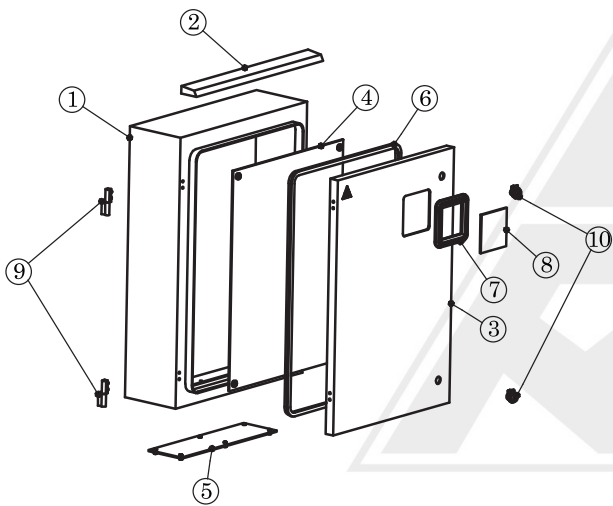


Product Datasheet

POLYESTER ENCLOSURE METERING

GRP Metering Enclosures are used for outdoor application with weatherproof and antistatic properties, finding their major application in the protection of LV electrical components and Utility metering devices housed in them. The enclosures are manufactured with long-life viewing windows for clear visibility of the meters installed internally. The size and number of windows can be customized to suit any requirement. Certified to the standards of the Power and Water utility authorities, metering enclosures/cabinets find a variety of usage to protect water meters, pressure gauges and gas meters.



1. GRP enclosure body
2. GRP small canopy
3. GRP door
4. G.I mounting plate
5. G.I gland plate
6. EPDM rubber gasket
7. EPDM window gasket
8. Toughened glass window
9. Zinc die cast lift-off type hinges
10. Zinc die cast square key locks.

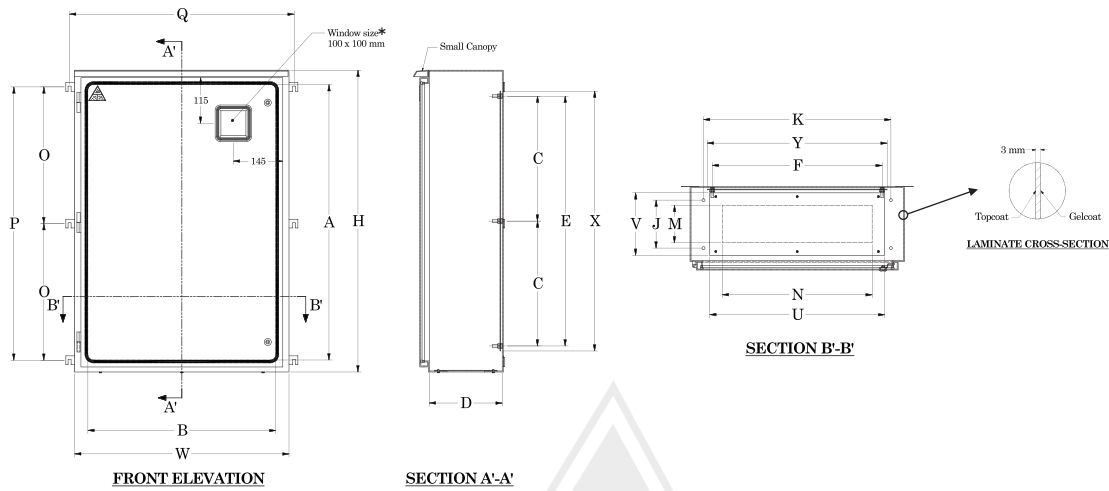
Features	Specifications	Other Options
Ingress Protection	IP-55 BS EN 60529:1992 and NEMA 4x Certified	IP-65/66 and lower, NEMA 4X and lower
Weatherproof	UV resistant - ASTM G154 Certified	
High Impact Resistant	IK8, BS EN 62262-2:2002 Certified	IK10, Anti-Vandal sandwich construction with encapsulated 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	3mm generally and 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 6
Long Life & High Temperature Resistant Rubber Seal	EPDM rubber gasket installed	Please refer page 6
Corrosion Resistant	Galvanized steel and other material	Please refer page 4
Customizable	Alternate sizes, accessories and options to match required specifications	Please refer page 4



