BASE LOAD POWER HUB (BLPH)

"SG-100D1" HV SWBD 6,6kV

GENERAL ARRANGEMENTS DWG AND FOUNDATION LOAD CALCULATION INCLUDING COG

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	08/08/2024	Flamminio	Santinelli	Santinelli	As Built (ASB)
2	03/07/2024	Flamminio	Santinelli	Santinelli	Accepted for Construction (AFC)
1	04/03/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)
0	07/02/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)

DWG n° : 231151/SD/6

Item n° : PF1113279/4

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Cover

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 001

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

INDEX SHEETS

Sheet	Description	Revision 0	1	2	3	4	5	6	7	8	9
001	Cover / GENERAL ARRANGEMENTS	X	X	X	X						
002	Index / GENERAL ARRANGEMENTS	X	X	X	X						
003	Switchgear Characteristics / GENERAL ARRANGEMENTS	X	X	X	X						
004	Switchgear Characteristics / GENERAL ARRANGEMENTS	X	X	X	X						
005	Switchgear Name Plate / GENERAL ARRANGEMENTS	X	X	X	X						
006	Switchgear Lay-Out - Front View / GENERAL ARRANGEMENTS	X	X	X	X						
007	Switchgear Lay-Out - Bottom View / GENERAL ARRANGEMENTS	X	X	X	X						
008	Switchgear Lay-Out - Top View / GENERAL ARRANGEMENTS	X	X	X	X						
009	Switchgear Lay-Out - Baseframe View / GENERAL ARRANGEMENTS	X	X	X	X						
010	Switchgear Lay-Out - Rear View / GENERAL ARRANGEMENTS	X	X	X	X						
011	Switchgear Lay-Out - Typical Baseframe / GENERAL ARRANGEMENTS	X	X	X	X						
012	Switchgear Lay-Out - Typical Column Bottom / GENERAL ARRANGEMENTS	X	X	X	X						
013	Base Frame Fixing System / GENERAL ARRANGEMENTS	X	X	X	X						
014	Base Frame Fixing System / GENERAL ARRANGEMENTS	X	X	X	X						
015	Switchgear Center of Gravity / GENERAL ARRANGEMENTS	X	X	X	X						
016	Extraction Truck for Circuit Breaker/Contactor / GENERAL ARRANGEMENTS	X	X	X	X						

Sheet	Description	Revision 0	1	2	3	4	5	6	7	8	9

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231151/SD/6

Item n° : PF1113279/4

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Index

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 002

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

A	ENVIRONMENTAL DATA	
1	AMBIENT	MARINE - OFFSHORE
2	INSTALLATION	INDOOR
3	AMBIENT AIR TEMPERATURE - DELAY AVERAGE MAXIMUM	35 °C
4	AMBIENT AIR MINIMUM/MAXIMUM TEMPERATURE	-8,4 ÷ +40 °C
5	RELATIVE HUMIDITY AVERAGE	95 %
6	RELATIVE HUMIDITY MAXIMUM	-
7	POLLUTION LEVEL DEGREE	VERY LIGHT

B	SWITCHGEAR ELECTRICAL FEATURES	
1	RATED VOLTAGE (Ue)	6,6 kV
2	RATED INSULATION VOLTAGE (Ur)	7,2 kV
3	RATED FREQUENCY (fr)	50 Hz
4	RATED POWER-FREQUENCY WITHSTAND VOLTAGE (Ud)	20 kV
5	RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE (Up)	60 kV
6	RATED NORMAL CURRENT (Ir)	630 A
7	RATED SHORT TIME WITHSTAND CURRENT (Ik)	25 kA
8	RATED DURATION OF SHORT CIRCUIT (tk)	1 s
9	RATED PEAK WITHSTAND CURRENT (Ipk)	65 kA
10	INTERNAL ARC CLASSIFICATION IAC	25 kA x 1 s
11	ACCESSIBILITY TYPE	AFLR
12	NUMBER OF PHASES	3
13	PHASES IDENTIFICATION	L1-L2-L3
14	EARTHING CIRCUITS MAIN BUSBAR SECTION	>200mmq
15	REFERENCE STANDARDS	IEC 62271-200
16	CLASS REFERENCE	not applicable

C	SWITCHGEAR MECHANICAL FEATURES	
1	EXTERNAL DEGREE OF PROTECTION	IP3X
2	INTERNAL DEGREE OF PROTECTION	IP2X
3	EXTERNAL MECHANICAL IMPACT PROTECTION	IK10
4	ACCESSIBILITY	FRONT AND REAR
5	TYPE DESIGNATION	LSC2B-PM
6	POWER CABLES (INCOMING)	FROM THE TOP (by MCT)
7	POWER CABLES (OUTGOING)	FROM THE TOP (by MCT)
8	AUXILIARY CABLES	FROM THE TOP (by MCT)
9	BASE FRAMES	PROVIDED
10	MIMIC DIAGRAM (BLACK)	PROVIDED
11	BOTTOM CLOSING	UNDRILLED ALUMINIUM REMOVABLE PLATES
12	PAINTING COLOUR	RAL 7035
13	PAINTING SPECIFICATION CYCLE	C3-MEDIUM, > 60µ (IMESA CYCLE "A")
14	SURFACE NOT PAINTED	ZINC PLATED OR TROPICALIZED
15	FRONT DOORS (AUXILIARY COMPARTMENT)	HINGED WITH KEY LOCKS
16	FRONT DOOR (C.B./CONTACTOR COMPARTMENT)	PADLOCKABLE LOCK
17	REAR PANELS	BOLTED
18	MINIMUM CLEARANCE	TO THE FRONT 1500 mm
19		TO THE REAR 800 mm
20		TO THE TOP 600 mm
21		TO THE SIDE 800 mm
22	WEIGHTS	7.400 kg ± 10% (ESTIMATED)

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IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/6

Item n° : PF1113279/4

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Characteristics

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 003

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

D	BUSBAR SYSTEM	
1	MATERIALS	ELECTROLYTIC COPPER
2	BUSBAR SURFACE TREATMENT	not applicable
3	INSULATION BUSBARS	SHEATHED (only main bus-bars & upper connection of power devices)
4	JOINT AND CONNECTIONS TREATMENT	not applicable
5	INSULATION JOINTS	REMOVABLE SOLID DIELECTRIC PROTECTIONS
6	BULKHEADS FOR POWER BARS	YES
7	PHASES IDENTIFICATION	L1 (BROWN)
8		L2 (BLACK)
9		L3 (GREY)
10		PE
11	MARKING OF PHASES	ADHESIVE LABELS PLACED ON BARS

E	POWER / AUXILIARY CIRCUITS CABLES		
1	LOW VOLTAGE CABLE TYPE		SH-W (MARINE APPROVAL)
2	INSULATION		HLPE (600/1000 V)
	SIZE / COLOUR CODE		
3	MEASURE & CONTROL & SIGNAL CIRCUITS	AC/DC CIRCUIT (Internal Heating / Motor Spring Charger / Internal Distribution)	≥ 2,5 mmq / BLACK
4		VT SECONDARY CIRCUIT	1,5 mmq / BLACK
5		CT SECONDARY CIRCUIT	2,5 mmq / BLACK
6		AC CIRCUIT	≥ 1,5 mmq / BLACK
7		DC CIRCUIT	≥ 1,5 mmq / + RED - -WHITE
8		GROUND CIRCUIT	YELLOW / GREEN
9		PHASES IDENTIFICATION FOR AC POWER CIRCUIT TERMINATION WITH SHRINKABLE SHEATH	not applicable
10			not applicable
11			not applicable

F	TERMINAL BLOCKS	
1	TERMINAL BLOCK TYPE	SPRING CLAMP (CABUR HMM grey)
2	DISCONNECT/TEST TERMINAL BLOCK TYPE	SPRING CLAMP (CABUR HMM grey)
3	MATERIAL	POLYAMIDE
4	SIZE	≥ 4mmq

