OUTDOOR CABINETS & ACCESSORIES

Estap®

TECHNOLOGY INSIDE

Be stronger with this!

If there is challenge on the field...

Only impacts?
Estap outdoor type cabinets have the highest protection against electromagnetic radiation, overheat, cold, rain, snow, winds and earthquake.

Technology inside

25.YEAR

Estap®

CONTENTS

SINGLE AND DOUBLE SKIN OUTDOOR CABINETS
PLINTH, WALL AND POLE TYPE
(W=600 mm, D= 450/600 mm)

Floor type outdoor cabinet

Wall type outdoor cabinet

Pole type outdoor cabinet

With their developed wall, pole and floor type designs, Estap outdoor cabinets protect your valuable and susceptible equipments. They are resistant to rain, snow, sunlight and earthquake. Through their high strength against corrosion, and they provide efficient protection against necessary environmental effects for your technological investments.

Properties of our cabinets manufactured in floor, wall and pole types are:

→ A robust and durable construction;
→ A natural ventilation system;
→ A high performance heat control;
→ An anti-vandalism design; and
→ Protection grade P54, IP55 and IP65.

Our outdoor cabinets are preferred in the control system, data transfer and automation system, train control system, port control system, motorway traffic signalization and control system, fiber internet termination, mobile electronic integration systems, base stations, fixed and mobile telephone networks, car park and park Lightning, airport flight and baggage check systems.

Sizes are manufactured in accordance with the standard IEC 60297.

Cabinets of 7U, 9U, 12U, 16U, 18U, 20U, 22U, 24U in height, of 600mm in width and 450/600mm in depth are manufactured.

The cabinets are single and double skin types, and made of the galvanized material DX51D (1.0226) +Z 275 as standard. also stainless and aluminum options are available.

They allow tightness and protection against contact, foreign agents and water in accordance with the standard EN 61587-1 / 6.4 IEC 60529.

They prevent dust and water penetration in the protection grades IP54, IP55 and P65 in accordance with the standard EN60529. fan and filter IP protection level IP54. The gasket type doors made of completely polyurethane cast material with IP65 protection level, may be locked at 2 points and 3 points, have an anti-vandalism protection and the highest corrosion strength through light grey epoxy polyester electrostatic powder paint RAL 7035 applied on the mono-block construction. Fire-proof, non-fire propagating paint application is conducted.

Their protection door, filter type fresh air inlets and hot air outlets enable passive ventilation. They are delivered complete with the cabinet as a standard. If desired, a fan may be attached to these filters for forced ventilation.

STANDARDS AND COMPATIBILITY

• EN 60529- IP 65: Dust and tightness
• EN 60529-IP 55: Dust and tightness
• EN 60529-IP 54: Dust and tightness
• EN 61587-1:2012: Mechanical constructions and cabinets for electronic equipment
• IEC 297-1: 19" size
• IEC 297-2: All cabinet sizes

ISO 9001:2008 - Quality Management System

ISO 14001:2004 - Environmental Management System - Manufacture in compatible with the RoHS Directive

BODY STRUCTURE

It consists of three components: Main body sheet, bottom sheet and top sheet. Main bearing lower and upper frame have a nature to increase strength and durability of the cabinet, and a mono-block bended and welded construction. It is made of 1.50mm Dx51D (1.0226) +Z 275 galvanized material.

It has a safe, robust steel construction .single and double wall type options are available.

It has a suitable construction to mount 4 and 2 fans without affecting the IP protection grade, and it is designed to provide a dustproof and waterproof protection through filter louvers installed on the right and left side of the body.

Fresh air enters into the cabinet through the louvers on the side panels and filters. Hot air inside the cabinet is circulated by means of slots and louvers on the top cover edges and under it.

The cabinet can be free standing or wall, pole mount.

The single wall type cabinet can be transformed to a double wall type cabinet on site when desired. It may be mounted easily to wall, and has a capacity to bear 450kg load with wall mount devices.

