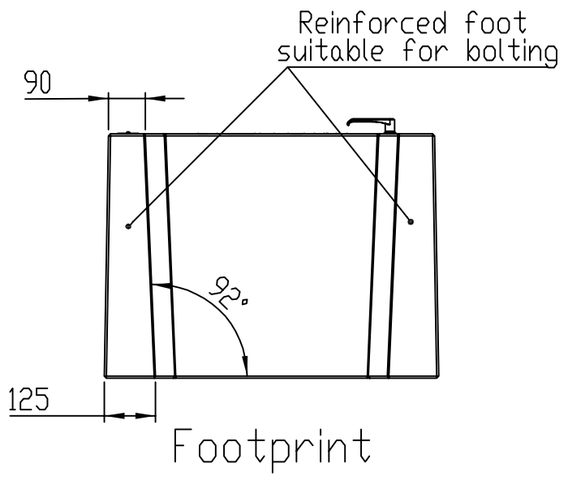


Rear View





Top View



Footprint

Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-410 / Y-285 / Z-489 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND

ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 03

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-000003

F.to UNI A3: 420mmx297mm

4 LIFEBUOY

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

survitec

PERRYBUOY LIFEBUOY

4 and 2.5KG solution



Lifebuoy marking is mandatory for ships, with options to label them with the vessel's name and port of registry using 2" self-adhesive black letters or a transfer. The Perrybuoy, fitted with MED approved high-intensity retro reflective tape and a 10mm high-density polyethylene grabline, ensures visibility and durability even in harsh conditions.

BENEFITS:

- ✓ The 30-inch, 4 kg, and 2.5 kg Orange Perrybuoys are MED approved
- ✓ The 4 kg Orange Perrybuoy meets the weight requirement to deploy the Man Overboard smoke and light unit from its bracket on the bridge wing of a vessel
- ✓ The 30-inch, 4 kg Orange Perrybuoy is suitable for use at sea or on land
- ✓ The 30-inch, 2.5 kg Orange Perrybuoy is suitable for use in any area of the ship except the bridge wing, and for land-based applications



"Durable grabline solution even for the most hazardous marine environments"

TRUSTED TO
PROTECT LIVES

PERRYBUOY LIFEBUOY

TECHNICAL DATA

PERRYBUOY LIFEBUOY	
Maximum Installation Height	60m
Outer Diameter	751 mm +/-2%
Inner Diameter	450 mm +/-2%
Reflective Tape	Yes
Elliptical Section	Major Axis 150 +/- 7 mm Minor Axis 99 +/- 7 mm

APPROVALS & ACCREDITATIONS

✓ Approved in compliance with MED

ORDERING INFORMATION

Code	Product Name
751017	30” inch 2.5 kg Perrybuoy
751027	30” inch 4 kg Perrybuoy

ACCESSORIES

Code	Product Name
FLL170C	L170 Lifebuoy Light SOLAS/MED/USCG App
908006	Crewsaver Hamble Horseshoe Buoy Set
902917	Galvanised Y Bracket
7000770	Perryline 30m 8mm Line SOLAS for Vessel Use
606208	Floating Lifeline 30m
900790	Man Overboard MK9 PW

survitec
SURVIVAL TECHNOLOGY

GET IN TOUCH
Email info@survitecgroup.com
Survitec House, Lederle Lane, Gosport, Hampshire, United Kingdom, PO13 0FZ
www.survitecgroup.com

© Copyright Survitec Group 2022

Comet

WESCOM
Signal & Rescue



Light and Smoke Signal

Art No. 9181600

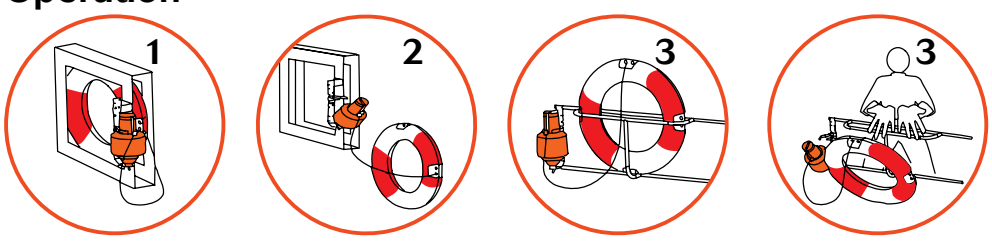
The Light and Smoke Lifebuoy Marker produces dense orange smoke for 15 minutes and features two self contained, inversion switched, LED lights which far exceed SOLAS requirements for output and duration.
Ships are required to carry 2 markers, one mounted on each bridge wing with the brackets supplied and attached by line to a 4kg Lifebuoy. The signal is used to mark the position of a man overboard by day or night. It can be automatically deployed by releasing the attached lifebuoy, or manually activated.

The Comet Smoke Signal Art. No 9181700 is identical, except that it does not feature the lighting system, so is an orange smoke daytime marker only.

Application

- Day and night signal attached to 4kg lifebuoy and used in an emergency to mark the position of man overboard.
- Provides 15 minutes of dense orange smoke.
- Far exceeds SOLAS requirements of 2 hours at 2 candela for light output and duration.
- Safe to use on petrol or oil covered water.
- Lithium batteries sealed for life - no annual replacement.
- Screw fit, inversion switched, LED light units.
- Automatic or manual deployment.
- Universal stainless steel mounting bracket. Usually mounted on a ships bridge wing
- Approved mounting height: 56m - but manufacturer tested to survive 100m drop into water. (SOLAS only requires 30m).
- Ideal for use on ships or rigs with high freeboard.

Operation



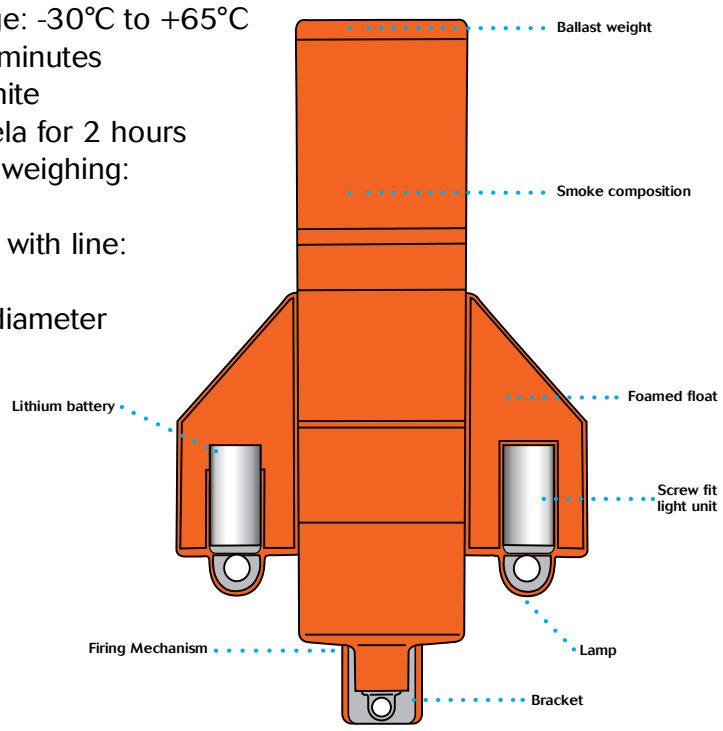
1. Signal and Lifebuoy mounted on bridge wing in ready to fire position.
2. Release locking pin and lifebuoy falls, automatically deploying marker.
3. Alternatively, manually throw lifebuoy overboard.

Packing & Transport Information

- 2 x signals in 1 fibreboard box
- Max. Gross Weight: 9.5 kg (20.94 lb.) per box
- Max. Net Weight: 7.7 kg (17 lb.)
- Measurements of fibreboard box: 36 x 27 x 40 cm (14.2 x 10.6 x 15.8 in)
- Max. Net Explosive Content per box: 2.574kg (5.67 lb.)
- Hazard class 1.4S UN 0507
- Proper shipping name: Signals, Smoke
- Other information: Passenger and cargo aircraft

Specifications

- Height: 375mm (14.76 in)
- Diameter: 183mm (7.20 in)
- Weight: 3.3kg (7.27 lb.)
- Weight – including bracket and angles: 3.85kg (8.5 lb.)
- Net Explosive Content: 1.287kg (2.84 lb.)
- Lamps (bulbs): 2 x 3.6v 2.0A
- Temperature range: -30°C to +65°C
- Burning time: 15 minutes
- Colour of light: white
- Duration: 2 candela for 2 hours
- Use with lifebuoy weighing: 4.0kg (8.82 lb.)
- Attach to lifebuoy with line: 4m (13ft) long, 9.5mm (0.37 in) diameter



Storage

This compact unit is ideally stored in good magazine conditions in an upright position, mounted to its stainless steel bracket in our original packaging. Onboard vessel: Two units are normally required to be carried. Mounted inverted and attached to a Lifebuoy. Usually positioned on each bridge wing and need a clear, uninterrupted drop into the water.

Approvals

Conforms to SOLAS 74 as amended. IMO Resolution MSC 81 (70) part 1. MED: Light & Smoke Signal - BGV 422.012, Smoke Signal - BGV 422.011. BAM-P1-0596, 0589-P1-0619.



WARNING

- Produces dense orange smoke - do not inhale.
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date

DISPOSAL

- Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations. For help and advice, visit our website **www.comet-marine.com**

Throwing line 30 mtr with quoit

Productcode: 230270

Orange floating throwing line 30mtr with attached floating quoit.



GRP storage cabinet: DMO-131

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.

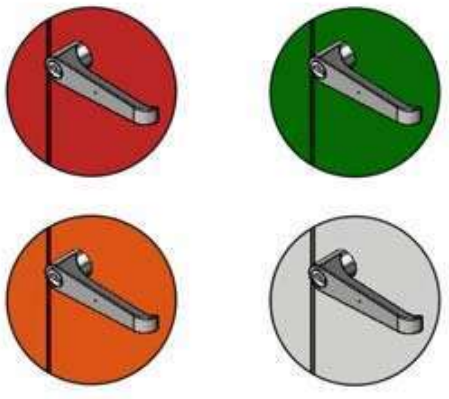


Room to store
- 2.5 kgs or 4.5 kgs lifebuoy
- throwing line
- safety light

Optional
- lettering

TECHNICAL SPECIFICATIONS

Dimensions	125 x 900 x 900 mm (DxWxH)
Aperture dimensions	125 x 900 x 900 mm (DxWxH)
Angle of door opening	100°
Weight	27,5 kgs
Material	GRP
Color	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP55
Door catch	Stainless steel
Door handle	SS 316
Hinges	SS 316
Seal	Neoprene
Reinforcement	Core material
Lettering	White
Approvals	TÜV



GRP storage cabinet: DMO-131
To store lifebuoy

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

6 SAFETY CABINET 1

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-05

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



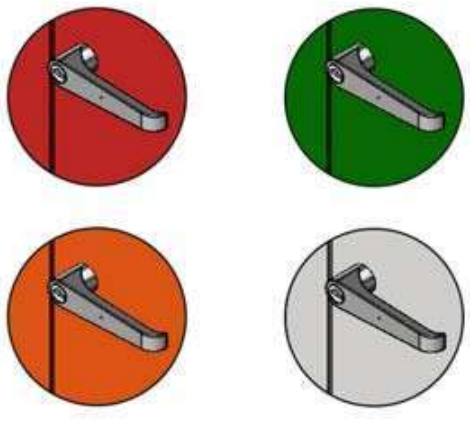
Features

Room to store
- Fireman's equipment (2 complete sets incl. SCBA)
- Fireman's clothing (4 sets)
- Survival suits (up to 20 pcs depending on size)
- Life jackets (up to 35 pcs depending on type)
- Emergency response team equipment
- Helideck crash equipment (incl. ladder & grab hook)

Options
- Shelves / bulkhead / clothing bar
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lighting (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	1035 x 800 x 2030 (WxDxH)
Aperture dimensions	819 x 800 x 1760 mm (WxDxH)
Angle of door opening	90°
Weight	57,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-05
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

7 SAFETY CABINET 2

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-09

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



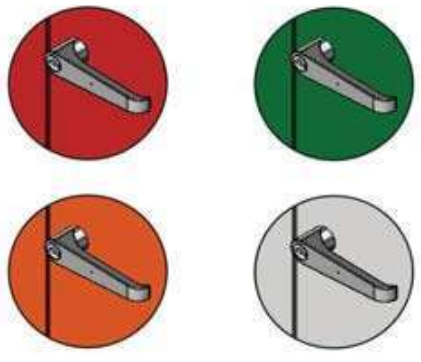
Features

Room to store
- Fire hydrant cabinet (4 hoses / spray nozzles / spanners)
- Survival suits (up to 20 pcs depending on type)
- Lifejackets (up to 30 pcs depending on type)
- Fireman's clothing (4 sets folded)
- SCBA storage (2 sets + spare cylinder)
- Chemical protection equipment
- Electrical safety kit
- Fall protection equipment / descent units (donut type)

Options
- Shelves
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	821 x 600 x 1277 mm (WxDxH)
Aperture dimensions	647 x 600 x 1039 mm (WxDxH)
Angle of door opening	90°
Weight	30 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-09
IP56 rated and Lloyds ertified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

13 ESCAPE MASK

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy



Dräger PARAT® Filtering Escape Hoods
Filtering Escape Device

The PARAT® filtering escape hoods were developed with users, placing the focus on faster escapes. Enhanced operation and wearing comfort, a robust case and a sealed filter help to ensure protection from toxic industrial and/or fire-related gases, vapors and particles for at least 15 minutes.

Dräger

Technology for Life

Dräger PARAT® Filtering Escape Hoods

Clearly visible hood
Hood in signal color for high visibility

Internal head harness
Thanks to the automatically adjusting internal head harness, no additional tightening of the hood is required.

High-performance filter
Filter expiration date is clearly marked; the filter is automatically released from the packaging when opened.

Exhalation valve
Directly leads the exhaled air out of the half mask



D-85039-2013

Overall protection
16 years of total service life (provided the filter is exchanged after 8 years), Hood provides respiratory and eye protection

Clear view
Wide field of vision due to a specially formed visor. Always a clear view thanks to a special anti-fog coating

Good fit
Specially designed half mask fits a wide variety of face sizes

Textile neck seal
Flexible textile neck seal

D-85039-2013-pi-en-us

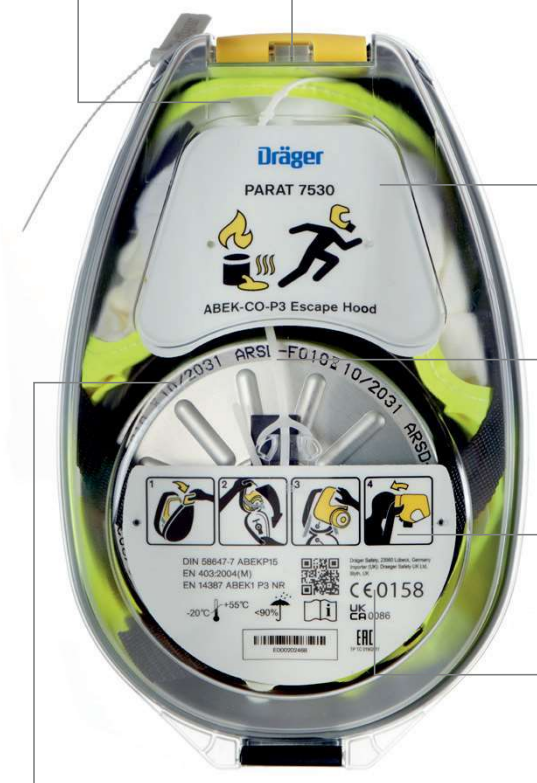
Dräger PARAT® Filtering Escape Hoods

Hard Case

Soft Pack

Dust and splash water protection
According to IP54

Dust protection
According to IP5



Opening flap with security seal
High visibility, arrow indicates opening direction, seal ensures that the packaging has not been opened

Field of application
Pictogram shows field of application and filter type

Filter sealing plug
When opened, the filter plug is automatically released from the filter

Donning instructions
Show steps to don the hood

Approval and application information
In addition, the QR code provides further information on the Dräger website
(PARAT Soft Pack: underneath the protective flap)

Control window
Allows to check the expiration date
(PARAT Soft Pack: underneath the protective flap)



D-5312-2023

D-5338-2023

D-7610-2023

D-7610-2023-pi-en-us

Benefits

Ready for escape in only 3 steps

Exceptionally innovative and intuitive: When opening the soft pack or hard case packaging, the filter plug is automatically released from the filter. The filter is then deployed into operational position and the hood can be immediately donned. Thanks to the self-adjusting internal head harness, no additional adjustment is required. All you have to do is open the packaging, remove and don the hood– and leave the danger zone.

Reliable protection

Choose from fire escape, industrial escape or a combination of fire and industrial escape. The high-performance combination filter reliably protects against a wide range of fire and/or toxic industrial gases, vapors and particles – depending on the version. The filters are approved according to the EN standard 403:2004 for fire escape hoods and/or the DIN standard 58647-7 for industrial filtering escape devices. Additionally, the industrial versions are tested in accordance with NIOSH 42 CFR Part 84 and the EN standard 14387:2004 for gas and combined filters.

To keep the filter safe over its long lifetime, it is tightly sealed with two filter plugs.

16 years of service life

Replacing the filter after eight years will extend the service life of the Dräger PARAT Escape Hood to 16 years in total. For this, Dräger offers filter replacement service or expert training for your employees.

Robust and ergonomic

Both ergonomics and wearing comfort were considered when designing the soft pack and hard case packaging of the Dräger PARAT Escape Hoods. The escape hood can be carried with a belt, shoulder strap, grip clip or belt clip. The PARAT Hard Case can also be mounted on the wall using a wallholder. Additionally, the robust packaging of the Dräger PARAT Escape Hoods protects the device from damage.

Different packaging types

You can select between different packaging types: The hard case provides splash water protection (IP54)– the soft pack provides ingress dust protection (IP5). Both packaging types have a viewing window to check the filter expiration date and the condition of the device. Particularly convenient: The security seal on the packaging shows if the unit has been opened.

Accessories



D-85100-2013

Wallholder PIN for PARAT® Hard Case

Ideal for placing stationary units in a central location. For example in public buildings, where they may be needed in an emergency situation. Or optionally placed in specific locations where they may be required as a safety measure. The Wallholder PIN can be mounted to any Hard Case using the accessory attachment points.



D-21254-2015

Wallholder HOOK for PARAT® Hard Case

Ideal for placing stationary units in a central location. For example in public buildings, where they may be needed in an emergency situation. Or optionally placed in specific locations where they may be required as a safety measure. The unique advantage of the Wallholder HOOK is that when mounted to the Hard Case via a hook system a shoulder harness can be attached to the Hard Case.



ST-14719-2008

Waist Belt (textile)

Ideal for carrying the unit safely secured to the wearer on a daily basis. The textile waist belt is robust and comfortable to wear. The waist belt can be used with both Soft Pack and Hard Case versions.



ST-14720-2008

Waist Belt (plastic)

Ideal for carrying the unit safely secured to the wearer on a daily basis. The flexible plastic-coated waist belt is easy to clean, especially after work in rough environments. The waist belt can be used with both Soft Pack and Hard Case versions.

Accessories



D-1243-2021

Hip Belt (antistatic)

Hip belt with antistatic coating, washable.Belt width: 3.8 cm, belt length: adjustable from 70 to 115 cm. Can be used with PARAT Soft Pack and PARAT Hard Case.



D-7276-2026

PARAT Shoulder Strap

The shoulder strap is perfect for short-term and recurring operations where the device must be quickly taken with the user. The strap can be mounted to accessory attachment points on the Hard Case or the attached loops on the Soft Pack.



D-92815-2013

Belt Clip

The belt clip can be used with any standard belt. Ideal for short term applications like inspection or maintenance where the unit is often attached to and removed from the belt. Can be mounted on the Hard Case using the accessory attachment points. For attachment on the Soft Pack the adapter plate is needed.



D-85103-2013

Dräger PARAT® Grip Clip

The grip clip is a good carrying solution for short term applications when a securely fastened clip is needed. It is ideal to fasten on work clothes or pockets. It can be mounted on the Hard Case using the accessory attachment points. For attachment on the Soft Pack the adapter plate is needed.

Accessories



D-92814-2013

D-Ring for PARAT® Hard Case

The D-ring is ideal for carrying the unit in combination with a carabiner hook. A D-ring is already a standard part of the Soft Pack. This is an optional accessory for the Hard Case and can be mounted using the accessory attachment points.



D-6092-2014

Adapter Plate for PARAT® Soft Pack

The adapter plate is needed to attach the belt or grip clip for use with the Soft Pack.

Technical Data

	Dräger PARAT® 4900	Dräger PARAT® 5500	Dräger PARAT® 7500	Dräger PARAT® Training
Filter performance	NIOSH Multigas / R95 combination filter for toxic industrial gases, vapors, and particles	CO P2: combination filter against toxic fire-related gases, vapours and particles	ABEK CO P3: combination filter against toxic gases, vapours, particles and fire-related gases	Empty filter housing
Period of Use	At least 15 minutes			-
Total service life	16 years (provided the filter is exchanged after eight years)			-
Weight	Dräger PARAT® 4920: 26.7 oz (758 g)	Dräger PARAT® 5520: 24.7 oz (701 g) Dräger PARAT® 5530: 25.4 oz (720 g)	Dräger PARAT® 7520: 30 oz (853 g) Dräger PARAT® 7530: 29.2 oz (830 g)	Soft Pack: 17.9 oz (510 g) Hard Case: 20.1 oz (570 g)
Dimensions (length x width x height)	Dräger PARAT® 4920: 8.8 x 5.6 x 4.8 in (225 x 142 x 122 mm)	Dräger PARAT® 5520: 8 x 5.1 x 4.1 in (204 x 130 x 105 mm) Dräger PARAT® 5530: 9.4 x 5.6 x 4.2 in (241 x 143 x 107 mm)	Dräger PARAT® 7520: 8.8 x 5.6 x 4.8 in (225 x 142 x 122 mm) Dräger PARAT® 7530: 9.8 x 6.1 x 4.5 in (249 x 156 x 115 mm)	Soft Pack: 8 x 5.1 x 4.1 in (204 x 130 x 105 mm) Hard Case: 9.4 x 5.6 x 4.2 in (241 x 143 x 107 mm)
Approvals	NIOSH 42 CFR Part 84	EN 403:2004 PARAT® 5550: additionally approved to EN 137:2006 Type 2	EN 403:2004 DIN 58647-7:1997	-
		Additionally tested for the use against H2S (at 2,500 ppm) in accordance with DIN 58647-7:1997	Additionally tested in accordance with EN 14387	

PARAT 4920: NIOSH Approved and Independently Tested Gases

Gas/Vapor	Test Concentration	Minimum Service Life (min.)	Tested By:
Ammonia	1,000 ppm	25	NIOSH CFR 84.207 & 84.190 (a)
Chlorine	500 ppm	17.5	NIOSH CFR 84.207 & 84.190 (a)
Chlorine Dioxide	500 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Chloride	500 ppm	25	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Flouride	70 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Sulfide	1,000 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Methylamine	1,000 ppm	12.5	NIOSH CFR 84.207 & 84.190 (a)
Organic Vapor Test	1,000 ppm	25	NIOSH CFR 84.207 & 84.190 (a)
Sulfur Dioxide Test	500 ppm	15	NIOSH CFR 84.207 & 84.190 (a)
HCHO/Formaldehyde	100 ppm	40	Independent/In House Testing
HCN/Hydrogen Cyanide	500 ppm	50	Independent/In House Testing
Hg/Mercury Vaport	21.5 mg x n -3	60	Independent/In House Testing

Technical Data

Gas filter capacity according to DIN 58647-7:1997*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	2,500	15
B	Chlorine (Cl_2)	2,500	15
B	Hydrogen sulphide (H_2S)	2,500	15
B	Hydrogen cyanide (HCN)	2,500	15
E	Sulphur dioxide (SO_2)	2,500	15
K	Ammonia (NH_3)	2,500	15
B	Hydrogen sulphide (H_2S)	10,000	5

* Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F

Gas filter capacity according to EN 403:2004*

Test gas	Concentration in ppm	Minimum exposure time in min
Carbon monoxide (CO)	2,500 5,000 7,500 10,000	15 15 15 15
Propenal (Acrolein)	100	15
Hydrogen chloride (HCl)	1,000	15
Hydrogen cyanide (HCN)	400	15

* Test conditions: 30 L/min, 70% rel. humidity, 20 °C / 68 °F

Gas filter capacity according to EN 14387*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	1.000	70
B	Chlorine (Cl_2)	1.000	20
	Hydrogen sulphide (H_2S)	1.000	40
	Hydrogen cyanide (HCN)	1.000	25
E	Sulphur dioxide (SO_2)	1.000	20
K	Ammonia (NH_3)	1.000	50

*Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F

Gas filter capacity according to EN 14387*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	1.000	70

Technical Data

B	Chlorine (Cl_2)	1.000	20
	Hydrogen sulphide (H_2S)	1.000	40
	Hydrogen cyanide (HCN)	1.000	25
E	Sulphur dioxide (SO_2)	1.000	20
K	Ammonia (NH_3)	1.000	50
*Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F			

Ordering Information

Dräger PARAT® Escape Hoods	
Dräger PARAT® 4920, Soft Pack	3721331
Dräger PARAT® 5510, Single Pack	R 59 415
Dräger PARAT® 5520, Soft Pack	3721330
Dräger PARAT® 5530, Hard Case	R 59 435
Dräger PARAT® 7520, Soft Pack	3721329
Dräger PARAT® 7530, Hard Case	R 59 437
Dräger PARAT® Training Hood, Soft Pack	3721327
Dräger PARAT® Training Hood, Hard Case	R59430

Accessories	
Replacement Flter Set: Dräger PARAT® 4920 (includes NIOSH Multigas/R95 Filter and security seal)	R59473
Replacement Filter Set: Dräger PARAT® 5520/5530 (includes CO P2 filter and security seal)	R59475
Replacement Filter Set: Dräger PARAT® 7500 (includes ABEK CO P3 filter and security seal)	R59477
Wallholder PIN for Dräger PARAT® Hard Case	R59451
Wallholder HOOK for Dräger PARAT® Hard Case	R59452
Waist Belt, textile	6733934
Waist Belt, plastic	R53026
Waist Belt, antistatic	3715595
Shoulder Strap	R59461
Belt Clip	R59456
Grip Clip	R59455
Adapter Plate for Dräger PARAT® Soft Pack	R58742
D-Ring for Dräger PARAT® Hard Case	R59457
Filter Dummy for Dräger PARAT® Training Hoods	R59479
Filterplug Straps for Dräger PARAT® Training Hoods	R59482
Security Seal for Dräger PARAT® Hoods	R59484
Set Sticker Luminescent for Dräger PARAT® 4920	3725786
Set Sticker Luminescent for Dräger PARAT® 5520	3725782
Set Sticker Luminescent for Dräger PARAT® 7520	3725785
Set Sticker Luminescent for Dräger PARAT® Training Unit	3725787

Notes

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to www.draeger.com/trademarks to find the current status.

