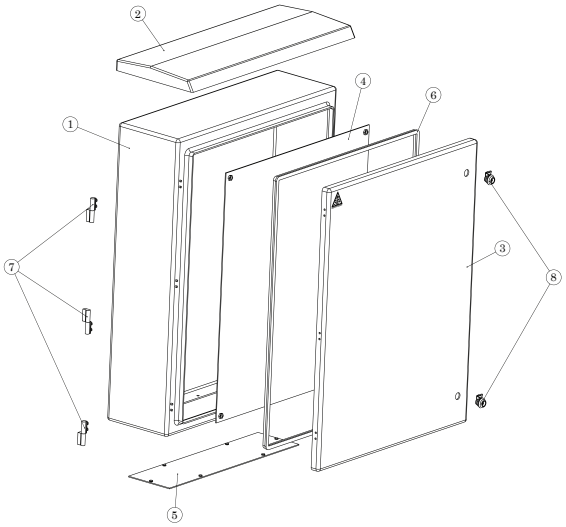
Product Datasheet

POLYESTER ENCLOSURE
SINGLE DOOR



GRP Single 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, single door enclosures are primarily utilized for front and single access to compact switchboards. Our multiple options allow our customers to customize the final product to meet their requirement.



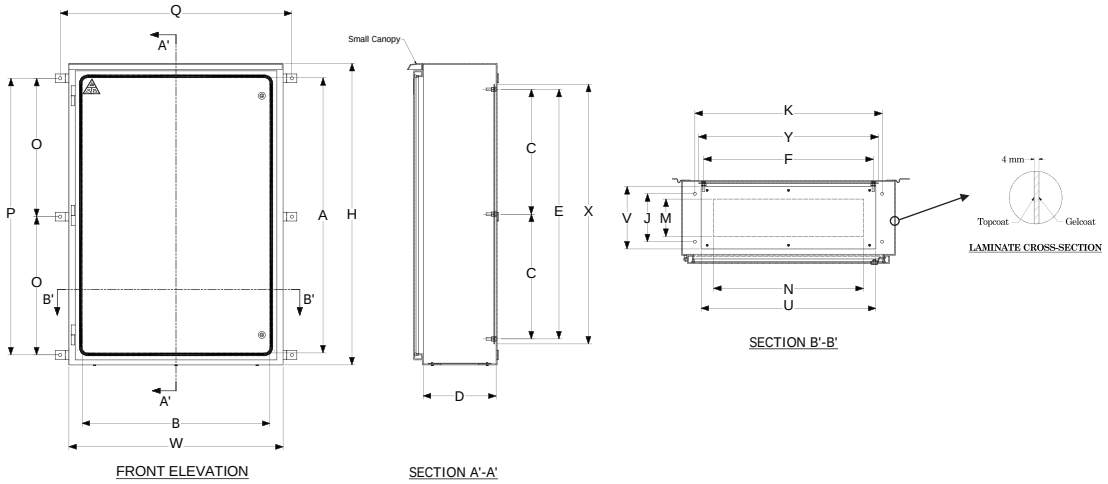
1.	GRP enclosure body
2.	GRP large rain canopy
3.	GRP door
4.	G.I Mounting plate
5.	G.I Gland plate
6.	EPDM rubber gasket
7.	Zinc die cast lift off type hinges
8.	Zinc die cast square key locks

Features	Specifications	Other Options
Ingress Protection	IP-55 BS EN 60529:1992 and NEMA 4x Certified	IP-65/66 and lower, NEMA 4X 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-SINGLE DOOR



FRONT ELEVATION

SECTION A'-A'

SECTION B'-B'