The wall type cabinet can be transformed to free standing type by adding plinth only on site.
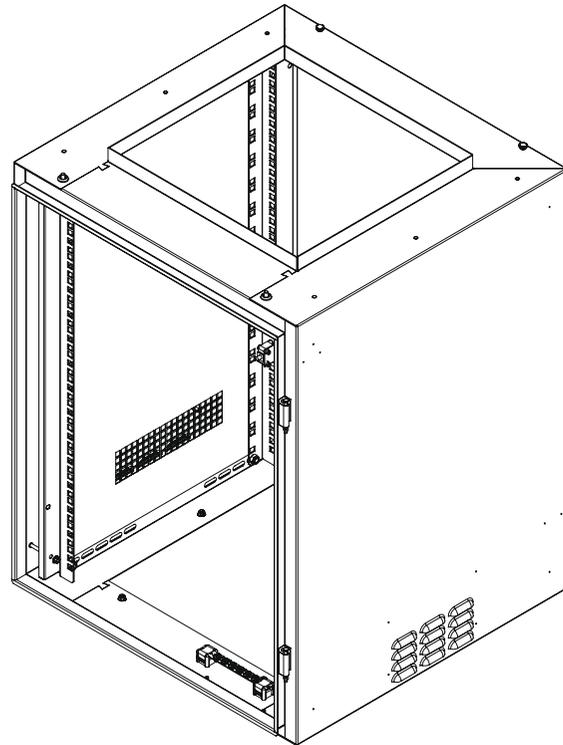
TOP COVER MODULE

The top cover module of the cabinet is made of 1.5mm DX51D (1.0226) +Z275 galvanized material, and provides highest corrosion strength (80μm (+/-15)) by a light grey polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035 applied on the mono-block welded construction reinforced by bends.

If required, the top cover can be removed and installed easily without any extra tools from interior (even by hand).
The top cover is inserted on the cabinet body and is secured from outside against unauthorized removal.

Hot air inside the cabinet is circulated by the slots and the louvers on the top cover. Louvers and slots are designed to blow the air by 4 fans (in or out).

Because there are outdoor spaces with application areas subject to any environmental effect, it must be protected against any possible harmful effect on equipment installed inside the cabinet due to dust due to winds, rain, slush and water splashes. It is designed with due attention to esthetic appearance.
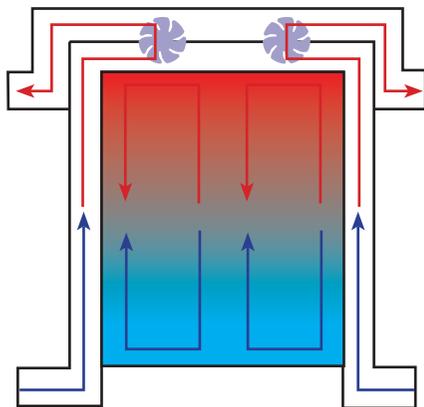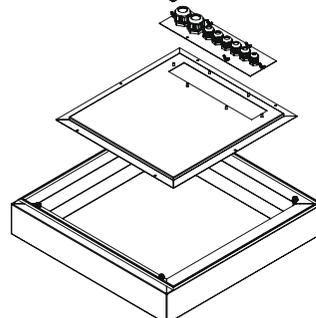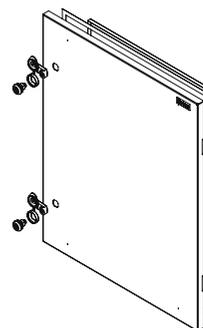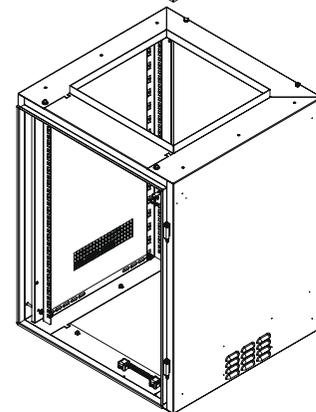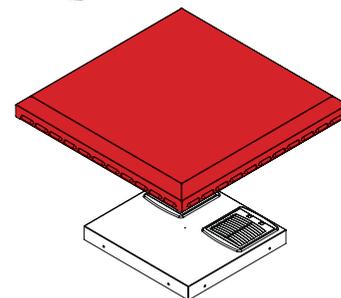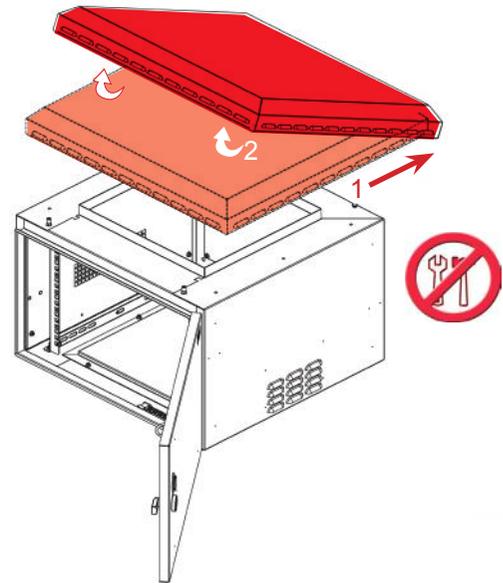
Air circulation diagram