Corporate Headquarters
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

USA
Draeger, Inc.
7256 S. Sam Houston Parkway W.,
Suite 100
Houston, TX 77085
1 800 4DRAGER
(1 800 437 2437)

Locate your Regional Sales Representative at:
www.draeger.com/contact

101822 | 07241 | Subject to modifications | © 2024 Drägerwerk AG & Co. KGaA

14 ESCAPE MASK CABINET

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-35

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



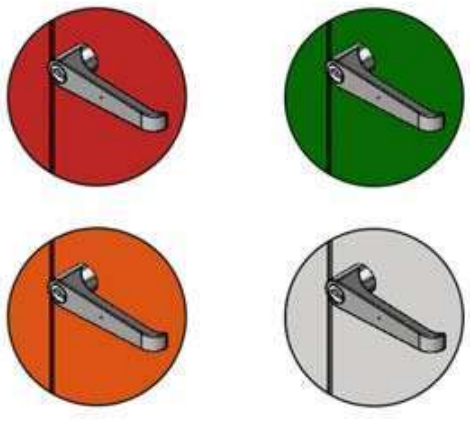
Features

Room to store
- Fire extinguisher (1 pcs DP/F/CO2)
- Survival suit (1 pcs)
- Life jacket (4 pcs inflatables)
- Escape masks (up to 10 pcs depending on type)
- Emergency Escape Breathing Apparatus

Options
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	470 x 250 x 980 mm (WxDxH)
Aperture dimensions	345 x 250 x 836 mm (WxDxH)
Angle of door opening	90°
Weight	12,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-35
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

15 EVACUATION STRETCHER & LIFTING BRIDLES SYSTEM & BELTS

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Medical Device Regulation COMPLIANCE

SPENCER
Made for Decisive Moments

UNIVERSAL BASKET STRETCHER
SPENCER SHELL



FEATURES

- **Integrated high-density polyethylene shell** for enhanced patient protection
- **Strategically positioned eyelets** offer patient restraint versatility
- **12 ample handholes** for secure grip
- **Aerial lifting capability** with 4 eyelets
- **Perimeter rope** for belt and accessory attachment
- **Adjustable floating footrest** in durable PE available
- **Waterproof mattress** for enhanced patient comfort

Models	SPENCER SHELL	SPENCER SHELL	SPENCER SHELL	SPENCER SHELL
Color				
Codes	**ST04012**	**ST04000**	**ST04066**	**ST04017**

The **Spencer Shell** is a basket stretcher designed for the recovery and transportation of patients in challenging and high-risk scenarios. It is particularly tailored for rescue operations where safeguarding the patient from side impacts is paramount, and conventional transport equipment falls short.

It features a distinctive high-density polyethylene shell that acts as a protective cocoon for the patient, guarding against side impacts and providing an added layer of safety during rescue operations. Equipped with strategically placed handholes and eyelets, the stretcher can be lifted or carried by multiple operators, making it suitable for a variety of rescue scenarios. Two skids at the bottom of the shell minimize friction during dragging operations, allowing for smoother navigation across different terrains.

The Spencer Shell basket stretcher can be used in a range of challenging rescue situations, including: technical rescue, mines, high altitudes, water rescue, air and for sporting events.

280 kg
617 lb
Load Capacity

Great Resistance

Easy to Clean

CLASS I MEDICAL DEVICE COMPLIANT WITH UE REGULATION 2017/745

LEARN MORE

Product datasheet **Spencer Shell** – Codes **ST04000 • ST04012 • ST04017 • ST04066**
CND Classification **V0899** – Registration number **171960**

TECHNICAL DATA

Length	215 cm / 84.6 in.
Width	65 cm / 25.5 in.
Height	20 cm / 7.87 in.
Handles	12
Weight without accessories	12,5 kg / 27.5 lb
Material	PE, PP, Al
Load capacity	280 kg / 617 lb

THE PRODUCT INCLUDES:

Code ST04011A – Footrest for Shell and Twin Shell

Code ST00592A – STX 592 Yellow belts with metal buckle – 2 pieces

WHY SHOULD YOU USE THE SPENCER SHELL FOR YOUR RESCUE OPERATIONS?

- The SPENCER SHELL can be used in any rescue scenarios: it can winched for air lifting, dragged on the ground and used for sea rescue with the addition of floating systems.
- Crafted from high-quality materials, the SPENCER SHELL offers a perfect balance between durability and lightweight design.
- The SPENCER SHELL is designed with a secure and rigid shell structure, providing maximum protection to the patient during transport.
- The stretcher is engineered to distribute the patient's weight evenly, preventing pressure points and reducing the potential for additional injuries. This feature is particularly crucial during challenging rescue scenarios where maintaining patient stability is paramount.
- The basket stretcher is equipped with strategically placed handholds and attachment points, facilitating smooth and controlled movement. This enhances the crew's ability to navigate challenging terrains and ensure a secure grip during patient transfer.
- Easy-to-clean materials simplify post-rescue maintenance, promoting efficiency and hygiene in the rescue process.
- The shell of the basket stretcher is large enough to host additional medical and diagnostics equipment for better patient care.

SPENCER
Made for Decisive Moments

ACCESSORIES



ST00592A

STX 592
Yellow belt metal buckle – 2 pieces



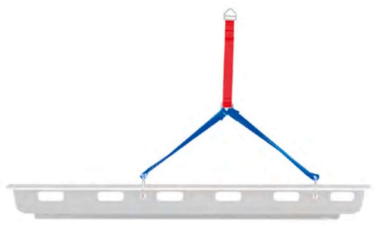
ST70002A

STX 702
Black reflex belts with metal buckle – 2 pieces



ST04522B

STX 540
Fixed lifting bridles system



ST04519C

STX 519
Adjustable lifting bridles system



ST04524B

STX 538
Universal floating devices for basket stretchers or spine boards – 3 pieces



ST04525B

STX 537
Universal floating devices for basket stretchers or spine boards – 1 piece



ST04518A

STX 518
Universal floating devices for basket stretchers or spine boards – 2 pieces



ST04040A

STX 40
Spencer Shell carry bag



ST04530

SPEED BASKET
Basket stretchers carrier

SPENCER
Made for Decisive Moments



















Rev.0 (06/11/2023)

©Copyright - This document is property of SPENCER ITALIA S.r.l and can't be reproduced, used and disclosed without the written approval of SPENCER ITALIA SRL.

Spencer Italia s.r.l. a socio unico soggetta a direzione e coordinamento da Protect Medical Holding GmbH
Via Provinciale, n° 12 - 43038 Sala Baganza (PR) Italy - +39 0521 541111 - info@spencer.it - www.spencer.it

STX 519

Adjustable lifting bridles system



These harnesses are accessories for basket stretchers, to be used solely for lifting from a floor-mounted position or for dragging.

Specific features
4 hooks with automatic locking secure
Easy to adjust system

Technical data	
Belt length	Maximum 1680 mm Minimum 1250 mm
Belt width	50 / 20 mm
Weight	1.8 ± 0.1 kg
Material	Nylon, aluminium, steel
Fastening type	Spring catch
Number of fastening bands	4
Compatibility	All basket stretchers manufactured by Spencer
Maximum applicable static safety load	450 kg (1000 lbs)

Class I MD compliant with UE Reg. 2017/745	
STX 519 ADJUST. LIFTING BRID. - LIFTING BRIDLE SYS	CE
ST04519C	
CND Classification	V0899
Registration number	188142

Rev.0 (27/11/2020)
UNCHECKED COPY – further revisions will be available on http://support.spencer.it
Spencer Italia S.r.l. Sala Baganza (PR) Italia Tel. +39.0521.541111 Fax +39.0521.541222
www.spencer.it
© Copyright - This document is property of SPENCER ITALIA S.r.l and can't be reproduced, used and disclosed without the written approval of SPENCER ITALIA S.r.l.

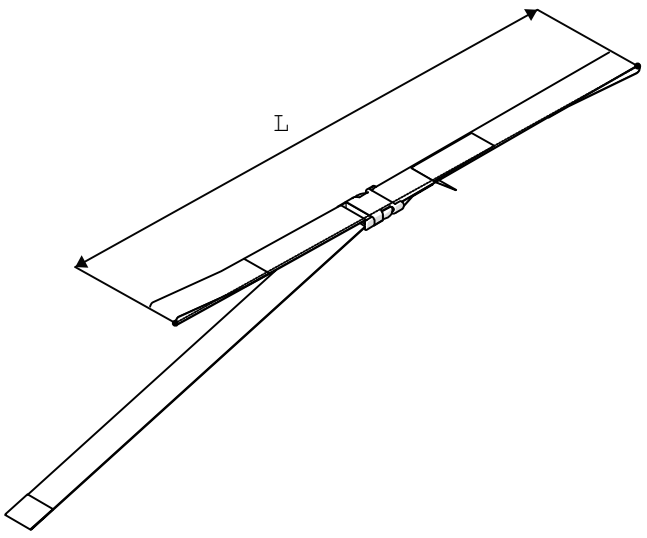
STX 598

Two piece belt



STX 598 restraint belts are aids used to obtain a degree of restraint that allows patients to be transported safely when used in accordance with the product in use.

Specific features
Nylon hook to ensure maximum safety
Suitable for self-loading stretchers, basket stretchers and spinal boards



Technical data [1]		
	Min (mm)	Max (mm)
Length L	700	1500
Available length after knot has been done[2]	460	1250
Belt width		50 mm
Materias		Nylon
Belt weight		130 ± 10 g
Belt type		2 pieces
Hook		Plastic

[1] The indicated lengths are subject to tolerances of ± 30 mm
[2] Approximate value. It varies depending on which device the belt is applied

Class I MD compliant with UE Reg. 2017/745	
MOD 598 RESTRAINT BELT 2 PCS. DERLIN	CE
ST00598A	
CND Classification	V9099
Registration number	96090

Rev.0 (08/01/2021)
UNCHECKED COPY – further revisions will be available on http://support.spencer.it
Spencer Italia S.r.l. Sala Baganza (PR) Italia Tel. +39.0521.541111 Fax +39.0521.541222
www.spencer.it
© Copyright - This document is property of SPENCER ITALIA S.r.l and can't be reproduced, used and disclosed without the written approval of SPENCER ITALIA S.r.l.

16 IMMERSION SUIT

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

4 LIFEBUOY

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

survitec

PERRYBUOY LIFEBUOY

4 and 2.5KG solution



Lifebuoy marking is mandatory for ships, with options to label them with the vessel's name and port of registry using 2" self-adhesive black letters or a transfer. The Perrybuoy, fitted with MED approved high-intensity retro reflective tape and a 10mm high-density polyethylene grabline, ensures visibility and durability even in harsh conditions.

BENEFITS:

- ✓ The 30-inch, 4 kg, and 2.5 kg Orange Perrybuoys are MED approved
- ✓ The 4 kg Orange Perrybuoy meets the weight requirement to deploy the Man Overboard smoke and light unit from its bracket on the bridge wing of a vessel
- ✓ The 30-inch, 4 kg Orange Perrybuoy is suitable for use at sea or on land
- ✓ The 30-inch, 2.5 kg Orange Perrybuoy is suitable for use in any area of the ship except the bridge wing, and for land-based applications



"Durable grabline solution even for the most hazardous marine environments"

TRUSTED TO
PROTECT LIVES

PERRYBUOY LIFEBUOY

TECHNICAL DATA

PERRYBUOY LIFEBUOY	
Maximum Installation Height	60m
Outer Diameter	751 mm +/-2%
Inner Diameter	450 mm +/-2%
Reflective Tape	Yes
Elliptical Section	Major Axis 150 +/- 7 mm Minor Axis 99 +/- 7 mm

APPROVALS & ACCREDITATIONS

✓ Approved in compliance with MED

ORDERING INFORMATION

Code	Product Name
751017	30” inch 2.5 kg Perrybuoy
751027	30” inch 4 kg Perrybuoy

ACCESSORIES

Code	Product Name
FLL170C	L170 Lifebuoy Light SOLAS/MED/USCG App
908006	Crewsaver Hamble Horseshoe Buoy Set
902917	Galvanised Y Bracket
7000770	Perryline 30m 8mm Line SOLAS for Vessel Use
606208	Floating Lifeline 30m
900790	Man Overboard MK9 PW

survitec
SURVIVAL TECHNOLOGY

GET IN TOUCH
Email info@survitecgroup.com
Survitec House, Lederle Lane, Gosport, Hampshire, United Kingdom, PO13 0FZ
www.survitecgroup.com

© Copyright Survitec Group 2022

Comet

WESCOM
Signal & Rescue



Light and Smoke Signal

Art No. 9181600

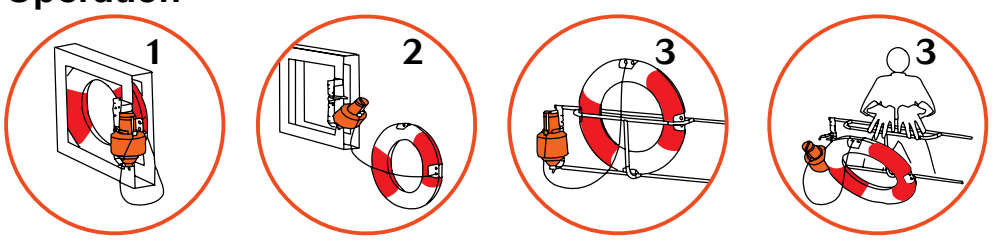
The Light and Smoke Lifebuoy Marker produces dense orange smoke for 15 minutes and features two self contained, inversion switched, LED lights which far exceed SOLAS requirements for output and duration.
Ships are required to carry 2 markers, one mounted on each bridge wing with the brackets supplied and attached by line to a 4kg Lifebuoy. The signal is used to mark the position of a man overboard by day or night. It can be automatically deployed by releasing the attached lifebuoy, or manually activated.

The Comet Smoke Signal Art. No 9181700 is identical, except that it does not feature the lighting system, so is an orange smoke daytime marker only.

Application

- Day and night signal attached to 4kg lifebuoy and used in an emergency to mark the position of man overboard.
- Provides 15 minutes of dense orange smoke.
- Far exceeds SOLAS requirements of 2 hours at 2 candela for light output and duration.
- Safe to use on petrol or oil covered water.
- Lithium batteries sealed for life - no annual replacement.
- Screw fit, inversion switched, LED light units.
- Automatic or manual deployment.
- Universal stainless steel mounting bracket. Usually mounted on a ships bridge wing
- Approved mounting height: 56m - but manufacturer tested to survive 100m drop into water. (SOLAS only requires 30m).
- Ideal for use on ships or rigs with high freeboard.

Operation



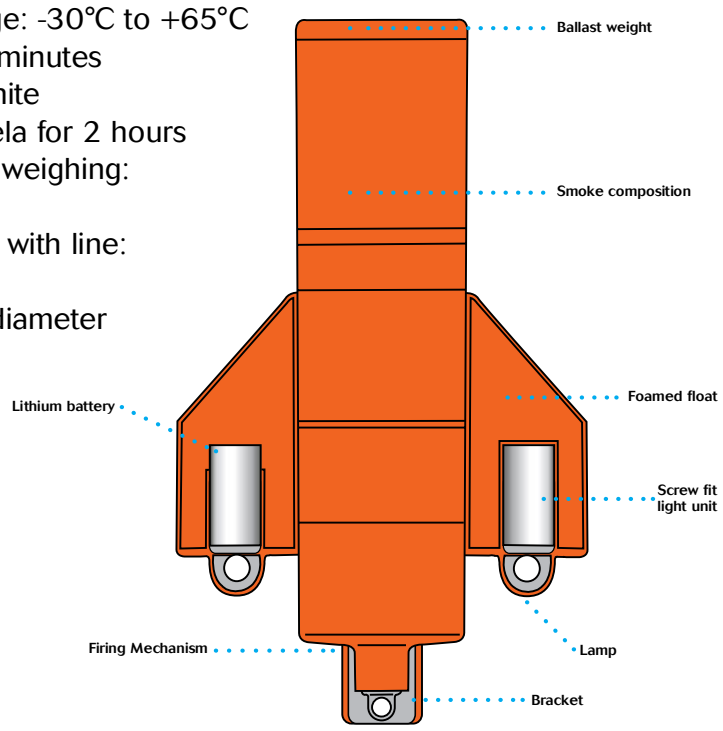
1. Signal and Lifebuoy mounted on bridge wing in ready to fire position.
2. Release locking pin and lifebuoy falls, automatically deploying marker.
3. Alternatively, manually throw lifebuoy overboard.

Packing & Transport Information

- 2 x signals in 1 fibreboard box
- Max. Gross Weight: 9.5 kg (20.94 lb.) per box
- Max. Net Weight: 7.7 kg (17 lb.)
- Measurements of fibreboard box: 36 x 27 x 40 cm (14.2 x 10.6 x 15.8 in)
- Max. Net Explosive Content per box: 2.574kg (5.67 lb.)
- Hazard class 1.4S UN 0507
- Proper shipping name: Signals, Smoke
- Other information: Passenger and cargo aircraft

Specifications

- Height: 375mm (14.76 in)
- Diameter: 183mm (7.20 in)
- Weight: 3.3kg (7.27 lb.)
- Weight – including bracket and angles: 3.85kg (8.5 lb.)
- Net Explosive Content: 1.287kg (2.84 lb.)
- Lamps (bulbs): 2 x 3.6v 2.0A
- Temperature range: -30°C to +65°C
- Burning time: 15 minutes
- Colour of light: white
- Duration: 2 candela for 2 hours
- Use with lifebuoy weighing: 4.0kg (8.82 lb.)
- Attach to lifebuoy with line: 4m (13ft) long, 9.5mm (0.37 in) diameter



Storage

This compact unit is ideally stored in good magazine conditions in an upright position, mounted to its stainless steel bracket in our original packaging. Onboard vessel: Two units are normally required to be carried. Mounted inverted and attached to a Lifebuoy. Usually positioned on each bridge wing and need a clear, uninterrupted drop into the water.

Approvals

Conforms to SOLAS 74 as amended. IMO Resolution MSC 81 (70) part 1. MED: Light & Smoke Signal - BGV 422.012, Smoke Signal - BGV 422.011. BAM-P1-0596, 0589-P1-0619.



WARNING

- Produces dense orange smoke - do not inhale.
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date

DISPOSAL

- Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations. For help and advice, visit our website **www.comet-marine.com**

Throwing line 30 mtr with quoit

Productcode: 230270

Orange floating throwing line 30mtr with attached floating quoit.



GRP storage cabinet: DMO-131

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.

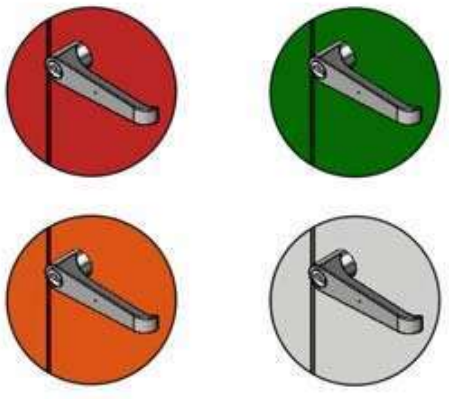


Room to store
- 2.5 kgs or 4.5 kgs lifebuoy
- throwing line
- safety light

Optional
- lettering

TECHNICAL SPECIFICATIONS

Dimensions	125 x 900 x 900 mm (DxWxH)
Aperture dimensions	125 x 900 x 900 mm (DxWxH)
Angle of door opening	100°
Weight	27,5 kgs
Material	GRP
Color	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP55
Door catch	Stainless steel
Door handle	SS 316
Hinges	SS 316
Seal	Neoprene
Reinforcement	Core material
Lettering	White
Approvals	TÜV



GRP storage cabinet: DMO-131
To store lifebuoy

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

6 SAFETY CABINET 1

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-05

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



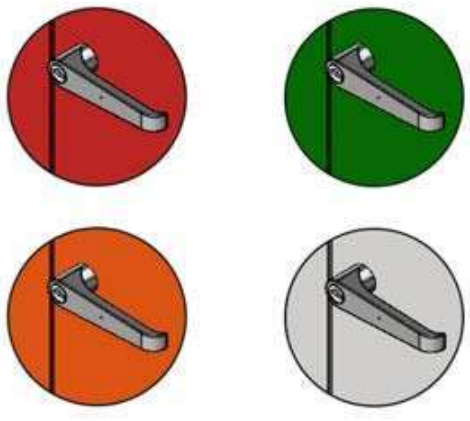
Features

Room to store
- Fireman's equipment (2 complete sets incl. SCBA)
- Fireman's clothing (4 sets)
- Survival suits (up to 20 pcs depending on size)
- Life jackets (up to 35 pcs depending on type)
- Emergency response team equipment
- Helideck crash equipment (incl. ladder & grab hook)

Options
- Shelves / bulkhead / clothing bar
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lighting (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	1035 x 800 x 2030 (WxDxH)
Aperture dimensions	819 x 800 x 1760 mm (WxDxH)
Angle of door opening	90°
Weight	57,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-05
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

7 SAFETY CABINET 2

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-09

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



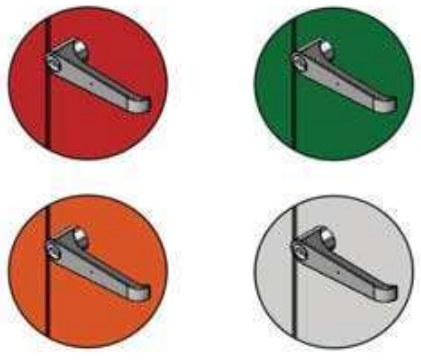
Features

Room to store
- Fire hydrant cabinet (4 hoses / spray nozzles / spanners)
- Survival suits (up to 20 pcs depending on type)
- Lifejackets (up to 30 pcs depending on type)
- Fireman's clothing (4 sets folded)
- SCBA storage (2 sets + spare cylinder)
- Chemical protection equipment
- Electrical safety kit
- Fall protection equipment / descent units (donut type)

Options
- Shelves
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	821 x 600 x 1277 mm (WxDxH)
Aperture dimensions	647 x 600 x 1039 mm (WxDxH)
Angle of door opening	90°
Weight	30 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-09
IP56 rated and Lloyds ertified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

13 ESCAPE MASK

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy



Dräger PARAT® Filtering Escape Hoods
Filtering Escape Device

The PARAT® filtering escape hoods were developed with users, placing the focus on faster escapes. Enhanced operation and wearing comfort, a robust case and a sealed filter help to ensure protection from toxic industrial and/or fire-related gases, vapors and particles for at least 15 minutes.

Dräger

Technology for Life

Dräger PARAT® Filtering Escape Hoods

Clearly visible hood
Hood in signal color for high visibility

Internal head harness
Thanks to the automatically adjusting internal head harness, no additional tightening of the hood is required.

High-performance filter
Filter expiration date is clearly marked; the filter is automatically released from the packaging when opened.

Exhalation valve
Directly leads the exhaled air out of the half mask



D-85039-2013

Overall protection
16 years of total service life (provided the filter is exchanged after 8 years), Hood provides respiratory and eye protection

Clear view
Wide field of vision due to a specially formed visor. Always a clear view thanks to a special anti-fog coating

Good fit
Specially designed half mask fits a wide variety of face sizes

Textile neck seal
Flexible textile neck seal

D-85039-2013-pi-en-us

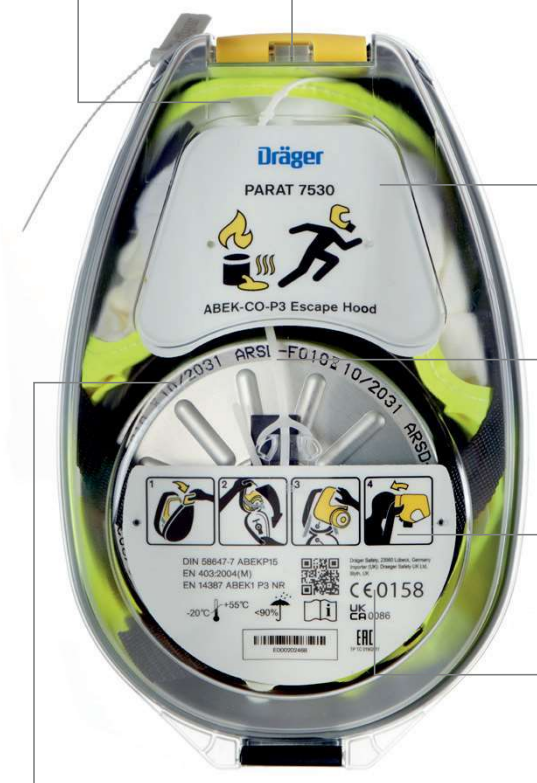
Dräger PARAT® Filtering Escape Hoods

Hard Case

Soft Pack

Dust and splash water protection
According to IP54

Dust protection
According to IP5



Opening flap with security seal
High visibility, arrow indicates opening direction, seal ensures that the packaging has not been opened

Field of application
Pictogram shows field of application and filter type

Filter sealing plug
When opened, the filter plug is automatically released from the filter

Donning instructions
Show steps to don the hood

Approval and application information
In addition, the QR code provides further information on the Dräger website
(PARAT Soft Pack: underneath the protective flap)

Control window
Allows to check the expiration date
(PARAT Soft Pack: underneath the protective flap)



D-5312-2023

D-5338-2023

D-7610-2023

D-7610-2023-pi-en-us

Benefits

Ready for escape in only 3 steps

Exceptionally innovative and intuitive: When opening the soft pack or hard case packaging, the filter plug is automatically released from the filter. The filter is then deployed into operational position and the hood can be immediately donned. Thanks to the self-adjusting internal head harness, no additional adjustment is required. All you have to do is open the packaging, remove and don the hood– and leave the danger zone.

