

Product Datasheet

POLYESTER ENCLOSURE SCADA



TYPE A



TYPE B



TYPE C



TYPE D

GRP SCADA Enclosures are used for outdoor application with weatherproof and antistatic properties, with an insulated compartment for lead acid batteries, another for Remote Terminal Unit(RTU) and radio equipment. These enclosures are designed for SCADA applications and they help in isolation of the electronic equipment from the flow control chamber. GRP material has high degrees of Radio signal transparency, which is an integral requirement for SCADA applications. They are certified to the standards of the Power and Water utility authorities and our multiple options allow our customers to customize the final product to meet their requirement.

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	3mm GRP+12WBP Plywood+2mm GRP	Increased wall thickness
 Semi-gloss External Gelcoat Finish	Light grey RAL 9010	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 9
 Corrosion Resistant	SS 316 Stainless steel accessories	Please refer page 7
 Customizable	Alternate sizes, accessories and options to match required specifications	Please refer page 7

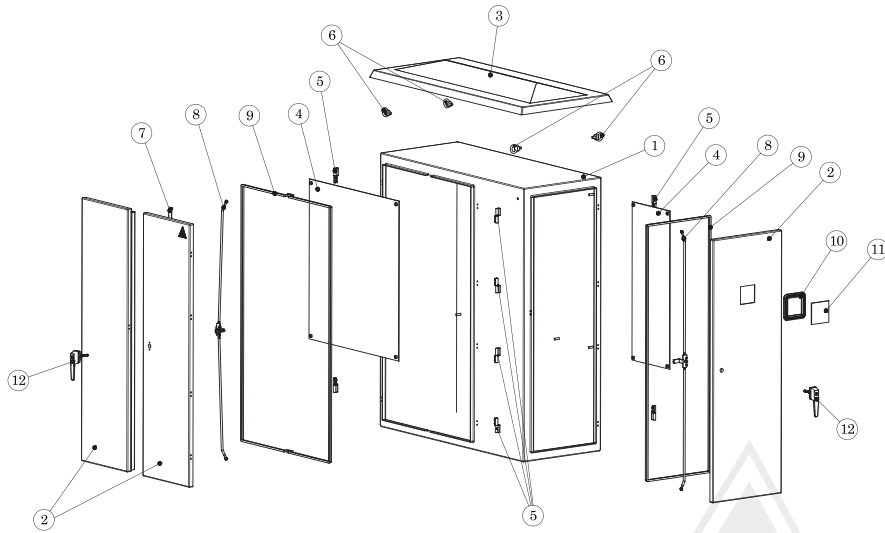


View Our Product Catalogue

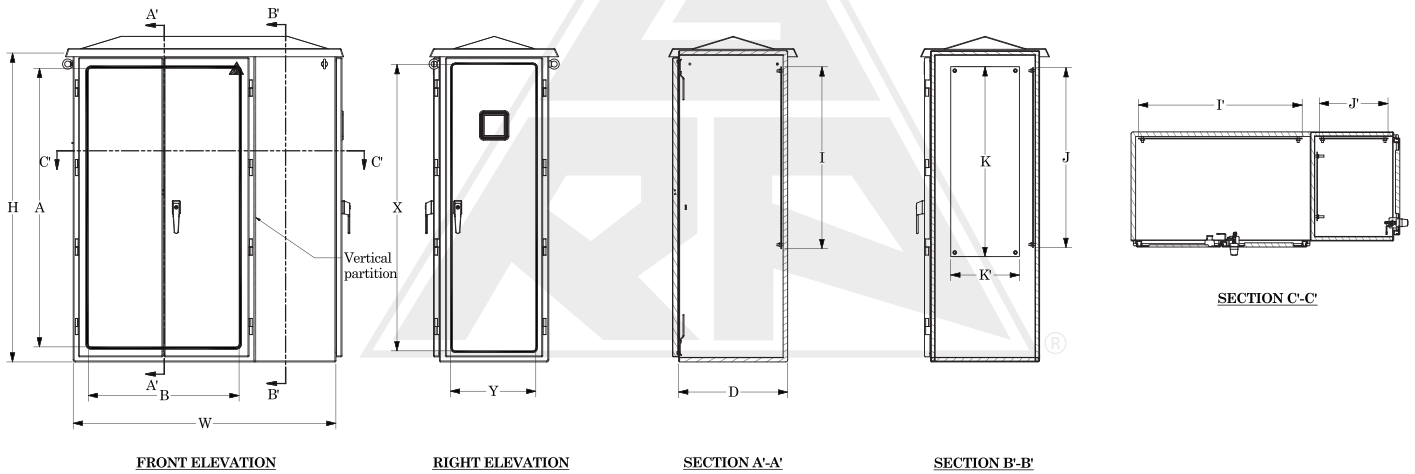


POLYESTER ENCLOSURE-SCADA

SCADA Type A



1. GRP enclosure body
2. GRP door
3. GRP 4 sides extended canopy
4. G.I mounting plate
5. Zinc die cast lift-off type hinges
6. G.I lifting hook
7. G.I Internal lock latch
8. G.I point cam & tie rod
9. EPDM rubber gasket
10. EPDM window gasket
11. Toughened glass window
12. Zinc die cast heavy duty handle lock



Measurements

All dimensions in mm

SI No.	Product Reference	External Size			Battery Chamber Internal Size			Clear Opening				Mounting Plate Sizes						Total Weight (Kg ± 1) *
		H	W	D	F	L	E	A	B	X	Y	I	I'	J	J'	K	K'	
1	TA 148125050	1535	1330	543	300	900	400	1380	790	1380	420	1080	820	1150	310	1150	350	185

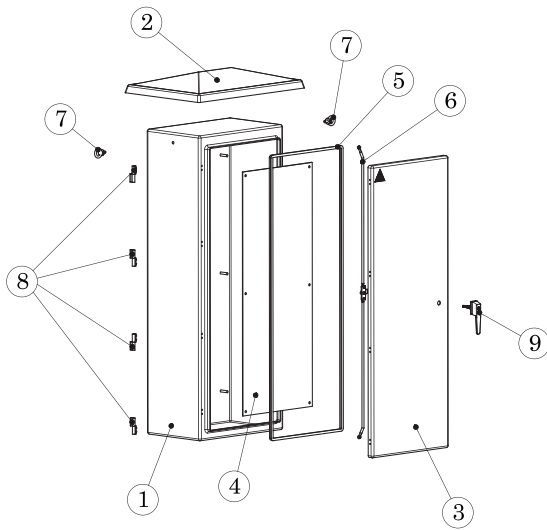
Sizes mentioned are standard sizes. Customized sizes are available, please submit your enquiry online or email us at sales@grpindustries.com

* All weights mentioned are excluding gland plate and mounting plate

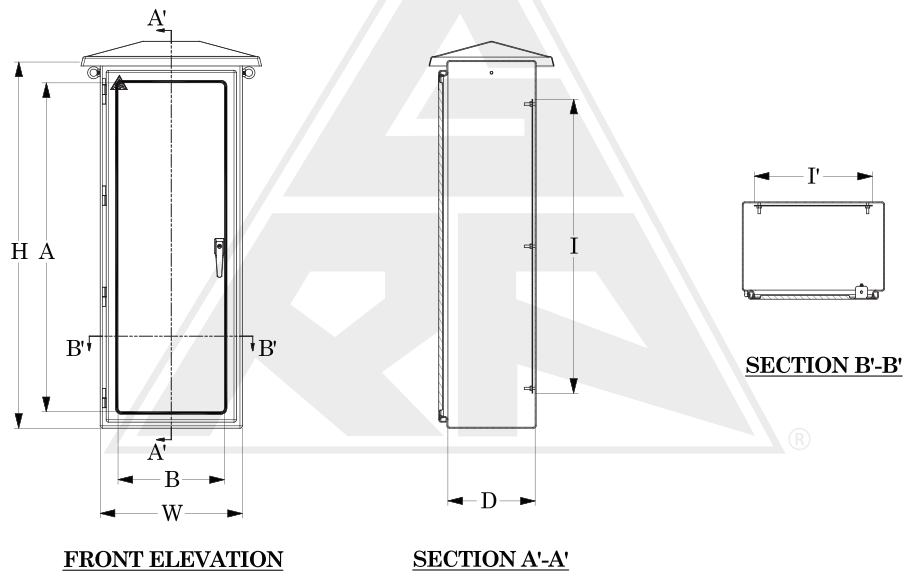
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POLYESTER ENCLOSURE-SCADA