PLINTH MODULE

The plinth module of the cabinet is made of 1.5mm DX51D (1.0226) +Z275 galvanized material, and provides highest corrosion strength (80μm (+/-15) by a light grey polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035 applied on the mono-block welded construction reinforced by bends.

Polyurethane cast gasket is used at the joint between the plinth and cabinet, and has a construction to resist to a temperature of -40°C to +100°C.

The plinth module may be mounted easily by M8 screw on the cabinet at 4 points.

Unless any plinth size is specified, standard 100mm plinth type product is shipped. 50mm, 150mm and 300mm options are available.

4x M16 openings are available to mount it on a concrete base. It may never be intervened in externally. The plinth may be mounted on a concrete base as follows:

1-) the plinth may be mounted on the concrete base, and then the cabinet may be mounted on the plinth.
2-) the cable organizer panel inside the cabinet may be dismounted and then mounted on the concrete pedestal without removing the panel from the plinth.

Top view

Isometric view

Side view

Bottom view
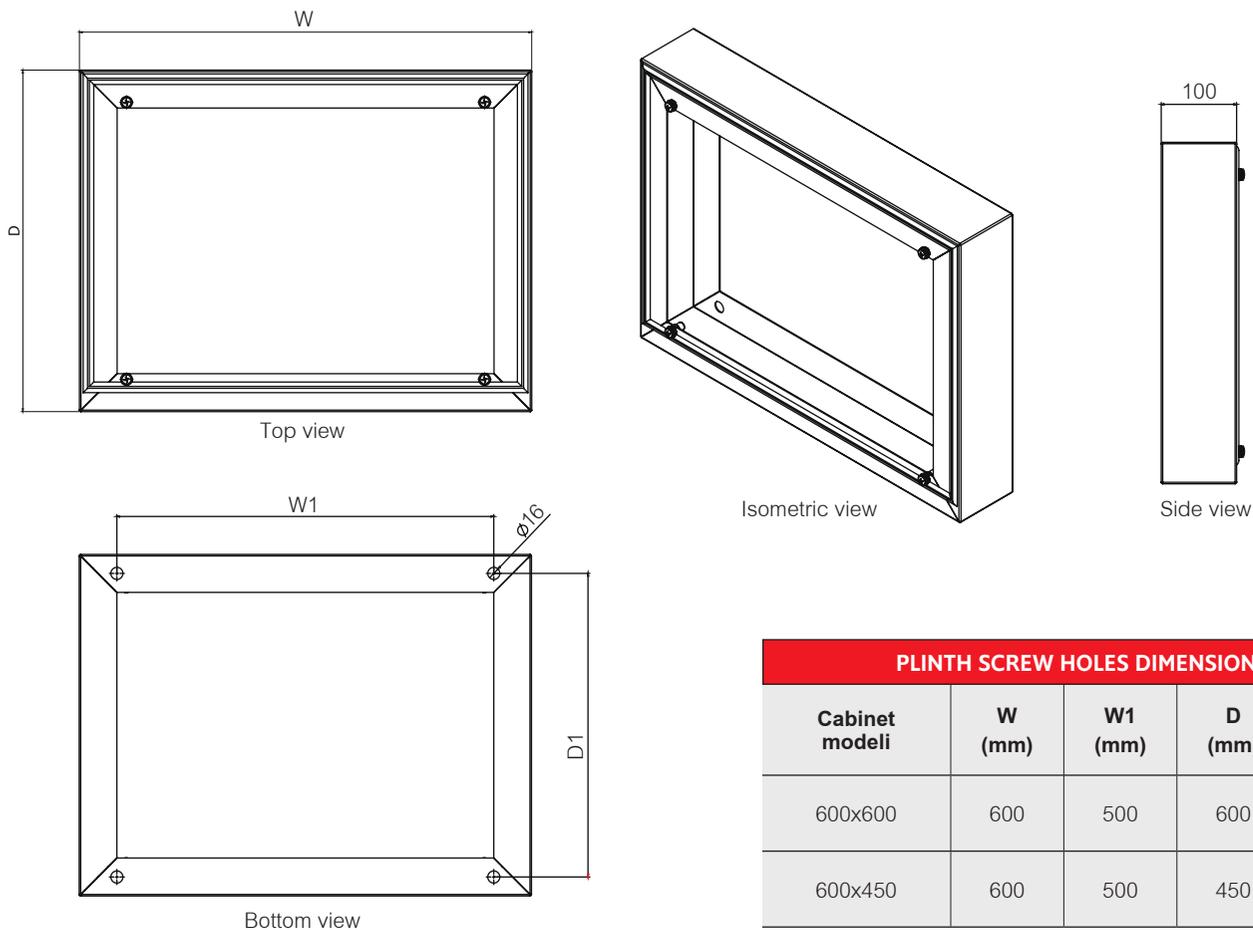
PLINTH SCREW HOLES DIMENSIONS				
Cabinet modeli	W (mm)	W1 (mm)	D (mm)	D1 (mm)
600x600	600	500	600	550
600x450	600	500	450	400

