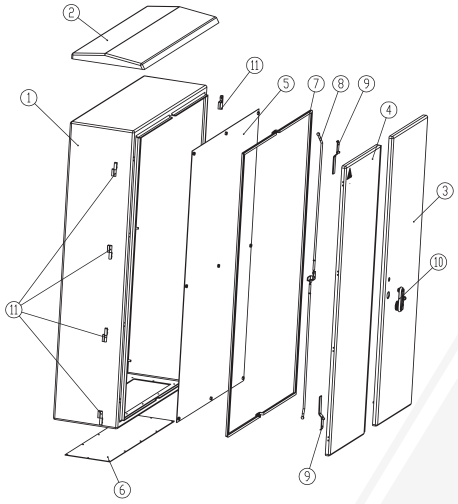
Product Datasheet

POLYESTER ENCLOSURE
DOUBLE DOOR

GRP Double Door Enclosures are used for outdoor application with weatherproof and antistatic properties, finding their major application in the protection of LV and MV electrical distribution panels housed in them. Certified to the standards of the Power and Water utility authorities, double door enclosures are primarily utilized for front and controlled access to distribution circuits. Our multiple options allow our customers to customize the final product to meet their requirement.

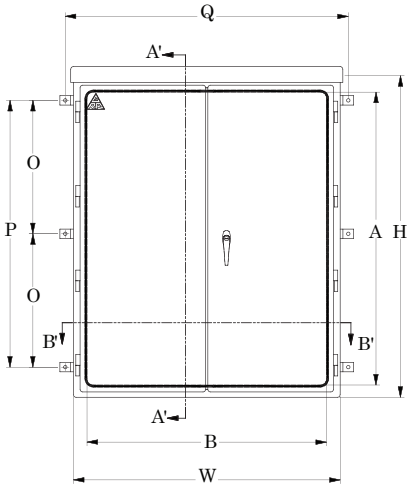


1. GRP enclosure body
2. GRP large rain canopy
3. GRP right door
4. GRP left door
5. G.I mounting plate
6. G.I gland plate
7. EPDM rubber gasket
8. G.I 3 point cam & tie rod
9. G.I internal lock latch
10. Polyamide swing type lock
11. Zinc die cast lift off type hinges

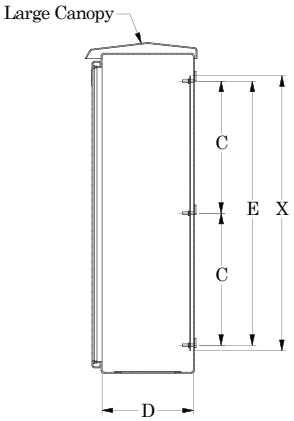
Features	Specifications	Other Options
Ingress Protection	IP-55 BS EN 60529:1992	IP-65/66 and lower
Weatherproof	UV Resistant - ASTM G154 Certified	
High Impact Resistant	IK8, BS EN 62262-22002 Certified	IK10, Anti-vandal sandwich construction with encapsulated plywood
Fire Retardant and Self Extinguishing	UL 94, BS 476:Part 7:1997 Class 2 Certified	Higher fire resistance upto Class 0
Anti-Static	IEC-60079-0 Certified	
Wall Thickness	4.5 ± 0.5mm generally and 6 ± 0.5mm at stress points	Increased wall thickness
Semi-Gloss External Gelcoat Finish	Light grey RAL 7035	Alternate RAL colors available on request refer to RAL Color chart on page 4
Long Life & High Temperature Resistant Rubber Seal	EPDM rubber gasket installed	Please refer page 7
Corrosion Resistant	SS 316 Stainless steel accessories	Please refer page 5
Customizable	Alternate sizes, accessories and options to match required specifications	Please refer page 5
Wireless Transparency	Freely permeable to Electromagnetic and Radio signals	

