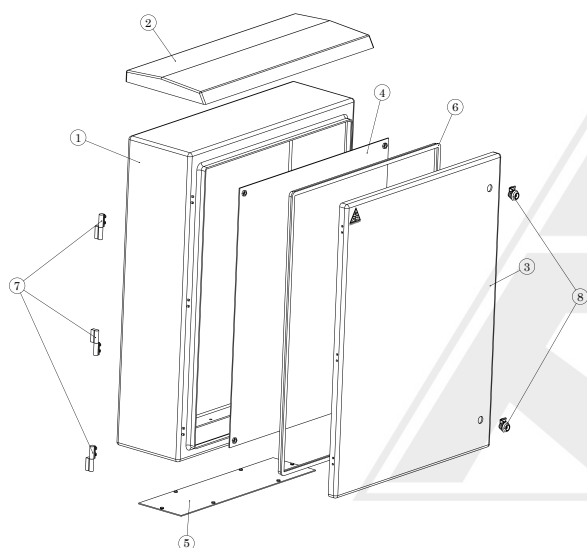
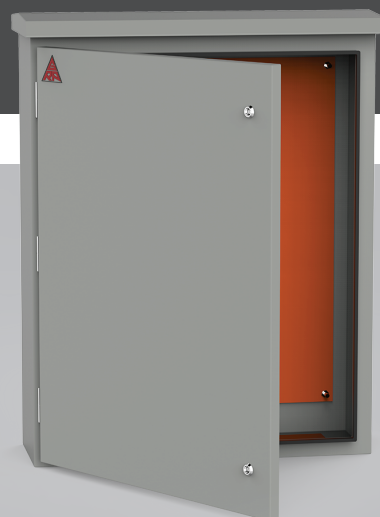


Product Datasheet

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

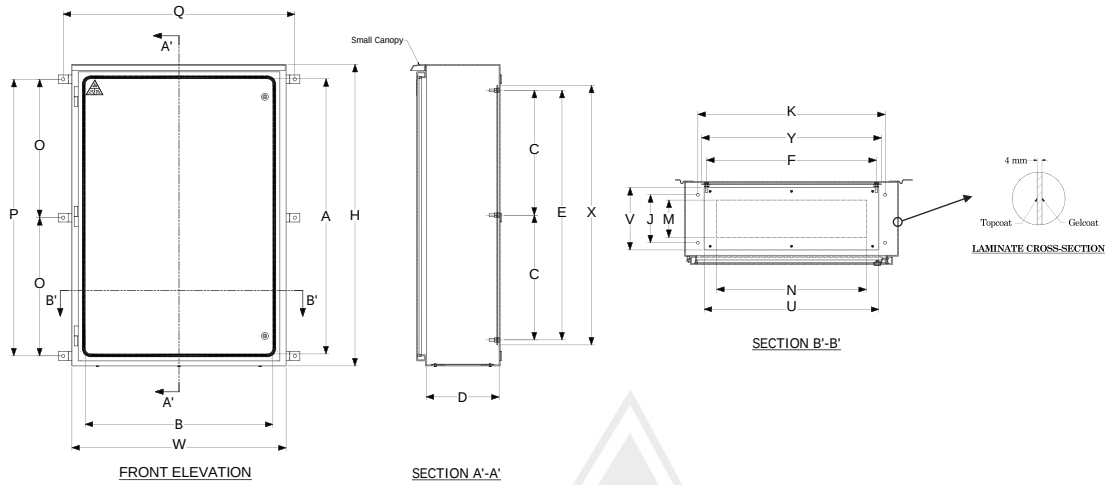
Features	Specifications	Other Options
 Ingress Protection	IP-55 BS EN 60529:1992 and NEMA 4x Certified	IP-65/66 and lower, NEMA 4X and lower
 Weatherproof	UV resistant - ASTM G154 Certified	
 High Impact Resistant	IK8, BS EN 62262-22002 Certified	IK10, Anti-Vandal sandwich construction with encapsulated 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