PLINTH MODULE ASSEMBLY

The plinth module is fixed by M16 rods on the concrete pedestal at 4 points. It is designed to prevent any intervention externally. While it is mounted on the concrete base, the cabinet body must be dismounted and then fixed by M8 screws on the plinth at 4 points in the floor as seen in the drawing.

Screw fixing Dimensions of the plinths are given in page 5. The plinth module is shipped so that it is mounted complete with the cabinet.

Detail B
Scale 1:3

Detail A
Scale 1:3

Plinth mount view

Polyurethane cast gasket

M8 screw
M8 plastic washer
M9 white washer
M8 rivet nut

Plinth
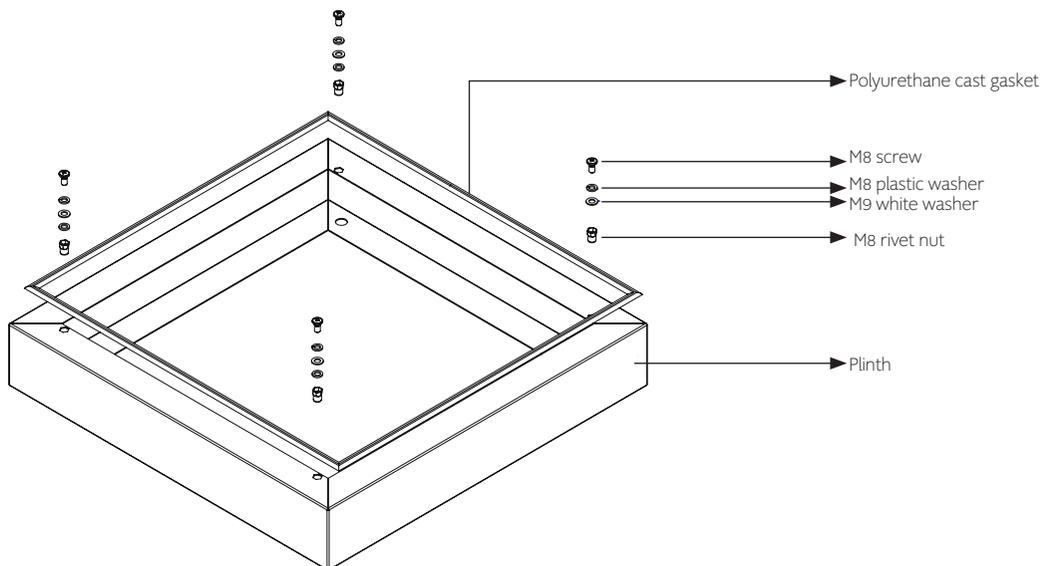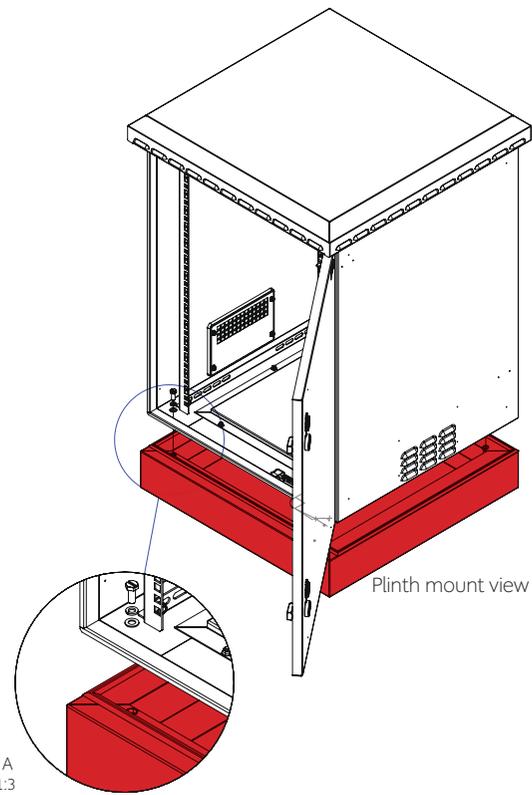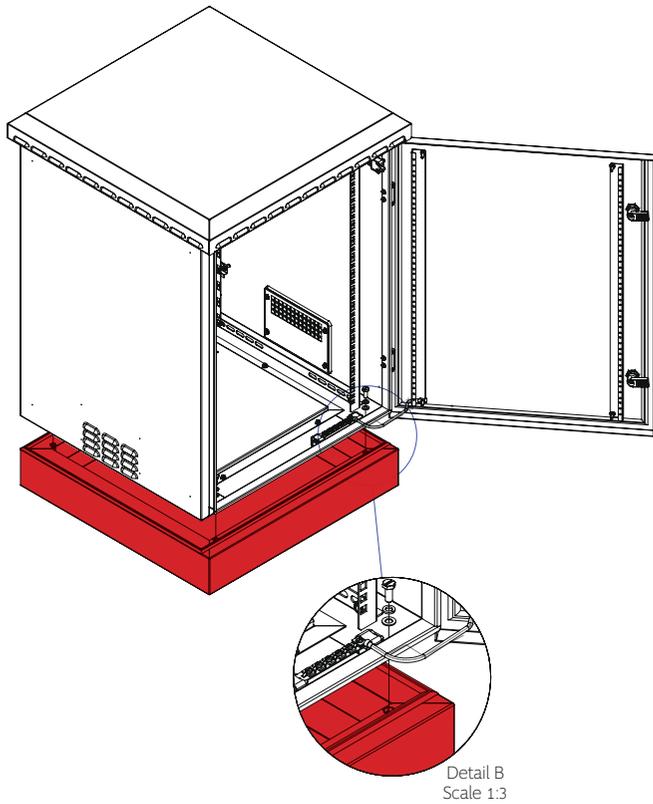
FRONT DOOR MODULE

The front door module is made of 1.5mm DX51D (1.0226) +Z275 galvanized material, and provides highest corrosion strength (80µm (+/-15)) by a light grey polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035 applied on the mono-block welded construction reinforced by bends.

A cast gasket is used at the joint between the plinth and cabinet, and has a construction to resist to a temperature of -40°C to +100°C.

There are "U"- shaped support pieces on inside surface of the door. These support pieces may also be used for installing 19" product. The door may be opened at 125°.

There are single and double wall, glass door options. As a standard, a brass lock having the protection grade IP 65 (O) is used and may be locked at two points. Swing handle locks can be used on request. The lockbolt in the cabinet is plastic, and prevent any scraps on paint and protects the cabinet against corrosion.

It may be transformed to double type one both at the manufacturing site and on site.