View Our Product Catalogue

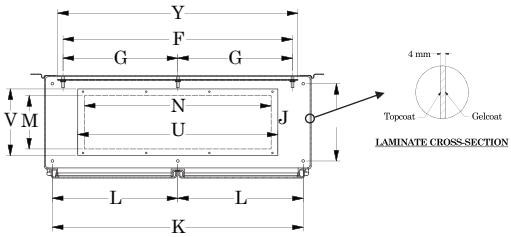
POLYESTER ENCLOSURE-DOUBLE DOOR



FRONT ELEVATION



SECTION A'-A'



SECTION B'-B'

Measurements

Double Door

All dimensions in mm

Sl No.	Product Reference	Internal Size			Clear Opening		*C/C of Studs				Mounting Plate Size		Gland Plate Cut Out Size			Gland Plate Size		C/C of Wall Brackets			C/C of Foundation Bolts			Total Weight (Kg ± 1) ***
		H	W	D	A	B	C	E	F	G	X	Y	N	N'**	M	U	V	O	P	Q	K	L	J	
1	D 075090025	750	900	250	630	780	-	540	780	-	580	820	600		120	650	170	-	650	975	800	-	200	26
2	D 100080030	1000	800	300	880	680	-	800	680	-	840	720	600		150	650	200	-	895	870	700	-	250	30
3	D 100100030	1000	1000	300	880	880	-	800	850	-	840	890	800		150	850	200	445	890	1070	900	-	250	45
4	D 120100030	1200	1000	300	1080	880	500	1000	850	-	1040	890	800		150	850	200	545	1090	1070	900	-	250	50
5	D 120100035	1200	1000	350	1080	880	500	1000	850	-	1040	890	800		200	850	250	545	1090	1075	900	-	300	51
6	D 120100040	1200	1000	400	1080	880	500	1000	850	-	1040	890	800		200	850	250	545	1090	1070	900	-	350	52
7	D 120120030	1200	1200	300	1080	1080	500	1000	1050	525	1040	1090	-	400	150	1050	200	545	1090	1270	1100	550	250	54
8	D 120120035	1200	1200	350	1080	1080	500	1000	1050	525	1040	1090	-	400	200	1050	250	545	1090	1280	1100	550	300	55
9	D 120120060	1200	1200	600	1080	1080	500	1000	1050	525	1040	1090	-	440	250	1050	300	545	1090	1285	1100	550	550	58
10	D 120135040	1200	1350	400	1080	1230	500	1000	1180	590	1040	1220	-	485	200	1220	250	545	1090	1420	1250	625	350	57
11	D 120150030	1200	1500	300	1080	1380	500	1000	1350	675	1040	1390	-	485	150	1220	200	545	1090	1570	1400	700	250	59
12	D 140100040	1400	1000	400	1280	880	590	1180	880	-	1220	920	800		200	850	250	645	1290	1070	900	-	350	55
13	D 150120050	1500	1200	500	1380	1080	590	1180	1050	525	1220	1090	-	400	230	1050	280	700	1400	1280	1100	550	450	64
14	D 150150050	1500	1500	500	1380	1380	590	1180	1350	675	1220	1390	-	485	230	1220	280	700	1400	1580	1400	700	450	79
15	D 150210040	1500	2100	400	1380	1970	590	1180	1950	975	1220	1990	-	-	200	1850	250	700	1400	2185	2000	1000	350	130
16	D 160100040	1600	1000	400	1480	880	680	1360	850	-	1400	890	800	-	200	850	250	745	1490	1070	900	-	350	60
17	D 160140050	1600	1400	500	1480	1280	680	1360	1180	590	1400	1220	-	485	230	1220	280	745	1490	1485	1300	650	450	93
18	D 160150040	1600	1500	400	1480	1380	590	1180	1350	675	1220	1390	-	485	200	1220	250	750	1500	1580	1400	700	350	78
19	D 160165050	1600	1650	500	1480	1530	590	1180	1350	675	1220	1390	-	485	230	1220	280	750	1500	1730	1550	775	450	86
20	D 180120040	1800	1200	400	1670	1080	800	1600	1050	525	1640	1090	-	400	200	1050	250	850	1700	1275	1100	550	350	67
21	D 180140040	1800	1400	400	1670	1280	800	1600	1180	590	1640	1220	-	485	200	1220	250	850	1700	1485	1300	650	350	78
22	D 180140060	1800	1400	600	1670	1280	800	1600	1180	590	1640	1220	-	485	250	1220	300	850	1700	1485	1300	650	550	85
23	D 180180050	1800	1800	500	1670	1670	Refer page 3 for Split Mounting/Gland Plate Measurement details											850	1700	1890	1700	850	450	109
24	D 200170060	2000	1700	600	1870	1570												950	1900	1780	1600	800	550	129
25	D 200200060	2000	2000	600	1860	1860												950	1900	2090	1900	950	550	133
26	D 200220090	2000	2200	900	1860	2060												950	1900	2290	2100	1050	850	138
27	D 215135060	2150	1350	600	2030	1230	975	1950	1180	590	1990	1220	-	485	230	1220	280	1025	2050	1440	1250	625	550	118