LAMINATE CROSS-SECTION

Measurements

Single Door Small Canopy

All dimensions in mm

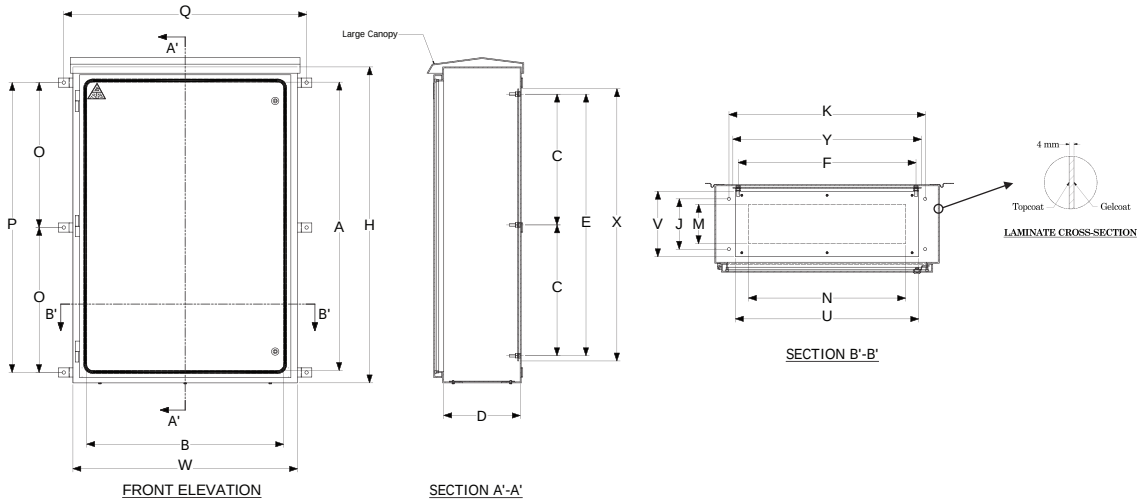
Sl No.	Product Reference	Internal Size			Clear Opening		C/C of Studs			Mounting Plate Size		Gland Plate Cut Out		Gland Plate Size		C/C of Wall Brackets			C/C of Foundation Bolts		Total Weight (Kg ± 1) *
		H	W	D	A	B	C	E	F	X	Y	N	M	U	V	O	P	Q	K	J	
1	SM 045030018	450	300	180	330	180	-	300	210	340	240	200	80	250	130	-	345	335	200	130	7.5
2	SM 045040020	450	400	200	330	280	-	300	300	340	340	300	80	350	130	-	345	445	300	150	8.5
3	SM 049039020	490	390	200	370	270	-	350	300	390	340	300	80	350	130	-	395	440	290	150	9.5
4	SM 050050030	500	500	300	380	380	-	350	400	390	440	350	150	400	200	-	395	545	400	250	11.5
5	SM 050050040	500	500	400	380	380	-	350	400	390	440	350	150	400	200	-	395	545	400	350	12.5
6	SM 052052020	520	520	200	400	400	-	350	400	390	440	400	80	450	130	-	410	560	420	150	11.5
7	SM 060040020	600	400	200	480	280	-	450	310	490	350	300	80	350	130	-	500	450	300	150	11.5
8	SM 060040025	600	400	250	480	280	-	450	310	490	350	300	100	350	150	-	500	450	300	200	11.5
9	SM 060045025	600	450	250	480	330	-	450	350	490	390	350	120	400	170	-	500	500	350	200	13.5
10	SM 060050020	600	500	200	480	380	-	450	390	490	430	350	80	400	130	-	485	540	400	150	12.5
11	SM 060060050	600	600	500	480	480	-	450	480	490	520	500	350	450	300	-	500	650	500	450	19
12	SM 065035024	650	350	240	530	230	-	490	250	530	290	250	80	300	130	-	545	390	250	190	11.5