The front door is closed on flange bended, water canal and gasket type frame system on the cabinet body.
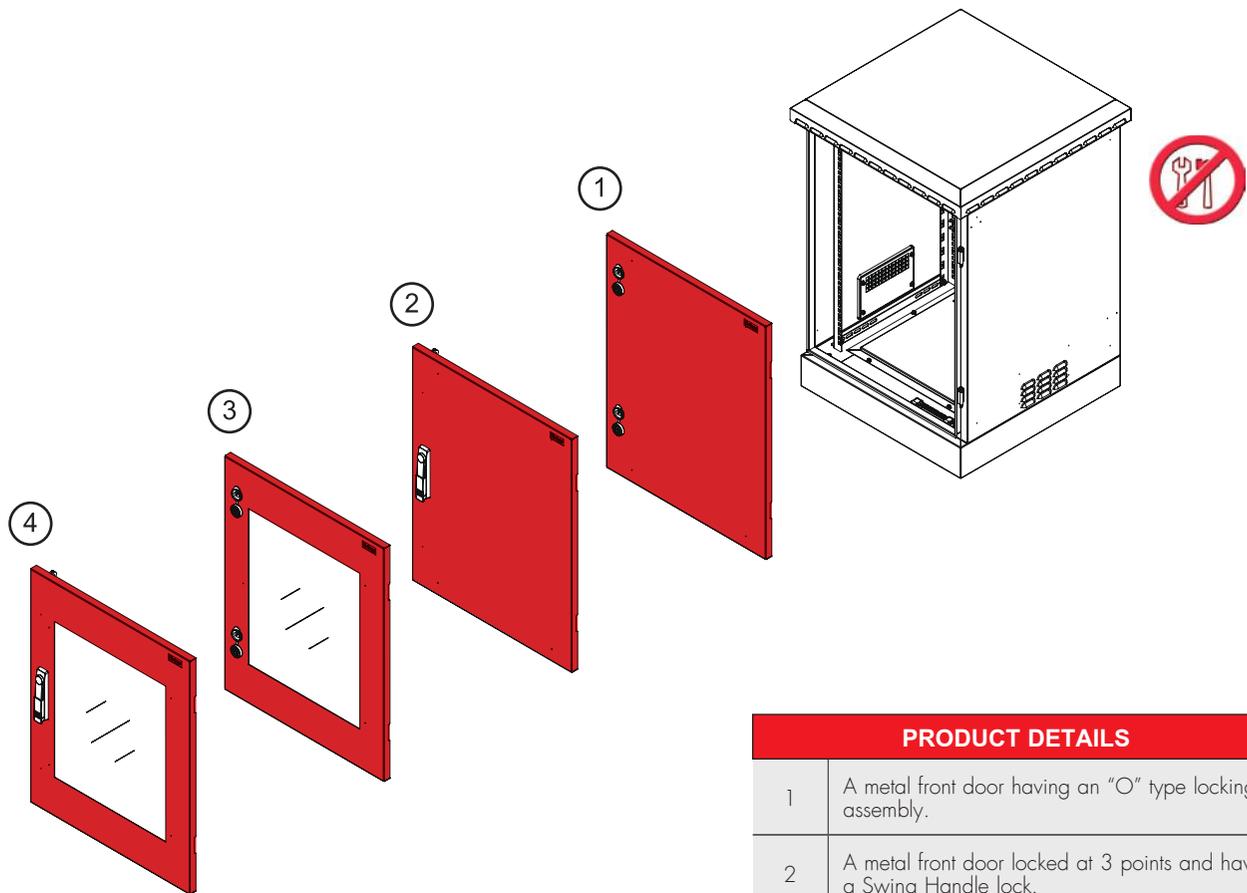
PRODUCT DETAILS	
1	A metal front door having an "O" type locking assembly.
2	A metal front door locked at 3 points and having a Swing Handle lock.
3	A glass front door having an "O" type barrel assembly and a metal frame.
4	A metal front door locked at 3 points and having an espagnotte handle lock and a metal frame.

DEVICE ASSEMBLY MODULE

19" Mounting rails of the wall type outdoor cabinets are enumerated by a serigraphy upwards and downwards from 1U to 24U for ease of use.
Rails are assembled to the top and bottom chassis, independent
from side walls. So any impact from the side wall never affect the devices. It is made of 2.00mm DX51D (1.0226) +Z275 galvanized material to ensure a high corrosion strength. Poles of the device are designed so that their size may be adjusted along depth of the cabinet. **A pair of 19" Mounting rails are assembled to the front side as a standard. Upon request, second set of rails may be shipped and is suitable to assembly.**