SCADA Type B



1. GRP enclosure body
2. GRP 4 sides extended canopy
3. GRP door
4. G.I mounting plate
5. EPDM rubber gasket
6. G.I 3 point cam & tie rod
7. G.I lifting hook
8. Zinc die cast lift-off type hinges
9. Zinc die cast heavy duty handle lock



Measurements

All dimensions in mm

Sl No.	Product Reference	External Size			Clear Opening		Mounting Plate Sizes				Total Weight (Kg ± 1) *
		H	W	D	A	B	I	I'	J	J'	
1	TB 155063047	1550	630	475	1390	500	1220	540	1220	340	94
2	TB 154062537	1540	625	375	1390	495	1220	540	1220	290	70

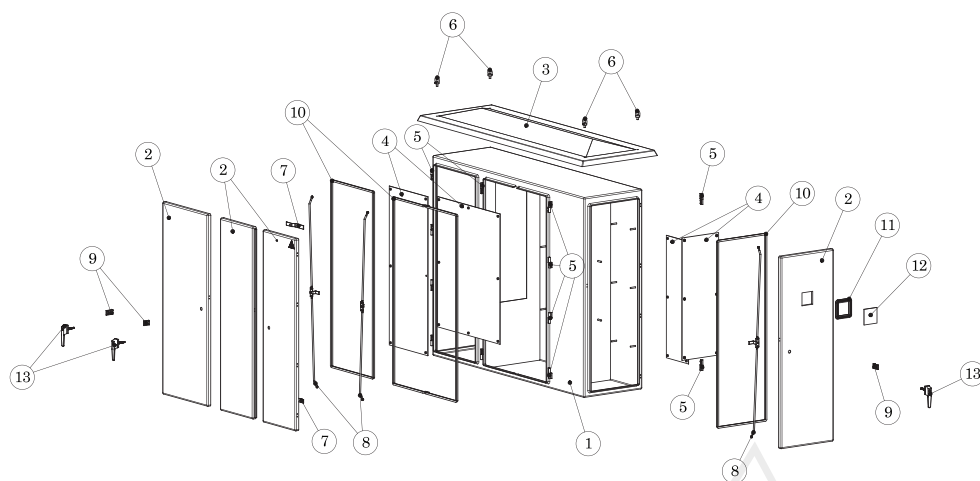
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* All weights mentioned are excluding gland plate and mounting plate