Reliable protection

Choose from fire escape, industrial escape or a combination of fire and industrial escape. The high-performance combination filter reliably protects against a wide range of fire and/or toxic industrial gases, vapors and particles – depending on the version. The filters are approved according to the EN standard 403:2004 for fire escape hoods and/or the DIN standard 58647-7 for industrial filtering escape devices. Additionally, the industrial versions are tested in accordance with NIOSH 42 CFR Part 84 and the EN standard 14387:2004 for gas and combined filters.

To keep the filter safe over its long lifetime, it is tightly sealed with two filter plugs.

16 years of service life

Replacing the filter after eight years will extend the service life of the Dräger PARAT Escape Hood to 16 years in total. For this, Dräger offers filter replacement service or expert training for your employees.

Robust and ergonomic

Both ergonomics and wearing comfort were considered when designing the soft pack and hard case packaging of the Dräger PARAT Escape Hoods. The escape hood can be carried with a belt, shoulder strap, grip clip or belt clip. The PARAT Hard Case can also be mounted on the wall using a wallholder. Additionally, the robust packaging of the Dräger PARAT Escape Hoods protects the device from damage.

Different packaging types

You can select between different packaging types: The hard case provides splash water protection (IP54)– the soft pack provides ingress dust protection (IP5). Both packaging types have a viewing window to check the filter expiration date and the condition of the device. Particularly convenient: The security seal on the packaging shows if the unit has been opened.

Accessories



D-85100-2013

Wallholder PIN for PARAT® Hard Case

Ideal for placing stationary units in a central location. For example in public buildings, where they may be needed in an emergency situation. Or optionally placed in specific locations where they may be required as a safety measure. The Wallholder PIN can be mounted to any Hard Case using the accessory attachment points.



D-21254-2015

Wallholder HOOK for PARAT® Hard Case

Ideal for placing stationary units in a central location. For example in public buildings, where they may be needed in an emergency situation. Or optionally placed in specific locations where they may be required as a safety measure. The unique advantage of the Wallholder HOOK is that when mounted to the Hard Case via a hook system a shoulder harness can be attached to the Hard Case.



ST-14719-2008

Waist Belt (textile)

Ideal for carrying the unit safely secured to the wearer on a daily basis. The textile waist belt is robust and comfortable to wear. The waist belt can be used with both Soft Pack and Hard Case versions.



ST-14720-2008

Waist Belt (plastic)

Ideal for carrying the unit safely secured to the wearer on a daily basis. The flexible plastic-coated waist belt is easy to clean, especially after work in rough environments. The waist belt can be used with both Soft Pack and Hard Case versions.

Accessories



D-1243-2021

Hip Belt (antistatic)

Hip belt with antistatic coating, washable.Belt width: 3.8 cm, belt length: adjustable from 70 to 115 cm. Can be used with PARAT Soft Pack and PARAT Hard Case.



D-7276-2026

PARAT Shoulder Strap

The shoulder strap is perfect for short-term and recurring operations where the device must be quickly taken with the user. The strap can be mounted to accessory attachment points on the Hard Case or the attached loops on the Soft Pack.



D-92815-2013

Belt Clip

The belt clip can be used with any standard belt. Ideal for short term applications like inspection or maintenance where the unit is often attached to and removed from the belt. Can be mounted on the Hard Case using the accessory attachment points. For attachment on the Soft Pack the adapter plate is needed.



D-85103-2013

Dräger PARAT® Grip Clip

The grip clip is a good carrying solution for short term applications when a securely fastened clip is needed. It is ideal to fasten on work clothes or pockets. It can be mounted on the Hard Case using the accessory attachment points. For attachment on the Soft Pack the adapter plate is needed.

Accessories



D-92814-2013

D-Ring for PARAT® Hard Case

The D-ring is ideal for carrying the unit in combination with a carabiner hook. A D-ring is already a standard part of the Soft Pack. This is an optional accessory for the Hard Case and can be mounted using the accessory attachment points.



D-6092-2014

Adapter Plate for PARAT® Soft Pack

The adapter plate is needed to attach the belt or grip clip for use with the Soft Pack.

Technical Data

	Dräger PARAT® 4900	Dräger PARAT® 5500	Dräger PARAT® 7500	Dräger PARAT® Training
Filter performance	NIOSH Multigas / R95 combination filter for toxic industrial gases, vapors, and particles	CO P2: combination filter against toxic fire-related gases, vapours and particles	ABEK CO P3: combination filter against toxic gases, vapours, particles and fire-related gases	Empty filter housing
Period of Use	At least 15 minutes			-
Total service life	16 years (provided the filter is exchanged after eight years)			-
Weight	Dräger PARAT® 4920: 26.7 oz (758 g)	Dräger PARAT® 5520: 24.7 oz (701 g) Dräger PARAT® 5530: 25.4 oz (720 g)	Dräger PARAT® 7520: 30 oz (853 g) Dräger PARAT® 7530: 29.2 oz (830 g)	Soft Pack: 17.9 oz (510 g) Hard Case: 20.1 oz (570 g)
Dimensions (length x width x height)	Dräger PARAT® 4920: 8.8 x 5.6 x 4.8 in (225 x 142 x 122 mm)	Dräger PARAT® 5520: 8 x 5.1 x 4.1 in (204 x 130 x 105 mm) Dräger PARAT® 5530: 9.4 x 5.6 x 4.2 in (241 x 143 x 107 mm)	Dräger PARAT® 7520: 8.8 x 5.6 x 4.8 in (225 x 142 x 122 mm) Dräger PARAT® 7530: 9.8 x 6.1 x 4.5 in (249 x 156 x 115 mm)	Soft Pack: 8 x 5.1 x 4.1 in (204 x 130 x 105 mm) Hard Case: 9.4 x 5.6 x 4.2 in (241 x 143 x 107 mm)
Approvals	NIOSH 42 CFR Part 84	EN 403:2004 PARAT® 5550: additionally approved to EN 137:2006 Type 2	EN 403:2004 DIN 58647-7:1997	-
		Additionally tested for the use against H2S (at 2,500 ppm) in accordance with DIN 58647-7:1997	Additionally tested in accordance with EN 14387	

PARAT 4920: NIOSH Approved and Independently Tested Gases

Gas/Vapor	Test Concentration	Minimum Service Life (min.)	Tested By:
Ammonia	1,000 ppm	25	NIOSH CFR 84.207 & 84.190 (a)
Chlorine	500 ppm	17.5	NIOSH CFR 84.207 & 84.190 (a)
Chlorine Dioxide	500 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Chloride	500 ppm	25	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Flouride	70 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Hydrogen Sulfide	1,000 ppm	30	NIOSH CFR 84.207 & 84.190 (b)
Methylamine	1,000 ppm	12.5	NIOSH CFR 84.207 & 84.190 (a)
Organic Vapor Test	1,000 ppm	25	NIOSH CFR 84.207 & 84.190 (a)
Sulfur Dioxide Test	500 ppm	15	NIOSH CFR 84.207 & 84.190 (a)
HCHO/Formaldehyde	100 ppm	40	Independent/In House Testing
HCN/Hydrogen Cyanide	500 ppm	50	Independent/In House Testing
Hg/Mercury Vaport	21.5 mg x n -3	60	Independent/In House Testing

Technical Data

Gas filter capacity according to DIN 58647-7:1997*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	2,500	15
B	Chlorine (Cl_2)	2,500	15
B	Hydrogen sulphide (H_2S)	2,500	15
B	Hydrogen cyanide (HCN)	2,500	15
E	Sulphur dioxide (SO_2)	2,500	15
K	Ammonia (NH_3)	2,500	15
B	Hydrogen sulphide (H_2S)	10,000	5

* Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F

Gas filter capacity according to EN 403:2004*

Test gas	Concentration in ppm	Minimum exposure time in min
Carbon monoxide (CO)	2,500 5,000 7,500 10,000	15 15 15 15
Propenal (Acrolein)	100	15
Hydrogen chloride (HCl)	1,000	15
Hydrogen cyanide (HCN)	400	15

* Test conditions: 30 L/min, 70% rel. humidity, 20 °C / 68 °F

Gas filter capacity according to EN 14387*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	1.000	70
B	Chlorine (Cl_2)	1.000	20
	Hydrogen sulphide (H_2S)	1.000	40
	Hydrogen cyanide (HCN)	1.000	25
E	Sulphur dioxide (SO_2)	1.000	20
K	Ammonia (NH_3)	1.000	50

*Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F

Gas filter capacity according to EN 14387*

Type	Test gas	Concentration in ppm	Minimum exposure time in min
A	Cyclohexane (C_6H_{12})	1.000	70

Technical Data

B	Chlorine (Cl_2)	1.000	20
	Hydrogen sulphide (H_2S)	1.000	40
	Hydrogen cyanide (HCN)	1.000	25
E	Sulphur dioxide (SO_2)	1.000	20
K	Ammonia (NH_3)	1.000	50
*Test conditions: 30 L/min, 70 % relative humidity, 20 °C / 68 °F			

Ordering Information

Dräger PARAT® Escape Hoods	
Dräger PARAT® 4920, Soft Pack	3721331
Dräger PARAT® 5510, Single Pack	R 59 415
Dräger PARAT® 5520, Soft Pack	3721330
Dräger PARAT® 5530, Hard Case	R 59 435
Dräger PARAT® 7520, Soft Pack	3721329
Dräger PARAT® 7530, Hard Case	R 59 437
Dräger PARAT® Training Hood, Soft Pack	3721327
Dräger PARAT® Training Hood, Hard Case	R59430

Accessories	
Replacement Flter Set: Dräger PARAT® 4920 (includes NIOSH Multigas/R95 Filter and security seal)	R59473
Replacement Filter Set: Dräger PARAT® 5520/5530 (includes CO P2 filter and security seal)	R59475
Replacement Filter Set: Dräger PARAT® 7500 (includes ABEK CO P3 filter and security seal)	R59477
Wallholder PIN for Dräger PARAT® Hard Case	R59451
Wallholder HOOK for Dräger PARAT® Hard Case	R59452
Waist Belt, textile	6733934
Waist Belt, plastic	R53026
Waist Belt, antistatic	3715595
Shoulder Strap	R59461
Belt Clip	R59456
Grip Clip	R59455
Adapter Plate for Dräger PARAT® Soft Pack	R58742
D-Ring for Dräger PARAT® Hard Case	R59457
Filter Dummy for Dräger PARAT® Training Hoods	R59479
Filterplug Straps for Dräger PARAT® Training Hoods	R59482
Security Seal for Dräger PARAT® Hoods	R59484
Set Sticker Luminescent for Dräger PARAT® 4920	3725786
Set Sticker Luminescent for Dräger PARAT® 5520	3725782
Set Sticker Luminescent for Dräger PARAT® 7520	3725785
Set Sticker Luminescent for Dräger PARAT® Training Unit	3725787

Notes

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country in which this material is released. Go to www.draeger.com/trademarks to find the current status.

Corporate Headquarters
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

USA
Draeger, Inc.
7256 S. Sam Houston Parkway W.,
Suite 100
Houston, TX 77085
1 800 4DRAGER
(1 800 437 2437)

Locate your Regional Sales Representative at:
www.draeger.com/contact

101822 | 07241 | Subject to modifications | © 2024 Drägerwerk AG & Co. KGaA

14 ESCAPE MASK CABINET

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-35

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



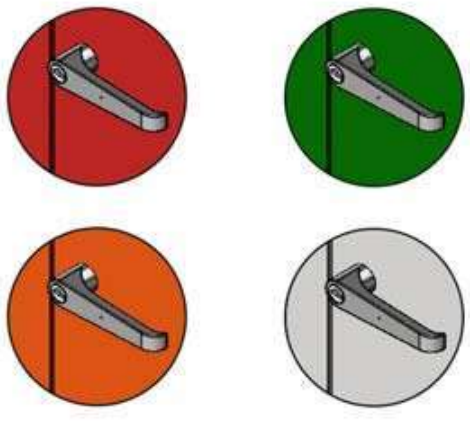
Features

Room to store
- Fire extinguisher (1 pcs DP/F/CO2)
- Survival suit (1 pcs)
- Life jacket (4 pcs inflatables)
- Escape masks (up to 10 pcs depending on type)
- Emergency Escape Breathing Apparatus

Options
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	470 x 250 x 980 mm (WxDxH)
Aperture dimensions	345 x 250 x 836 mm (WxDxH)
Angle of door opening	90°
Weight	12,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-35
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

15 EVACUATION STRETCHER & LIFTING BRIDLES SYSTEM & BELTS

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Medical Device Regulation COMPLIANCE

SPENCER
Made for Decisive Moments

UNIVERSAL BASKET STRETCHER
SPENCER SHELL



FEATURES

- **Integrated high-density polyethylene shell** for enhanced patient protection
- **Strategically positioned eyelets** offer patient restraint versatility
- **12 ample handholes** for secure grip
- **Aerial lifting capability** with 4 eyelets
- **Perimeter rope** for belt and accessory attachment
- **Adjustable floating footrest** in durable PE available
- **Waterproof mattress** for enhanced patient comfort

Models	SPENCER SHELL	SPENCER SHELL	SPENCER SHELL	SPENCER SHELL
Color				
Codes	**ST04012**	**ST04000**	**ST04066**	**ST04017**

The **Spencer Shell** is a basket stretcher designed for the recovery and transportation of patients in challenging and high-risk scenarios. It is particularly tailored for rescue operations where safeguarding the patient from side impacts is paramount, and conventional transport equipment falls short.

It features a distinctive high-density polyethylene shell that acts as a protective cocoon for the patient, guarding against side impacts and providing an added layer of safety during rescue operations. Equipped with strategically placed handholes and eyelets, the stretcher can be lifted or carried by multiple operators, making it suitable for a variety of rescue scenarios. Two skids at the bottom of the shell minimize friction during dragging operations, allowing for smoother navigation across different terrains.

The Spencer Shell basket stretcher can be used in a range of challenging rescue situations, including: technical rescue, mines, high altitudes, water rescue, air and for sporting events.

280 kg
617 lb
Load Capacity

Great Resistance

Easy to Clean

CLASS I MEDICAL DEVICE COMPLIANT WITH UE REGULATION 2017/745

LEARN MORE

Product datasheet **Spencer Shell** – Codes **ST04000 • ST04012 • ST04017 • ST04066**
CND Classification **V0899** – Registration number **171960**

TECHNICAL DATA

Length	215 cm / 84.6 in.
Width	65 cm / 25.5 in.
Height	20 cm / 7.87 in.
Handles	12
Weight without accessories	12,5 kg / 27.5 lb
Material	PE, PP, Al
Load capacity	280 kg / 617 lb

THE PRODUCT INCLUDES:

Code ST04011A – Footrest for Shell and Twin Shell

Code ST00592A – STX 592 Yellow belts with metal buckle – 2 pieces

WHY SHOULD YOU USE THE SPENCER SHELL FOR YOUR RESCUE OPERATIONS?

- The SPENCER SHELL can be used in any rescue scenarios: it can winched for air lifting, dragged on the ground and used for sea rescue with the addition of floating systems.
- Crafted from high-quality materials, the SPENCER SHELL offers a perfect balance between durability and lightweight design.
- The SPENCER SHELL is designed with a secure and rigid shell structure, providing maximum protection to the patient during transport.
- The stretcher is engineered to distribute the patient's weight evenly, preventing pressure points and reducing the potential for additional injuries. This feature is particularly crucial during challenging rescue scenarios where maintaining patient stability is paramount.
- The basket stretcher is equipped with strategically placed handholds and attachment points, facilitating smooth and controlled movement. This enhances the crew's ability to navigate challenging terrains and ensure a secure grip during patient transfer.
- Easy-to-clean materials simplify post-rescue maintenance, promoting efficiency and hygiene in the rescue process.
- The shell of the basket stretcher is large enough to host additional medical and diagnostics equipment for better patient care.

SPENCER
Made for Decisive Moments

ACCESSORIES



ST00592A

STX 592
Yellow belt metal buckle – 2 pieces



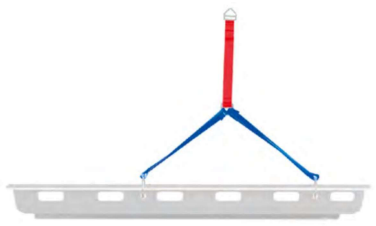
ST70002A

STX 702
Black reflex belts with metal buckle – 2 pieces



ST04522B

STX 540
Fixed lifting bridles system



ST04519C

STX 519
Adjustable lifting bridles system



ST04524B

STX 538
Universal floating devices for basket stretchers or spine boards – 3 pieces



ST04525B

STX 537
Universal floating devices for basket stretchers or spine boards – 1 piece



ST04518A

STX 518
Universal floating devices for basket stretchers or spine boards – 2 pieces



ST04040A

STX 40
Spencer Shell carry bag



ST04530

SPEED BASKET
Basket stretchers carrier

SPENCER
Made for Decisive Moments



















Rev.0 (06/11/2023)

©Copyright - This document is property of SPENCER ITALIA S.r.l and can't be reproduced, used and disclosed without the written approval of SPENCER ITALIA SRL.

Spencer Italia s.r.l. a socio unico soggetta a direzione e coordinamento da Protect Medical Holding GmbH
Via Provinciale, n° 12 - 43038 Sala Baganza (PR) Italy - +39 0521 541111 - info@spencer.it - www.spencer.it

STX 519

Adjustable lifting bridles system



These harnesses are accessories for basket stretchers, to be used solely for lifting from a floor-mounted position or for dragging.

Specific features
4 hooks with automatic locking secure
Easy to adjust system

Technical data	
Belt length	Maximum 1680 mm Minimum 1250 mm
Belt width	50 / 20 mm
Weight	1.8 ± 0.1 kg
Material	Nylon, aluminium, steel
Fastening type	Spring catch
Number of fastening bands	4
Compatibility	All basket stretchers manufactured by Spencer
Maximum applicable static safety load	450 kg (1000 lbs)

Class I MD compliant with UE Reg. 2017/745	
STX 519 ADJUST. LIFTING BRID. - LIFTING BRIDLE SYS	CE
ST04519C	
CND Classification	V0899
Registration number	188142

Rev.0 (27/11/2020)
UNCHECKED COPY – further revisions will be available on http://support.spencer.it
Spencer Italia S.r.l. Sala Baganza (PR) Italia Tel. +39.0521.541111 Fax +39.0521.541222
www.spencer.it
© Copyright - This document is property of SPENCER ITALIA S.r.l and can't be reproduced, used and disclosed without the written approval of SPENCER ITALIA S.r.l.

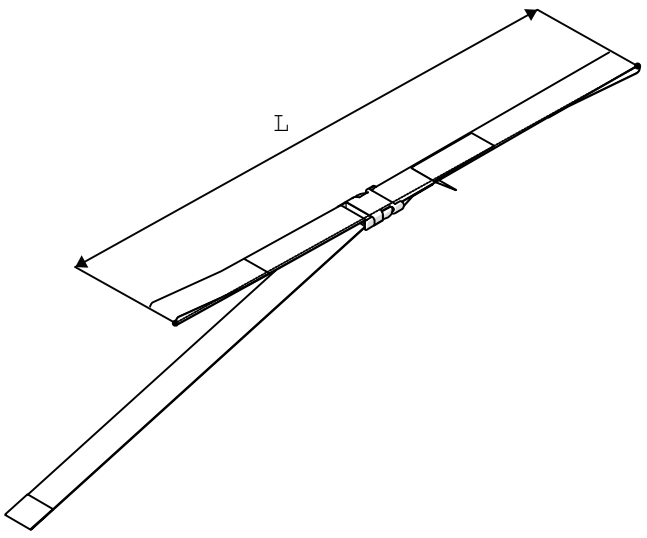
STX 598

Two piece belt



STX 598 restraint belts are aids used to obtain a degree of restraint that allows patients to be transported safely when used in accordance with the product in use.

Specific features
Nylon hook to ensure maximum safety
Suitable for self-loading stretchers, basket stretchers and spinal boards



Technical data [1]		
	Min (mm)	Max (mm)
Length L	700	1500
Available length after knot has been done[2]	460	1250
Belt width		50 mm
Materias		Nylon
Belt weight		130 ± 10 g
Belt type		2 pieces
Hook		Plastic

[1] The indicated lengths are subject to tolerances of ± 30 mm
[2] Approximate value. It varies depending on which device the belt is applied

Class I MD compliant with UE Reg. 2017/745	
MOD 598 RESTRAINT BELT 2 PCS. DERLIN	CE
ST00598A	
CND Classification	V9099
Registration number	96090

Rev.0 (08/01/2021)
UNCHECKED COPY – further revisions will be available on http://support.spencer.it
Spencer Italia S.r.l. Sala Baganza (PR) Italia Tel. +39.0521.541111 Fax +39.0521.541222
www.spencer.it
© Copyright - This document is property of SPENCER ITALIA S.r.l and can't be reproduced, used and disclosed without the written approval of SPENCER ITALIA S.r.l.

ITEM	Tag	Survival_Equipment_TP	: Life Buoy (fitted with light, smoke signal & lifeline) and Safety Cabinet Transition Piece			Dwg	123A90-DDL-SAF-DL-30025
	S/Sys	76-50	: Personal Protection			Module	TP
TASK	code	C10004493	Location	Onshore Activities		User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Safety	Form	CYX09 Survival Equipment

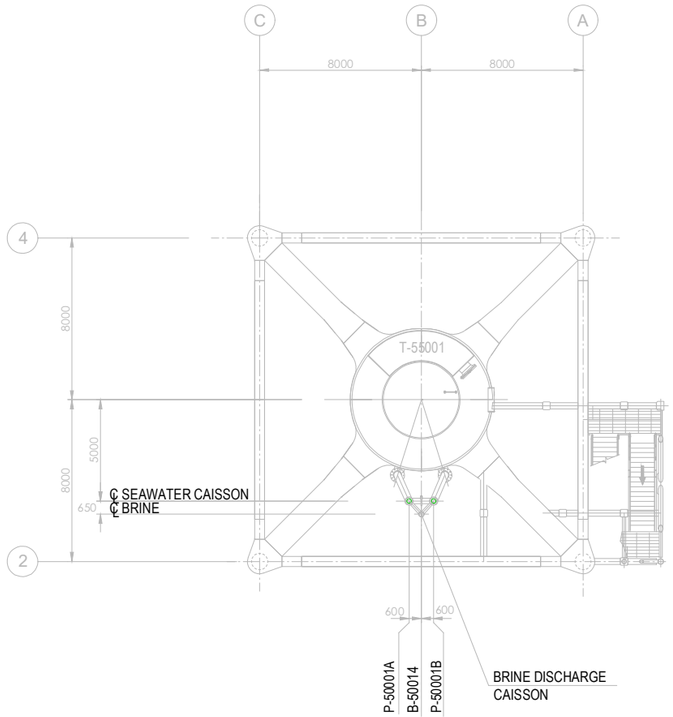
1	Check that the equipment certification is complete and that the nameplate data is correct.	Note
2	Check that the equipment "Tag Number" is correct.	Note
3	Check that the location is correct.	Note
4	Check that the mounting arrangements are correct.	Note
	THE FOLLOWING EQUIPMENT SHALL BE CHECKED IN ACCORDANCE WITH MARKED UP LAYOUT DRAWING	
5	Lifebuoys.	Note
6	Smoke and Light units (for man overboard).	Note
7	Lifejackets.	Note
8	Survival suits.	Note
9	If required produce Red Line Mark Up for "AS BUILT"	

Comments: NOTE: all equipment will be installed in offshore phase.

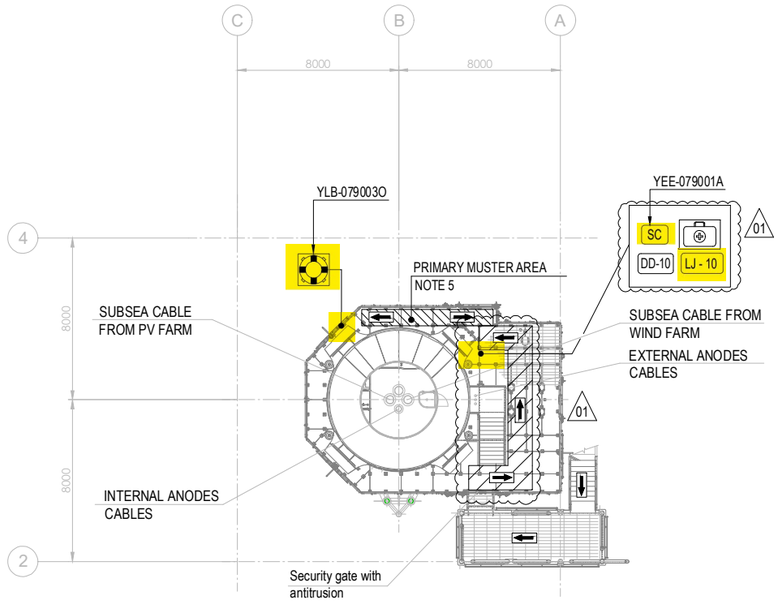
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM CONSTRUCTION	RM (ROSETTI MARINO)	
Name	Gianluca De Maglie	Giovanni Tangianu	
Date	2025-04-24	2025-05-07	
Signature	PROVERLIS Digitaly signed by Gianluca De Maglie 2025-04-24T06:51:16.350Z	PROVERLIS Digitaly signed by Giovanni Tangianu 2025-05-07T12:55:24.856Z	

DRAWING NO. 123A90-DDL-SAF-DL-30025

REV. 01

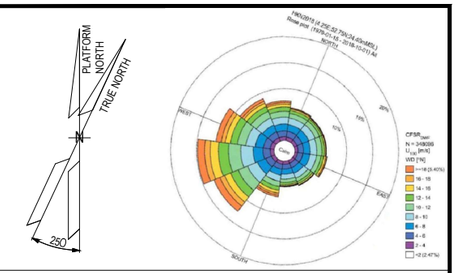


PLAN ON TRANSITION PIECE
EL+21.710 T.O.S.