Inside view
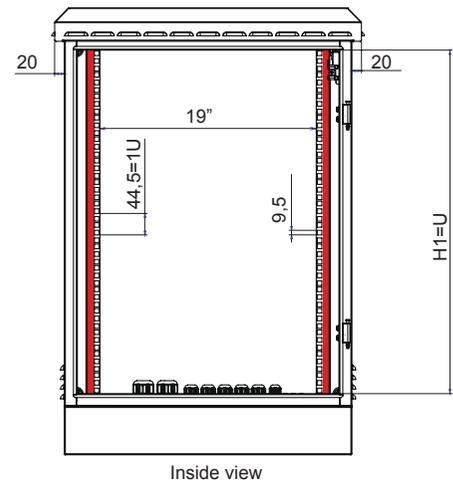
CABLE ENTRY MODULE

The cable entry panel may be replaced easily without requiring any extra tool. It is made of 1.5mm DX51D (1.0226) +Z275 galvanized material. It is applied by light grey epoxy polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035. It is compatible with IP65, and its polyurethane cast gasket type cable entry points are provided by 2xPG29, 1xPG13 and 5xPG16 integrated sleeves.
It is shipped by using solid sleeves.

Because the cable entry panel is raised inwards the cabinet, it is designed not to cause any visual deformation under it.
The cable inlets are designed so that they may be attached on front side or rear side optionally through the assembly panel attached by sleeves on the lower side of the cabinet.

As a standard, the cable entry is shipped so that they remain on the rear side.

WALL MOUNTING MODULE

This module is made of 2.0 mm DX51D (1.0226) +Z275 galvanized material. Fastening bolts of the bracket may never be intervened in internally. It is assembled by 4x M8 screws to the bracket inside the cabinet. The bracket is suitable to mount the module by 4x M8 bars to wall. When a wall bracket is require to transform the plinth type cabinets to the wall type cabinets, it is shipped complete with the connection screws. **"U" construction reinforced by bends ensures ease of assembly and increasing the load bearing capacity, because the points matching to the lower corner of the cabinet have 'L" bends.**

It provides the highest corrosion strength through light grey epoxy polyester electrostatic powder paint RAL 7035 AL 7035. 80μm (+/-15) paint is applied. When the cabinet is mounted to wall, the wall assembly bracket is seen so that it is flush with the cabinet and wall, and provides an esthetic appearance. In a 30mm space having a nature of cable basin between the cabinet and wall, the excessive cable is maintained so that it is not seen externally. Cable sag is prevented by vertical cable connection bridges along the cabinet on the right and left side of the bracket.

Wall assembly module

Assembly of the cabinet to wall

Assembly of the cabinet to wall

FAN MODULE

The fan module of the cabinet is made of 1.5mm DX51D (1.0226) +Z275 galvanized material, and provides highest corrosion strength (80μm (+/-15)) by a light grey polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035 applied on the mono-block welded construction that is reinforced by bends. Upon request a closing panel shall be supplied as an accessory.

The cabinets of 450mm in depth have a 2-fan option and the Cabinets of 600mm depth have 2- and 4-fan options.

If a fan is used, the cabinet is decreased to the protection grades IP54 and IP55. If the protection grade IP65 is required, the fan area is coated by a metal part. If a fan is required as an accessory, it may be assembled easily to the fan section. Power cable and its interior cabling are shipped ready to work. The fans are CE certified. They are easy mounting type, maintenance and repair and external invention to the cabinet. Fan ranges: 120x120x38mm; air flow: min. 2.3m^3/min.; Noise intensity (dBA) = 47. 220 – 240VAC, 50/60Hz, 0.25A. Electrical connections of the fan group are made by ferrules and sockets and ensure grounding (technical specification for 1 fan). Connection devices (e.g. bolts, nuts, washers, etc.): They are coated by galvanized zinc of 8 to 12 microns in thickness in accordance with the standard DIN EN 12329.

Ref. no.	Product definition
M44HV6452HVT	600x450 Outdoor cabinet having 2 fans, a filter and a thermostat - RAL 7035 T
M44HV662HVT	600x600 Outdoor cabinet having 2 fans, a filter and a thermostat - RAL 7035 T
M44HV664HVT	600x600 Outdoor cabinet having 2 fans, a filter and a thermostat - RAL 7035 T
M44HV6452HV	600x450 Outdoor cabinet having 2 fans, a filter and a thermostat - RAL 7035 T
M44HV6452HV	600x450 Outdoor cabinet having 2 fans, a filter and a thermostat - RAL 7035 T
M44HV664HV	600x600 Outdoor cabinet having 2 fans, a filter and a thermostat - RAL 7035 T
M44HVPNLK645	600x450 Outdoor cabinet Top coating sheet - RAL 7035 T
M44HVPNLK66	600x600 Outdoor cabinet Top coating sheet - RAL 7035 T

THERMOSTAT MODULE

The thermostat is assembled to 50mm 'V' switch rail on the front right side panel of the cabinet. It may be accessed easily and it allows to control the fan. 0° to +30° thermostat is operated.