View Our Product Catalogue



POLYESTER ENCLOSURE-SINGLE DOOR



Measurements

Single Door Small Canopy

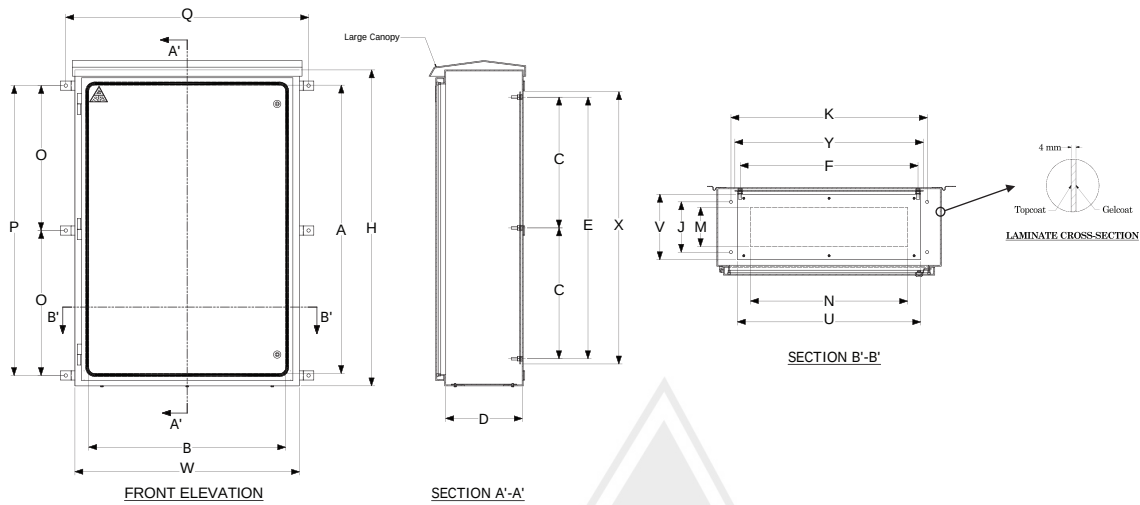
All dimensions in mm

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

* 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-SINGLE DOOR



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 030020012	300	200	120	220	120	-	210	-	250	170	125	60	165	105	-	195	230	100	70	6.5
2	S 080060020	800	600	200	680	480	-	650	480	690	520	400	80	450	130	-	695	670	500	150	21
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	1075	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 190070050	1900	700	500	1780	580	860	1720	570	1760	610	450	250	500	300	895	1790	785	600	450	57
25	S 200080060	2000	800	600	1880	680	915	1830	680	1870	720	600	250	650	300	945	1890	880	700	550	65

* 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

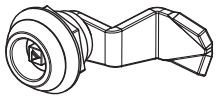
Other Options Availbale

RAL 1000	RAL 1001	RAL 1002	RAL 1003	RAL 1004	RAL 1005	RAL 1006	RAL 1007	RAL 7008	RAL 7009
RAL 1011	RAL 1012	RAL 1013	RAL 1014	RAL 1015	RAL 1016	RAL 1017	RAL 1018	RAL 7021	RAL 7022
RAL 1019	RAL 1020	RAL 1021	RAL 1023	RAL 1024	RAL 1027	RAL 1028	RAL 1032	RAL 7033	RAL 7034
RAL 1033	RAL 1034	RAL 1037	RAL 2000	RAL 2001	RAL 2002	RAL 2003	RAL 2004	RAL 7042	RAL 7043
RAL 2008	RAL 2009	RAL 2010	RAL 2011	RAL 2012	RAL 3000	RAL 3001	RAL 3002	RAL 8007	RAL 8008
RAL 3003	RAL 3004	RAL 3005	RAL 3007	RAL 3009	RAL 3011	RAL 3012	RAL 3013	RAL 8019	RAL 8022
RAL 3014	RAL 3015	RAL 3016	RAL 3017	RAL 3018	RAL 3020	RAL 3022	RAL 3027	RAL 9003	RAL 9004
RAL 3031	RAL 4001	RAL 4002	RAL 4003	RAL 4004	RAL 4005	RAL 4006	RAL 4007	RAL 7003	RAL 7004
RAL 4008	RAL 4009	RAL 5000	RAL 5001	RAL 5002	RAL 5003	RAL 5004	RAL 5005	RAL 7012	RAL 7013
RAL 5007	RAL 5008	RAL 5009	RAL 5010	RAL 5011	RAL 5012	RAL 5013	RAL 5014	RAL 7026	RAL 7030
RAL 5015	RAL 5017	RAL 5018	RAL 5019	RAL 5020	RAL 5021	RAL 5022	RAL 5023	RAL 7037	RAL 7038
RAL 5024	RAL 6000	RAL 6001	RAL 6002	RAL 6003	RAL 6004	RAL 6005	RAL 6006	RAL 8001	RAL 8002
RAL 6007	RAL 6008	RAL 6009	RAL 6010	RAL 6011	RAL 6012	RAL 6013	RAL 6014	RAL 8014	RAL 8015
RAL 6015	RAL 6016	RAL 6017	RAL 6018	RAL 6019	RAL 6020	RAL 6021	RAL 6022	RAL 8025	RAL 8028
RAL 6024	RAL 6025	RAL 6026	RAL 6027	RAL 6028	RAL 6029	RAL 6032	RAL 6033	RAL 9011	RAL 9016
RAL 6034	RAL 7000	RAL 7001	RAL 7002	RAL 7003	RAL 7004	RAL 7005	RAL 7006	RAL 7031	RAL 7032
RAL 7010	RAL 7011	RAL 7044	RAL 8000	RAL 9005	RAL 9010	RAL 7031	RAL 7032	RAL 7039	RAL 7040
RAL 7023	RAL 7024	RAL 8011	RAL 8012	RAL 7005	RAL 7006	RAL 7039	RAL 7040	RAL 8003	RAL 8004
RAL 7035	RAL 7036	RAL 8023	RAL 8024	RAL 7015	RAL 7016	RAL 8003	RAL 8004	RAL 8016	RAL 8017
RAL 9017	RAL 9018	RAL 9001	RAL 9002						