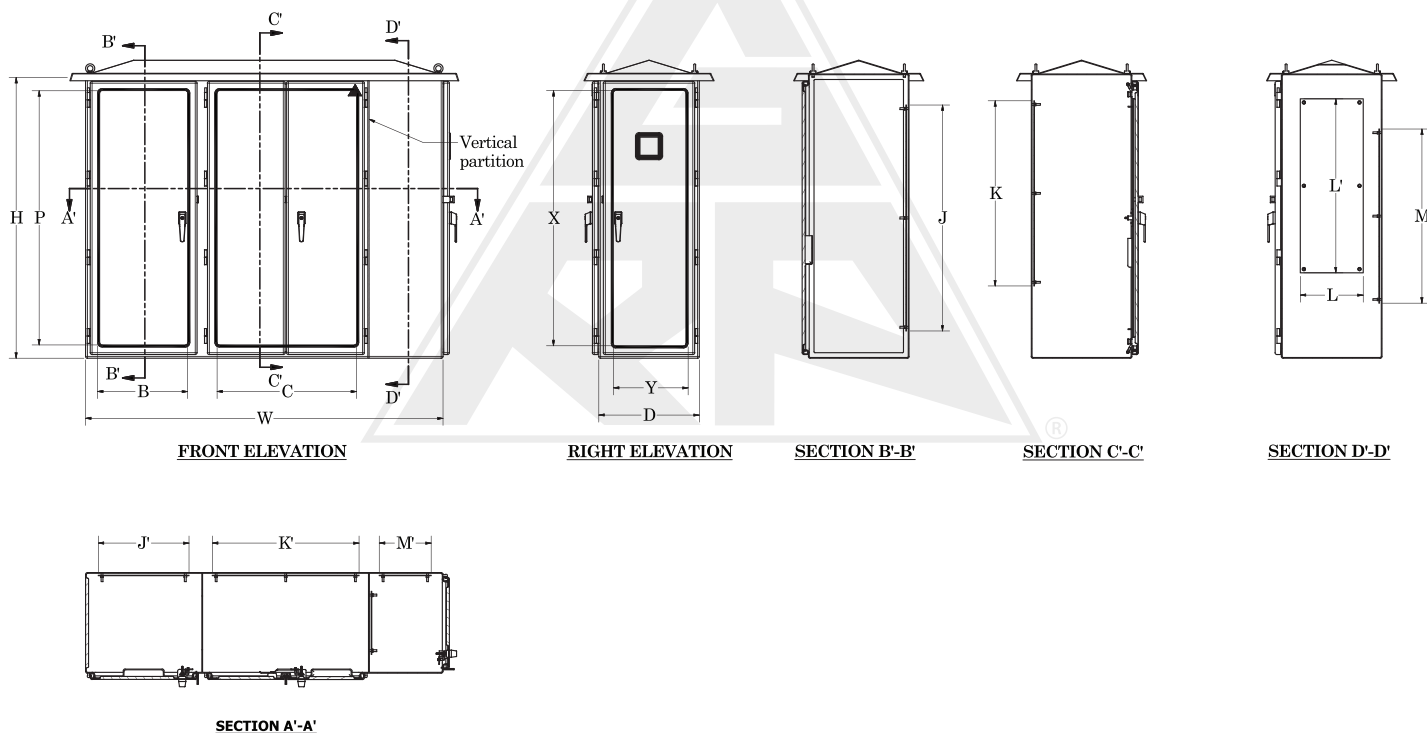
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POLYESTER ENCLOSURE-SCADA

SCADA Type C



1. GRP enclosure body
2. GRP door
3. GRP 4 sides extended canopy
4. G.I mounting plate
5. Zinc die cast lift-off type hinges
6. G.I lifting hook
7. G.I internal lock latch
8. G.I 3 point cam & tie rod
9. Aluminium padlock
10. EPDM rubber gasket
11. EPDM Window gasket
12. Toughened glass window
13. Zinc die cast heavy duty handle lock



Measurements

All dimensions in mm

Sl No.	Product Reference	External Size			Battery Chamber Internal Size			Clear Opening					Mounting Plate Sizes												Total Weight (Kg ± 1) *
		H	W	D	F	G	E	P	B	C	X	Y	I	I'	J	J'	K	K'	L	L'	M	M'	N	N'	
1	TC 153196054	1535	1960	543	300	850	400	1390	530	800	1390	350	940	280	1220	490	1140	780	700	350	940	340	940	280	190

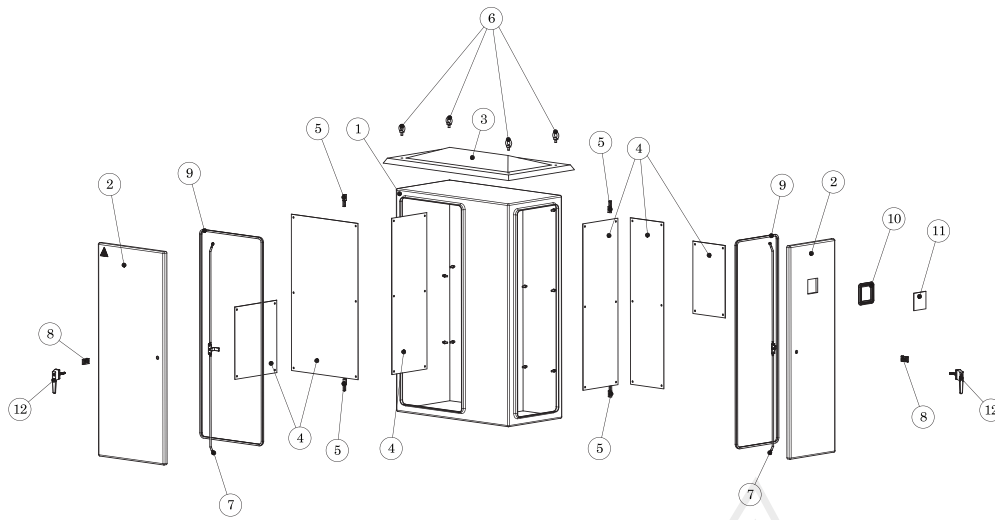
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* All weights mentioned are excluding gland plate and mounting plate