G	AUXILIARY CIRCUIT VOLTAGE	
1	AUXILIARY COMMAND CIRCUITS	110 Vdc (External Supply)
2	AUXILIARY SIGNALLING CIRCUITS	110 Vdc (External Supply)
3	AUXILIARY PROTECTION CIRCUITS	110 Vdc (External Supply)
4	SPRING CHARGING MOTOR C.B.	110 Vdc (External Supply)
5	INTERNAL LIGHTINGS	230 Vac (External Supply)
6	ANTICONDENSATION HEATER	230 Vac (External Supply)
7	SPACE MOTOR HEATER (If Applicable)	230 Vac (External Supply)

H	LABELS	
1	MATERIAL	TRAFFOLYTE
2	BACKGROUND	WHITE
3	LETTERS	BLACK
4	LANGUAGE	ENGLISH
5	WARNING LABEL LANGUAGE	ENGLISH
6	FIXING	SCREWED
7	MARKING DEVICES / WIRES	INDIPENDENT
8	AC CIRCUIT	SEQUENTIAL
9	DC CIRCUIT	SEQUENTIAL WITH PREFIX "+" OR "-"

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231151/SD/6

Item n° : PF1113279/4

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TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Characteristics

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 004

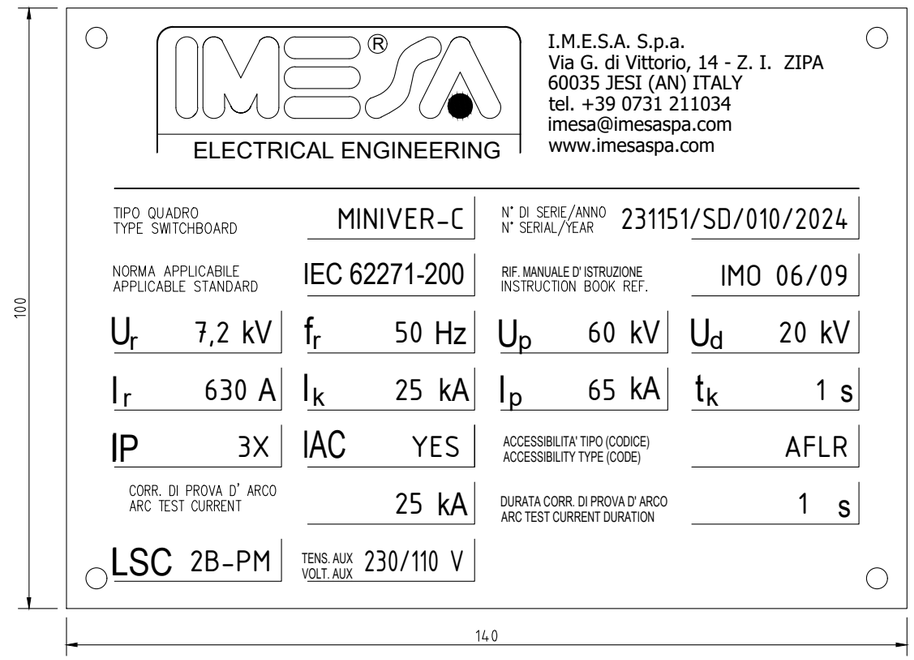
REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

NAMEPLATE DATES

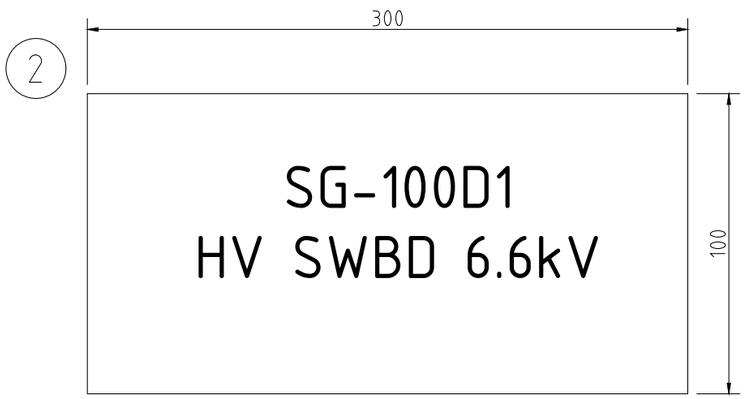
(1)



Material: Alloy

SWITCHGEAR TAG PLATE

(2)



Material: Traffolyte

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=					
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DWG n° : 231151/SD/6
Item n° : PF1113279/4

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Name Plate

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

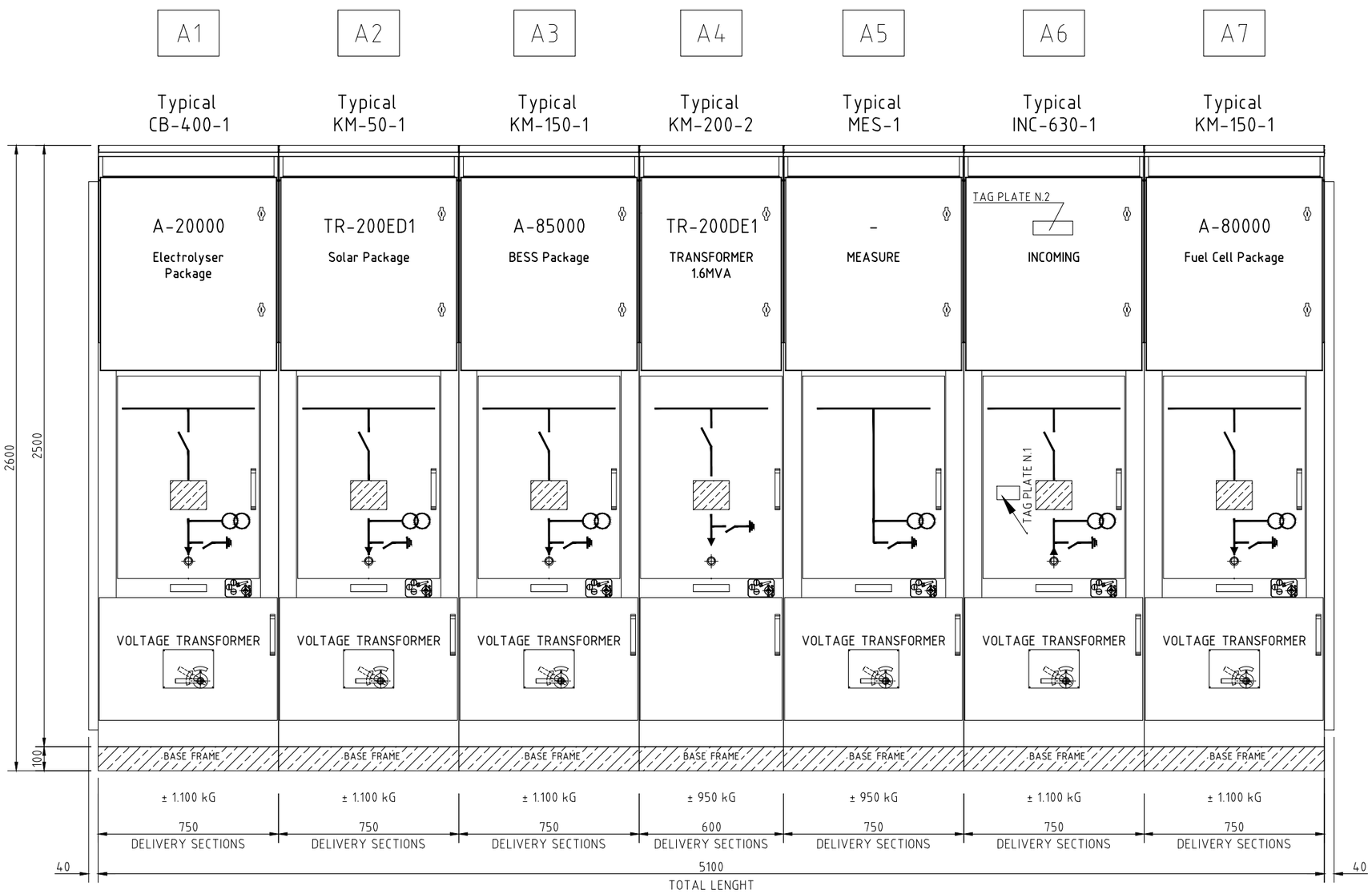
SHEET 005

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

FRONT VIEW



NOTE :