PLAN ON EXISTING PLATFORM AT
EL+16.860 T.O.S.

SYMBOL	DESCRIPTION
	LIFE BUOY(FITTED WITH LIGHT, SMOKE SIGNAL & LIFELINE)
	FIRST AID KIT
	01
LJ-XX	LIFE JACKET (INSIDE CABINET)
SC	SAFETY CABINET
DD	DESCENT DEVICE 01



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PRIMARY ESCAPE ROUTES SHALL BE MINIMUM 1.2m WIDTH AND 2.3m HEIGHT.
4. SECONDARY ESCAPE ROUTES SHALL BE MINIMUM 0.8m WIDTH AND 2.3m HEIGHT.
5. PRIMARY MUSTER AREA SHALL BE SIZED IN ORDER TO PROVIDE SUFFICIENT SPACE FOR THE MAXIMUM POB OF 10 ON THE PLATFORM, CONSIDERING AS MINIMUM 0.8 m^2 PER PERSON.
6. THE EVACUATION PHILOSOPHY IS AS FOLLOW:
   - PRIMARY MEANS OF EVACUATION - VIA PRIMARY MUSTER AREA,LOCATED AT PLATFORM ON TRANSITION PIECE THEN TO CREW TRANSFER VESSEL.
   - SECONADRY MEANS OF EVACUATION - VIA SECONDARY MUSTER AREA, LOCATED AT THE NORTH-EAST CORNER OF THE LOWER DECK, THEN TO LIFERAFTS.
7. ESCAPE MASKS, ELECTRICAL SAFETY KIT, RESUSCITATION UNIT, IMMERSION SUITS, LIFE JACKET AND FIRST AID KID TO BE LOCATED IN WEATHERPROOF CABINETS, AT STRATEGIC POSITIONS.
8. EACH LIFERAFT TO BE SIZED FOR MAXIMUM POB OF 10 PERSONS.
9. 2 NOS. OF PORTABLE CO2 EXTINGUISHERS TO BE LOCATED IN EACH ROOM (ITER, HV & LV ROOMS AND UPS ROOM).
10. EYEWASH BOTTLES TO BE PORTABLE AND CARRIED BY OPERATORS ONLY DURING MAINTENACE PERIOD.
11. ALL PORTABLE EXTINGUISHERS LOCATED IN OPEN AREA WILL BE EQUIPPED WITH A WEATHERPROOF CABINET.
12. LIFE RAFT ACCESS WILL BE GUARANTED BY MEANS OF DESCENT DEVICE.

01

LEGEND

PRIMARY ESCAPE ROUTE

SECONDARY ESCAPE ROUTE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
0	31/01/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
ESCAPE ROUTES, FIRE FIGHTING, LIFE SAVING EQUIPMENT AND SAFETY EQUIPMENT LAYOUTS DRAWINGS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 10/07/24
A1	DRAWING NO. 123A90-DDL-SAF-DL-30025	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30025 Rev.01

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

LIFEBUOY

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/14/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 01

SHEET 001

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES

1. Marking: LIFEBUOY
2. Colour: Green RAL6002
3. Tag number:

YLB-079003A
YLB-079003B
YLB-079003C
YLB-079003D
YLB-079003E
YLB-079003F
YLB-079003G
YLB-079003H
YLB-079003I
YLB-079003N
YLB-079003M
YLB-079003L
YLB-079003O

Dräger

CROSSWIND ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING

LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

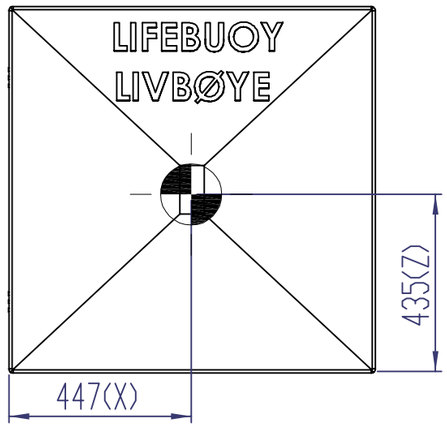
SCALE : NTS

A3	DRAWING NO. 01	SHEET 002	REV. 04

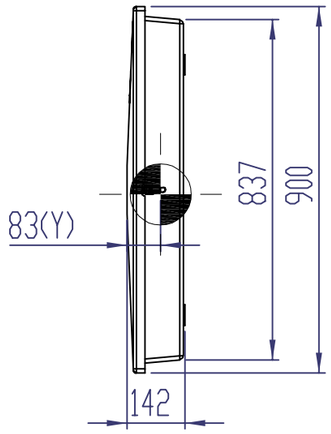
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

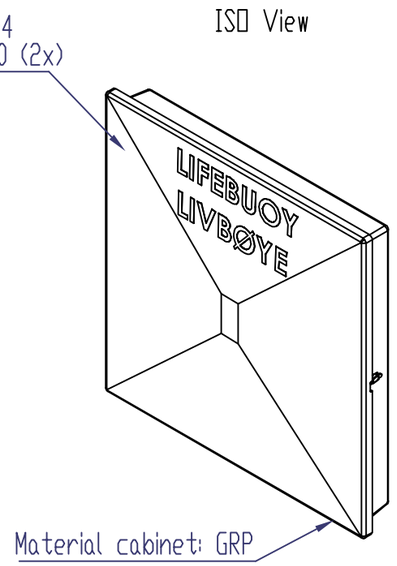
FRONT VIEW



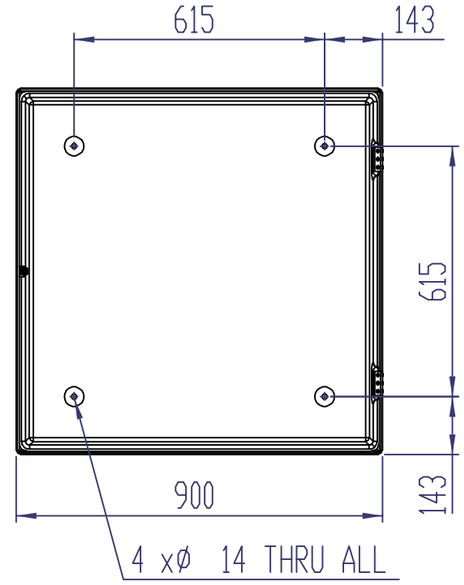
SIDE VIEW



ISO View

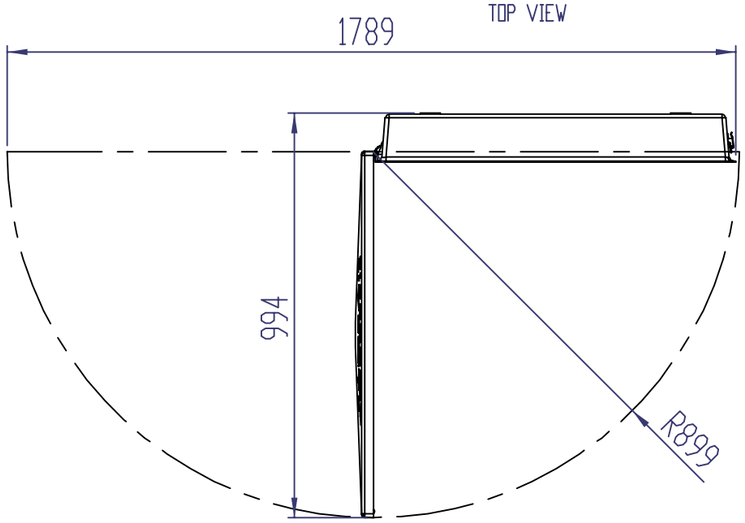


MOUNTING VIEW



Wall mount bolt pattern

TOP VIEW



Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-447 / Y-83 / Z-435 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFEBUOY

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 01

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

LIFE SAVING EQUIPMENT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 02

SHEET 001

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES

1. Marking: LIFE SAVING EQUIPMENT
2. Colour: RED RAL3000
3. Tag number: YEE-079001 A

Dräger

CROSSWIND ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 02

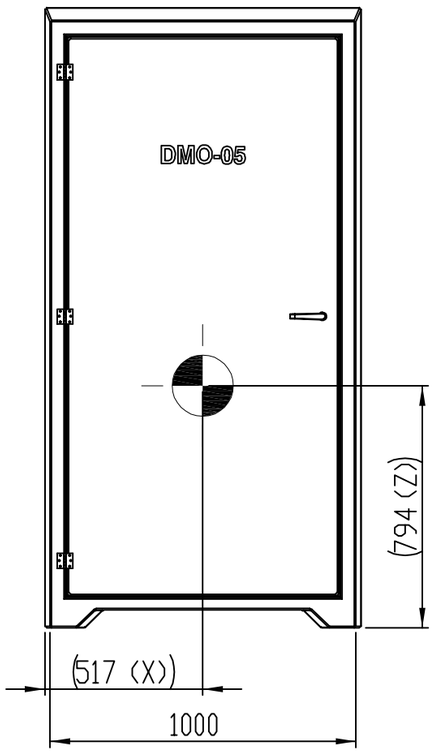
SHEET 002

REV. 04

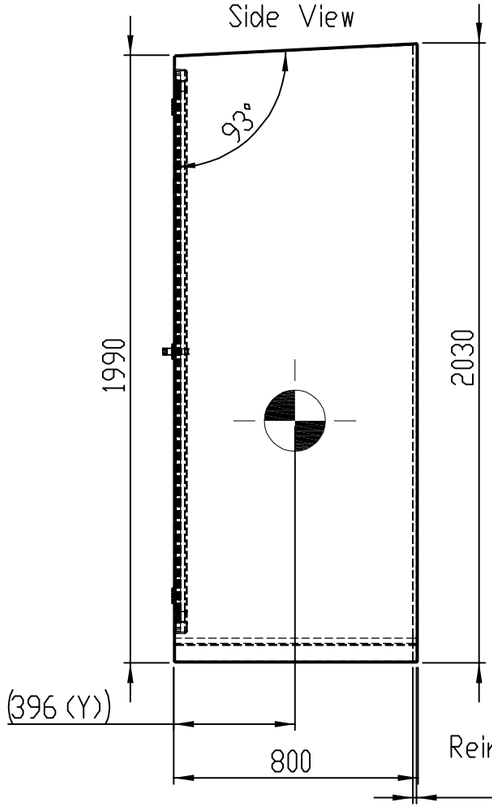
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

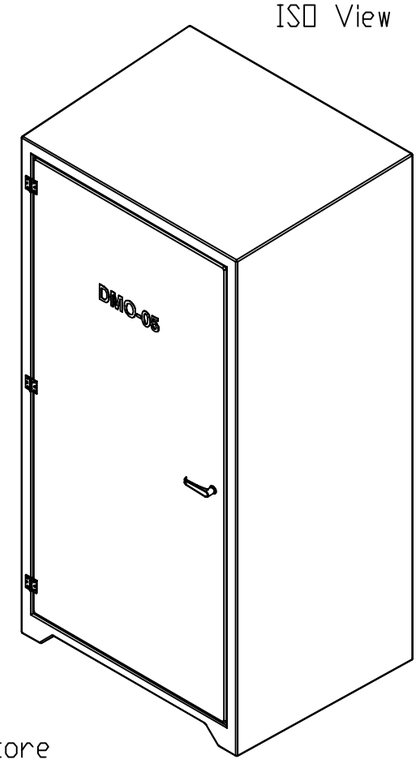
Front View



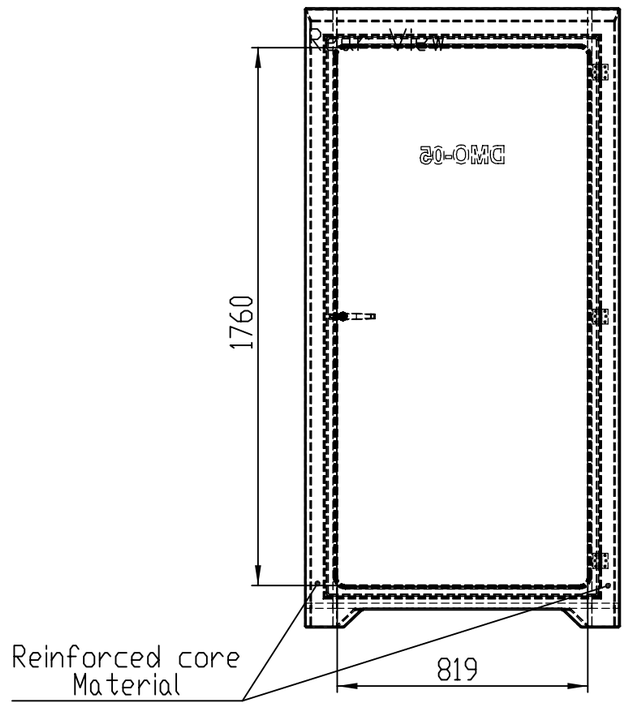
Side View



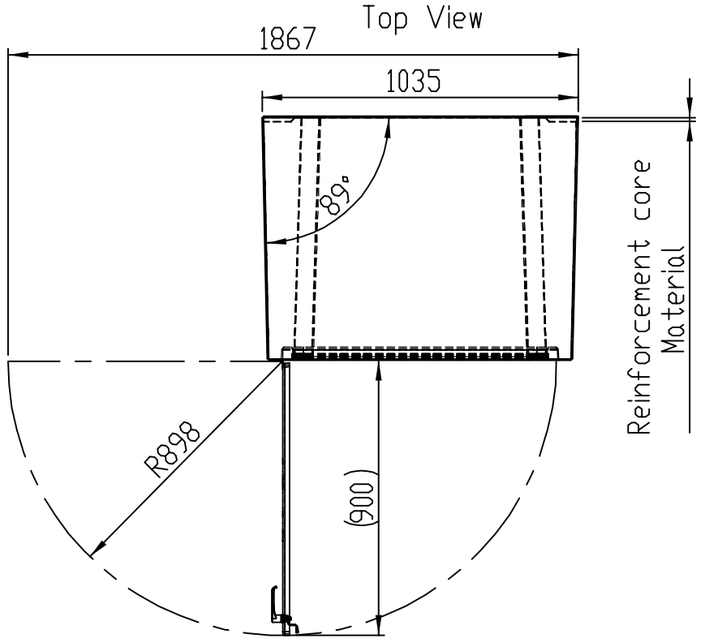
ISO View

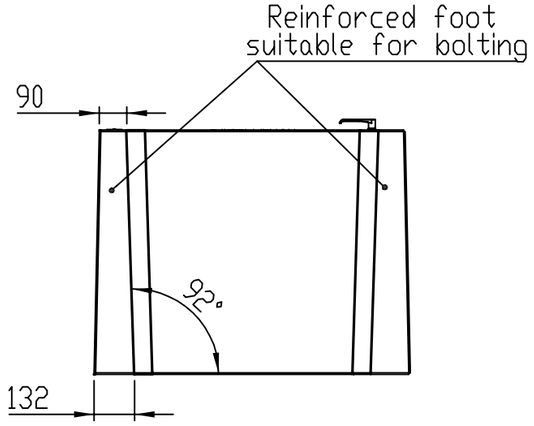


Rear View



Top View





Footprint

Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-517 / Y-396 / Z-794 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 02

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

4 LIFEBUOY

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

survitec

PERRYBUOY LIFEBUOY

4 and 2.5KG solution



Lifebuoy marking is mandatory for ships, with options to label them with the vessel's name and port of registry using 2" self-adhesive black letters or a transfer. The Perrybuoy, fitted with MED approved high-intensity retro reflective tape and a 10mm high-density polyethylene grabline, ensures visibility and durability even in harsh conditions.

BENEFITS:

- ✓ The 30-inch, 4 kg, and 2.5 kg Orange Perrybuoys are MED approved
- ✓ The 4 kg Orange Perrybuoy meets the weight requirement to deploy the Man Overboard smoke and light unit from its bracket on the bridge wing of a vessel
- ✓ The 30-inch, 4 kg Orange Perrybuoy is suitable for use at sea or on land
- ✓ The 30-inch, 2.5 kg Orange Perrybuoy is suitable for use in any area of the ship except the bridge wing, and for land-based applications



"Durable grabline solution even for the most hazardous marine environments"

TRUSTED TO
PROTECT LIVES

PERRYBUOY LIFEBUOY

TECHNICAL DATA

PERRYBUOY LIFEBUOY	
Maximum Installation Height	60m
Outer Diameter	751 mm +/-2%
Inner Diameter	450 mm +/-2%
Reflective Tape	Yes
Elliptical Section	Major Axis 150 +/- 7 mm Minor Axis 99 +/- 7 mm

APPROVALS & ACCREDITATIONS

✓ Approved in compliance with MED

ORDERING INFORMATION

Code	Product Name
751017	30” inch 2.5 kg Perrybuoy
751027	30” inch 4 kg Perrybuoy

ACCESSORIES

Code	Product Name
FLL170C	L170 Lifebuoy Light SOLAS/MED/USCG App
908006	Crewsaver Hamble Horseshoe Buoy Set
902917	Galvanised Y Bracket
7000770	Perryline 30m 8mm Line SOLAS for Vessel Use
606208	Floating Lifeline 30m
900790	Man Overboard MK9 PW

survitec
SURVIVAL TECHNOLOGY

GET IN TOUCH
Email info@survitecgroup.com
Survitec House, Lederle Lane, Gosport, Hampshire, United Kingdom, PO13 0FZ
www.survitecgroup.com

© Copyright Survitec Group 2022

Comet

WESCOM
Signal & Rescue



Light and Smoke Signal

Art No. 9181600

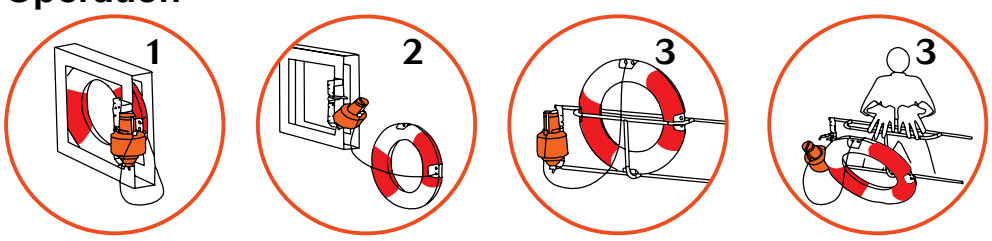
The Light and Smoke Lifebuoy Marker produces dense orange smoke for 15 minutes and features two self contained, inversion switched, LED lights which far exceed SOLAS requirements for output and duration.
Ships are required to carry 2 markers, one mounted on each bridge wing with the brackets supplied and attached by line to a 4kg Lifebuoy. The signal is used to mark the position of a man overboard by day or night. It can be automatically deployed by releasing the attached lifebuoy, or manually activated.

The Comet Smoke Signal Art. No 9181700 is identical, except that it does not feature the lighting system, so is an orange smoke daytime marker only.

Application

- Day and night signal attached to 4kg lifebuoy and used in an emergency to mark the position of man overboard.
- Provides 15 minutes of dense orange smoke.
- Far exceeds SOLAS requirements of 2 hours at 2 candela for light output and duration.
- Safe to use on petrol or oil covered water.
- Lithium batteries sealed for life - no annual replacement.
- Screw fit, inversion switched, LED light units.
- Automatic or manual deployment.
- Universal stainless steel mounting bracket. Usually mounted on a ships bridge wing
- Approved mounting height: 56m - but manufacturer tested to survive 100m drop into water. (SOLAS only requires 30m).
- Ideal for use on ships or rigs with high freeboard.

Operation



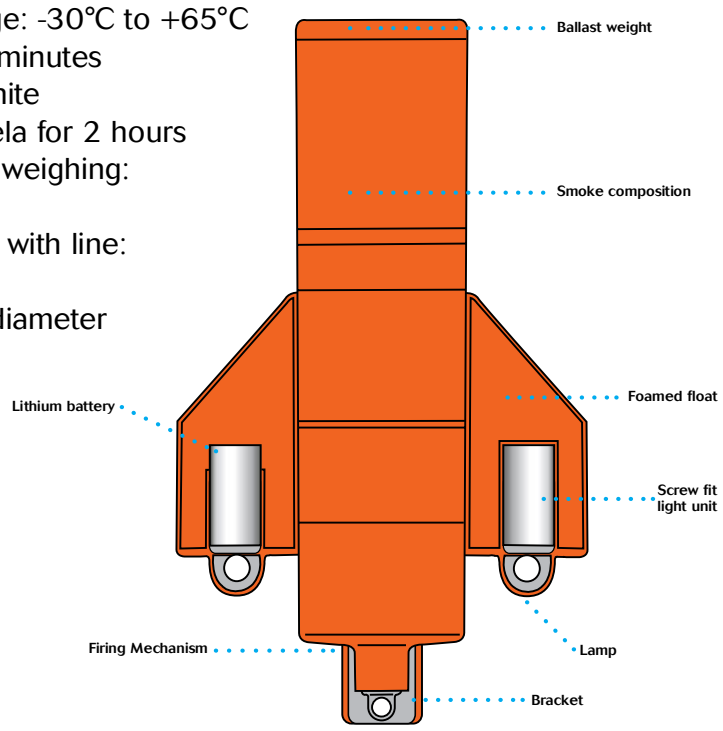
1. Signal and Lifebuoy mounted on bridge wing in ready to fire position.
2. Release locking pin and lifebuoy falls, automatically deploying marker.
3. Alternatively, manually throw lifebuoy overboard.

Packing & Transport Information

- 2 x signals in 1 fibreboard box
- Max. Gross Weight: 9.5 kg (20.94 lb.) per box
- Max. Net Weight: 7.7 kg (17 lb.)
- Measurements of fibreboard box: 36 x 27 x 40 cm (14.2 x 10.6 x 15.8 in)
- Max. Net Explosive Content per box: 2.574kg (5.67 lb.)
- Hazard class 1.4S UN 0507
- Proper shipping name: Signals, Smoke
- Other information: Passenger and cargo aircraft

Specifications

- Height: 375mm (14.76 in)
- Diameter: 183mm (7.20 in)
- Weight: 3.3kg (7.27 lb.)
- Weight – including bracket and angles: 3.85kg (8.5 lb.)
- Net Explosive Content: 1.287kg (2.84 lb.)
- Lamps (bulbs): 2 x 3.6v 2.0A
- Temperature range: -30°C to +65°C
- Burning time: 15 minutes
- Colour of light: white
- Duration: 2 candela for 2 hours
- Use with lifebuoy weighing: 4.0kg (8.82 lb.)
- Attach to lifebuoy with line: 4m (13ft) long, 9.5mm (0.37 in) diameter



Storage

This compact unit is ideally stored in good magazine conditions in an upright position, mounted to its stainless steel bracket in our original packaging. Onboard vessel: Two units are normally required to be carried. Mounted inverted and attached to a Lifebuoy. Usually positioned on each bridge wing and need a clear, uninterrupted drop into the water.

Approvals

Conforms to SOLAS 74 as amended. IMO Resolution MSC 81 (70) part 1. MED: Light & Smoke Signal - BGV 422.012, Smoke Signal - BGV 422.011. BAM-P1-0596, 0589-P1-0619.



WARNING

- Produces dense orange smoke - do not inhale.
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date

DISPOSAL

- Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations. For help and advice, visit our website **www.comet-marine.com**

Throwing line 30 mtr with quoit

Productcode: 230270

Orange floating throwing line 30mtr with attached floating quoit.



GRP storage cabinet: DMO-131

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.