POLYESTER ENCLOSURE-SINGLE DOOR

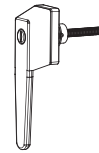
ACCESSORIES

Lock Options



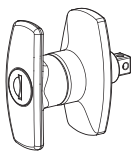
SQUARE KEY LOCK

Nickel Chrome Plated Zinc Die Cast
Nickel Chrome Plated SS 316



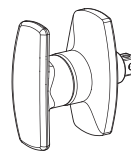
HEAVY DUTY
HANDLE LOCK

Black Powder Coated Zinc Die Cast



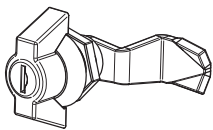
T-HANDLE LOCK WITH KEY

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



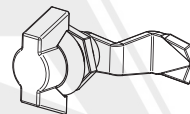
T-HANDLE LOCK
WITHOUT KEY

Polyamide
Nickel Chrome Plated Mild Steel
Nickel Chrome Plated SS 316



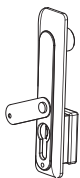
WING TYPE LOCK WITH KEY

Polyamide with Steel Cylinder



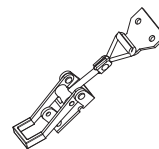
WING TYPE LOCK
WITHOUT KEY

Polyamide



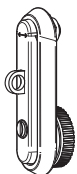
SS SWING TYPE LOCK

Polyamide with Steel Cylinder
SS 316 with Cylinder



TOGGLE LATCH

SS 316



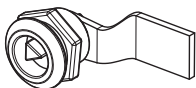
POLYAMIDE SWING TYPE LOCK

Polyamide with Steel Cylinder
SS 316 with Cylinder



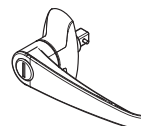
INTERNAL LOCK LATCH

SS 316
Galvanized Iron



TRIANGULAR KEY 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

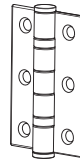
POLYESTER ENCLOSURE-SINGLE DOOR

Hinges



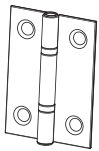
LIFT-OFF TYPE

Zinc Die Cast
SS 316
Chrome Plated SS 316



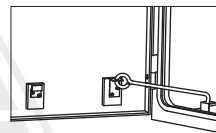
BUTT TYPE 3 INCHES

SS 316
SS 304



BUTT TYPE 2 INCHES

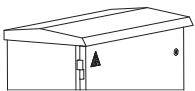
SS 316
SS 304



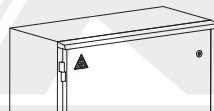
MANUAL WIND STAY

SS 316
Galvanized Iron

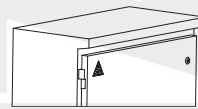
Canopies



LARGE CANOPY



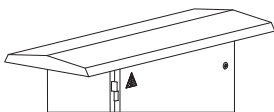
SMALL CANOPY



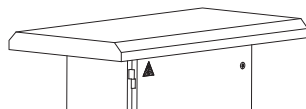
IN-BUILT CANOPY



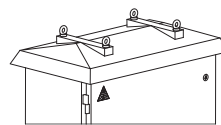
FRONT EXTENDED
LARGE CANOPY



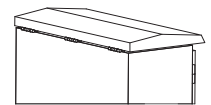
2 SIDES EXTENDED CANOPY



4 SIDES EXTENDED CANOPY

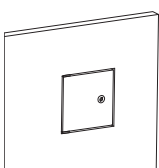


CANOPY WITH LIFTING HOOKS

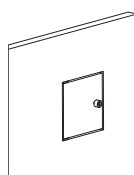


HINGED OPEN TYPE CANOPY