1. Measurement Tollerance + 0,25%
2. Weight Tollerance ± 10%
3. Mimic features - Colour : BLACK - Material : PLASTIC - Dimension : 10x3mm

scale 1/20

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231151/SD/6

Item n° : PF1113279/4

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Lay-Out - Front View

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

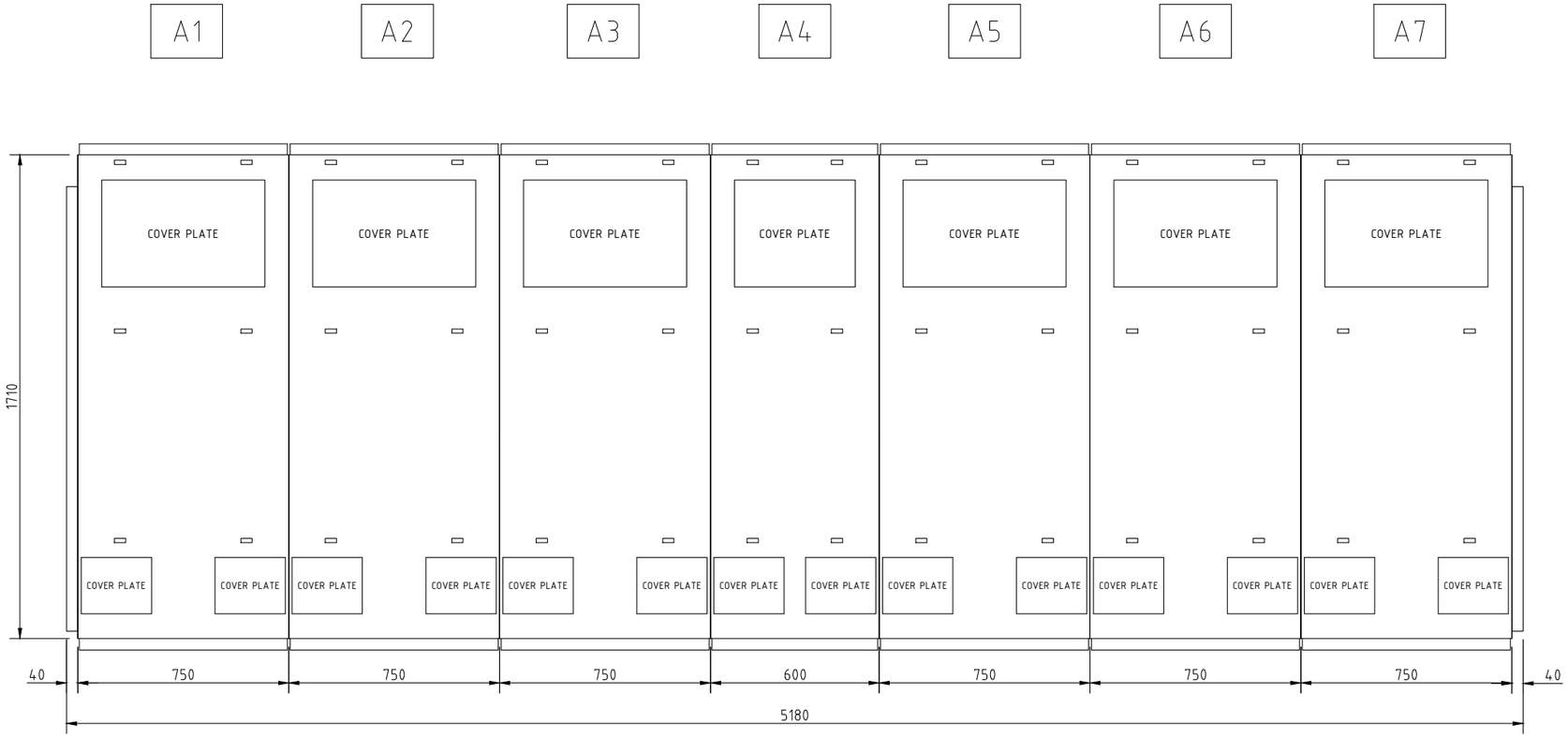
SHEET 006

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

BOTTOM VIEW



FRONT

NOTE :
1. Measurement Tollerance + 0,25%

scale 1/20

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
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DWG n° : 231151/SD/6
Item n° : PF1113279/4