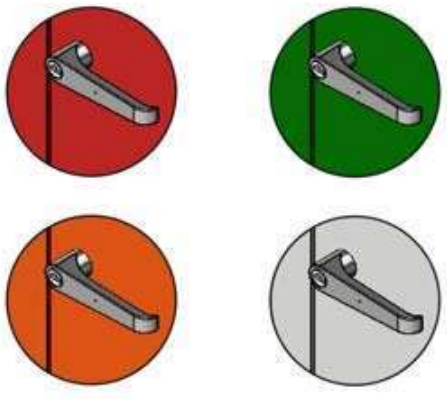


Room to store
- 2.5 kgs or 4.5 kgs lifebuoy
- throwing line
- safety light

Optional
- lettering

TECHNICAL SPECIFICATIONS

Dimensions	125 x 900 x 900 mm (DxWxH)
Aperture dimensions	125 x 900 x 900 mm (DxWxH)
Angle of door opening	100°
Weight	27,5 kgs
Material	GRP
Color	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP55
Door catch	Stainless steel
Door handle	SS 316
Hinges	SS 316
Seal	Neoprene
Reinforcement	Core material
Lettering	White
Approvals	TÜV



GRP storage cabinet: DMO-131
To store lifebuoy

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

6 SAFETY CABINET 1

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-05

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



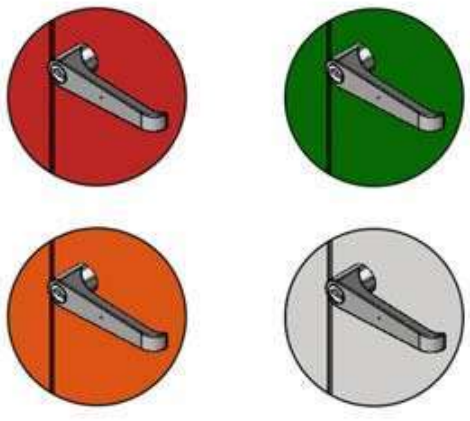
Features

Room to store
- Fireman's equipment (2 complete sets incl. SCBA)
- Fireman's clothing (4 sets)
- Survival suits (up to 20 pcs depending on size)
- Life jackets (up to 35 pcs depending on type)
- Emergency response team equipment
- Helideck crash equipment (incl. ladder & grab hook)

Options
- Shelves / bulkhead / clothing bar
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lighting (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	1035 x 800 x 2030 (WxDxH)
Aperture dimensions	819 x 800 x 1760 mm (WxDxH)
Angle of door opening	90°
Weight	57,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-05
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

GRP storage cabinet: DMO-09

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



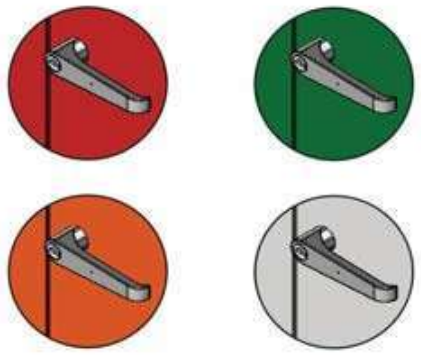
Features

Room to store
- Fire hydrant cabinet (4 hoses / spray nozzles / spanners)
- Survival suits (up to 20 pcs depending on type)
- Lifejackets (up to 30 pcs depending on type)
- Fireman's clothing (4 sets folded)
- SCBA storage (2 sets + spare cylinder)
- Chemical protection equipment
- Electrical safety kit
- Fall protection equipment / descent units (donut type)

Options
- Shelves
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	821 x 600 x 1277 mm (WxDxH)
Aperture dimensions	647 x 600 x 1039 mm (WxDxH)
Angle of door opening	90°
Weight	30 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-09
IP56 rated and Lloyds ertified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

	Rev	Item	Required	Comment
			GENERAL DATA	
1		**EQUIPMENT TYPE**	**LIFE JACKET**	
2		**TAG**	YEE-079003 A uo to V	
2		**QUANTITY**	20	
3		**STANDARDS**	Chapter 2.2 and 2.3 of the IMO Life-Saving Appliance (LSA) Code	
3		**APPROVAL/CERTIFICATE**	IMO/LSA	
4		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032	
5		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26	
OPERATING CONDITIONS				
9		**LOCATIONS**	Outdoor, as per ref. Drawing	
10		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT	
11		**TEMPERATURE**	from -10°C to 30°C	
12		**HUMIDITY**		
TECHNICAL DATA				
13		**TYPE**	Self-buoyant type	
14				
15		**BUOYANT MATERIAL**	Inherently buoyant material	
16		**COLOR**	Orange	
17		**SIZE**	Adult	
18		**WEIGHT**	By Vendor	
19		**Whistle lanyard**	yes	
20		**Reflective strips**	yes	
21		**Automatically actuated light**	yes	
22		**Lifting brackets**	yes	
23		**Water actuation battery**	yes	
24				
25				

NOTES

Each lifejacket shall be marked with the associated tag number

	Rev	Item	Required	
1		**GENERAL DATA**		
2		**EQUIPMENT TYPE**	**LIFE BUOY AND CABINET**	
3		**TAG**	Life buoy: YLB-079003 A/B/C/D/E/F/G/H/I/L/M/N/O	
4		**MAIN ITEM**	Lifebuoys	
5		**QUANTITY**	13 water activated light and smoke marker	
6		**STANDARDS**	Chapter 2.1 of the IMO Life-Saving Appliance (LSA) Code	
7		**APPROVAL/CERTIFICATE**	IMO/LSA	
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032	
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26	
10		**OPERATING CONDITIONS**		
11		**LOCATIONS**	Outdoor:, as per ref. Drawings	
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT	
13		**TEMPERATURE**	from -10°C to 30°C	
14				
15		**TECHNICAL DATA**		
16		**MATERIAL**	Plastic	
17		**COLOR**	International Orange	
18		**DIMENSION**	outer diameter <= 800 mm; inner diameter >= 400mm	
19		**WEIGHT**	By Vendor	
20		**SELF-IGNITED LIGHT**	lit by an electric battery and inextinguishable in the water	
21		**BUOYANT LIFELINE**	three times longer than the height above sea level (at LAT level) at which the life buoy is posted	
22		**MARKING**	Name of the installation	
23		**CABINET**		
24		**MATERIAL**	stainless steel or other suitable for marine environment	
25		**SUPPORT**	handrail mounting	
26		**PAINTING**	According to 123A90-DDL-MAT-SP-60006	
27		**DIMENSION**	By Vendor	
28		**WEIGHT**	By Vendor	
29		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English	

	Rev	Item	Required	
1			**GENERAL DATA**	
2		**EQUIPMENT TYPE**	**SAFETY CABINET**	
3		**TAG**	YEE-079001 A/B	
4			Each SAFETY cabinet shall be marked with the associated tag number	
5		**QUANTITY**	2	
6		**STANDARDS**	Chapter 2.1 of the IMO Life-Saving Appliance (LSA) Code	
7		**APPROVAL/CERTIFICATE**	IMO/LSA	
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032	
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26	
10			**OPERATING CONDITIONS**	
11		**LOCATIONS**	Outdoor:, as per ref. Drawings	
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT	
13		**TEMPERATURE**	from -10°C to 30°C	
14				
15			**TECHNICAL DATA**	
16		**MATERIAL**	UV resistant GRP or epoxy coated steel, for marine environment	
17		**COLOR**	International RED	
18		**DIMENSION**	By Vendor - To fit with the available space as per attached drawing	
19		**WEIGHT**	By Vendor	
20		**SELF-IGNITED LIGHT**	lit by an electric battery and inextinguishable in the water	
21		**BUOYANT LIFELINE**	three times longer than the height above sea level (at LAT level) at which the life buoy is posted	
22		**MARKING**	Name of the installation	
23			**CABINET**	
24		**MATERIAL**	stainless steel or other suitable for marine environment	
25		**SUPPORT**	handrail mounting	
26		**PAINTING**	According to 123A90-DDL-MAT-SP-60006	
27		**DIMENSION**	By Vendor	
28		**WEIGHT**	By Vendor	
29		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English	

ITEM	Tag	First_Aid_Equipment_LD	: First Aid Equipment Lower Deck			Dwg	123A90-DDL-SAF-DL-30026
	S/Sys	76-50	: Personal Protection			Module	LD
TASK	code	C10004512		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Safety	Form	CYX10		First Aid Equipment

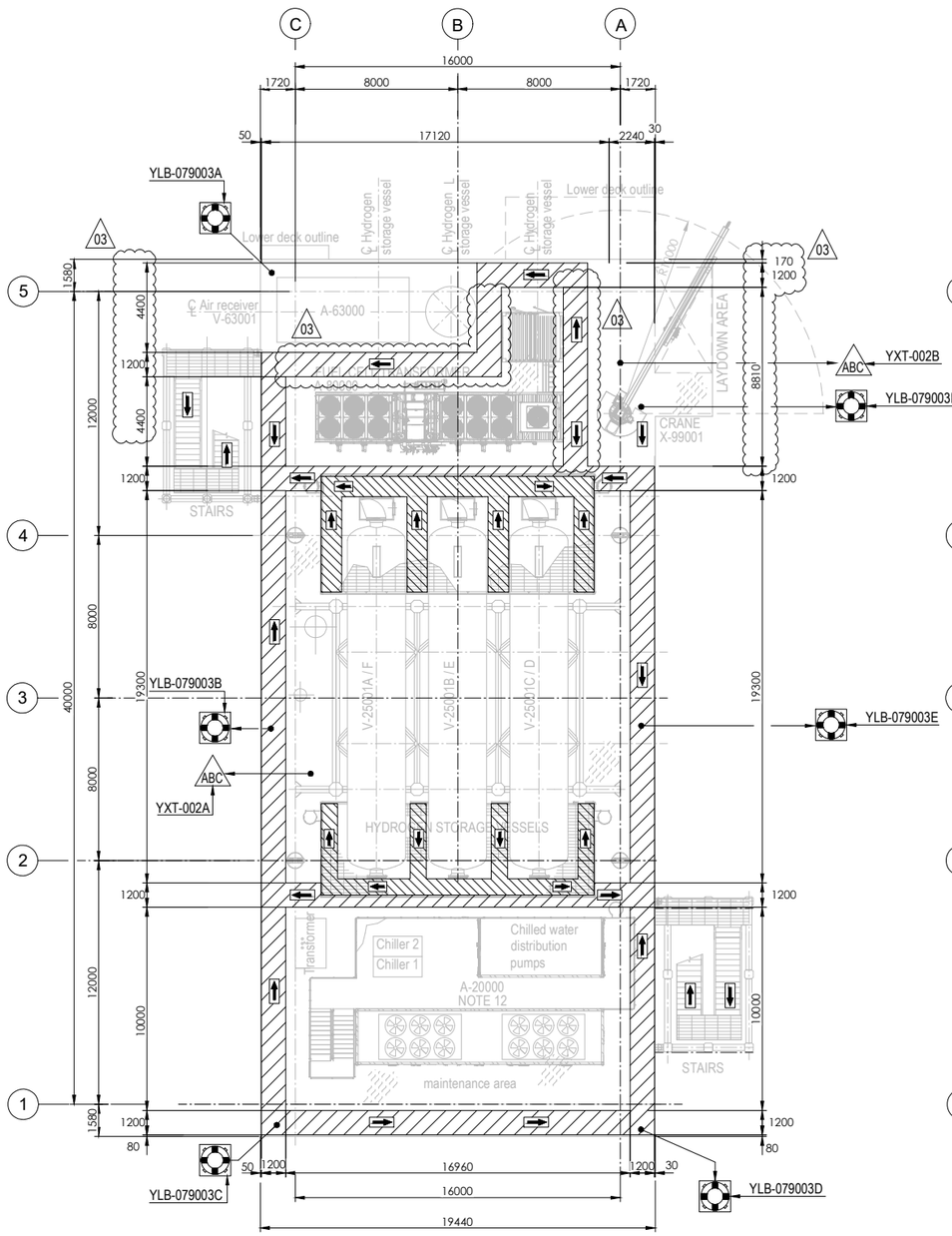
1	Check that certification is complete and that the nameplate details are complete and correct.	OK
2	Check that the equipment "Tag Number" is correct.	OK
3	Check that both the location and the orientation are correct.	OK
4	Check that the mounting arrangements are correct.	OK
5	Check that the pipework supply and drains to the eyewash/ shower unit are installed correctly (where applicable).	NA
	Following equipment to be checked together with including a marked up layout drawing indicating the area checked.	
6	Eye wash container.	OK
7	Eye wash with potable water connected.	OK
8	Eye wash and shower unit.	OK
9	Stretcher.	OK
10	A fixed first-aid cabinet and its contents.	OK
11	Portable first-aid boxes	OK
12	If required produce Red Line Mark Up for "AS BUILT"	

Comments: NOTE: all equipment will be installed in offshore phase.

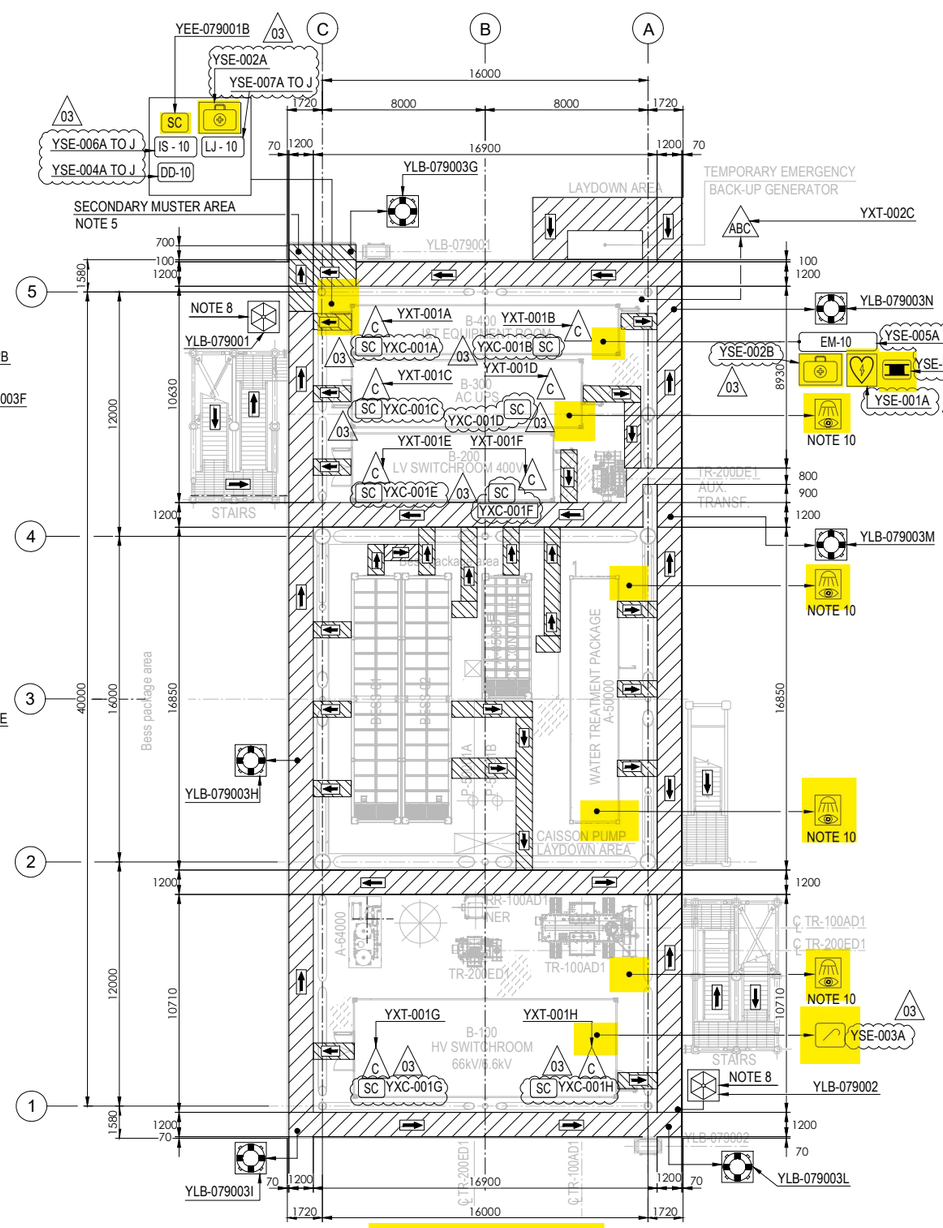
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM CONSTRUCTION	RM (ROSETTI MARINO)	
Name	Gianluca De Maglie	Lorenzo Novaga	
Date	2025-04-24	2025-05-07	
Signature	PROVERLIS Digitaly signed by Gianluca De Maglie 2025-04-24T06:57:45.223Z	PROVERLIS Digitaly signed by Lorenzo Novaga 2025-05-07T12:33:26.399Z	

DRAWING NO. 123A90-DDL-SAF-DL-30025

REV. 03

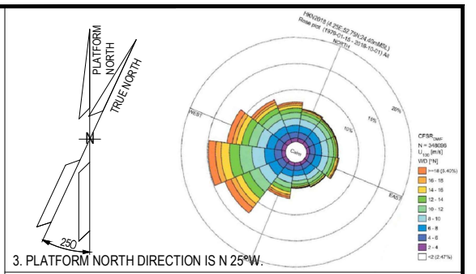


PLAN ON UPPER DECK
EL+30.310 T.O.S.



PLAN ON LOWER DECK
EL+23.310 T.O.S.

SYMBOL	DESCRIPTION	QTY.	SYMBOL	DESCRIPTION	QTY.
	LIFE BUOY(FITTED WITH LIGHT, SMOKE SIGNAL & LIFELINE)	13	EM	ESCAPE MASK NOTE 13	4
	EYE WASH STATION (BOTTLES)	4	IS-XX	IMMERSION SUITS (INSIDE CABINET)	10
	RESUSCITATION UNIT	1	LJ-XX	LIFE JACKET (INSIDE CABINET)	20
	FIRST AID KIT	3		LIFERAFTS	2
	ELECTRIC SAFETY KIT	1	ABC 9 kg	POWDER PORTABLE EXTINGUISHER	3
C	PORTABLE EXTINGUISHER (CO2)	8	SC	SAFETY CABINET	2
DD	DESCENT DEVICE	20		EVACUATION STRETCHER (TO BE LOCATED IN ITER)	1



3. PLATFORM NORTH DIRECTION IS N 25°W.

NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PRIMARY ESCAPE ROUTES SHALL BE MINIMUM 1.2m WIDTH AND 2.3m HEIGHT.
4. SECONDARY ESCAPE ROUTES SHALL BE MINIMUM 0.8m WIDTH AND 2.3m HEIGHT.
5. SECONDARY MUSTER AREA SHALL BE SIZED IN ORDER TO PROVIDE SUFFICIENT SPACE FOR THE MAXIMUM POB OF 10 ON THE PLATFORM, CONSIDERING AS MINIMUM 0.8 m^2 PER PERSON.
6. THE EVACUATION PHILOSOPHY IS AS FOLLOW:
   - PRIMARY MEANS OF EVACUATION - VIA PRIMARY MUSTER AREA,LOCATED AT PLATFORM ON TRANSITION PIECE THEN TO CREW TRANSFER VESSEL.
   - SECONADRY MEANS OF EVACUATION - VIA SECONDARY MUSTER AREA, LOCATED AT THE NORTH-EAST CORNER OF THE LOWER DECK, THEN TO LIFERAFTS.
7. ESCAPE MASKS, ELECTRICAL SAFETY KIT, RESUSCITATION UNIT, IMMERSION SUITS, LIFE JACKET AND FIRST AID KID TO BE LOCATED IN WEATHERPROOF CABINETS, AT STRATEGIC POSITIONS.
8. EACH LIFERAFT TO BE SIZED FOR MAXIMUM POB OF 10 PERSONS.
9. 2 NOS. OF PORTABLE CO2 EXTINGUISHERS TO BE LOCATED IN EACH ROOM (ITER, HV & LV ROOMS AND UPS ROOM).
10. EYEWASH BOTTLES TO BE PORTABLE AND CARRIED BY OPERATORS ONLY DURING MAINTENACE PERIOD.
11. ALL PORTABLE EXTINGUISHERS LOCATED IN OPEN AREA WILL BE EQUIPPED WITH A WEATHERPROOF CABINET.
12. LIFE RAFT ACCESS WILL BE GUARANTED BY MEANS OF DESCENT DEVICE.
13. QUANTITY OF ESCAPE MASK WAS ASSESSED AGAINST THE NUMBER OF EXPECTED RESCUE TEAM (2/3 OPERATORS) THAT COULD NEED TO RESCUE SOMEONE REMAINED TRAPPED INSIDE ANY CONTAINER WHEN A FIRE EMERGENCY SCENARIO IS ONGOING.

LEGEND

PRIMARY ESCAPE ROUTE

SECONDARY ESCAPE ROUTE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70070	PLOT PLAN - LOWER & UPPER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	28/02/25	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
02	01/10/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	31/01/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
ESCAPE ROUTES, FIRE FIGHTING, LIFE SAVING EQUIPMENT AND SAFETY EQUIPMENT LAYOUTS DRAWING

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK			SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 28/02/25
A1	DRAWING NO. 123A90-DDL-SAF-DL-30026	SHEET 001	REV. 03

File Name : 123A90-DDL-SAF-DL-30026 REV.03

5 CABINET LIFE SAVING EQUIPMENT 2

YEE-079001 B

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

LIFE SAVING EQUIPMENT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 03

SHEET 001

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES:

1. Marking: LIFE SAVING EQUIPMENT
2. Colour: RED RAL3000
3. Tag number: YEE-079001 B

Dräger

CROSSWIND ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

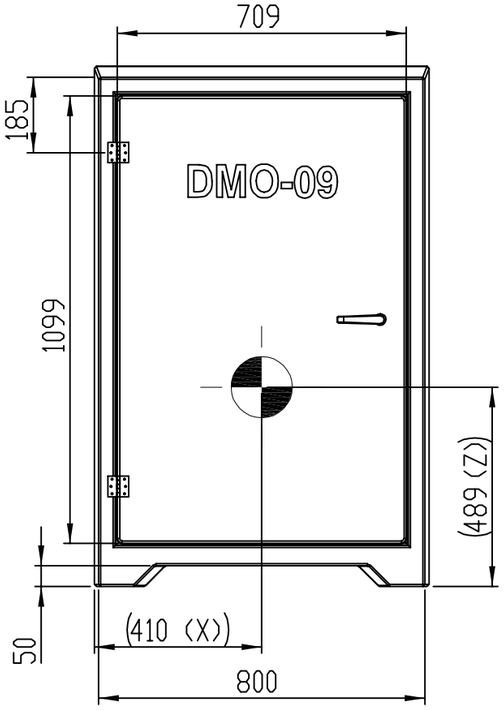
SCALE : NTS

A3	DRAWING NO. 03	SHEET 002	REV. 04

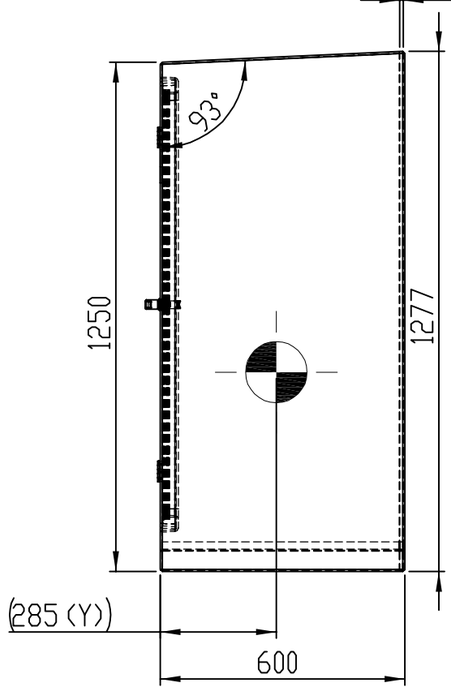
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

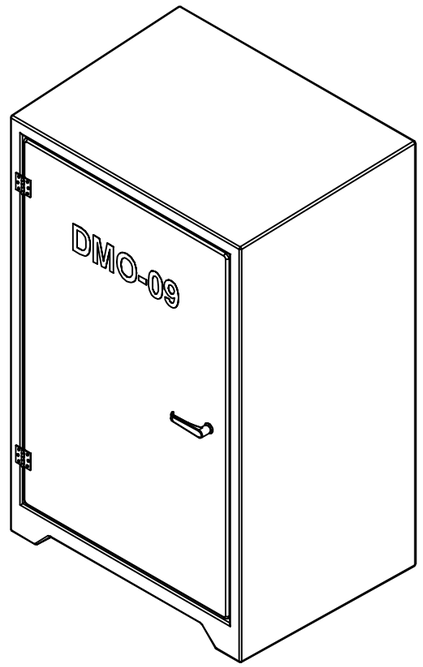
Front View



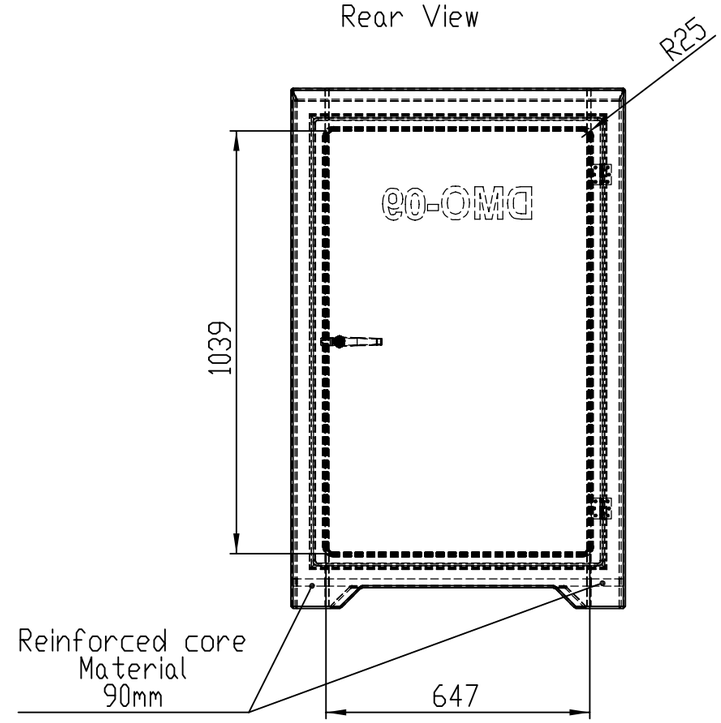
Side View

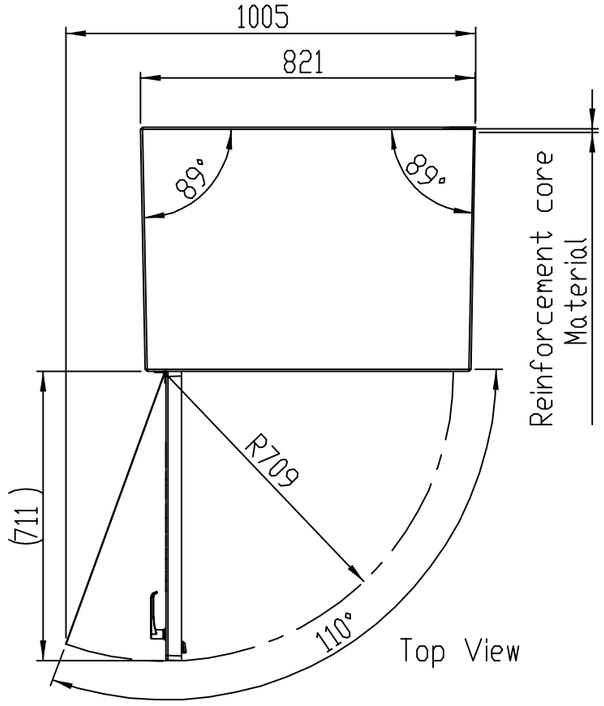


ISO View

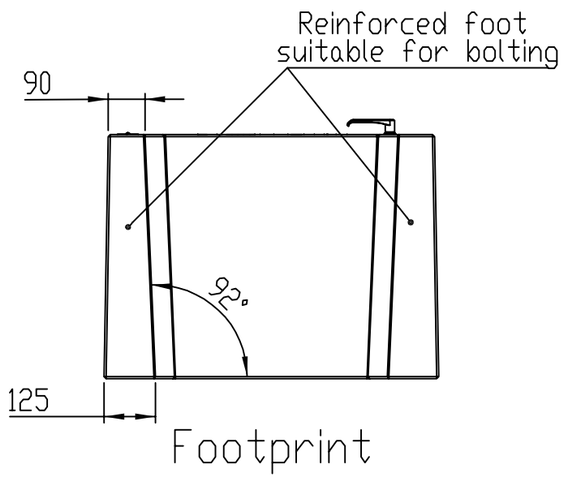


Rear View





Top View



Footprint

Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-410 / Y-285 / Z-489 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 03