Sizes mentioned are standard sizes. Customized sizes are available, please submit your enquiry online or email us at sales@grpindustries.com

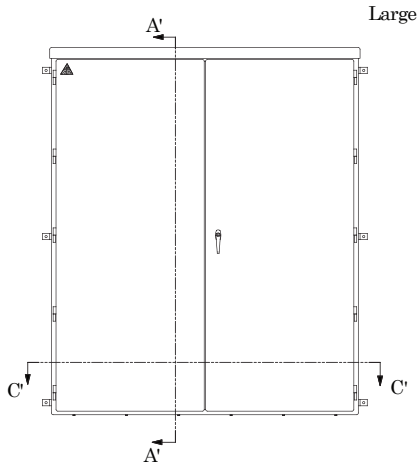
* If mounting plates are not supplied by GRP, location of studs can vary on the basis of client requirements

** Please refer drawing on page 3 for split mounting/gland plate measurements

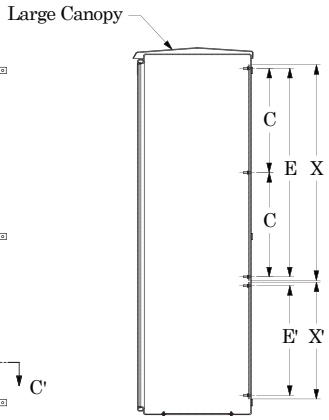
*** All weights mentioned are excluding gland plate and mounting plate

Disclaimer: GRP Industries reserves the right to modify this document without prior notice

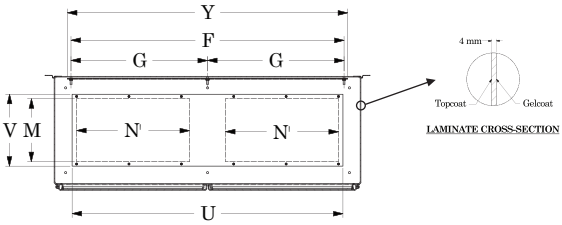
POLYESTER ENCLOSURE-DOUBLE DOOR



FRONT ELEVATION



SECTION A'-A'



SECTION C'-C'

Measurements

Split Mounting/Gland Plate Measurement Details

All dimensions in mm

Sl No.	Product Reference	C/C of Studs					Mounting Plate Size			Gland Plate Cut Out Size		Gland Plate Size	
		C	E	E'	F	G	X	X'	Y	N'	M	U	V
1	D 180180050	590	1180	410	1620	810	1220	450	1660	575	230	1400	280
2	D 200170060	590	1180	610	1520	760	1220	650	1560	575	230	1400	280
3	D 200200060	590	1180	610	1820	910	1220	650	1860	575	230	1400	280
4	D 200220090	590	1180	610	2020	1010	1220	650	2060	575	350	1400	400