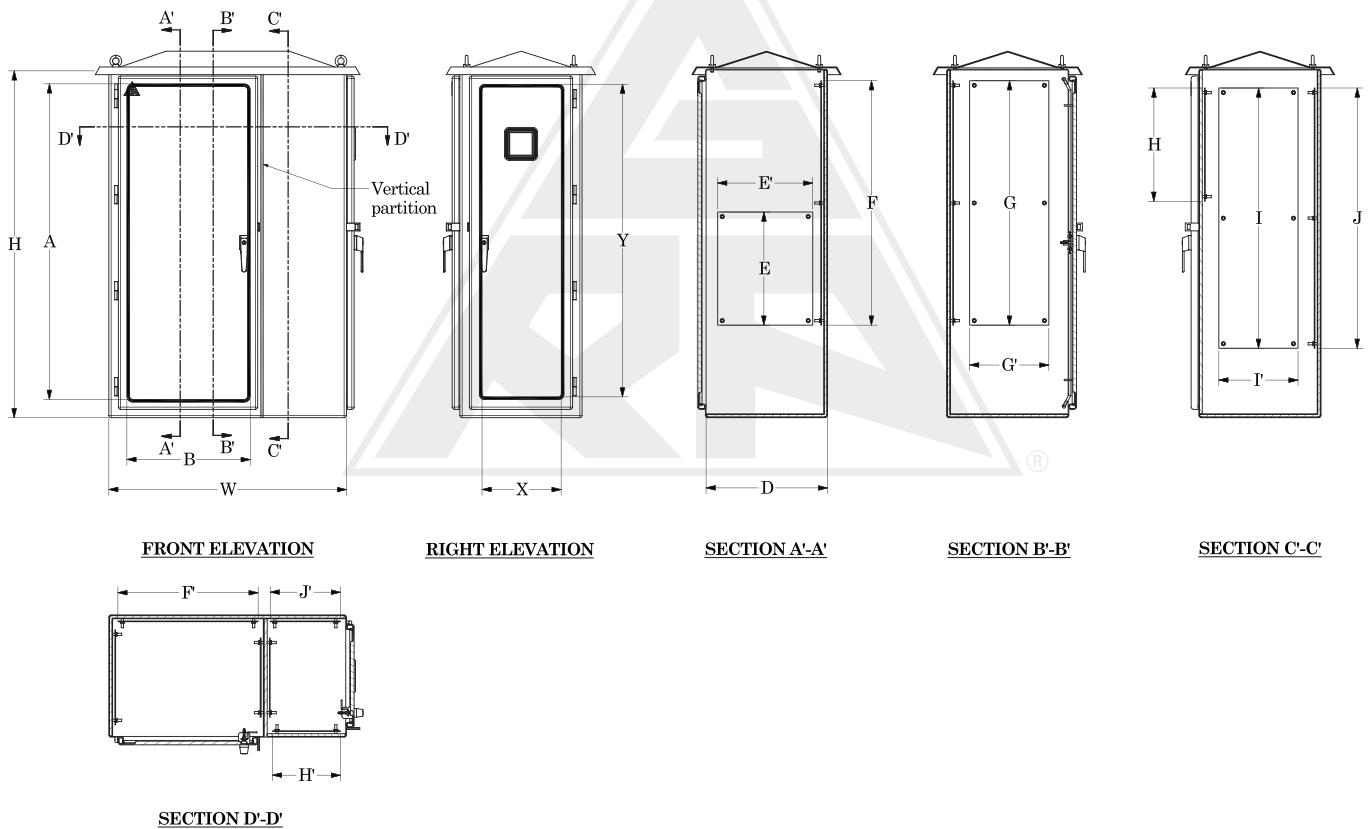
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POLYESTER ENCLOSURE-SCADA