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

7 CABINET SAFETY KIT

YSE-079002

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

SAFETY KIT

dxfPDF.BMP

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
SAFETY KIT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3	DRAWING NO. 05	SHEET 001	REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES

1. Marking: SAFETY KIT
2. Colour: Green RAL6002
3. Tag number: YDF-079002

dxfA222.BMP

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
SAFETY KIT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

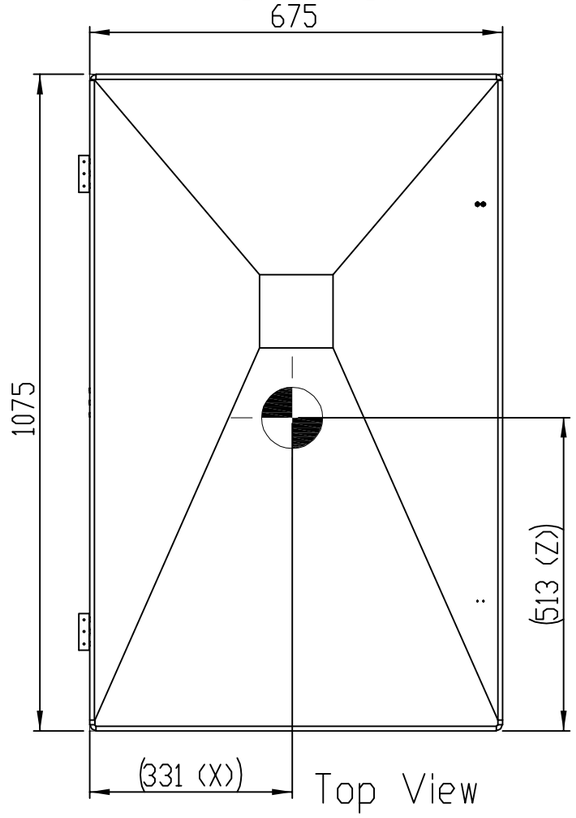
SCALE : NTS

A3	DRAWING NO. 05	SHEET 002	REV. 04

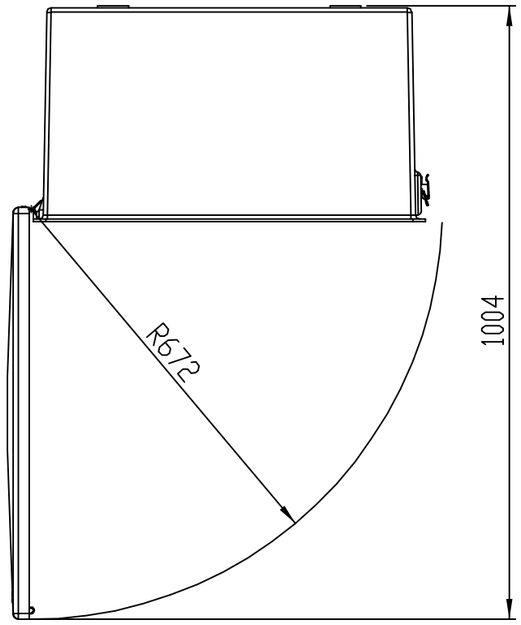
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

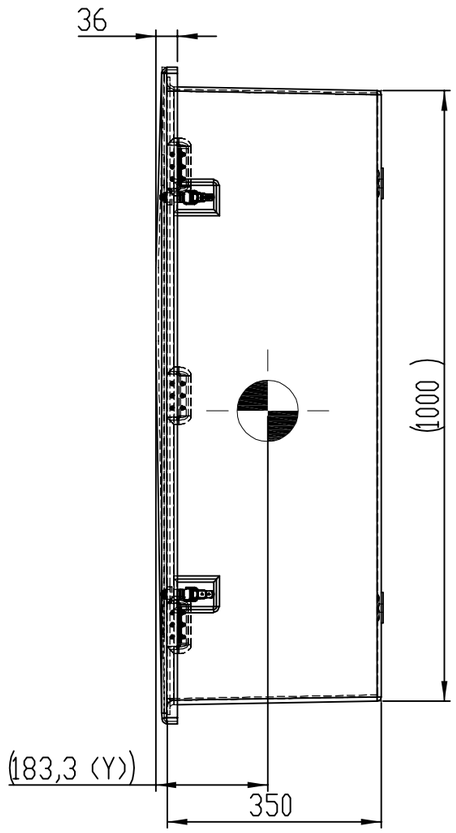
Front View



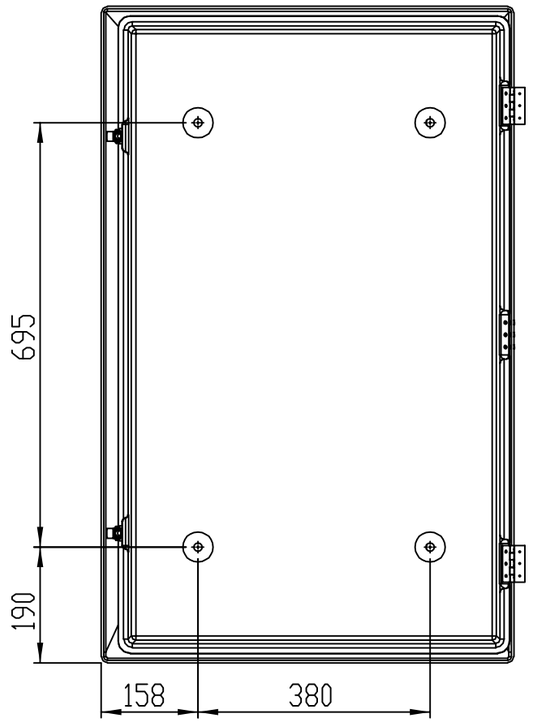
Top View



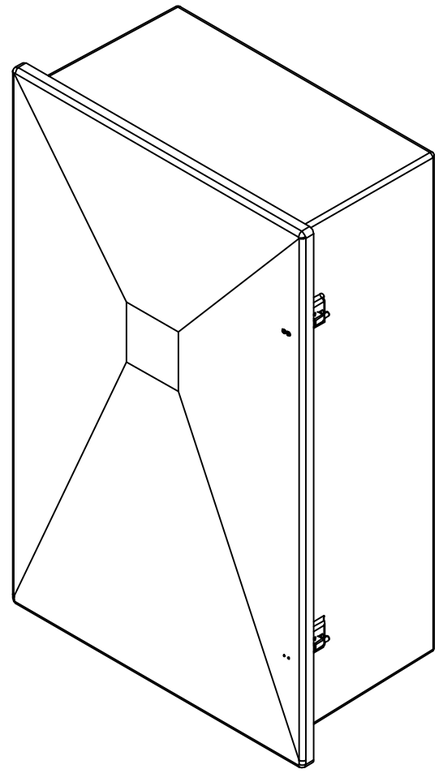
Side View



Mounting View



ISO View



Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-331 / Y-183.3 / Z-513 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
SAFETY KIT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 05

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

dxfA4BLBMP

CROSSWIND ROSETTI MARINO

F.to UNI A3: 420mmx297mm

8 CABINET ESCAPE BREATHING APPARATUS

YEE-079001 C

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

ESCAPE BREATHING APPARATUS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND

ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
ESCAPE BREATHING APPARATUS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 06

SHEET 001

REV. 04

File Name : 172400166O-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES:

1. Marking: ESCAPE BREATHING APPARATUS
2. Colour: GREEN RAL6002
3. Tag number: YEE-079001 C

Dräger

CROSSWIND ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
ESCAPE BREATHING APPARATUS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

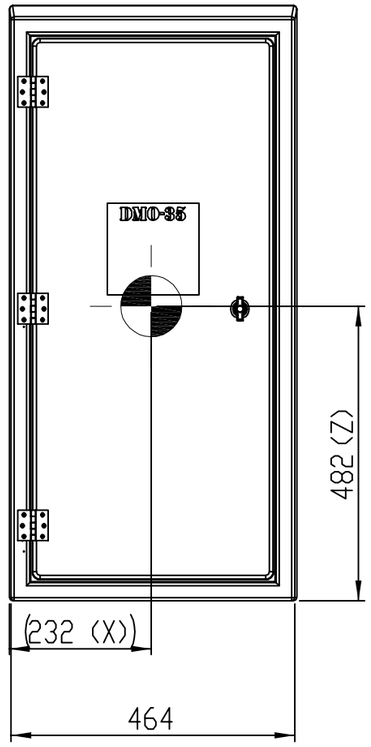
SCALE : NTS

A3	DRAWING NO. 06	SHEET 002	REV. 04

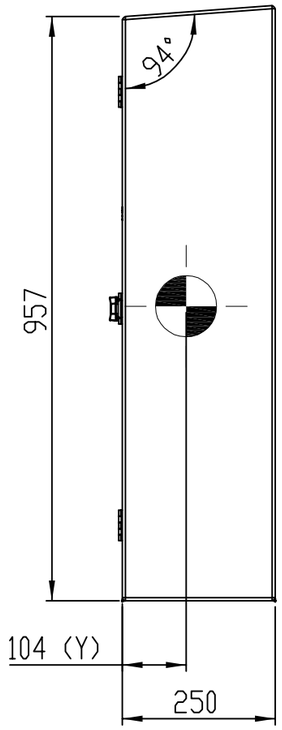
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

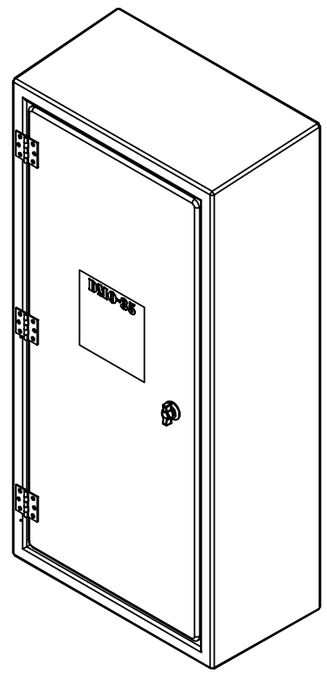
Front View



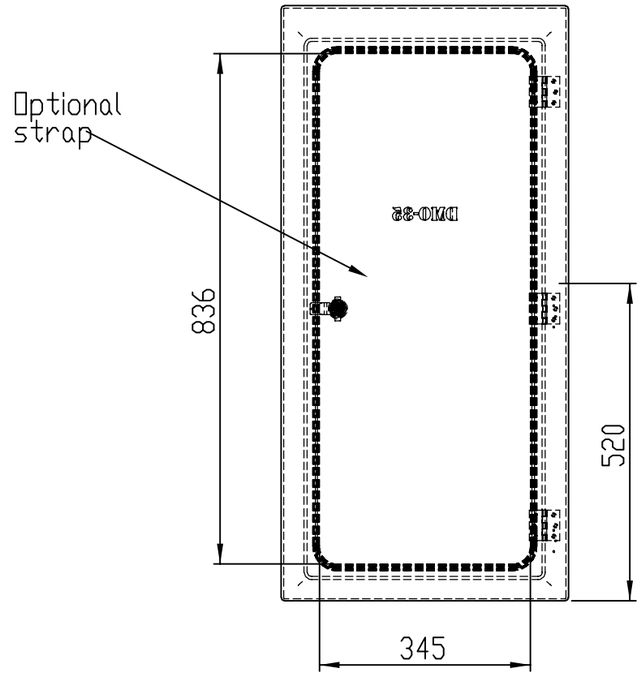
Side View



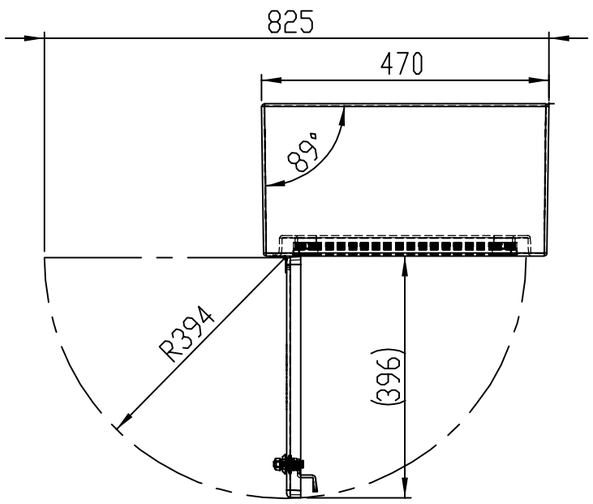
ISO View

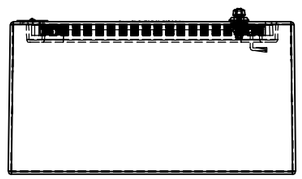


Rear View



Top View





Footprint

Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-232 / Y-104 / Z-482 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
ESCAPE BREATHING APPARATUS

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 06

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

5 FIRST AID KIT

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

SCHEDA TECNICA

Codice/cod.	CAV401
Prodotto:	Contenitore MEDIC 2 Vuoto



Caratteristiche tecniche

Dimensioni:
mm. 395x135x270 mm
peso: Kg 0,50

Descrizione:
Valigetta realizzata in polipropilene antiurto, dotata di supporto per attacco a parete, maniglia per trasporto e chiusura con 2 clip rotanti.

Colori:
CAV412 verde
CAV283 bianca
CAV410 verde crystal cover

6 SAFETY CABINET 1

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-05

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



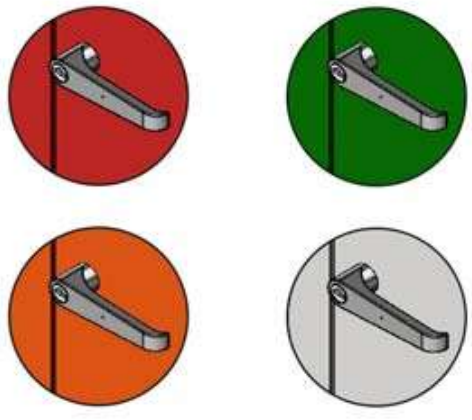
Features

Room to store
- Fireman's equipment (2 complete sets incl. SCBA)
- Fireman's clothing (4 sets)
- Survival suits (up to 20 pcs depending on size)
- Life jackets (up to 35 pcs depending on type)
- Emergency response team equipment
- Helideck crash equipment (incl. ladder & grab hook)

Options
- Shelves / bulkhead / clothing bar
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lighting (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	1035 x 800 x 2030 (WxDxH)
Aperture dimensions	819 x 800 x 1760 mm (WxDxH)
Angle of door opening	90°
Weight	57,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-05
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

7 SAFETY CABINET 2

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-09

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



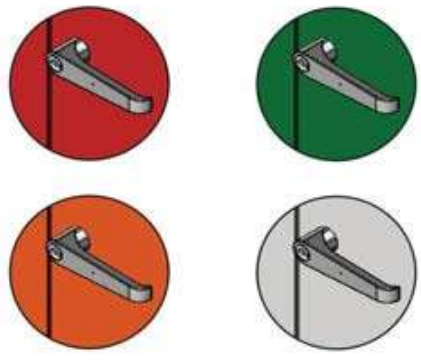
Features

Room to store
- Fire hydrant cabinet (4 hoses / spray nozzles / spanners)
- Survival suits (up to 20 pcs depending on type)
- Lifejackets (up to 30 pcs depending on type)
- Fireman's clothing (4 sets folded)
- SCBA storage (2 sets + spare cylinder)
- Chemical protection equipment
- Electrical safety kit
- Fall protection equipment / descent units (donut type)

Options
- Shelves
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	821 x 600 x 1277 mm (WxDxH)
Aperture dimensions	647 x 600 x 1039 mm (WxDxH)
Angle of door opening	90°
Weight	30 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-09
IP56 rated and Lloyds ertified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

9 RESUSCITATION UNIT & CABINET

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Zoll AED Plus

A cardiac arrest or cardiac fibrillation is always sudden and, at that moment it is necessary to act immediately. Of course, one of the first things one should do is contact professional help. Zoll AED Plus does not only alert you when a transient is needed, also tells you if the heart massage is deep enough and runs at the right motion.



Features

For the victim however, it is of the highest importance that directly first aid is granted. This first aid exists in the base from CPR and rescue breathing: an AED can increase the survival rate of the victim.

Dräger has consciously chosen for the Zoll's AED Plus.

This AED distinguishes itself from other brands

- ignores vibrations and movements of the vessel, making a good analysis
- based on IP55
- makes use of special CPR-D padz; a pressure point mounted to the electrodes , with which the pressure and the pace of the heart massage is controlled
- a good step-by-step-resuscitation guidance with understandable icons and clear voice
- a lifetime of batteries and electrodes of 5 years without maintenance
- the Zoll AED Plus is also the only AED using normal batteries, these are easy to replace and cheap to run the Zoll AED has a standard LCD screen 7 x 3 cm with, optionally, text or ECG-view.

TECHNICAL SPECIFICATIONS

Particle and wateringress	IP-55
Battery life	5 years
Display	LCD display, 70 x 30 mm
Dimensions	133 x 241 x 292 mm
Weight	3.1 kg
Operating temperature	0°C to +50°C
Storage temperature	-30°C to +60°C
Cable length	1.1 m
Recharge time	Less than 10 seconds when using new batteries
Energy level shock	120J-150J-200J
Warranty	7 years
Approvals	UL2601, AAMI DF-39, IEC 601-2-4, EN 60601-1

Dräger Nederland B.V. | Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | Fax +31 (0) 10 295 27 09 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

GRP storage cabinet: DMO-33

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



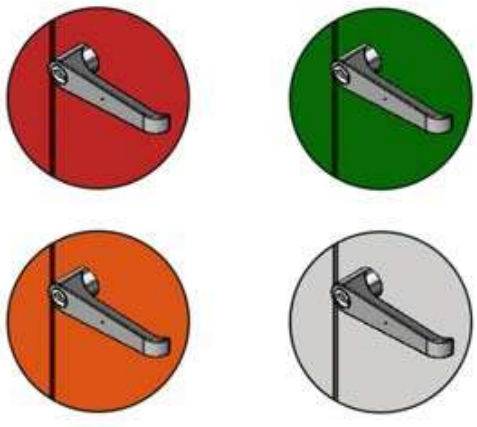
Features

Room to store
- Eyewash bottles
- Safety torches
- Escape masks
- Descent units (donut type)

Options
- Shelve
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	580 x 300 x 595 mm (WxDxH)
Aperture dimensions	439 x 300 x 442 mm (WxDxH)
Angle of door opening	90°
Weight	11 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-33
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

10 ELECTRICAL SAFETY UNIT & CABINET

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Specialized Sign « First Aid »
AM-20-GB



FIELD of USE

Specialized sign for substation.

CHARACTERISTICS

- Blue letters on plain aluminium.
- 4 fixing holes Ø 4,5 mm, distance between centres 338 mm x 238 mm.
- Dimensions: 350 x 250 mm.

CATU S.A. 10 to 20 avenue Jean Jaurès – PO Box 2 – 92 222 BAGNEUX - Cedex FRANCE
Telephone : (33) 1 42 31 46 00 - Fax : (33) 1 42 31 46 31

INSULATING GLOVES
CG-05-*-R to CG-40-*-R



NF EN 60903 2003
CEI 60903 : 2002

(*) Add the size :
A = size 8, B = size 9,
C = size 10, D = size 11



FIELD OF USE

Personal protection against electrical shocks for live working from 500 to 36 000V.
These gloves have to be used with leather overgloves, to ensure a mechanical protection.
The use of thin cotton undergloves is recommended for a better comfort and a good hygiene.

CARACTERISTICS

- **Temperature of use : -25°C to +55°C**
- **In conformity with the IEC 60903 : 2002 , EN 60903 : 2003**
- **Insulating gloves from class 00 (500V) to class 4 (36 000V)**
- **Material : natural latex**
- **AZC or RC Category : resistant to acid, ozone and extremely low temperature or acid, oil, ozone and extremely low temperature**
- **Colour : Red for class 00 and 0, Bi-colour for class 1 to 4 (external Red and internal natural)**
- **This shape will ensure good ergonomics and a good sensitivity.**
- **Gloves marking following IEC 60903**
- **With an Instruction for use**
- **Delivered in individual packaging. This packaging provide a UV protection**

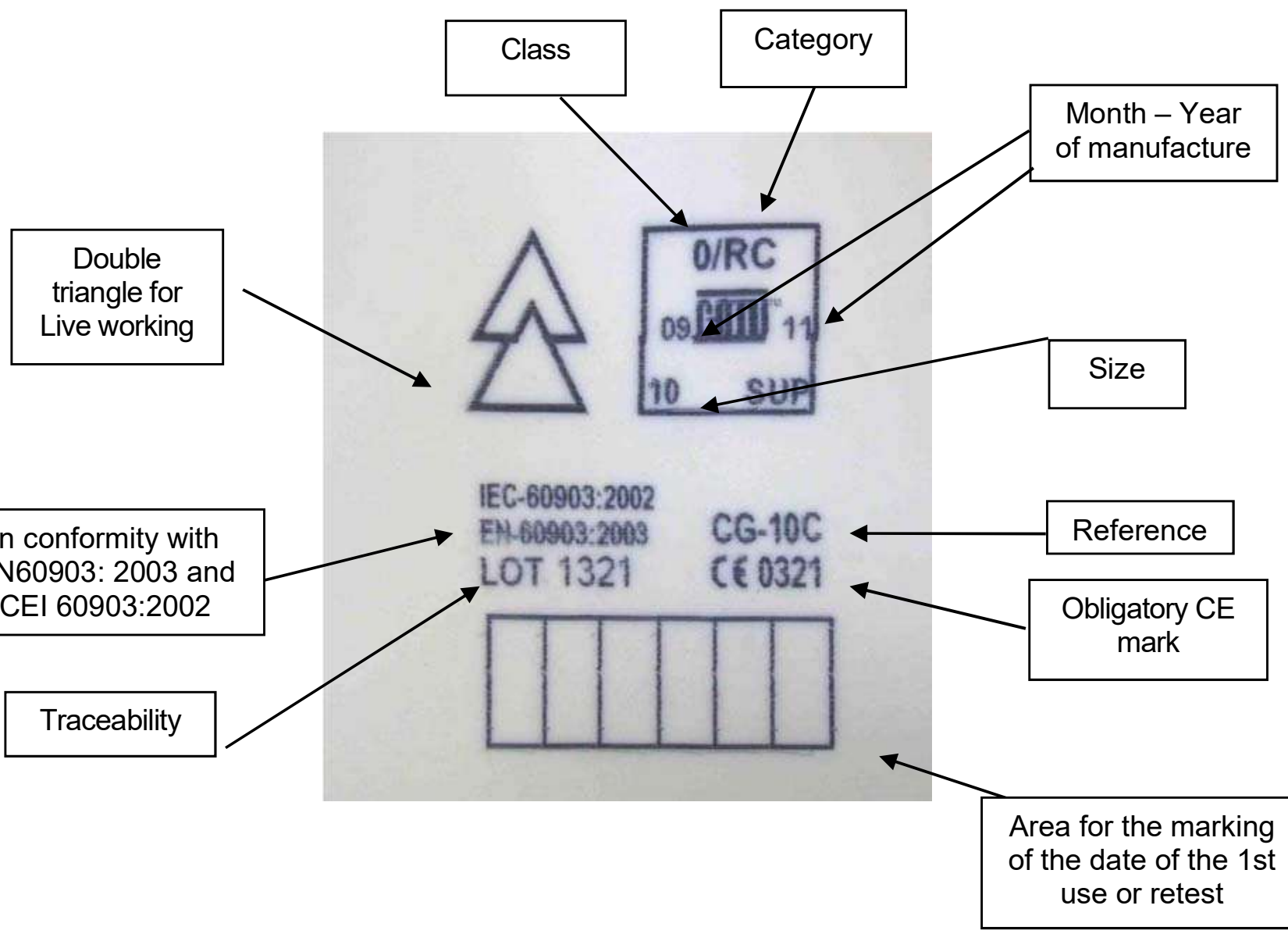
CATU S.A. 10 à 20 avenue Jean Jaurès – B.P.2 – 92 222 BAGNEUX - Cedex FRANCE
Phone : (33) 1 42 31 46 00 - FAX : (33) 1 42 31 46 31

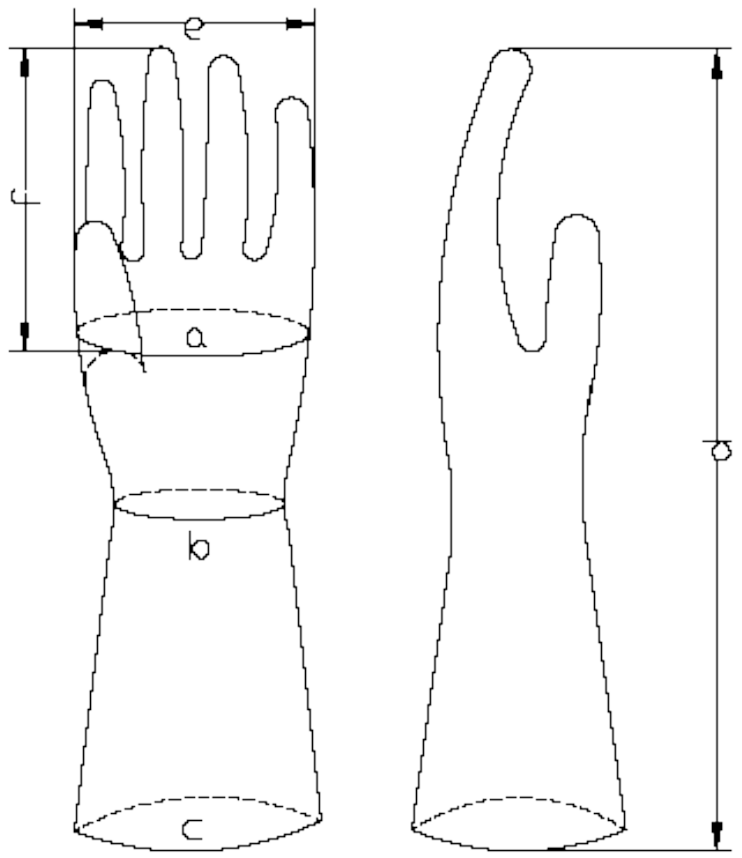
RANGE			Voltage max		Weight
Reference	Class	Category	AC	DC	(g)
CG-05-*-R	00	AZC	500	750	90
CG-10-*-R	0	AZC	1 000	1 500	200
CG-15-*-R	1	AZC	7 500	11 250	270
CG-20-*-R	2	RC	17 000	25 500	450
CG-30-*-R	3	RC	26 500	39 750	560
CG-40-**-R	4	RC	36 000	54 000	800