Sizes mentioned are standard sizes. Customized sizes are available, please submit your enquiry online or email us at sales@grpindustries.com

POLYESTER ENCLOSURE-DOUBLE DOOR

Material Properties of Glass Reinforced Polyester

- Weather Proof
- Rigid Construction
- Corrosion Resistant
- High Impact Resistant
- Suitable for outdoor use -10°C to +80°C and 100% humidity

Mechanical Data

Titles	Values	Unit	Test Method
Tensile Strength	110 ± 25	Mpa	BS 2782:P10, Method - 1003
Flexural Strength	170 ± 25	Mpa	BS 2782:P10, Method - 1005
Impact Strength	IK8 = 5 joule impact		BSEN 62262:2002 IK8
Tensile Modulus	8000	Mpa	ISO 527-1/2-1993
Flexural Modulus	7000	Mpa	ISO 178-1993
Hardness (Barcol 934-1)	40-45		ASTMD-2583-1987
Tensile Elongation	1.8	% length	ISO 527-1/2-1993
Co-efficient of Thermal Expansion	26 x 10^{-6}	m/°C	
Thermal Conductivity (k)	0.2	W/mK	

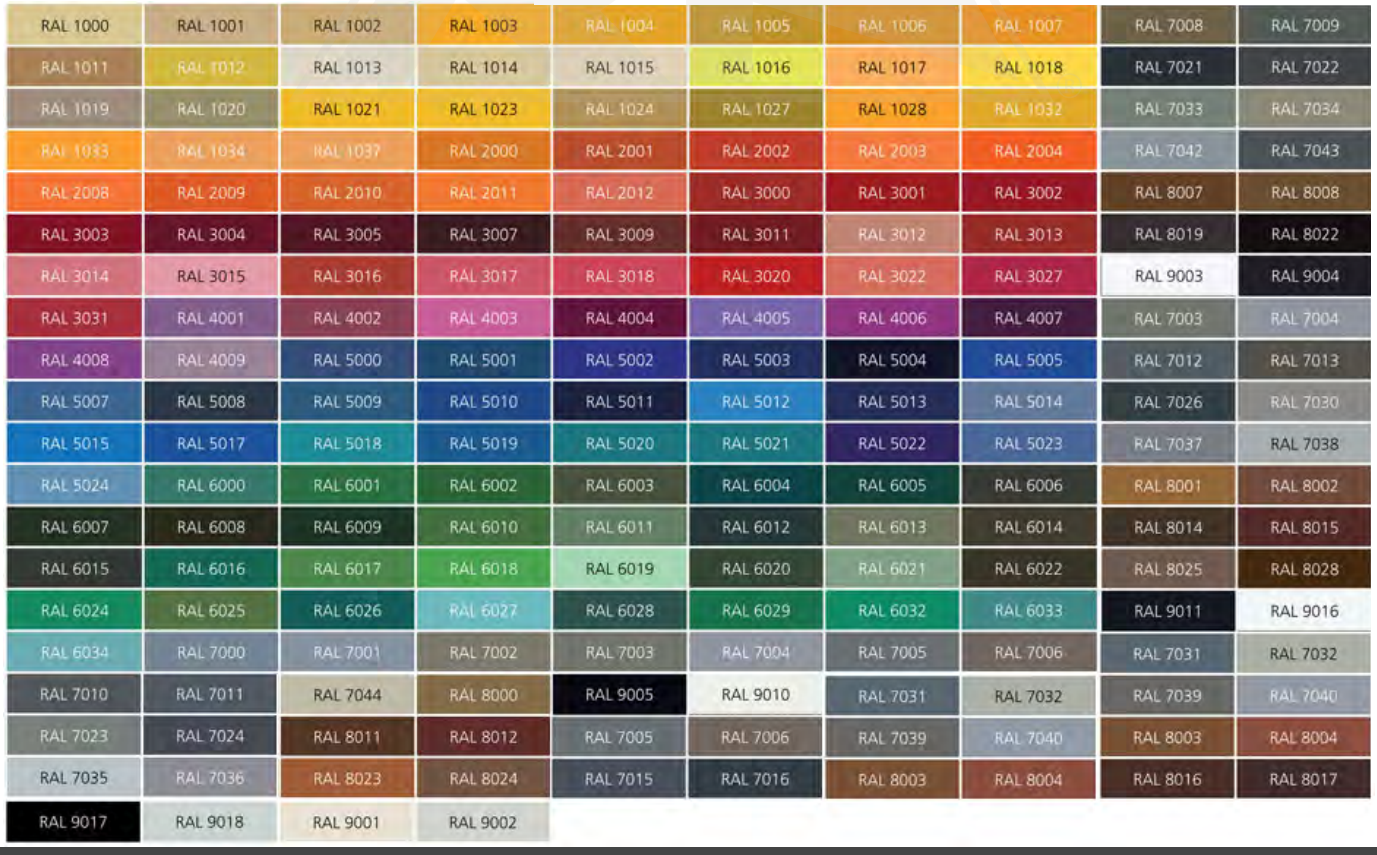
Physical Data

Titles	Values	Unit	Test Method
Water Absorption (7days)	31	mg	BS 2782, Part4: Method 430 A-83
External Finish	Plain semi gloss UV resistant		
Internal Finish	Reasonably smooth flowcoat finish		
Gel Coat Thickness	350-450	microns	
Glass Content	35 ± 5	% weight	BS 2782 P10, Method 1002
Loss on Ignition	65 ± 5	% weight	BS 2782 P10, Method 1002