13	SM 065055021	650	550	210	530	430	-	490	430	530	470	400	80	450	130	-	545	590	450	160	14.5
14	SM 080060020	800	600	200	680	480	-	650	480	690	520	400	80	450	130	-	695	645	500	150	19.5
15	SM 080060040	800	600	400	680	480	-	650	480	690	520	400	200	450	250	-	695	645	500	350	22
16	SM 080080030	800	800	300	680	680	-	600	680	640	720	600	150	650	200	-	695	845	700	250	24
17	SM 085055028	850	550	280	730	430	-	650	450	690	490	400	120	450	170	-	755	595	450	230	19
18	SM 085060020	850	600	200	730	480	-	650	480	690	520	400	80	450	130	-	745	645	500	150	20
19	SM 085075020	850	750	200	730	630	-	650	610	690	570	450	80	500	130	-	745	800	650	150	21
20	SM 098063028	985	635	285	865	515	-	800	480	840	520	400	150	450	200	-	890	680	535	235	27
21	SM 100060025	1000	600	250	880	480	-	800	480	840	520	400	120	450	170	-	895	640	500	200	23
22	SM 100060040	1000	600	400	880	480	-	800	480	840	520	400	200	450	250	-	895	645	500	350	26
23	SM 100080025	1000	800	250	880	680	-	800	680	840	720	600	120	650	170	-	890	840	700	200	26
24	SM 100080030	1000	800	300	880	680	-	800	680	840	720	600	150	650	200	-	895	845	700	250	28
25	SM 100090040	1000	900	400	880	780	-	800	780	840	820	700	200	750	250	-	895	945	800	350	36
26	SM 120085030	1200	850	300	1080	730	500	1000	680	1040	720	600	150	650	200	545	1090	895	750	250	39
27	SM 140080030	1400	800	300	1280	680	590	1180	680	1220	720	600	150	650	200	645	1290	845	700	250	42
28	SM 160080030	1600	800	300	1480	680	680	1360	680	1400	720	600	150	650	200	745	1490	845	700	250	45