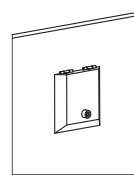
Shutters



SHUTTER WITH SQUARE
KEY LOCK



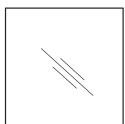
SHUTTER WITH KNOB HANDLE



FLAP SHUTTER

POLYESTER ENCLOSURE-SINGLE DOOR

Glass Windows



Toughened Glass
Polycarbonate

GLASS WINDOW



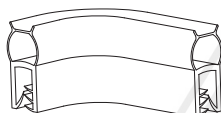
Toughened Glass
Polycarbonate

GLASS WINDOW WITH GASKET

Gaskets



V TYPE



BULB TYPE



FLAT TYPE



PROFILE TYPE

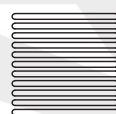
Ventilators



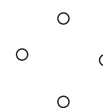
IP 43 VENTILATOR



IP 54 VENTILATOR



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)

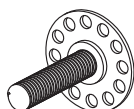
Stainless Steel (SS 316 L)
Aluminum
Brass
GRP
Marine Plywood



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

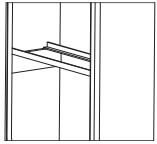


MOUNTING STUD

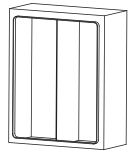
Galvanized Iron
SS 316

POLYESTER ENCLOSURE-SINGLE DOOR

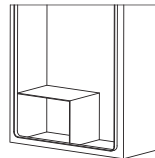
Partitions and Chambers



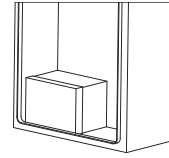
ANGLE RACK



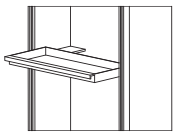
GRP PARTITION



EQUIPMENT CHAMBER

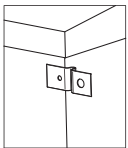


EQUIPMENT CHAMBER WITH LID



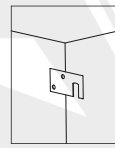
SLIDING RACK

Fixing Arrangements



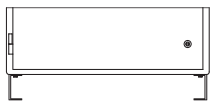
STEP TYPE WALL MOUNTING BRACKET

SS 316



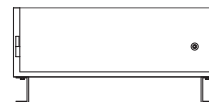
FLAT TYPE WALL MOUNTING BRACKET

SS 316



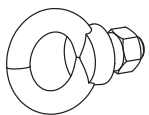
PEDESTAL TYPE 1

Galvanized Iron
GRP



PEDESTAL TYPE 2

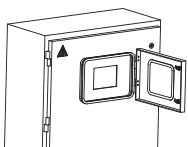
Galvanized Iron
GRP



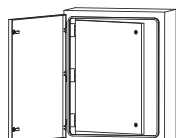
LIFTING HOOK

SS 316
Galvanized Iron

Additional Doors



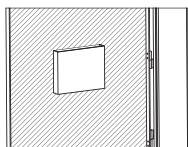
EXTERNAL HINGED DOOR



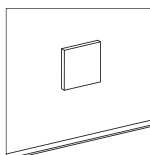
INTERNAL DOOR

POLYESTER ENCLOSURE-SINGLE DOOR

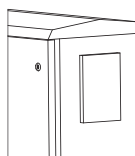
Miscellaneous Add-ons



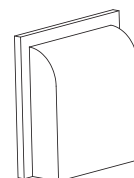
DRAWING POCKET



INTERNAL PADDING



EXTERNAL PADDING

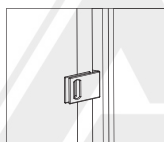


GRP HOOD



DRAIN

SS 316



PAD LOCK

SS 316
Aluminium