Standard Colors

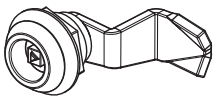
RAL 7035 | RAL 9010 | RAL 1015 | RAL 7032 | RAL 3000

Other Options Availbale



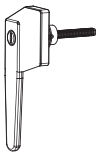
ACCESSORIES

Lock Options



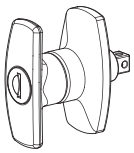
Nickel Chrome Plated Zinc Die Cast
Nickel Chrome Plated SS 316

SQUARE KEY LOCK



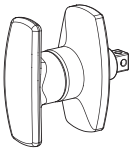
Black Powder Coated Zinc Die Cast

HEAVY DUTY
HANDLE LOCK



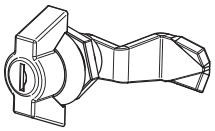
Polyamide with Steel Cylinder
Nickel Chrome Plated Mild Steel
Nickel Chrome Plated SS 316

T-HANDLE LOCK WITH KEY



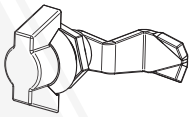
Polyamide
Nickel Chrome Plated Mild Steel
Nickel Chrome Plated SS 316

T-HANDLE LOCK
WITHOUT KEY



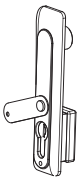
Polyamide with Steel Cylinder

WING TYPE LOCK WITH KEY



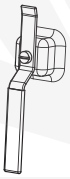
Polyamide

WING TYPE LOCK
WITHOUT KEY



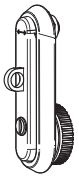
Polyamide with Steel Cylinder
SS 316 with Cylinder

SS SWING TYPE LOCK



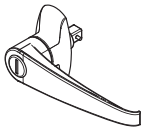
SS 316
Galvanized Iron

INTERNAL LOCK LATCH



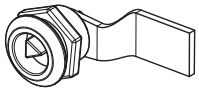
Polyamide with Steel Cylinder
SS 316 with Cylinder