(*) Add the size : A = Size 8, B = Size 9, C = Size 10, D = Size 11

(**) Add the size : B = Size 9, C = Size 10, D = Size 11

MARKING EXPLANATION :





DIMENSIONS (mm)

Reference	Size	a	d	Thickness max
CG-05-A-R	8	210	360	1.10
CG-05-B-R	9	235	360	1.10
CG-05-C-R	10	255	360	1.10
CG-05-D-R	11	280	360	1.10
CG-10-A-R	8	210	360	1.60
CG-10-B-R	9	235	360	1.60
CG-10-C-R	10	255	360	1.60
CG-10-D-R	11	280	360	1.60
CG-15-A-R	8	210	360	2.10
CG-15-B-R	9	235	360	2.10
CG-15-C-R	10	255	360	2.10
CG-15-D-R	11	280	360	2.10
CG-20-A-R	8	210	360	2.90
CG-20-B-R	9	235	360	2.90
CG-20-C-R	10	255	360	2.90
CG-20-D-R	11	280	360	2.90
CG-30-A-R	8	210	360	3.50
CG-30-B-R	9	235	360	3.50
CG-30-C-R	10	255	360	3.50
CG-30-D-R	11	280	360	3.50
CG-40-C-R	10	255	410	4.20
CG-40-D-R	11	280	410	4.20

CATU S.A. 10 à 20 avenue Jean Jaurès – B.P.2 – 92 222 BAGNEUX - Cedex FRANCE
Phone : (33) 1 42 31 46 00 - FAX : (33) 1 42 31 46 31

RECOMMANDATIONS (annex E CEI 60903)

- **Examination before use: Each time before use, both gloves of a pair should be visually inspected and subjected to a manually applied air test, where practicable. If either glove is thought to be unsafe, the pair should not be used and should be returned for testing.**
- **Storage: Gloves should be stored in their container or package. Care should be taken to ensure that gloves are not compressed, folded or stored in proximity to steam pipes, radiators or other sources of artificial heat or exposed to direct sunlight, artificial light or other source of ozone. It is desirable that the ambient temperature be between 10°C and 21°C.**
- **Periodic inspection: For class 00 and O gloves, a check for air leaks and a visual inspection may be consider adequate. However a routine dielectric test may be performed at the owner's request**
- **Class 1, 2, 3 et 4 : no gloves, not even those held in storage, should be used unless they have been tested within a maximum period of six months The tests consist of air inflation to check for air leaks, a visual inspection while pressurized, and then a routine dielectric test, in accordance with IEC60903.**
- **The date of the 1st use, and the controls dates, have to be marked in the area on the gloves.**

ACCESSORIES (Option)



Cotton under-gloves CG-80



Cotton mittens CG-81



Pneumatic gloves tester CG-117



Gloves box CG-35/2



Over-gloves CG-991
For class 1 to 4



Over-gloves CG-981
for class 00 or 0

CATU S.A. 10 à 20 avenue Jean Jaurès – B.P.2 – 92 222 BAGNEUX - Cedex FRANCE
Phone : (33) 1 42 31 46 00 - FAX : (33) 1 42 31 46 31

TINTED ANTI-UV SAFETY GLASSES MO-11001

EN 166 / EN 172
5-2,5 CATU 1FTKN



Ensure the protection of the sight against the U.V radiations as well as the projections of solid particles during operations on an electrical installation.

TECHNICAL FEATURES

- Material: grey tinted polycarbonate.
- Complies with the EN 166 standard:
  - Optical class 1;
  - Impact resistance level at extreme temperatures: FT (Low impact energy at 45 m/s, at extreme temperatures -5°C to 55°C);
  - Anti-scratch treatment: K;
  - Anti-fogging treatment: N.

WEIGHT

- Approximative weight: 25 g.

COMPOSITION

- Supplied in a soft microfiber pouch.

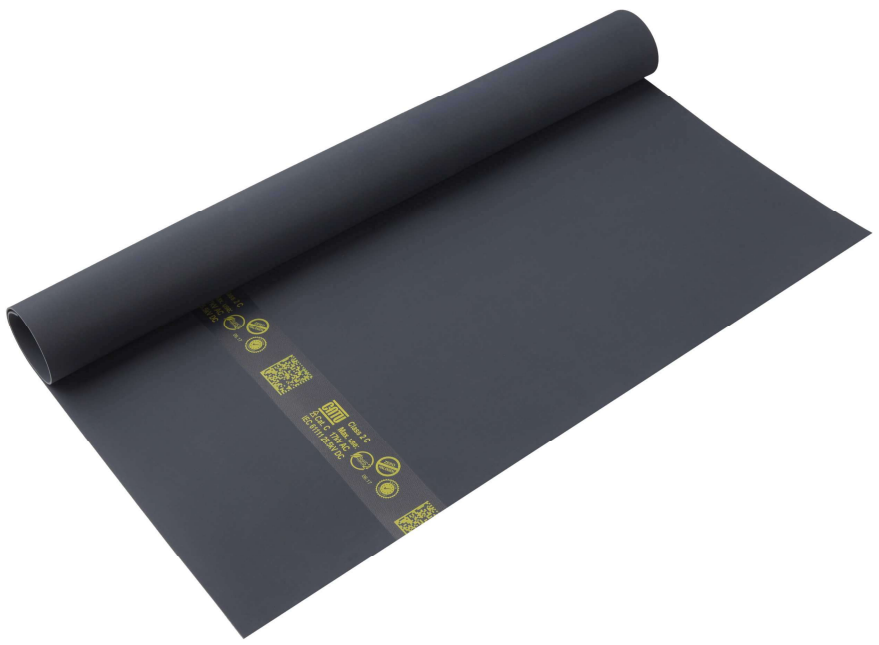
Edition : 11/21 – Technical sheet N° : M0-11001

CATU S.A. 10 à 20 avenue Jean Jaurès • B.P.2 • 92 222 BAGNEUX – Cedex FRANCE
Téléphone : (33) 01 42 31 46 00 • Télécopie : (33) 01 42 31 46 31 • www.catuelec.com

IEC 61111 INSULATING MATS

Series MP-11-20-42-60-100-120

Class 0 – 2 – 3 - 4





Detail of marking

Protective equipment against electric shock.
Electrical insulating mat for use as a floor covering for the electrical protection of workers on electrical installations.
Standard conformity: **IEC 61111. Live Working.**

TECHNICAL CHARACTERISTICS

- All references are in accordance with **IEC 61111 standard** and to specific properties of the “C” Category (extremely low temperature folding test at – 40 °C).
  IEC 61111 standard is the only one international standard concerning insulating mats.
- RoHS2 compliant.
- REACH compliant (SVHC free).
- Zero Halogen.
- 2 D bar code (Datamatrix) on marking with direct link to user guide and technical sheet.
- Insulating mats must be chosen according to the maximum service voltage of the installation.
- High dielectric quality.
- Rubber material with non-slip surfaces on both sides.
- Operating temperature : - 40 to + 55 °C
- Storage temperature : + 10 to + 21 °C
- Repetitive marking (2 markings every 1 m minimum).

Edition : 11/2017 - Technical sheet N° : MP-11-20-42-60-100-120_GB

CATU S.A. 10 to 20 avenue Jean Jaurès • Po.Box 2 • 92 222 BAGNEUX – Cedex FRANCE
Phone : (33) 1 42 31 46 00 • Fax : (33) 1 42 31 46 31 • www.catuelec.com

IEC 61111 INSULATING MATS

Class 0 – 2 – 3 - 4

• RoHS2 compliant. Material free of Lead, Mercury, Cadmium, Hexavalent Chomium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE).	
• REACH compliant. Material free of 163 Substances of Very High Concern (SVHC).	
• Zero Halogen. Material free of Fluoride, Chlorine, Bromine and Iodine. **The absence of halogen is a positive indicator for the safety and health of operators in the event of fire.**	

REFERENCE / DIMENSIONS / WEIGHT / SERVICE VOLTAGE

Reference	IEC 61111	Thickness (mm)	Length x Width (m)	Weight (kg)	Maximum service voltage in kV (1)	
					AC	DC
MP-11/66	Class 0	2,2	0,6 x 0,6	1	1	1,5
MP-11/16			0,6 x 1	1,8		
MP-11/26			0,6 x 1,2	2		
MP-11/11			1 x 1	3		
MP-11/21			1 x 1,2	3,4		
MP-11/22			1,2 x 1,2	4		
MP-60/02-5			0,6 x 5	9		
MP-60/02-10			0,6 x 10	18		
MP-100/02-5			1 x 5	15		
MP-100/02-10			1 x 10	30		
MP-120/02-5			1,2 x 5	17		
MP-120/02-10			1,2 x 10	34		
MP-20/66	Class 2	2,6	0,6 x 0,6	1,5	17	25,5
MP-20/16			0,6 x 1	2,4		
MP-20/26			0,6 x 1,2	2,8		
MP-20/11			1 x 1	3,9		
MP-20/21			1 x 1,2	4,7		
MP-20/22			1,2 x 1,2	5,6		
MP-60/20-5			0,6 x 5	12		
MP-60/20-10			0,6 x 10	24		
MP-100/20-5			1 x 5	19,5		
MP-100/20-10			1 x 10	39		
MP-120/20-5			1,2 x 5	23,5		
MP-120/20-10			1,2 x 10	47		

(1) On multiphase circuits: the nominal voltage is the phase to phase voltage.
On single phase circuit: the nominal voltage is the phase to ground voltage.

CATU S.A. 10 to 20 avenue Jean Jaurès • Po.Box 2 • 92 222 BAGNEUX – Cedex FRANCE
Phone : (33) 1 42 31 46 00 • Fax : (33) 1 42 31 46 31 • www.catuelec.com

IEC 61111 INSULATING MATS

Class 0 – 2 – 3 - 4

Reference	IEC 61111	Thickness (mm)	Length x Width (m)	Weight (kg)	Maximum service voltage in kV (1)	
					AC	DC
MP-42/66	**Class 3**	3,2	0,6 x 0,6	1,8	26,5	39,75
MP-42/16			0,6 x 1	2,9		
MP-42/26			0,6 x 1,2	3,5		
MP-42/11			1 x 1	4,5		
MP-120/03-1			1 x 1,2	5,4		
MP-120/03-2			1,2 x 1,2	6,5		
MP-60/03-5			0,6 x 5	14		
MP-60/03-10			0,6 x 10	28		
MP-100/03-5			1 x 5	22,5		
MP-100/03-10			1 x 10	45		
MP-120/03-5			1,2 x 5	27		
MP-120/03-10			1,2 x 10	54		
MP-60/05-1	Class 4	5	0,6 x 1	4,5	36	54
MP-120/05-0			0,6 x 1,2	5,4		
MP-100/05-1			1 x 1	8,9		
MP-120/05-1			1 x 1,2	10,5		
MP-120/05-2			1,2 x 1,2	12,6		
MP-60/05-5			0,6 x 5	22		
MP-60/05-10			0,6 x 10	45		
MP-100/05-5			1 x 5	44,5		
MP-100/05-10			1 x 10	89		
MP-120/05-5			1,2 x 5	52,5		
MP-120/05-10			1,2 x 10	105		

(1) On multiphase circuits: the nominal voltage is the phase to phase voltage.
On single phase circuit: the nominal voltage is the phase to ground voltage.

STANDARD REFERENCES

- “Live working. Electrical insulating matting”: EN 61111, IEC 61111 standard, "C" Category.
- RoHS2: Directive 2011/65/EU Annex II.
- REACH: SVHC list based on the publication by European Chemicals Agency (ECHA) on 2015 and Regulation (EC) N° 1907/2006 concerning the REACH.
- Zero Halogen: Tests based on EN 14582 guidelines.

IEC 61111 INSULATING MATS

Class 0 – 2 – 3 - 4

OPTIONAL ACCESSORIES

Carrying bag for individual mats up to 0.7 m width.
Reference: MP-01

Carrying bag for individual mats up to 1.1 m width.
Reference: MP-02



Strap “Velcro” type for maintaining the mat in rolled position.
Reference: MO-160







Shoulder strap for maintaining and carrying the mat in rolled position.
Reference: MO-161



CATU S.A. 10 à 20 avenue Jean Jaurès • B.P.2 • 92 222 BAGNEUX - Cedex FRANCE
Téléphone : (33) 01 42 31 46 00 • Télécopie : (33) 01 42 31 46 31 • www.catuelec.com

GRP storage cabinet: DMO-133

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.

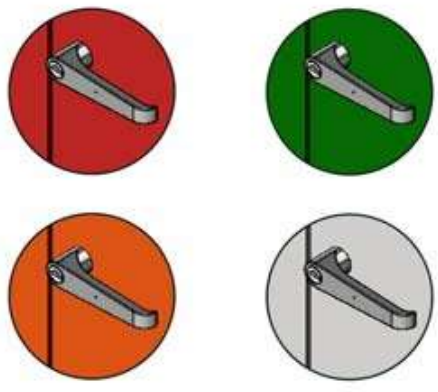


Room to store
- PPE equipment
- electrical rescue kit
- BA set
- fire hoses and nozzles

Optional
- lettering
- shelve
- ventilator

TECHNICAL SPECIFICATIONS

Dimensions	350 x 675 x 1075 mm (DxWxH)
Aperture dimensions	Not available
Angle of door opening	100°
Weight	20 kgs
Material	GRP
Color	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange RAL 2009 Lifesaving White RAL 9010
IP rating	IP55
Door catch	SS316
Door handle	SS316
Hinges	SS316
Seal	Neoprene
Reinforcement	Core material
Lettering	White
Approvals	TÜV



GRP storage cabinet: DMO-133
To store PPE or BA sets

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

	Rev	Item	Required
1		**GENERAL DATA**	
2		**EQUIPMENT TYPE**	**SAFETY CABINET**
3		**TAG**	YEE-079001 A/B
4			Each SAFETY cabinet shall be marked with the associated tag number
5		**QUANTITY**	2
6		**STANDARDS**	Chapter 2.1 of the IMO Life-Saving Appliance (LSA) Code
7		**APPROVAL/CERTIFICATE**	IMO/LSA
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26
10		**OPERATING CONDITIONS**	
11		**LOCATIONS**	Outdoor:, as per ref. Drawings
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT
13		**TEMPERATURE**	from -10°C to 30°C
14			
15		**TECHNICAL DATA**	
16		**MATERIAL**	UV resistant GRP or epoxy coated steel, for marine environment
17		**COLOR**	International RED
18		**DIMENSION**	By Vendor - To fit with the available space as per attached drawing
19		**WEIGHT**	By Vendor
20		**SELF-IGNITED LIGHT**	lit by an electric battery and inextinguishable in the water
21		**BUOYANT LIFELINE**	three times longer than the height above sea level (at LAT level) at which the life buoy is posted
22		**MARKING**	Name of the installation
23		**CABINET**	
24		**MATERIAL**	stainless steel or other suitable for marine environment
25		**SUPPORT**	handrail mounting
26		**PAINTING**	According to 123A90-DDL-MAT-SP-60006
27		**DIMENSION**	By Vendor
28		**WEIGHT**	By Vendor
29		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English

CROSSWIND	HOLLANDSE KUST NOORD WIND PARK Project Contract No. CW-I-WP4-2023-05	ROSETTI MARINO
Document Title:	TDS - FF and Safety Equipment	Sh. 11 of 16 Date: 01/07/24 Rev. 00

	Rev	Item	Required	
1		**GENERAL DATA**		
2		**EQUIPMENT TYPE**	**FIRST AID KIT**	
3		**TAG**	YSE-079001 A/B/C	
4		**MAIN ITEM**	Collection of supplies used to give medical treatment	
5		**QUANTITY**	3	
6		**STANDARDS**	According to Directive and Regulaton BHV and Inland Shipping	
7		**APPROVAL/CERTIFICATE**	-	
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032	
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26	
10		**OPERATING CONDITIONS**		
11		**LOCATIONS**	Indoor:, as per ref. Drawings inside ITER	
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT	
13		**TEMPERATURE**	from -10°C to 30°C	
14				
15		**TECHNICAL DATA**		
16		**MATERIAL**	High Quality ABS Plastic, sturdy and shockproof, waterproof.	
17		**COLOR**	GREEN	
18		**DIMENSION**	By Vendor	
19		**WEIGHT**	By Vendor	
20		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English	
21		**MARKING**	white cross on a green background	
22		**CONTENT DETAIL**		
23		1 pair of heavy-duty scissors (for cutting clothes and dressings)		
24		Non-sterile examination gloves (several sizes)		
25		1 emergency trauma pressure dressing		
26		1 cloth tourniquet		
27		1 bottle of iodine-based disinfectant (BETADINE type)		
28		1 bottle of non-iodine disinfectant (HIBIDINE type)		
29		Several packs of sterile compresses (of 5 or 10)		
30		1 pack of non-sterile compresses (of 50 or 100)		
31		1 roll of adhesive plaster		
32		1 roll of adhesive elastic bandage (cotton – width 5, 10 and 20cm)		
33		Ready-to-use dressings of various sizes		
34		2 triangular cloth slings		
35		1 detailed instructions booklet describing rescue and first aid actions		
36		1 eyewash kit		
37		List of contents		

	Rev	Item	Required
1		**GENERAL DATA**	
2		**EQUIPMENT TYPE**	**RESUSCITATION UNIT**
3		**TAG**	YDF-079001
4		**MAIN ITEM**	1 Automated External Defibrillator + 1 cabinet
5		**QUANTITY**	1
6		**STANDARDS**	According to Directive and Regulaton BHV and Inland Shipping
7		**APPROVAL/CERTIFICATE**	-
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26
10		**OPERATING CONDITIONS**	
11		**LOCATIONS**	Indoor:, as per ref. Drawings inside ITER
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT
13		**TEMPERATURE**	from -10°C to 30°C
14			
15		**TECHNICAL DATA**	
16		**MATERIAL**	UV resistant GRP or epoxy coated steel, for marine environment
17		**COLOR**	By Vendor
18		**DIMENSION**	By Vendor
19		**WEIGHT**	By Vendor
20		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English
21		**MARKING**	YES
22			

	Rev	Item	Required
1		**GENERAL DATA**	
2		**EQUIPMENT TYPE**	**ELECTRICAL SAFETY KIT**
3		**TAG**	YSE-079002
4		**MAIN ITEM**	Collection of supplies used to give medical treatment
5		**QUANTITY**	1
6		**SERVICE**	Protection of personnel from electrical risk during emergency within Technical Room
7		**APPROVAL/CERTIFICATE**	-
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26
10		**OPERATING CONDITIONS**	
11		**LOCATIONS**	Indoor:, as per ref. Drawings inside HV Room
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT
13		**TEMPERATURE**	from -10°C to 30°C
14			
15		**TECHNICAL DATA**	
16		**MATERIAL**	By Vendor
17		**COLOR**	GREEN
18		**DIMENSION**	By Vendor
19		**WEIGHT**	By Vendor
20		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English
21		**CONTENT DETAIL**	1 pair of rubber gloves for 0,6/1kV 1 safety anti-flash glasses 1 rubber mat 0,6/1kV “First aid” safety instructions and first aid posters.

ITEM	Tag	First_Aid_Equipment_TP	: First Aid Equipment Transition Piece		Dwg	123A90-DDL-SAF-DL-30025	
	S/Sys	76-50	: Personal Protection		Module	TP	
TASK	code	C10004513		Location	Onshore Activities	User	Rosetti Marino Quality Control
FORM	Process	MC	Activity CCK	Discipline	Safety	Form CYX10	First Aid Equipment

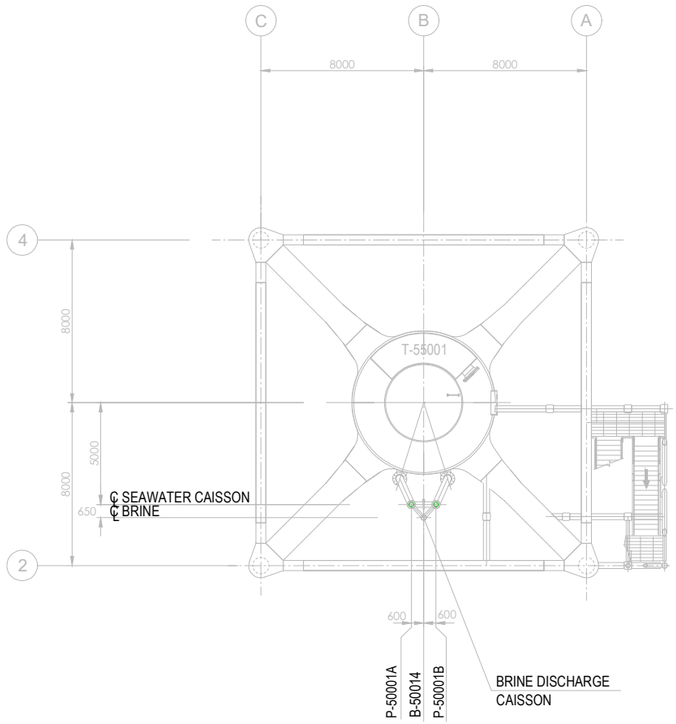
1	Check that certification is complete and that the nameplate details are complete and correct.	OK
2	Check that the equipment "Tag Number" is correct.	OK
3	Check that both the location and the orientation are correct.	OK
4	Check that the mounting arrangements are correct.	OK
5	Check that the pipework supply and drains to the eyewash/ shower unit are installed correctly (where applicable).	NA
	Following equipment to be checked together with including a marked up layout drawing indicating the area checked.	
6	Eye wash container.	NA
7	Eye wash with potable water connected.	NA
8	Eye wash and shower unit.	NA
9	Stretcher.	NA
10	A fixed first-aid cabinet and its contents.	OK
11	Portable first-aid boxes	OK
12	If required produce Red Line Mark Up for "AS BUILT"	

Comments: NOTE: all equipment will be installed in offshore phase.

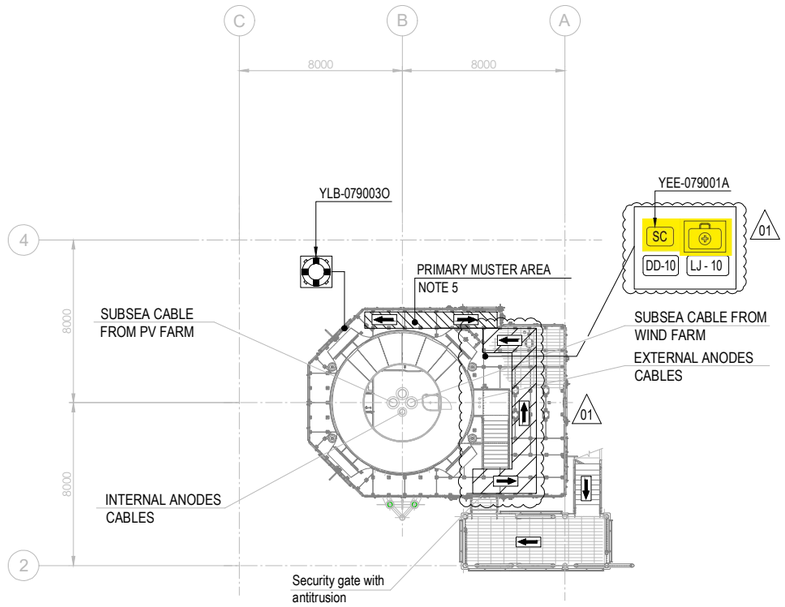
	Performed by	● WITNESS ☐ REVIEW	☐ WITNESS ☐ REVIEW
Company	RM CONSTRUCTION	RM (ROSETTI MARINO)	
Name	Gianluca De Maglie	Lorenzo Novaga	
Date	2025-04-24	2025-05-07	
Signature	PROVERLIS Digitaly signed by Gianluca De Maglie 2025-04-24T06:53:53.906Z	PROVERLIS Digitaly signed by Lorenzo Novaga 2025-05-07T12:33:19.716Z	

DRAWING NO. 123A90-DDL-SAF-DL-30025

REV. 01



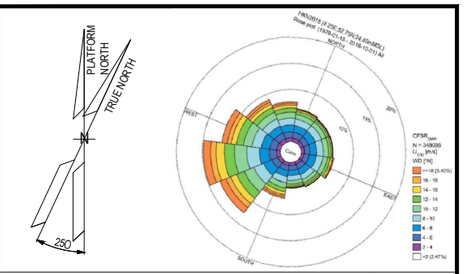
PLAN ON TRANSITION PIECE
EL+21.710 T.O.S.



PLAN ON EXISTING
PLATFORM AT
EL+16.860 T.O.S.