SCADA Type D



1. GRP enclosure body
2. GRP door
3. GRP 4 sides extended canopy
4. G.I mounting plate
5. Zinc die cast lift-off type hinges
6. G.I lifting hook
7. G.I 3 point cam & tie rod
8. Aluminium padlock
9. EPDM rubber gasket
10. EPDM Window gasket
11. Toughened glass window
12. Zinc die cast heavy duty handle lock



Measurements

All dimensions in mm

Sl No.	Product Reference	External Size			Battery Chamber Internal Size			Clear Opening				Mounting Plate Sizes												Total Weight (Kg ± 1) *
		H	W	D	U	V	L	A	B	X	Y	E	E'	F	F'	G	G'	H	H'	I	I'	J	J'	
1	TD 154105054	1540	1050	540	400	300	660	1380	545	1380	410	500	420	1080	620	1080	350	500	300	1150	350	1150	310	140

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

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POLYESTER ENCLOSURE-SCADA

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	53	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
Break Load	1524	KGF	
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						

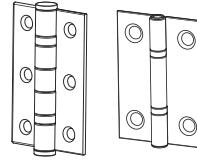
POLYESTER ENCLOSURE-SCADA

Hinges



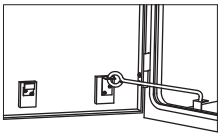
LIFT-OFF TYPE

Zinc Die Cast
SS 316
Chrome Plated SS 316



BUTT TYPE

SS 316
SS 304



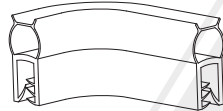
MANUAL WIND STAY

SS 316
Galvanized Iron

Gaskets



V TYPE



BULB TYPE

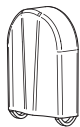


FLAT TYPE



PROFILE TYPE

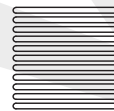
Ventilators



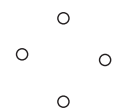
IP 43 VENTILATOR



IP 54 VENTILATOR

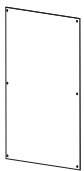


SLOTTED NATURAL VENTILATION



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

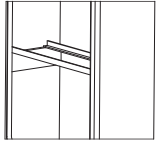


MOUNTING STUD

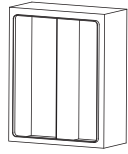
Galvanized Iron
SS 316

POLYESTER ENCLOSURE-SCADA

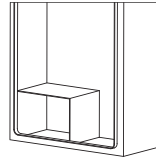
Partitions and Chambers



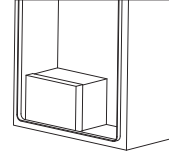
ANGLE RACK



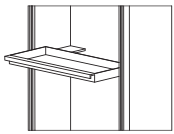
GRP PARTITION



EQUIPMENT CHAMBER

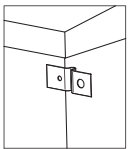


EQUIPMENT CHAMBER WITH LID



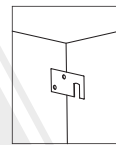
SLIDING RACK

Fixing Arrangements



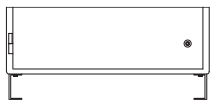
STEP TYPE WALL MOUNTING BRACKET

SS 316



FLAT TYPE WALL MOUNTING BRACKET

SS 316



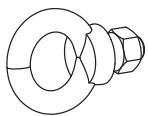
PEDESTAL TYPE 1

Galvanized Iron
GRP



PEDESTAL TYPE 2

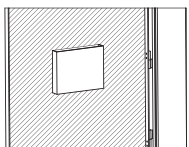
Galvanized Iron
GRP



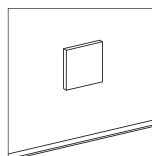
LIFTING HOOK

SS 316
Galvanized Iron

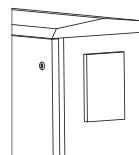
Miscellaneous Add-ons



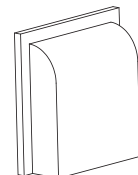
DRAWING POCKET



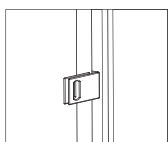
INTERNAL PADDING



EXTERNAL PADDING



GRP HOOD



PAD LOCK



DRAIN