POLYAMIDE SWING TYPE LOCK



Nickel Chrome Plated Zinc Die Cast
Nickel Chrome Plated SS 316

HANDLE TYPE LOCK



Nickel Chrome Plated Zinc Die Cast
Nickel Chrome Plated SS 316

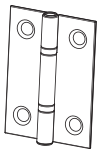
TRIANGULAR KEY LOCK

POLYESTER ENCLOSURE-DOUBLE DOOR

Hinges

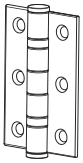
LIFT-OFF TYPE

Zinc Die Cast
SS 316
Chrome Plated SS 316



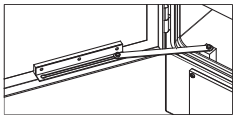
BUTT TYPE 2 INCHES

SS 316
SS 304



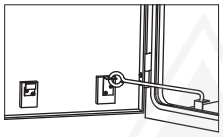
BUTT TYPE 3 INCHES

SS 316
SS 304



AUTO WIND STAY

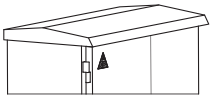
SS 316



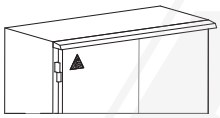
MANUAL WIND STAY

SS 316
Galvanized Iron

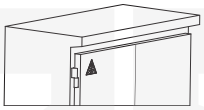
Canopies



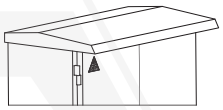
LARGE CANOPY



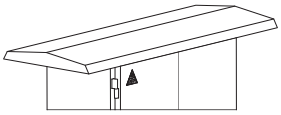
SMALL CANOPY



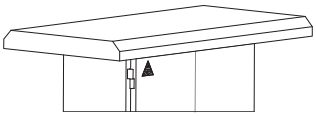
IN-BUILT CANOPY



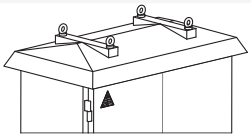
FRONT EXTENDED LARGE CANOPY



2 SIDES EXTENDED CANOPY

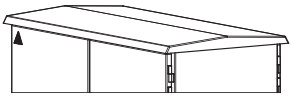


4 SIDES EXTENDED CANOPY



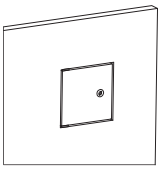
CANOPY WITH LIFTING HOOKS

HINGED OPEN TYPE CANOPY

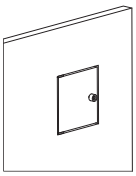


FRONT & REAR EXTENDED CANOPY

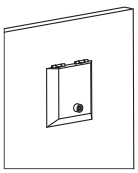
Shutters



SHUTTER WITH SQUARE KEY LOCK



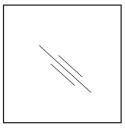
SHUTTER WITH KNOB HANDLE



FLAP SHUTTER

POLYESTER ENCLOSURE-DOUBLE DOOR

Glass Windows



Toughened Glass
Polycarbonate

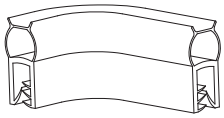
GLASS WINDOW

Toughened Glass
Polycarbonate

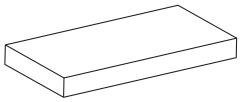
GLASS WINDOW WITH GASKET

Gaskets

V TYPE



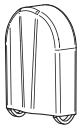
BULB TYPE



FLAT TYPE

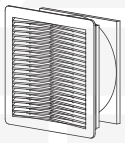
PROFILE TYPE

Ventilators



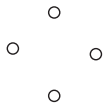
IP 43 VENTILATOR

IP 54/55 VENTILATOR



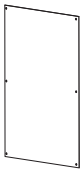
IP 54/55 VENTILATOR WITH FAN

SLOTTED NATURAL VENTILATION



SMALL HOLES NATURAL VENTILATION

Plates / Mounting Studs

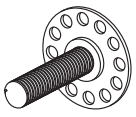


MOUNTING PLATE

- Galvanized Iron Epoxy Painted
- Galvanized Iron Powder Coated
- Galvanized Iron
- Stainless Steel (SS 304)
- Stainless Steel (SS 316)
- Stainless Steel (SS 316 L)
- Aluminum
- Brass
- GRP
- Marine Plywood