SYMBOL	DESCRIPTION
	LIFE BUOY(FITTED WITH LIGHT, SMOKE SIGNAL & LIFELINE)
	FIRST AID KIT
LJ-XX	LIFE JACKET (INSIDE CABINET)
SC	SAFETY CABINET
DD	DESCENT DEVICE

01



NOTES

1. ALL DIMENSIONS IN mm U.N.O
2. ALL ELEVATIONS IN METERS.
3. PRIMARY ESCAPE ROUTES SHALL BE MINIMUM 1.2m WIDTH AND 2.3m HEIGHT.
4. SECONDARY ESCAPE ROUTES SHALL BE MINIMUM 0.8m WIDTH AND 2.3m HEIGHT.
5. PRIMARY MUSTER AREA SHALL BE SIZED IN ORDER TO PROVIDE SUFFICIENT SPACE FOR THE MAXIMUM POB OF 10 ON THE PLATFORM, CONSIDERING AS MINIMUM 0.8 m^2 PER PERSON.
6. THE EVACUATION PHILOSOPHY IS AS FOLLOW:
   - PRIMARY MEANS OF EVACUATION - VIA PRIMARY MUSTER AREA,LOCATED AT PLATFORM ON TRANSITION PIECE THEN TO CREW TRANSFER VESSEL.
   - SECONADRY MEANS OF EVACUATION - VIA SECONDARY MUSTER AREA, LOCATED AT THE NORTH-EAST CORNER OF THE LOWER DECK, THEN TO LIFERAFTS.
7. ESCAPE MASKS, ELECTRICAL SAFETY KIT, RESUSCITATION UNIT, IMMERSION SUITS, LIFE JACKET AND FIRST AID KID TO BE LOCATED IN WEATHERPROOF CABINETS, AT STRATEGIC POSITIONS.
8. EACH LIFERAFT TO BE SIZED FOR MAXIMUM POB OF 10 PERSONS.
9. 2 NOS. OF PORTABLE CO2 EXTINGUISHERS TO BE LOCATED IN EACH ROOM (ITER, HV & LV ROOMS AND UPS ROOM).
10. EYEWASH BOTTLES TO BE PORTABLE AND CARRIED BY OPERATORS ONLY DURING MAINTENACE PERIOD.
11. ALL PORTABLE EXTINGUISHERS LOCATED IN OPEN AREA WILL BE EQUIPPED WITH A WEATHERPROOF CABINET. (01)
12. LIFE RAFT ACCESS WILL BE GUARANTED BY MEANS OF DESCENT DEVICE.

LEGEND

PRIMARY ESCAPE ROUTE

SECONDARY ESCAPE ROUTE

HOLDS

REFERENCE DOCUMENTS

123A90-DDL-PP-DS-70071	PLOT PLAN - BELOW LOWER DECK

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
01	10/07/24	MMA	CCA	DLO	ACCEPTED FOR CONSTRUCTION (AFC)
0	31/01/24	MMA	CCA	DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE :
ESCAPE ROUTES, FIRE FIGHTING, LIFE SAVING EQUIPMENT AND SAFETY EQUIPMENT LAYOUTS DRAWINGS

CONTRACT NO./TITLE	CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK		SCALE 1:150
DRAWN M. MAGNI	CHECKED C. CARACCIOLO	APPROVED D. LO STERZO	DATE 10/07/24

A1	DRAWING NO. 123A90-DDL-SAF-DL-30025	SHEET 001	REV. 01

File Name : 123A90-DDL-SAF-DL-30025 Rev.01

4 CABINET LIFE SAVING EQUIPMENT 1

YEE-079001 A

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

LIFE SAVING EQUIPMENT

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 02

SHEET 001

REV. 04

F.to UNI A3: 420mmx297mm

File Name : 1724001660-SAF-DA-00003

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES

1. Marking: LIFE SAVING EQUIPMENT
2. Colour: RED RAL3000
3. Tag number: YEE-079001 A

Dräger

CROSSWIND ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

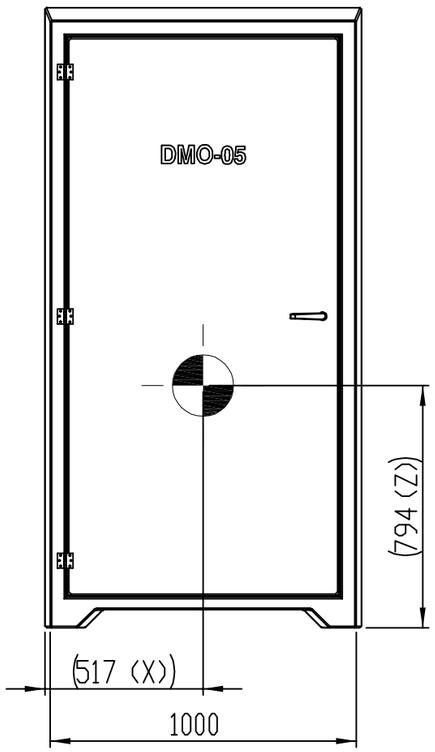
SCALE : NTS

A3	DRAWING NO. 02	SHEET 002	REV. 04

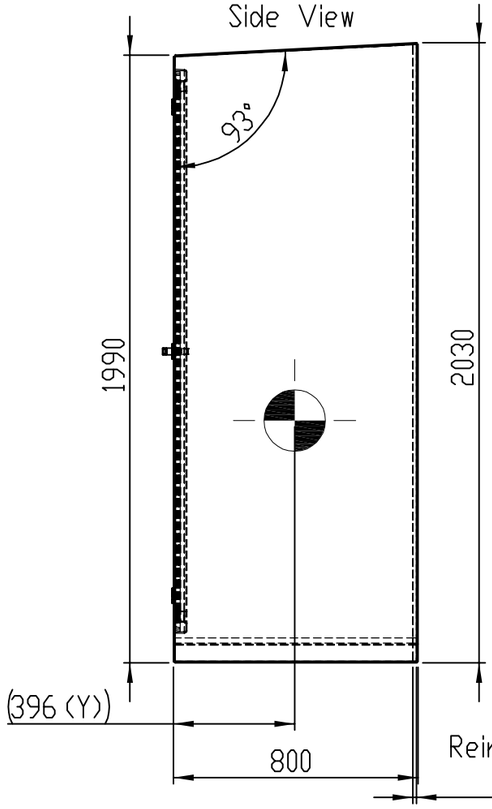
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

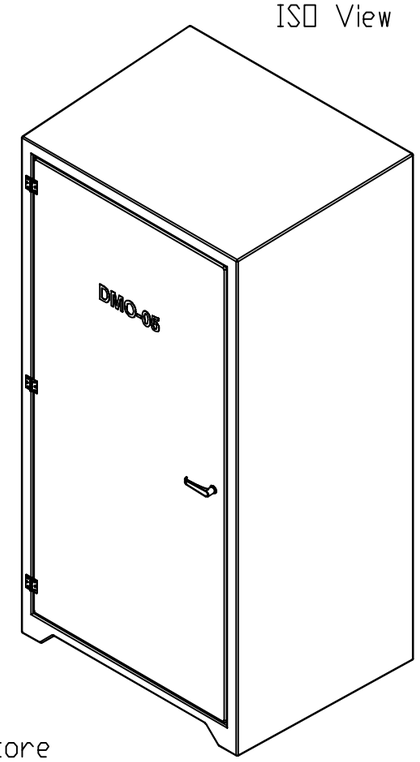
Front View

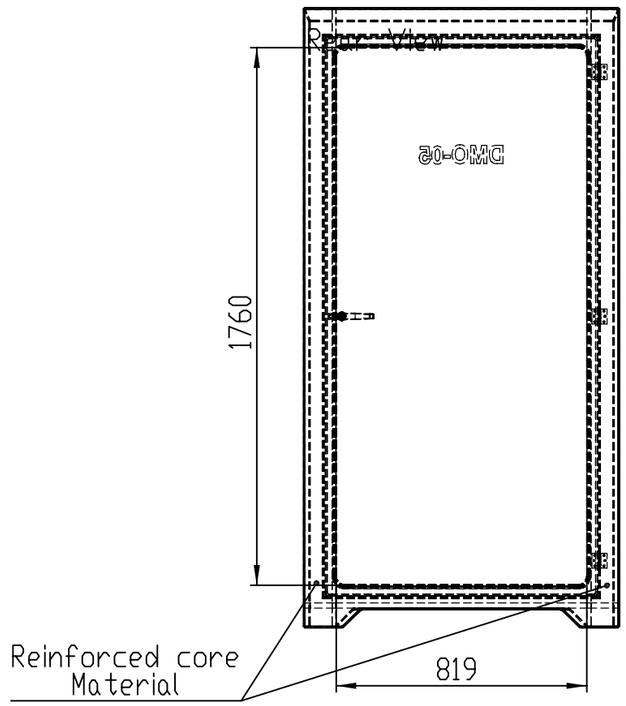


Side View

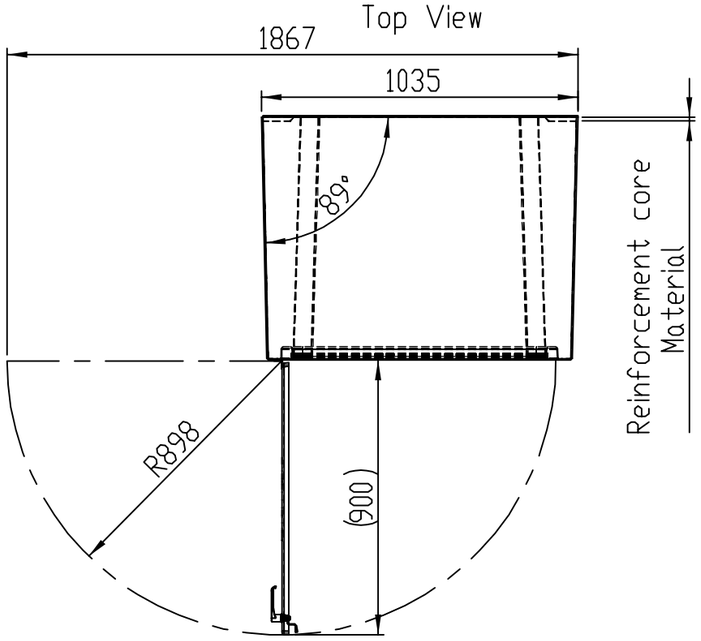


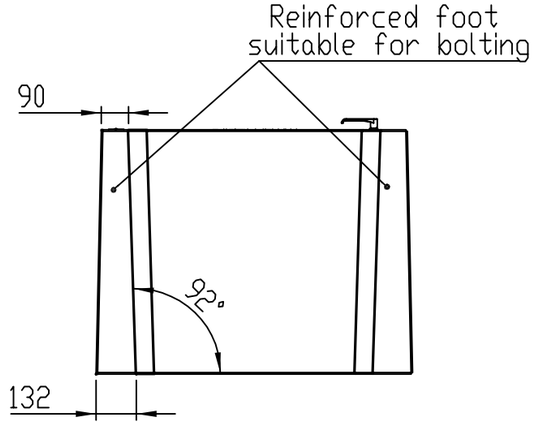
ISO View





Top View





Footprint

Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-517 / Y-396 / Z-794 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

Dräger

CROSSWIND ROSETTI MARINO

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
LIFE SAVING EQUIPMENT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 02

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

7 CABINET SAFETY KIT

YSE-079002

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

DRAEGER NEDERLAND B.V

GENERAL ARRANGEMENT DRAWING

SAFETY KIT

dxfPDF.BMP

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	18/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
SAFETY KIT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3	DRAWING NO. 05	SHEET 001	REV. 04

File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
00	001	FRONT PAGE	
00	002	SUMMARY AND GENERAL NOTES	
00	003	DRAWING CABINET	
01	001	FRONT PAGE	
01	002	SUMMARY AND GENERAL NOTES	
01	003	DRAWING CABINET	
02	001	FRONT PAGE	
02	002	SUMMARY AND GENERAL NOTES	
02	003	DRAWING CABINET	
03	001	FRONT PAGE	
03	002	SUMMARY AND GENERAL NOTES	
03	003	DRAWING CABINET	
04	001	FRONT PAGE	
04	002	SUMMARY AND GENERAL NOTES	
04	003	DRAWING CABINET	

GENERAL NOTES

1. Marking: SAFETY KIT
2. Colour: Green RAL6002
3. Tag number: YDF-079002

dxfA222.BMP

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
SAFETY KIT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

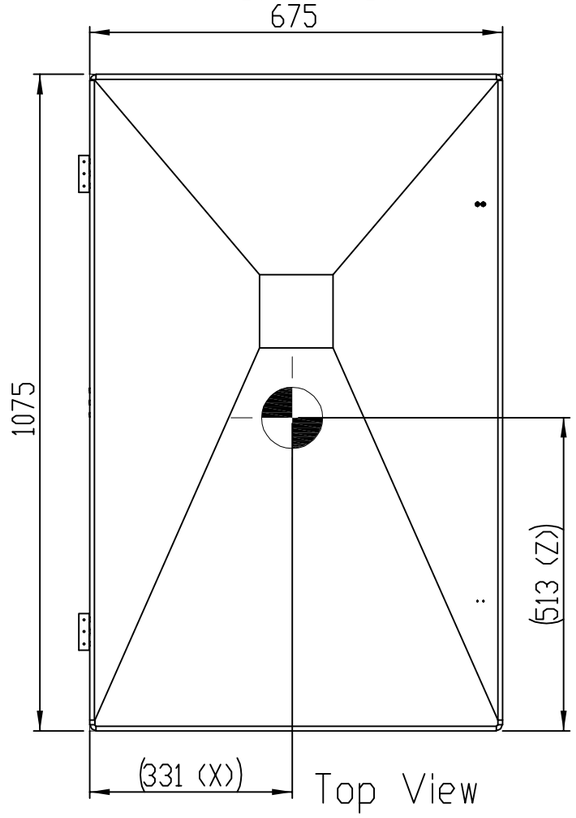
SCALE : NTS

A3	DRAWING NO. 05	SHEET 002	REV. 04

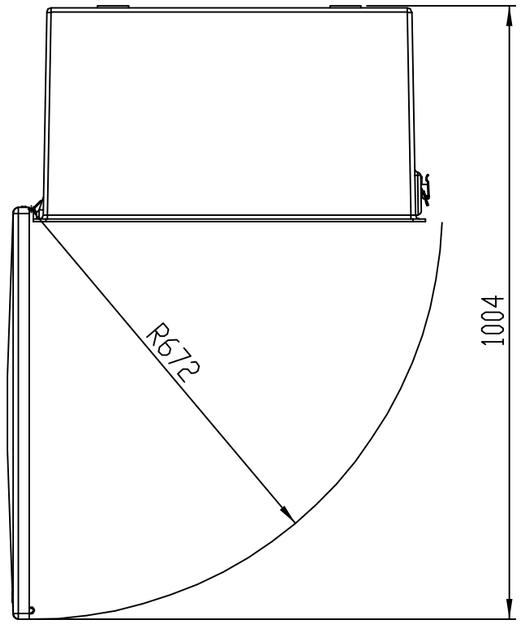
File Name : 1724001660-SAF-DA-00003

F.to UNI A3: 420mmx297mm

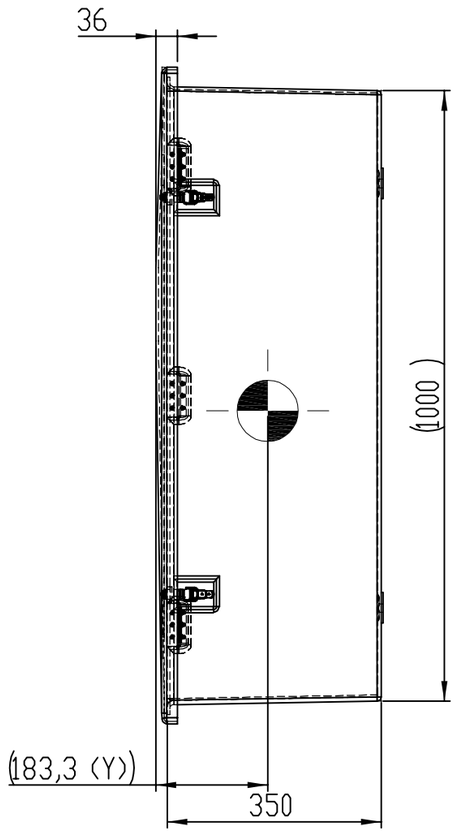
Front View



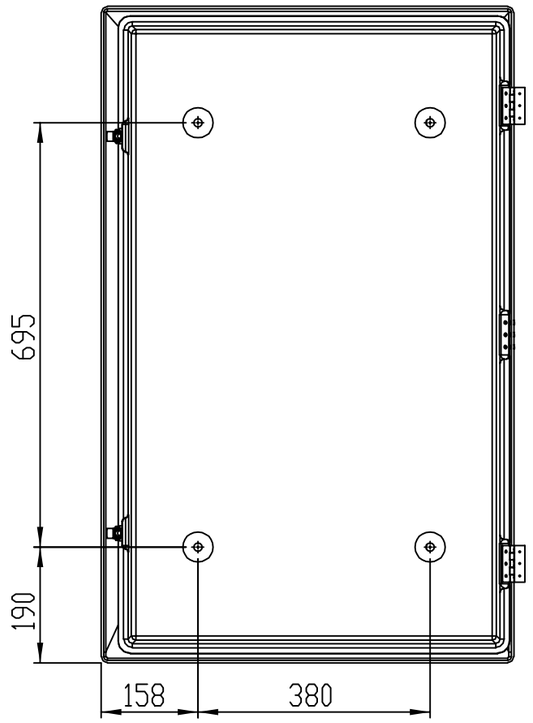
Top View



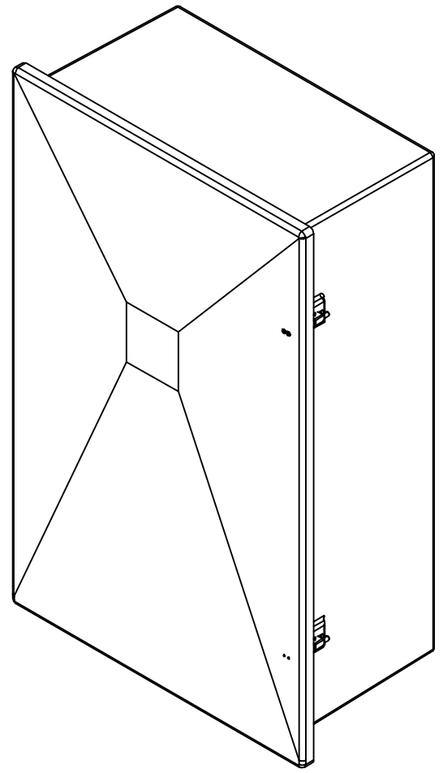
Side View



Mounting View



ISO View



Material	3-4mm GRP
Lock and hinges	Stainless steel
C.O.G.	X-331 / Y-183.3 / Z-513 from datum

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	29/04/25	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
03	19/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
02	09/12/24	BACH	POTU	ROSC	ACCEPTED FOR CONSTRUCTION (AFC)
01	21/11/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)
00	17/10/24	BACH	POTU	ROSC	ISSUE FOR REVIEW (IFR)

TITLE : DRAEGER NEDERLAND B.V
GENERAL ARRANGEMENT DRAWING
SAFETY KIT

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 05

SHEET 003

REV. 04

File Name : 1724001660-SAF-DA-00003

dxfA4BLBMP

CROSSWIND ROSETTI MARINO

F.to UNI A3: 420mmx297mm

5 FIRST AID KIT

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

SCHEDA TECNICA

Codice/cod.	CAV401
Prodotto:	Contenitore MEDIC 2 Vuoto



Caratteristiche tecniche

Dimensioni:
mm. 395x135x270 mm
peso: Kg 0,50

Descrizione:
Valigetta realizzata in polipropilene antiurto, dotata di supporto per attacco a parete, maniglia per trasporto e chiusura con 2 clip rotanti.

Colori:
CAV412 verde
CAV283 bianca
CAV410 verde crystal cover

6 SAFETY CABINET 1

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

GRP storage cabinet: DMO-05

Dräger Marine & Offshore cabinets are designed for tough offshore conditions. Manufactured from durable GRP material, these cabinets are rated to IP56, certified by Lloyds. All cabinets are manufactured with stainless steel locks and hinges. The cabinets can be configured to suit different storage requirements.



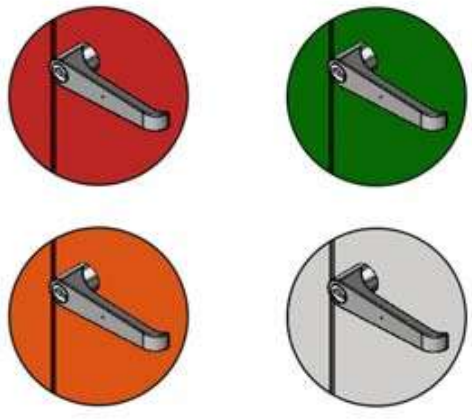
Features

Room to store
- Fireman's equipment (2 complete sets incl. SCBA)
- Fireman's clothing (4 sets)
- Survival suits (up to 20 pcs depending on size)
- Life jackets (up to 35 pcs depending on type)
- Emergency response team equipment
- Helideck crash equipment (incl. ladder & grab hook)

Options
- Shelves / bulkhead / clothing bar
- Ventilation
- Flame retardant version
- Heaters (conventional / ATEX approved)
- Lighting (conventional / ATEX approved)
- Lettering

TECHNICAL SPECIFICATIONS

Dimensions	1035 x 800 x 2030 (WxDxH)
Aperture dimensions	819 x 800 x 1760 mm (WxDxH)
Angle of door opening	90°
Weight	57,5 kgs
Material	GRP
Colour	Safety Green RAL 6002 Firefighting Red RAL 3000 Safety Orange 2009 Lifesaving White RAL 9010
IP rating	IP56
Door catch	Nylon
Door handle	SS 316
Hinges	SS 316
Seal	EPDM
Reinforcement	Core material
Lettering	White
Approvals	IP56 BS EN 60529:1992 Lloyds



GRP storage cabinet: DMO-05
IP56 rated and Lloyds certified

Dräger Nederland B.V.| Marine & Offshore | Beurtschipperstraat 1 | 3194 DK Hoogvliet, The Netherlands
Tel +31 (0) 10 295 27 40 | sales-mo.sd.nl@draeger.com | www.draeger-mo.com

7 SAFETY CABINET 2

This document undergoes an issuance cycle within EDMS Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

	Rev	Item	Required
1		**GENERAL DATA**	
2		**EQUIPMENT TYPE**	**SAFETY CABINET**
3		**TAG**	YEE-079001 A/B
4			Each SAFETY cabinet shall be marked with the associated tag number
5		**QUANTITY**	2
6		**STANDARDS**	Chapter 2.1 of the IMO Life-Saving Appliance (LSA) Code
7		**APPROVAL/CERTIFICATE**	IMO/LSA
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26
10		**OPERATING CONDITIONS**	
11		**LOCATIONS**	Outdoor:, as per ref. Drawings
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT
13		**TEMPERATURE**	from -10°C to 30°C
14			
15		**TECHNICAL DATA**	
16		**MATERIAL**	UV resistant GRP or epoxy coated steel, for marine environment
17		**COLOR**	International RED
18		**DIMENSION**	By Vendor - To fit with the available space as per attached drawing
19		**WEIGHT**	By Vendor
20		**SELF-IGNITED LIGHT**	lit by an electric battery and inextinguishable in the water
21		**BUOYANT LIFELINE**	three times longer than the height above sea level (at LAT level) at which the life buoy is posted
22		**MARKING**	Name of the installation
23		**CABINET**	
24		**MATERIAL**	stainless steel or other suitable for marine environment
25		**SUPPORT**	handrail mounting
26		**PAINTING**	According to 123A90-DDL-MAT-SP-60006
27		**DIMENSION**	By Vendor
28		**WEIGHT**	By Vendor
29		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English

CROSSWIND	HOLLANDSE KUST NOORD WIND PARK Project Contract No. CW-I-WP4-2023-05	ROSETTI MARINO
Document Title:	TDS - FF and Safety Equipment	Sh. 11 of 16 Date: 01/07/24 Rev. 00

	Rev	Item	Required	
1		**GENERAL DATA**		
2		**EQUIPMENT TYPE**	**FIRST AID KIT**	
3		**TAG**	YSE-079001 A/B/C	
4		**MAIN ITEM**	Collection of supplies used to give medical treatment	
5		**QUANTITY**	3	
6		**STANDARDS**	According to Directive and Regulaton BHV and Inland Shipping	
7		**APPROVAL/CERTIFICATE**	-	
8		**REF. TECHNICAL SPEC.**	123A90-DDL-SAF-SP-30032	
9		**REF. DRAWING**	123A90-DDL-SAF-DL-30025/26	
10		**OPERATING CONDITIONS**		
11		**LOCATIONS**	Indoor:, as per ref. Drawings inside ITER	
12		**ENVIRONMENT CONDITION**	MARINE ENVIRONMENT	
13		**TEMPERATURE**	from -10°C to 30°C	
14				
15		**TECHNICAL DATA**		
16		**MATERIAL**	High Quality ABS Plastic, sturdy and shockproof, waterproof.	
17		**COLOR**	GREEN	
18		**DIMENSION**	By Vendor	
19		**WEIGHT**	By Vendor	
20		**INSTRUCTION SIGN**	Operating instructions shall be clearly fixed in English	
21		**MARKING**	white cross on a green background	
22		**CONTENT DETAIL**		
23		1 pair of heavy-duty scissors (for cutting clothes and dressings)		
24		Non-sterile examination gloves (several sizes)		
25		1 emergency trauma pressure dressing		
26		1 cloth tourniquet		
27		1 bottle of iodine-based disinfectant (BETADINE type)		
28		1 bottle of non-iodine disinfectant (HIBIDINE type)		
29		Several packs of sterile compresses (of 5 or 10)		
30		1 pack of non-sterile compresses (of 50 or 100)		
31		1 roll of adhesive plaster		
32		1 roll of adhesive elastic bandage (cotton – width 5, 10 and 20cm)		
33		Ready-to-use dressings of various sizes		
34		2 triangular cloth slings		
35		1 detailed instructions booklet describing rescue and first aid actions		
36		1 eyewash kit		
37		List of contents		

Section 12 FAT / VENDOR REPORTS

NOT APPLICABLE

Section 13 MECHANICAL COMPLETION CHANGES / MARK-UPS

NOT APPLICABLE