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Lay-Out - Bottom View

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

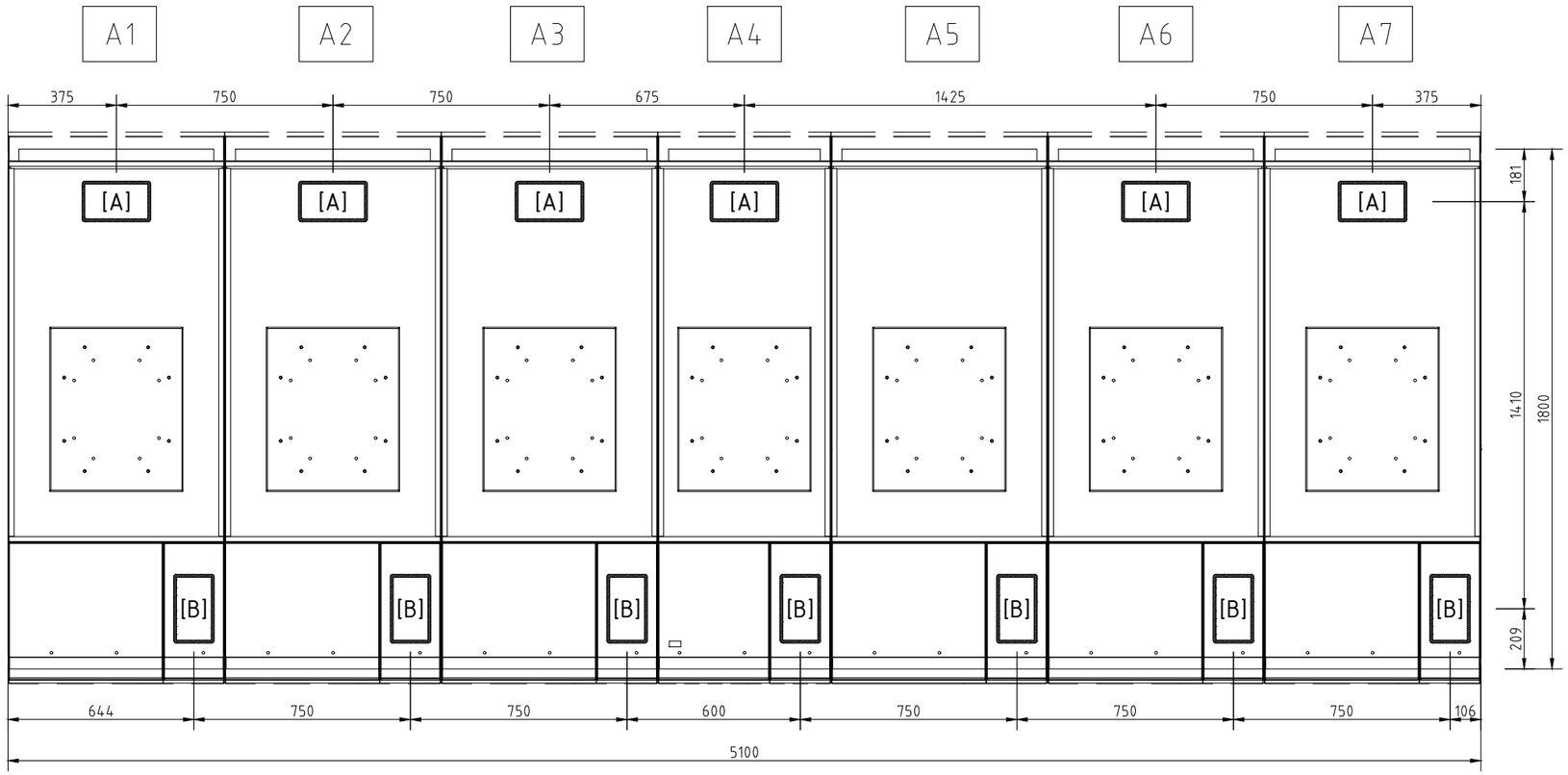
SHEET 007

REV. 03

F.to UNI A3: 420mmx297mm

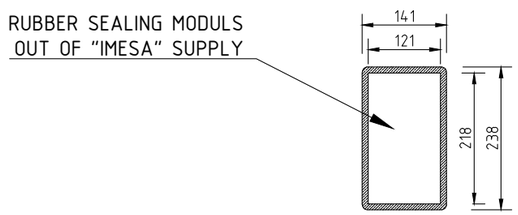
File Name : 1723002197-EL-DA-00006 Rev. 03

TOP VIEW



FRONT

"S6X1" MCT DETTAILS



NOTE :

1. Measurement Tollerance + 0,25%
2. [A] MCT for power cable - type S6x1
3. [B] MCT for auxialiary cable - - type S6x1

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IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/6

Item n° : PF1113279/4

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Lay-Out - Top View

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

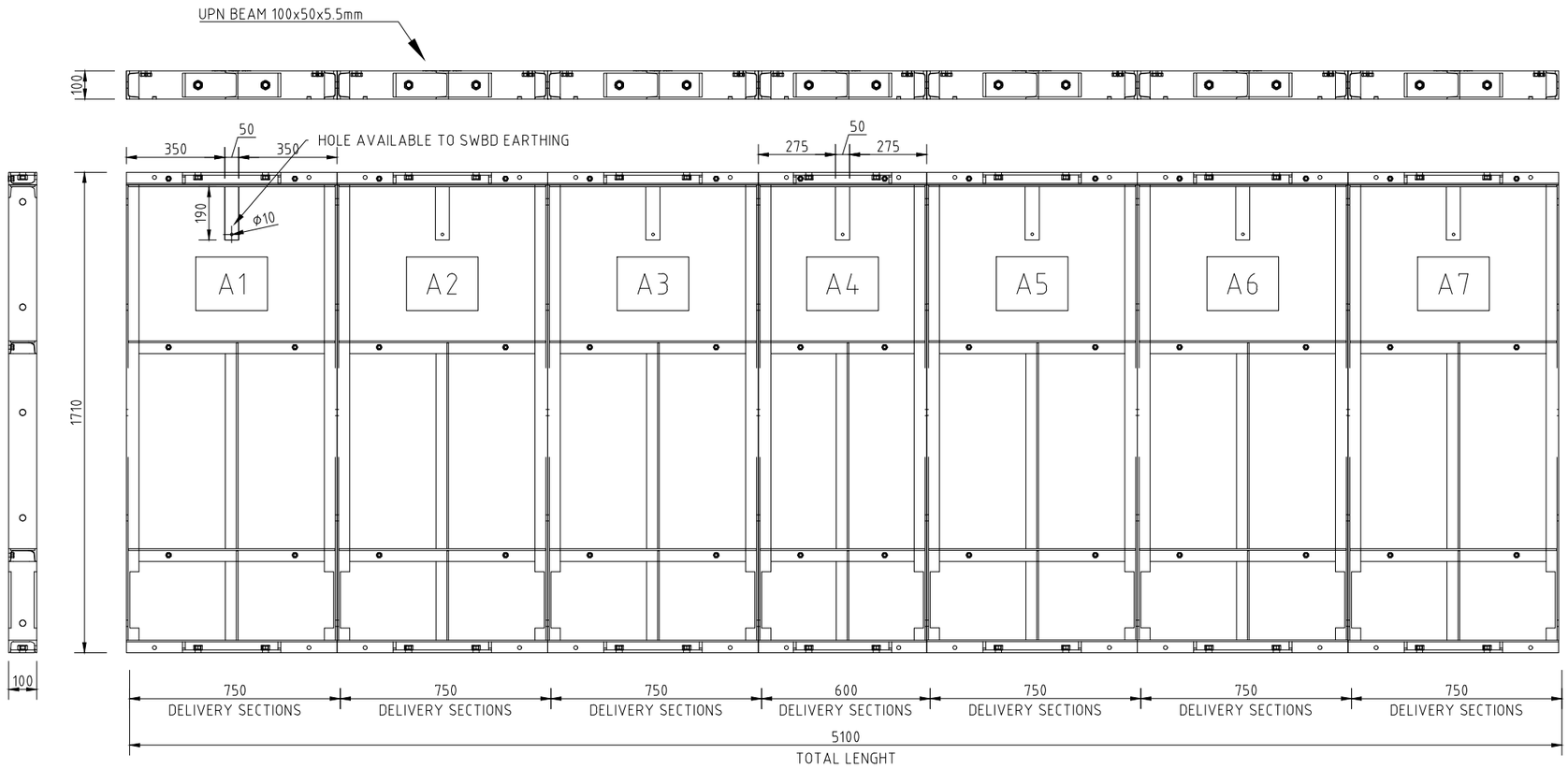
SHEET 008

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

BASEFRAME VIEW



NOTE :

1. Measurement Tollerance + 0,25%

scale 1/20

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
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DWG n° : 231151/SD/6
Item n° : PF1113279/4

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Lay-Out - Baseframe View

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 009

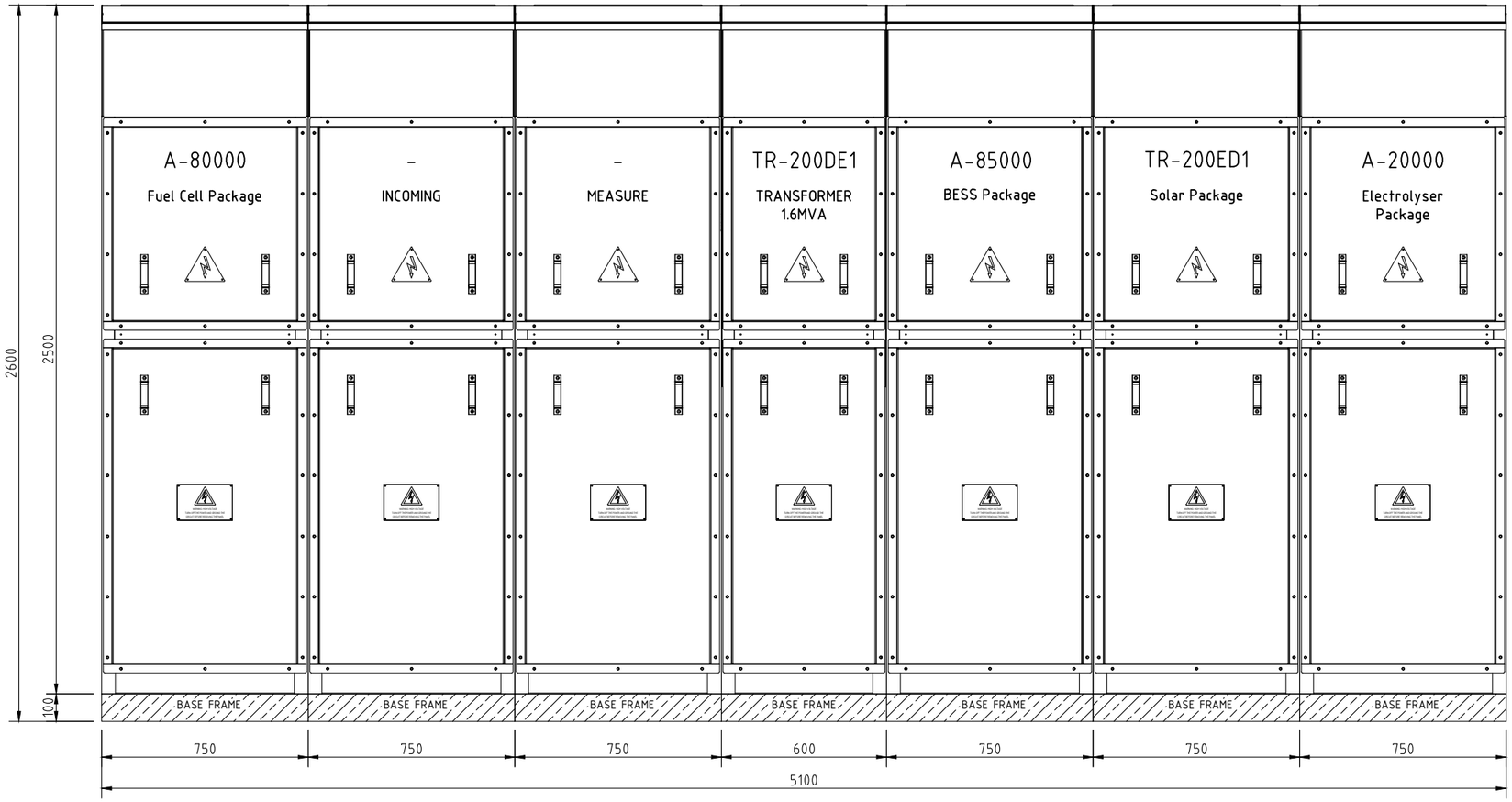
REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