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

* All weights mentioned are excluding gland plate and mounting plate

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POLYESTER ENCLOSURE-SINGLE DOOR



FRONT ELEVATION

SECTION A'-A'

SECTION B'-B'

Measurements

Single Door Large Canopy

All dimensions in mm

Sl No.	Product Reference	Internal Size			Clear Opening		C/C of Studs			Mounting Plate Size		Gland Plate Cut Out		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	X	Y	N	M	U	V	O	P	Q	K	J	
1	S 080060020	800	600	200	680	480	-	650	480	690	520	400	80	450	130	-	695	670	500	150	21
2	S 080060025	800	600	250	680	480	-	650	480	690	520	400	80	450	130	-	695	670	500	200	22
3	S 080060040	800	600	400	680	480	-	650	480	690	520	400	200	450	250	-	695	670	500	350	24
4	S 080080030	800	800	300	680	680	-	600	680	640	720	600	150	650	200	-	695	865	700	250	26
5	S 085055028	850	550	280	730	430	-	650	450	690	490	400	120	450	170	-	755	615	450	230	21
6	S 085060020	850	600	200	730	480	-	650	480	690	520	400	80	450	130	-	745	665	500	150	22
7	S 085075020	850	750	200	730	630	-	650	610	690	570	450	80	500	130	-	745	820	650	150	23
8	S 100060025	1000	600	250	880	480	-	800	480	840	520	400	120	450	170	-	895	665	500	200	25
9	S 100060040	1000	600	400	880	480	-	800	480	840	520	400	200	450	250	-	895	670	500	350	28
10	S 100080025	1000	800	250	880	680	-	800	680	840	720	600	120	650	170		890	865	700	200	28
11	S 100080030	1000	800	300	880	680	-	800	680	840	720	600	150	650	200	-	895	870	700	250	30
12	S 100080050	1000	800	500	880	680	-	800	680	840	720	600	250	650	300	-	895	870	700	450	34
13	S 100090040	1000	900	400	880	780	-	800	780	840	820	700	200	750	250	-	895	970	800	350	38
14	S 100100030	1000	1000	300	880	880	-	800	850	840	890	800	150	850	200	-	890	1070	900	250	42
15	S 120085030	1200	850	300	1080	730	500	1000	680	1040	720	600	150	650	200	545	1090	920	750	250	41
16	S 120085060	1200	850	600	1080	730	500	1000	680	1040	720	600	250	650	300	555	1110	930	750	550	45
17	S 120100030	1200	1000	300	1080	880	500	1000	850	1040	890	800	150	850	200	545	1090	1070	900	250	47
18	S 120100040	1200	1000	400	1080	880	500	1000	850	1040	890	800	200	850	250	545	1090	1070	900	350	49
19	S 130080040	1300	800	400	1180	680	590	1180	660	1220	700	600	200	650	250	595	1190	870	700	350	43
20	S 140080030	1400	800	300	1280	680	590	1180	680	1220	720	600	150	650	200	645	1290	870	700	250	44
21	S 140100040	1400	1000	400	1280	880	590	1180	880	1220	920	800	200	850	250	645	1290	1070	900	350	53
22	S 160080030	1600	800	300	1480	680	680	1360	680	1400	720	600	150	650	200	745	1490	870	700	250	48
23	S 160100040	1600	1000	400	1480	880	680	1360	850	1400	890	800	200	850	250	745	1490	1070	900	350	59
24	S 180080060	1800	800	600	1680	680	800	1600	680	1640	720	600	250	650	300	845	1690	880	700	550	60
25	S 190070050	1900	700	500	1780	580	860	1720	570	1760	610	450	250	500	300	895	1790	785	600	450	57
26	S 200080060	2000	800	600	1880	680	915	1830	680	1870	720	600	250	650	300	945	1890	880	700	550	65