View Our Product Catalogue



POLYESTER ENCLOSURE-METERING



* Window size and location can be customized to any requirement

Measurements

All dimensions in mm

SI 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	*M 030020012	300	200	120	220	120	-	210	-	250	170	125	60	165	105	-	195	230	100	70	4
2	M 045030018	450	300	180	330	180	-	300	210	340	240	200	80	250	130	-	345	335	200	130	6
3	M 045040020	450	400	200	330	280	-	300	300	340	340	300	80	350	130	-	345	445	300	150	7
4	M 049039020	490	390	200	370	270	-	350	300	390	340	300	80	350	130	-	395	440	290	150	8
5	M 050050030	500	500	300	380	380	-	350	400	390	440	350	150	400	200	-	395	545	400	250	10
6	M 050050040	500	500	400	380	380	-	350	400	390	440	350	150	400	200	-	395	545	400	350	11
7	M 052052020	520	520	200	400	400	-	350	400	390	440	400	80	450	130	-	410	560	420	150	10
8	M 060040020	600	400	200	480	280	-	450	310	490	350	300	80	350	130	-	500	450	300	150	10
9	M 060040025	600	400	250	480	280	-	450	310	490	350	300	100	350	150	-	500	450	300	200	11
10	M 060045025	600	450	250	480	330	-	450	350	490	390	350	120	400	170	-	500	500	350	200	12
11	M 060050020	600	500	200	480	380	-	450	390	490	430	350	80	400	130	-	485	540	400	150	11
12	M 060060050	600	600	500	480	480	-	450	480	490	520	450	300	500	350	-	500	650	500	450	17
13	M 065035024	650	350	240	530	230	-	490	250	530	290	250	80	300	130	-	545	390	250	190	10
14	M 065055021	650	550	210	530	430	-	490	430	530	470	400	80	450	130	-	545	590	450	160	13
15	M 080060020	800	600	200	680	480	-	650	480	690	520	400	80	450	130	-	695	645	500	150	17
16	M 080060040	800	600	400	680	480	-	650	480	690	520	400	200	450	250	-	695	645	500	350	20
17	M 080080030	800	800	300	680	680	-	600	680	640	720	600	150	650	200	-	695	845	700	250	22
18	M 085055028	850	550	280	730	430	-	650	450	690	490	400	120	450	170	-	755	595	450	230	17
19	M 085060020	850	600	200	730	480	-	650	480	690	520	400	80	450	130	-	745	645	500	150	18
20	M 085075020	850	750	200	730	630	-	650	610	690	570	450	80	500	130	-	745	800	650	150	19
21	M 098063028	985	635	285	865	515	-	800	480	840	520	400	150	450	200	-	890	680	535	235	25
22	M 100060025	1000	600	250	880	480	-	800	480	840	520	400	120	450	170	-	895	640	500	200	20