REAR VIEW

A7 A6 A5 A4 A3 A2 A1



NOTE :

1. Measurement Tollerance + 0,25%

scale 1/20

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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+					
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CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

DWG n° : 231151/SD/6

Item n° : PF1113279/4

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Lay-Out - Rear View

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 010

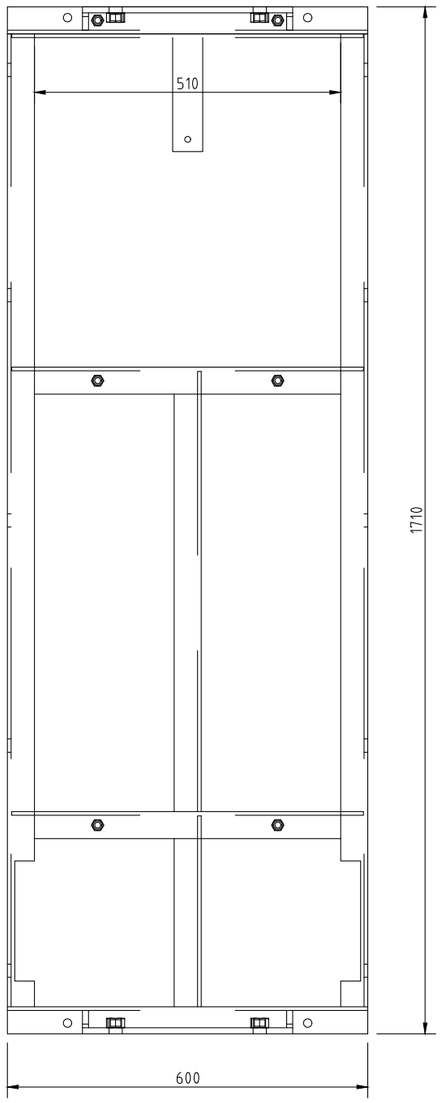
REV. 03

F.to UNI A3: 420mmx297mm

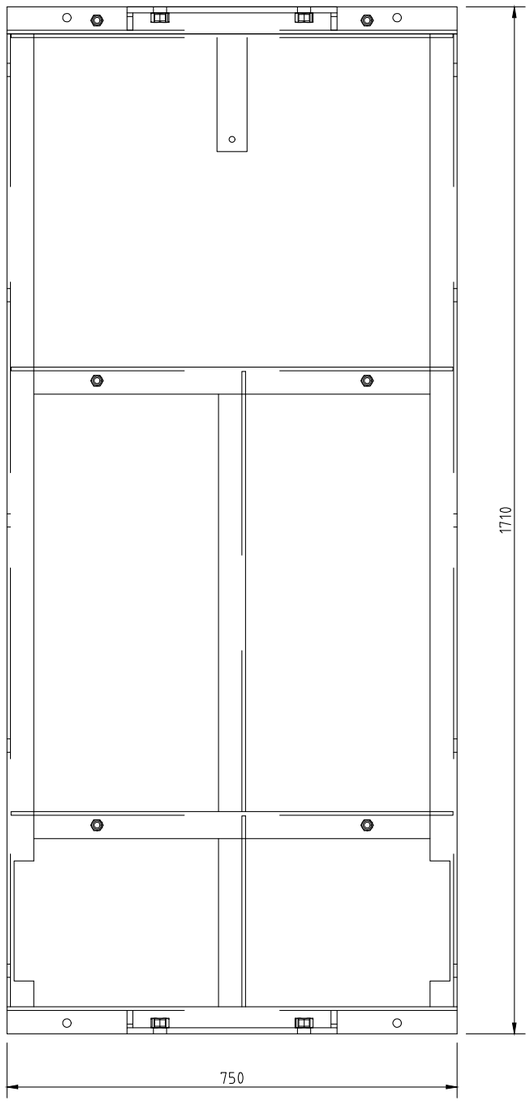
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TYPICAL BASE FRAME

TYPICAL BASE FRAME FOR COLUMNs
with width 600mm



TYPICAL BASE FRAME FOR COLUMNs
with width 750mm



NOTE :
1. Measurement Tollerance + 0,25%

scale 1/20

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IMESA ELECTRICAL ENGINEERING
DWG n° : 231151/SD/6
Item n° : PF1113279/4