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

* All weights mentioned are excluding gland plate and mounting plate

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POLYESTER ENCLOSURE-SINGLE 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	

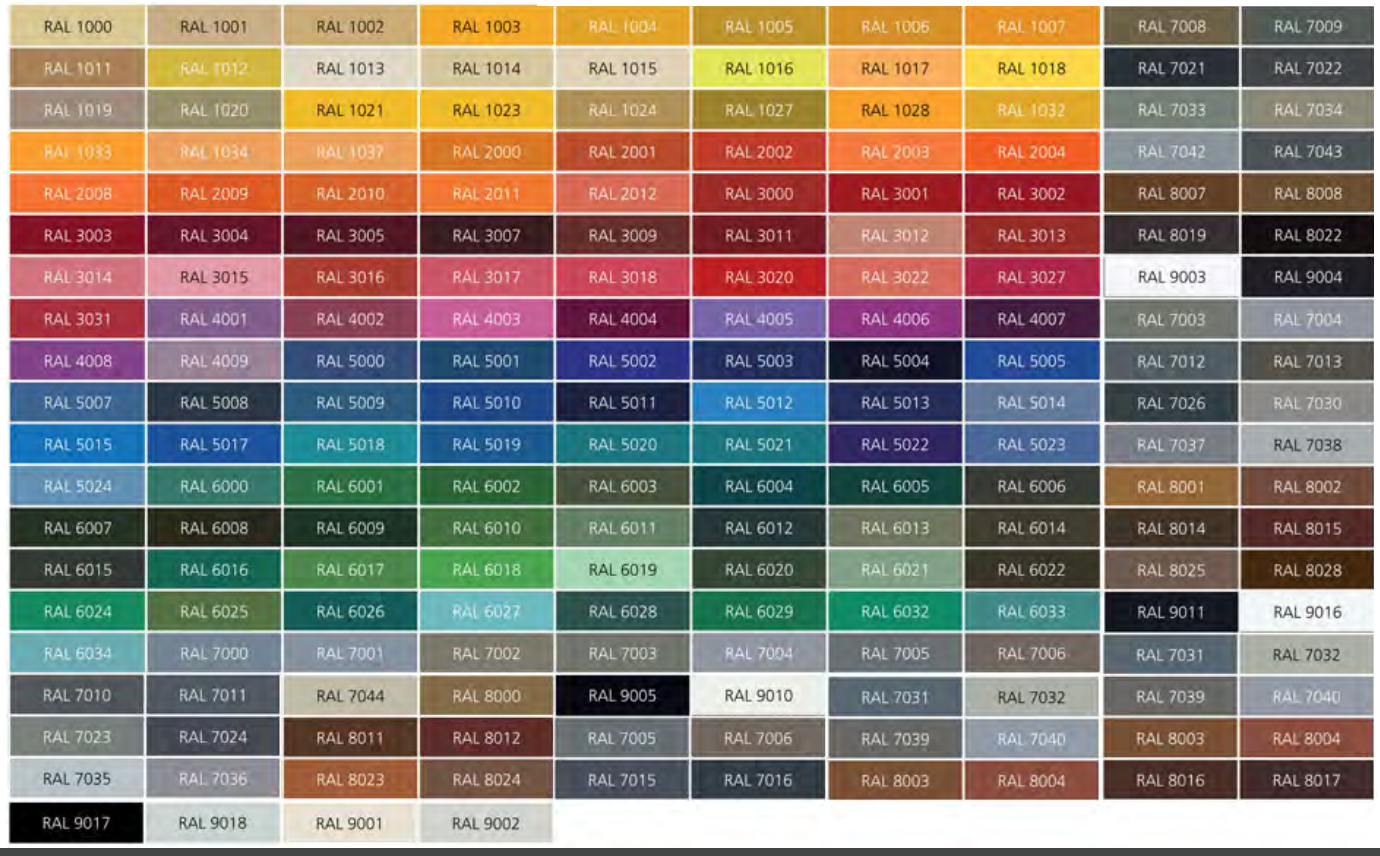
Physical Data

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

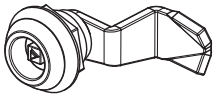
Other Options Availbale



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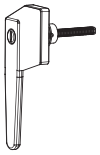
ACCESSORIES

Lock Options



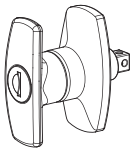
Nickel Chrome Plated Zinc Die Cast
Nickel Chrome Plated SS 316

SQUARE KEY LOCK



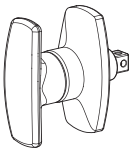
Black Powder Coated Zinc Die Cast

HEAVY DUTY
HANDLE LOCK



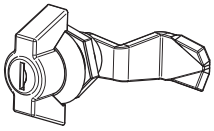
Polyamide with Steel Cylinder
Nickel Chrome Plated Mild Steel
Nickel Chrome Plated SS 316

T-HANDLE LOCK WITH KEY



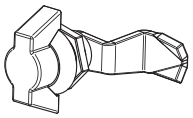
Polyamide
Nickel Chrome Plated Mild Steel
Nickel Chrome Plated SS 316

T-HANDLE LOCK
WITHOUT KEY



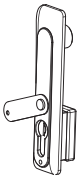
Polyamide with Steel Cylinder

WING TYPE LOCK WITH KEY



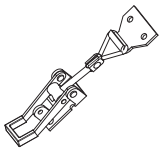
Polyamide

WING TYPE LOCK
WITHOUT KEY



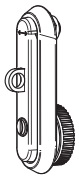
Polyamide with Steel Cylinder
SS 316 with Cylinder

SS SWING TYPE LOCK



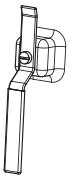
SS 316

TOOGLE LATCH



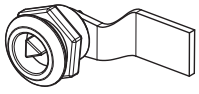
Polyamide with Steel Cylinder
SS 316 with Cylinder