GLAND PLATE

- Galvanized Iron Epoxy Painted
- Galvanized Iron Powder Coated
- Galvanized Iron
- Stainless Steel (SS 304)
- Stainless Steel (SS 316)
- Stainless Steel (SS 316 L)
- Aluminum
- Brass
- GRP

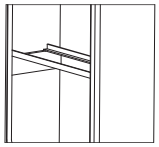


MOUNTING STUD

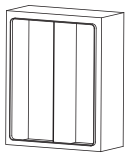
- Galvanized Iron
- SS 316

POLYESTER ENCLOSURE-DOUBLE DOOR

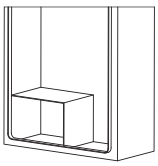
Partitions and Chambers



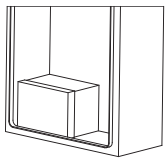
ANGLE RACK



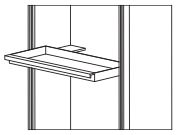
GRP PARTITION



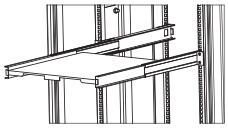
EQUIPMENT CHAMBER



EQUIPMENT CHAMBER WITH LID

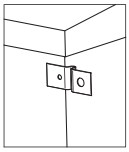


GRP SLIDING
BATTERY RACK



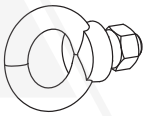
GRP SLIDING
LAPTOP RACK

Fixing Arrangements



STEP TYPE WALL
MOUNTING BRACKET

SS 316

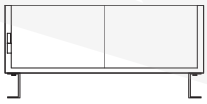


LIFTING HOOK

SS 316
Galvanized Iron

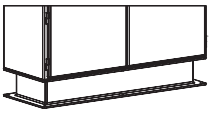
PEDESTAL TYPE 1

Galvanized Iron
GRP



PEDESTAL TYPE 2

Galvanized Iron
GRP



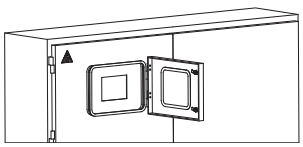
PEDESTAL TYPE 3

Galvanized Iron
GRP

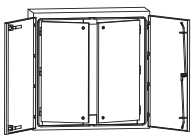
POLE MOUNTING
BRACKET

SS 316
Galvanized Iron

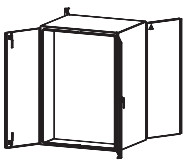
Additional Doors



EXTERNAL HINGED DOOR



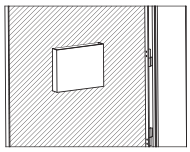
INTERNAL DOOR



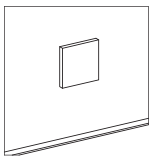
FRONT & REAR SIDE DOORS

POLYESTER ENCLOSURE-SINGLE DOOR

Miscellaneous Add-ons

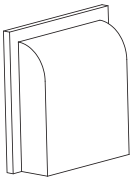


DRAWING POCKET



INTERNAL PADDING

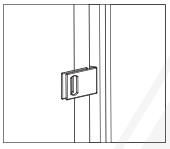
EXTERNAL PADDING



GRP HOOD

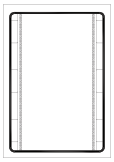
DRAIN

SS 316



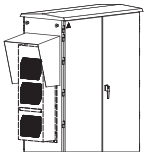
PAD LOCK

SS 316
Aluminium

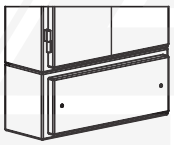


MOUNTING RAIL

Galvanized Iron



AC PROVISION
WITH/WITHOUT SHADE
(AC not provided)



GLAND BOX
(Front / Front & Rear)