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Lay-Out - Typical Baseframe

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 011

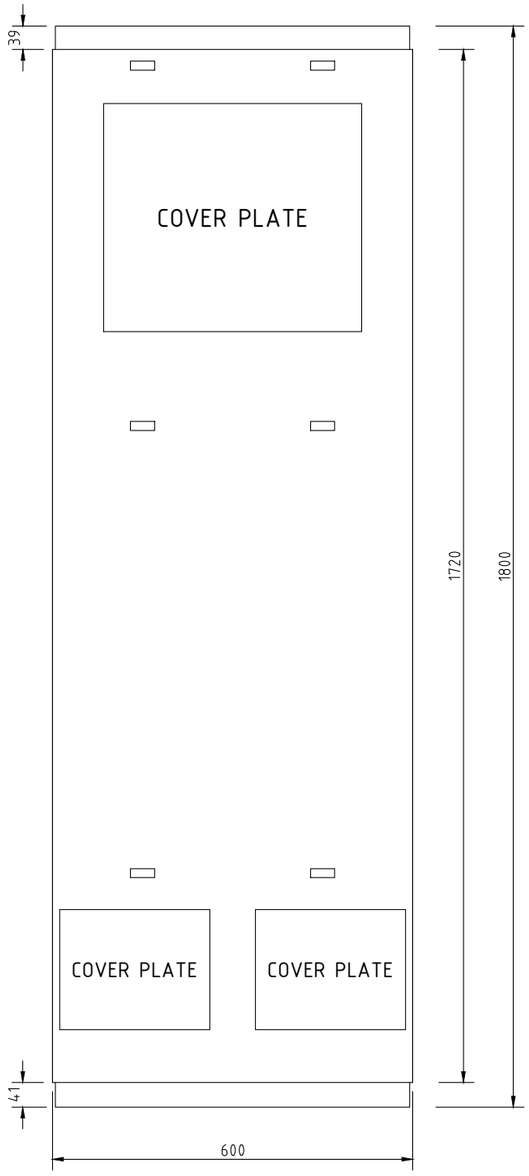
REV. 03

F.to UNI A3: 420mmx297mm

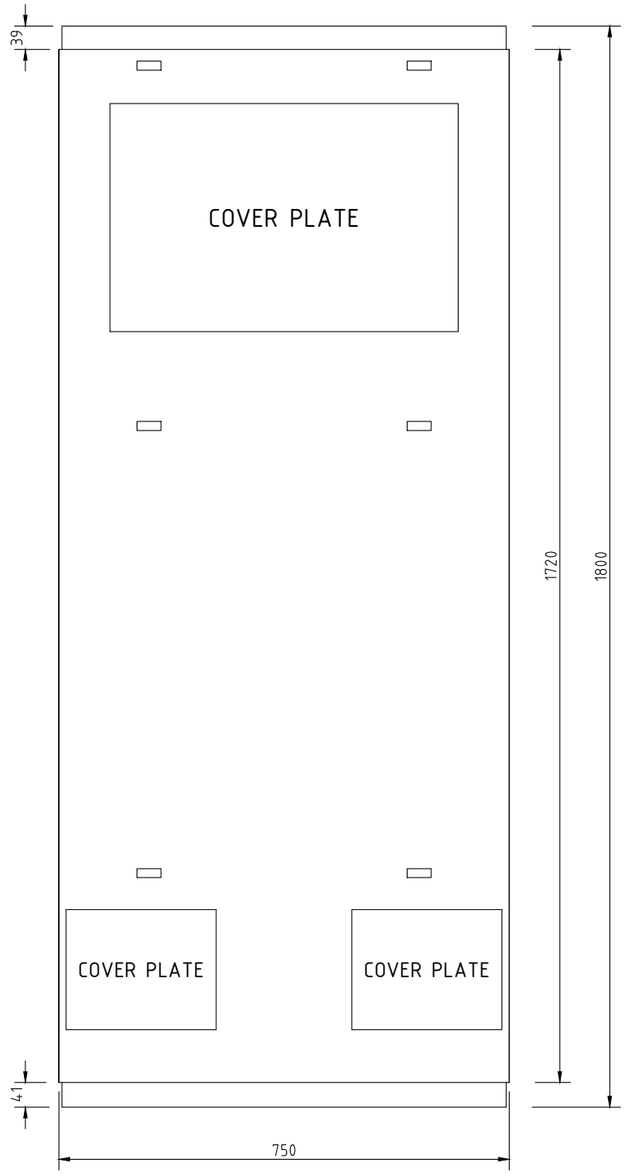
File Name : 1723002197-EL-DA-00006 Rev. 03

TYPICAL COLUMNS BOTTOM VIEW

TYPICAL BASE FRAME FOR COLUMNs
with width 600mm



TYPICAL BASE FRAME FOR COLUMNs
with width 750mm



NOTE :
1. Measurement Tollerance + 0,25%

scale 1/20

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
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0	07/02/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)

DWG n° : 231151/SD/6
Item n° : PF1113279/4

CROSSWIND

IMESA ELECTRICAL ENGINEERING

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Lay-Out - Typical Column Bottom

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

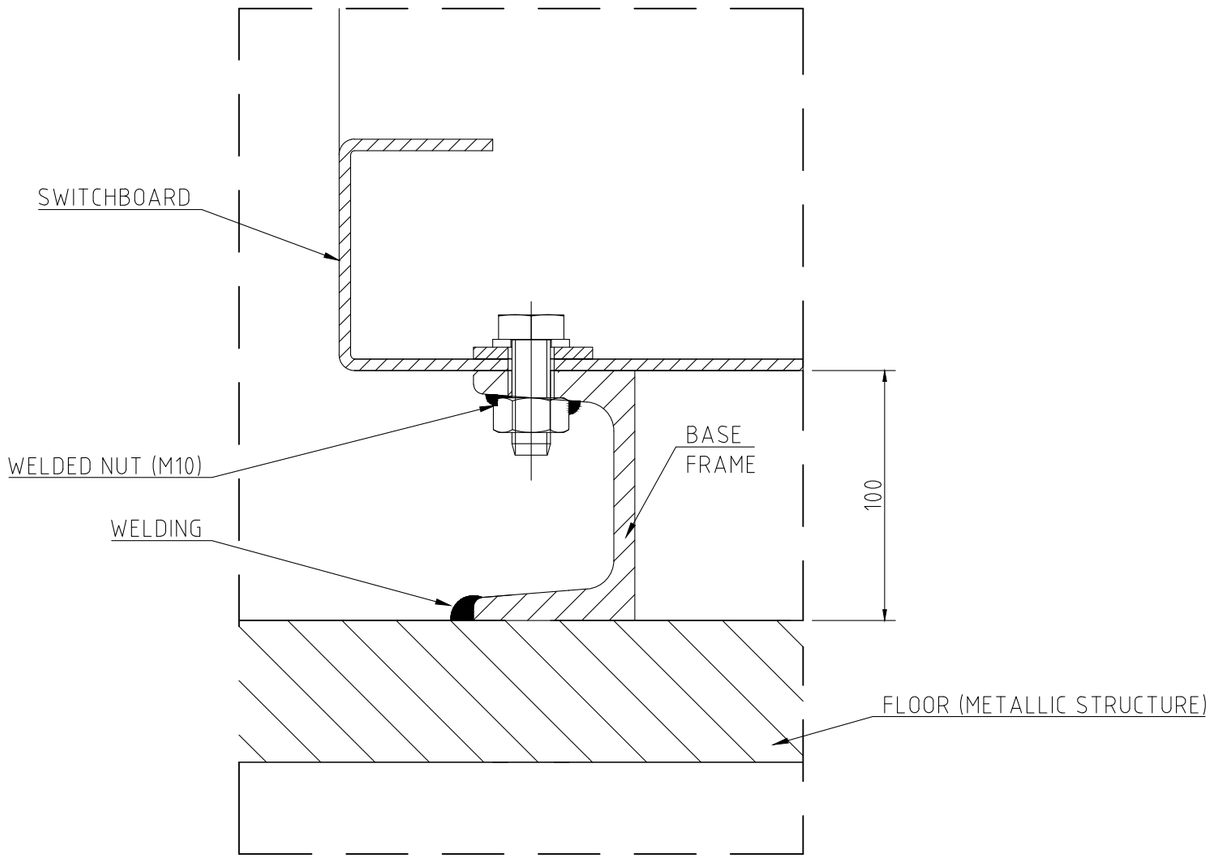
SHEET 012

REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

BASE FRAME FIXING SYSTEM



NOTE :

1. Measurement Tollerance + 0,25%

scale 1/20

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	08/08/2024	Flamminio	Santinelli	Santinelli	As Built (ASB)
2	03/07/2024	Flamminio	Santinelli	Santinelli	Accepted for Construction (AFC)
1	04/03/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)
0	07/02/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)