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

* Enclosure without canopy

** 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-METERING

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

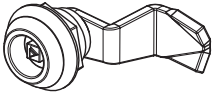
Other Options Available

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-METERING

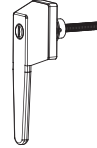
ACCESSORIES

Lock Options



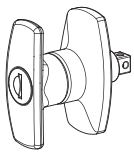
SQUARE KEY LOCK

Nickel Chrome Plated Zinc Die Cast
Nickel Chrome Plated SS 316



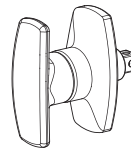
HEAVY DUTY
HANDLE LOCK

Black Powder Coated Zinc Die Cast



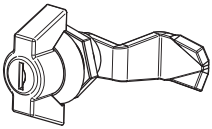
T-HANDLE LOCK WITH KEY

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



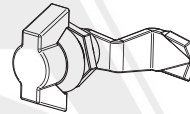
T-HANDLE LOCK
WITHOUT KEY

Polyamide
Nickel Chrome Plated Mild Steel
Nickel Chrome Plated SS 316



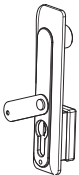
WING TYPE LOCK WITH KEY

Polyamide with Steel Cylinder



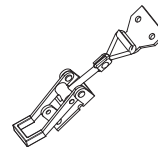
WING TYPE LOCK
WITHOUT KEY

Polyamide



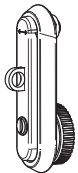
SS SWING TYPE LOCK

Polyamide with Steel Cylinder
SS 316 with Cylinder



TOGGLE LATCH

SS 316



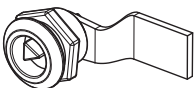
POLYAMIDE SWING TYPE LOCK

Polyamide with Steel Cylinder
SS 316 with Cylinder



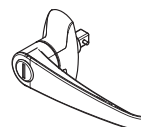
INTERNAL LOCK LATCH

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

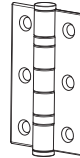
POLYESTER ENCLOSURE-METERING

Hinges



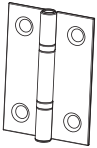
LIFT-OFF TYPE

Zinc Die Cast
SS 316
Chrome Plated SS 316



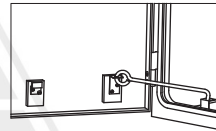
BUTT TYPE 3 INCHES

SS 316
SS 304



BUTT TYPE 2 INCHES

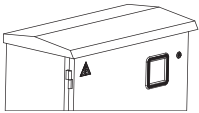
SS 316
SS 304



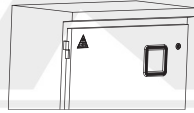
MANUAL WIND STAY

SS 316
Galvanized Iron

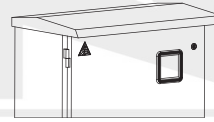
Canopies



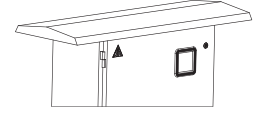
LARGE CANOPY



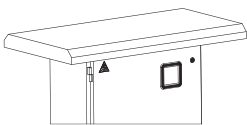
IN-BUILT CANOPY



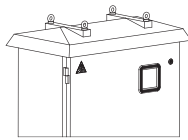
FRONT EXTENDED
LARGE CANOPY



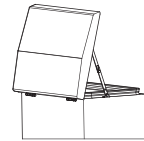
2 SIDES EXTENDED CANOPY



4 SIDES EXTENDED CANOPY

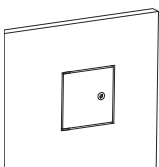


CANOPY WITH LIFTING HOOKS

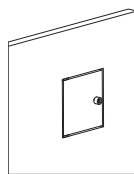


HINGED OPEN TYPE CANOPY

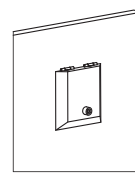
Shutters



SHUTTER WITH SQUARE
KEY LOCK



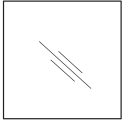
SHUTTER WITH KNOB HANDLE



FLAP SHUTTER

POLYESTER ENCLOSURE-METERING

Glass Windows



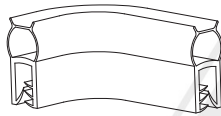
Toughened Glass
Polycarbonate

GLASS WINDOW

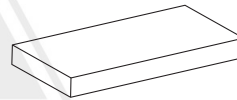
Gaskets



V TYPE



BULB TYPE

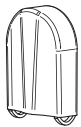


FLAT TYPE



PROFILE TYPE

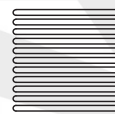
Ventilators



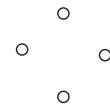
IP 43 VENTILATOR



IP 54 VENTILATOR

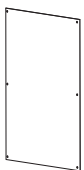


SLOTTED NATURAL VENTILATION



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

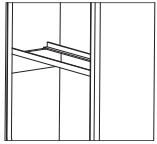


MOUNTING STUD

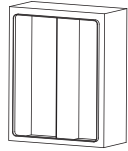
Galvanized Iron
SS 316

POLYESTER ENCLOSURE-METERING

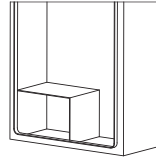
Partitions and Chambers



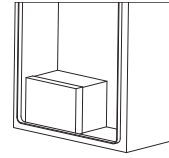
ANGLE RACK



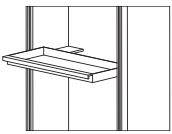
GRP PARTITION



EQUIPMENT CHAMBER

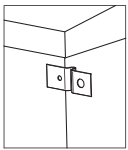


EQUIPMENT CHAMBER WITH LID



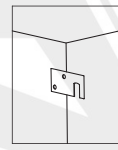
SLIDING RACK

Fixing Arrangements



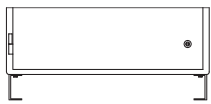
STEP TYPE WALL MOUNTING BRACKET

SS 316



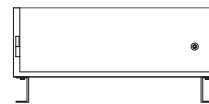
FLAT TYPE WALL MOUNTING BRACKET

SS 316



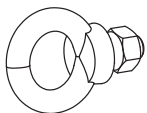
PEDESTAL TYPE 1

Galvanized Iron
GRP



PEDESTAL TYPE 2

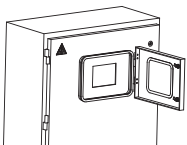
Galvanized Iron
GRP



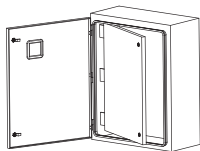
LIFTING HOOK

SS 316
Galvanized Iron

Additional Doors



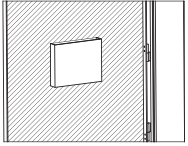
EXTERNAL HINGED DOOR



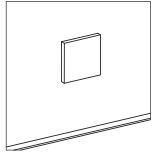
INTERNAL DOOR

POLYESTER ENCLOSURE-METERING

Miscellaneous Add-ons



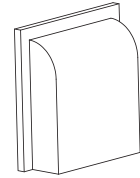
DRAWING POCKET



INTERNAL PADDING



EXTERNAL PADDING

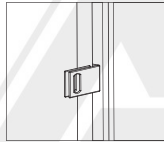


GRP HOOD



DRAIN

SS 316



PAD LOCK

SS 316
Aluminium