POLYAMIDE SWING TYPE LOCK



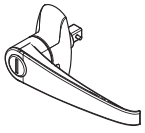
SS 316
Galvanized Iron

INTERNAL LOCK LATCH



Nickel Chrome Plated Zinc Die Cast
Nickel Chrome Plated SS 316

TRIANGULAR KEY LOCK

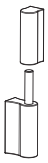


Nickel Chrome Plated Zinc Die Cast
Nickel Chrome Plated SS 316

HANDLE TYPE LOCK

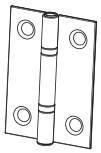
POLYESTER ENCLOSURE-SINGLE DOOR

Hinges



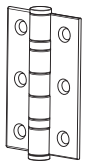
Zinc Die Cast
SS 316
Chrome Plated SS 316

LIFT-OFF TYPE



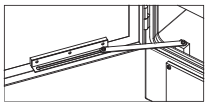
SS 316
SS 304

BUTT TYPE 2 INCHES



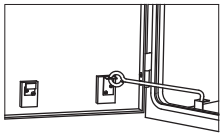
SS 316
SS 304

BUTT TYPE 3 INCHES



SS 316

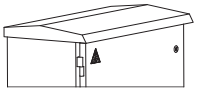
AUTO WIND STAY



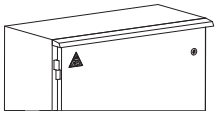
SS 316
Galvanized Iron

MANUAL WIND STAY

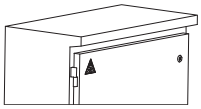
Canopies



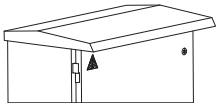
LARGE CANOPY



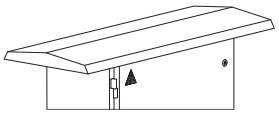
SMALL CANOPY



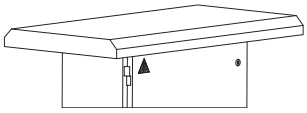
IN-BUILT CANOPY



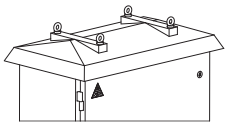
FRONT EXTENDED LARGE CANOPY



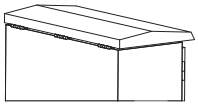
2 SIDES EXTENDED CANOPY



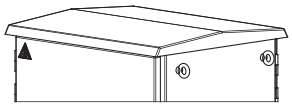
4 SIDES EXTENDED CANOPY



CANOPY WITH LIFTING HOOKS

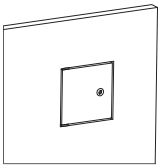


HINGED OPEN TYPE CANOPY

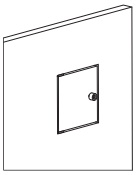


FRONT & REAR EXTENDED CANOPY

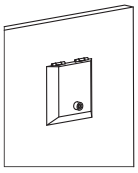
Shutters



SHUTTER WITH SQUARE KEY LOCK



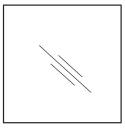
SHUTTER WITH KNOB HANDLE



FLAP SHUTTER

POLYESTER ENCLOSURE-SINGLE DOOR

Glass Windows



Toughened Glass
Polycarbonate

GLASS WINDOW



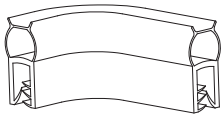
Toughened Glass
Polycarbonate

GLASS WINDOW WITH GASKET

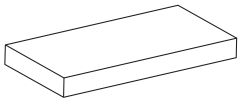
Gaskets



V TYPE



BULB TYPE

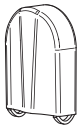


FLAT TYPE



PROFILE TYPE

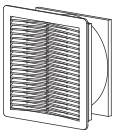
Ventilators



IP 43 VENTILATOR



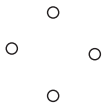
IP 54/55 VENTILATOR



IP 54/55 VENTILATOR WITH FAN