DWG n° : 231151/SD/6
Item n° : PF1113279/4

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Base Frame Fixing System

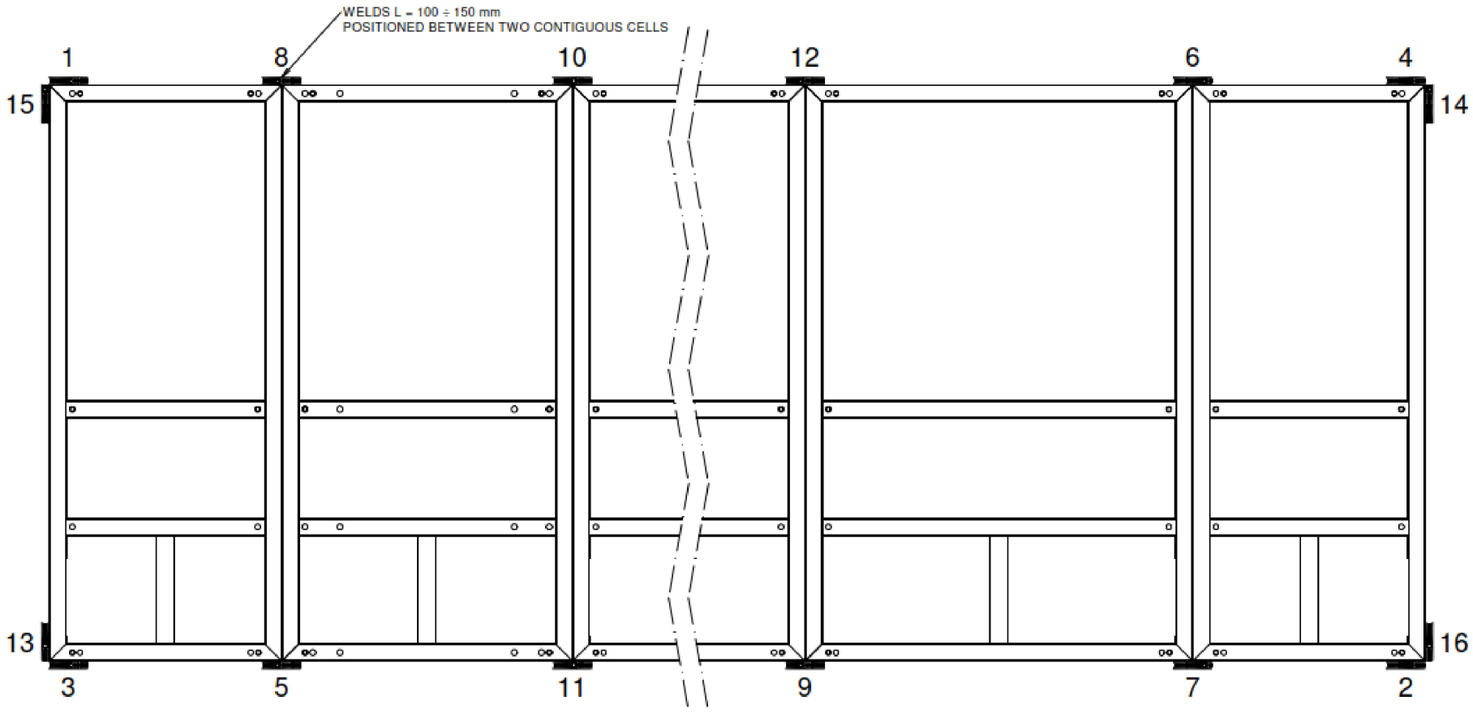
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE : NTS

A3 | DRAWING NO. 1723002197-EL-DA-00006 | SHEET 013 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03

BASE FRAME FIXING SYSTEM



REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	08/08/2024	Flamminio	Santinelli	Santinelli	As Built (ASB)
2	03/07/2024	Flamminio	Santinelli	Santinelli	Accepted for Construction (AFC)
1	04/03/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)
0	07/02/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)

DWG n° : 231151/SD/6
Item n° : PF1113279/4

IMESA ELECTRICAL ENGINEERING

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Base Frame Fixing System

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 014

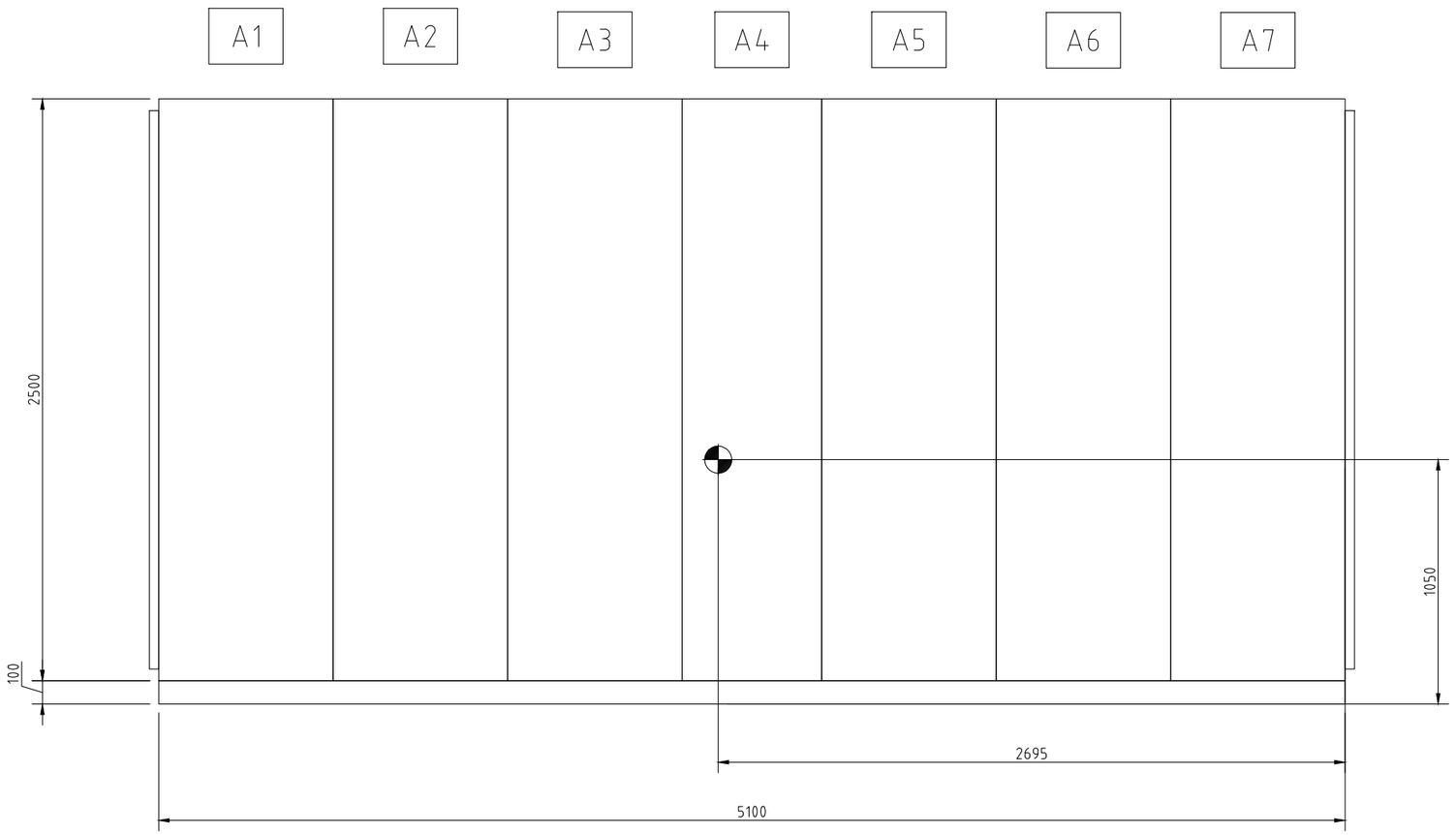
REV. 03

F.to UNI A3: 420mmx297mm

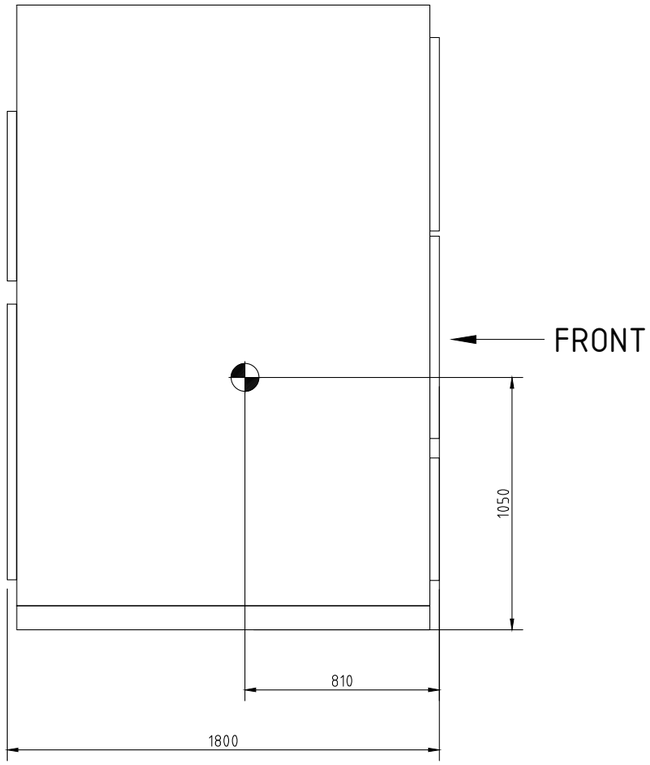
File Name : 1723002197-EL-DA-00006 Rev. 03

CENTER OF GRAVITY

FRONT VIEW



SIDE VIEW



scale 1/25

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	08/08/2024	Flamminio	Santinelli	Santinelli	As Built (ASB)
2	03/07/2024	Flamminio	Santinelli	Santinelli	Accepted for Construction (AFC)
1	04/03/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)
0	07/02/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)

CROSSWIND

ROSETTI MARINO

IMESA ELECTRICAL ENGINEERING

DWG n° : 231151/SD/6

Item n° : PF1113279/4

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Switchgear Center of Gravity

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

SCALE : NTS

A3

DRAWING NO. 1723002197-EL-DA-00006

SHEET 015

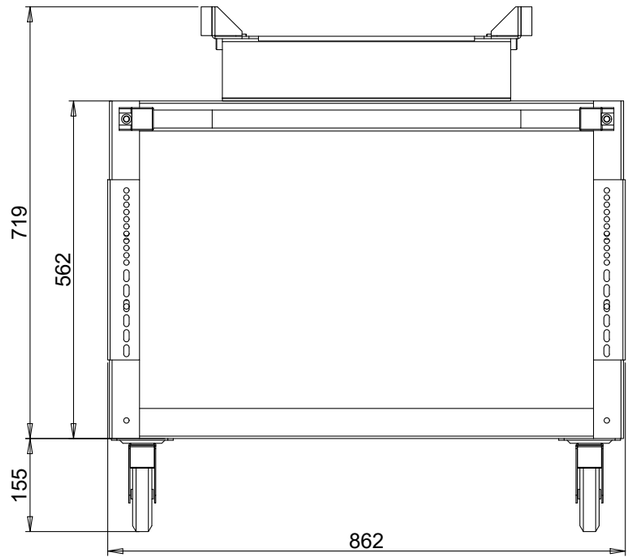
REV. 03

F.to UNI A3: 420mmx297mm

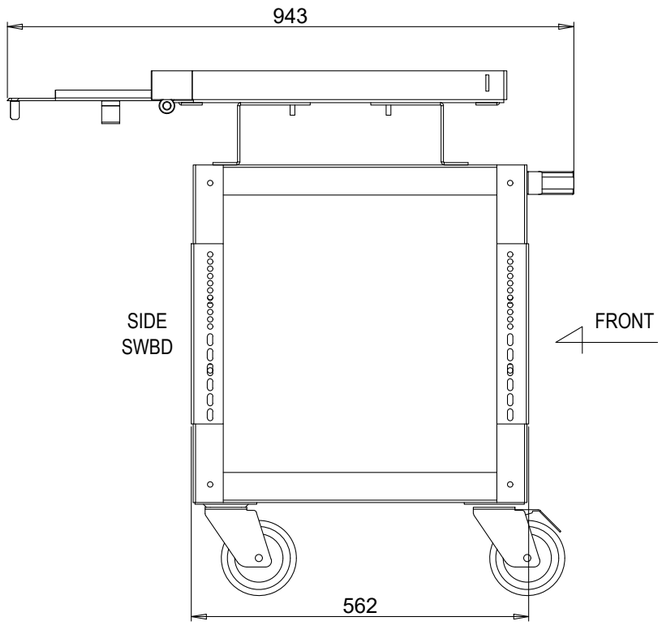
File Name : 1723002197-EL-DA-00006 Rev. 03

EXTRACTION TRUCK FOR CIRCUIT BREAKER/CONTACTOR

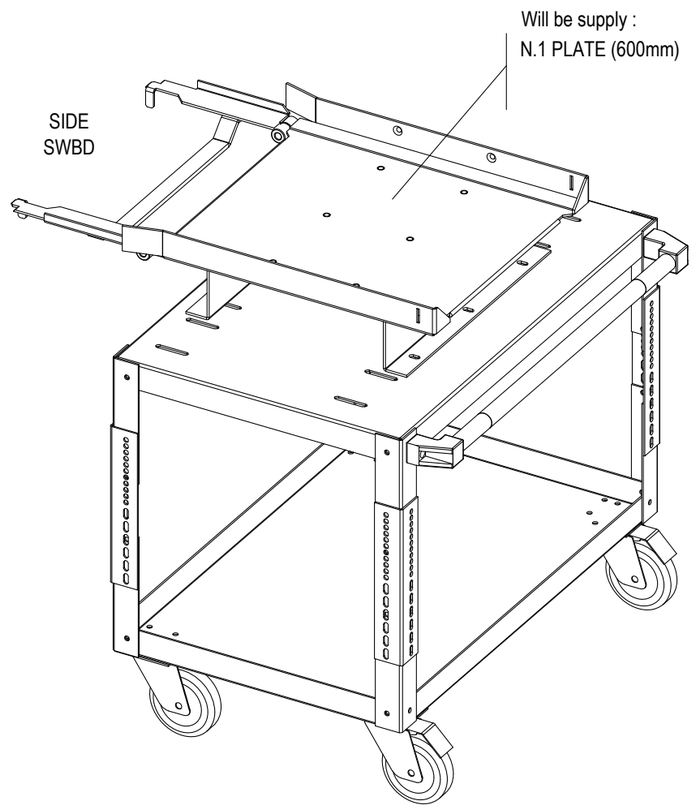
FRONT VIEW

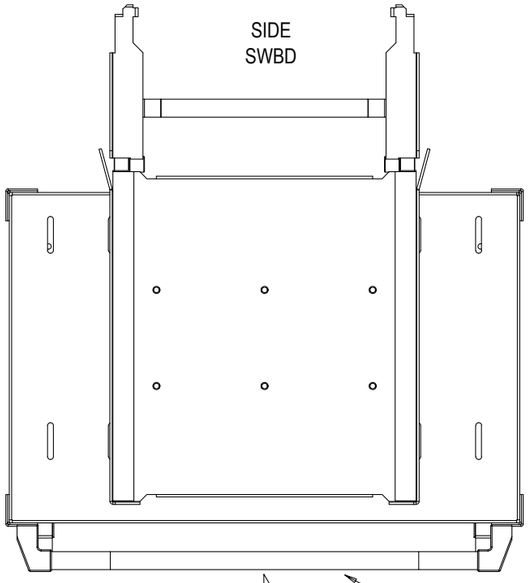


SIDE VIEW



ASSONOMETRIC VIEW





TOP VIEW

NOTE :
Measurement Tollerance + 0,25%

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
=					
+					
3	08/08/2024	Flamminio	Santinelli	Santinelli	As Built (ASB)
2	03/07/2024	Flamminio	Santinelli	Santinelli	Accepted for Construction (AFC)
1	04/03/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)
0	07/02/2024	Flamminio	Santinelli	Santinelli	Issued for review (IFR)

DWG n° : 231151/SD/6
Item n° : PF1113279/4

CROSSWIND

ROSETTI MARINO

TITLE : "SG-100D1"

GENERAL ARRANGEMENTS
Extraction Truck for Circuit Breaker/Contactor

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

A3 | DRAWING NO. 1723002197-EL-DA-00006 | SHEET 016 | REV. 03

F.to UNI A3: 420mmx297mm

File Name : 1723002197-EL-DA-00006 Rev. 03