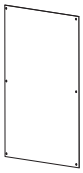


SLOTTED NATURAL VENTILATION



SMALL HOLES NATURAL VENTILATION

Plates / Mounting Studs



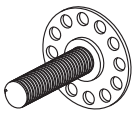
MOUNTING PLATE

- 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

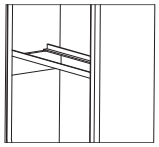


MOUNTING STUD

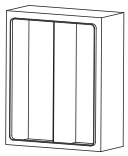
- Galvanized Iron
- SS 316

POLYESTER ENCLOSURE-SINGLE DOOR

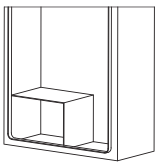
Partitions and Chambers



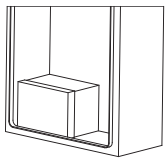
ANGLE RACK



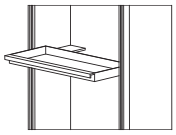
GRP PARTITION



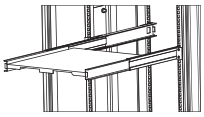
EQUIPMENT CHAMBER



EQUIPMENT CHAMBER WITH LID

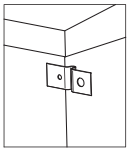


GRP SLIDING
BATTERY RACK



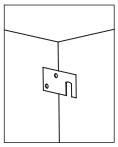
GRP SLIDING
LAPTOP RACK

Fixing Arrangements



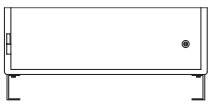
STEP TYPE WALL
MOUNTING BRACKET

SS 316



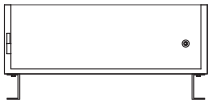
FLAT TYPE WALL
MOUNTING BRACKET

SS 316



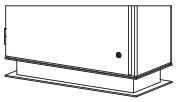
PEDESTAL TYPE 1

Galvanized Iron
GRP



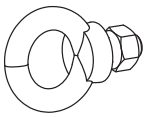
PEDESTAL TYPE 2

Galvanized Iron
GRP



PEDESTAL TYPE 3

Galvanized Iron
GRP



LIFTING HOOK

SS 316
Galvanized Iron

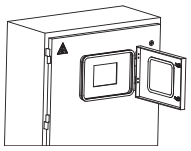


POLE MOUNTING
BRACKET

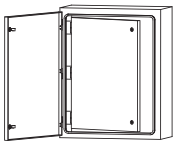
SS 316
Galvanized Iron

POLYESTER ENCLOSURE-SINGLE DOOR

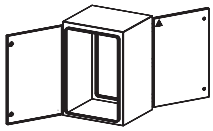
Additional Doors



EXTERNAL HINGED DOOR

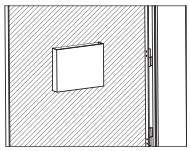


INTERNAL DOOR

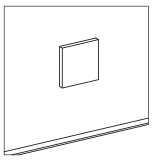


FRONT & REAR SIDE DOORS

Miscellaneous Add-ons



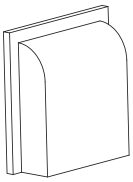
DRAWING POCKET



INTERNAL PADDING



EXTERNAL PADDING

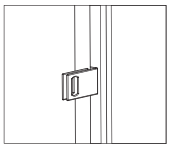


GRP HOOD



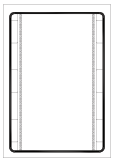
SS 316

DRAIN



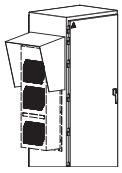
SS 316
Aluminium

PAD LOCK

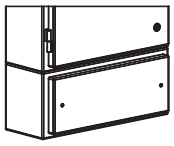


Galvanized Iron

MOUNTING RAIL



AC PROVISION
WITH/WITHOUT SHADE
(AC not provided)



GLAND BOX
(Front / Front & Rear)