The thermostat setting must be adjusted to "0" (zero) position to bring the fans to off position. Inside temperature of the cabinet is adjusted to any desired degree by an adjustment button on the cabinet. Power connection of the thermostat is made by phase and neutral connectors as necessary.

Product code	Product description	Dimension (WxDxH)
TERMOSTAT3	30°thermostat module, which may be assembled to 'V' switch rail.	25x28x50

GROUNDING MODULE

The size of copper grounding busbar is 2*140*15mm, and shipped as attached to the cabinet with 6x M5 connection screws.

The busbar is placed at the upper right side near the front side of the cabinet. The front door grounding of the cabinet is assembled on the busbar.

External earth

PANEL HEATER MODULE

The panel heater module is placed in a way that will not cause any damage to the active devices on the rear right side panel of the cabinet. If a suitable panel heater is required for the switch rail, the assembly rail is shipped complete with the cabinet. The switch rail length is 50mm.

When a panel heater is required, kW range of the heater to be operated must be specified.

50 mm
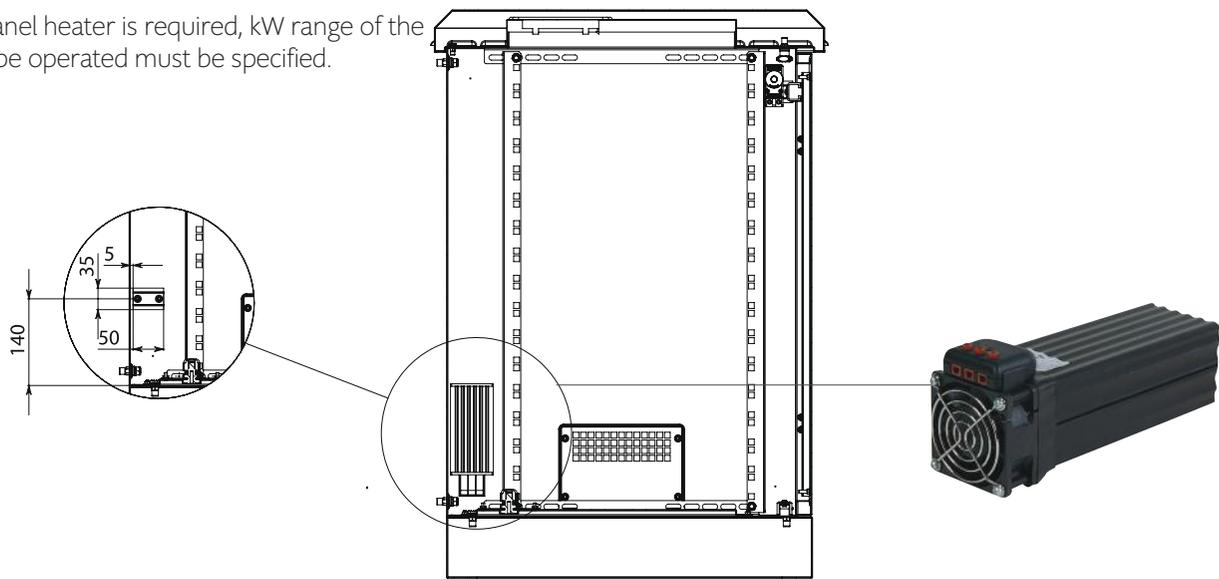
Assembly rail of the thermostat (at the upper front right corner of the cabinet)

The assembly rail of the panel heater (at the lower rear right corner of the cabinet)

PANEL ISOLATION

Use of a double skin type Isolation in the panels is an efficient solution against heat problems of the panel according environmental and regional conditions. Using the filter grilles on the body facilitates entry of the outside cold air into the panel and reduction of heat inside the panel.

The circulation fans allow air circulation inside the panel, reduce temperature and prevent possible heat concentrations that might damage the active components.

Inside wall of the right and left side panels

Isolation material

Double skin type Gasket

Metal wall material

Front and rear door wall
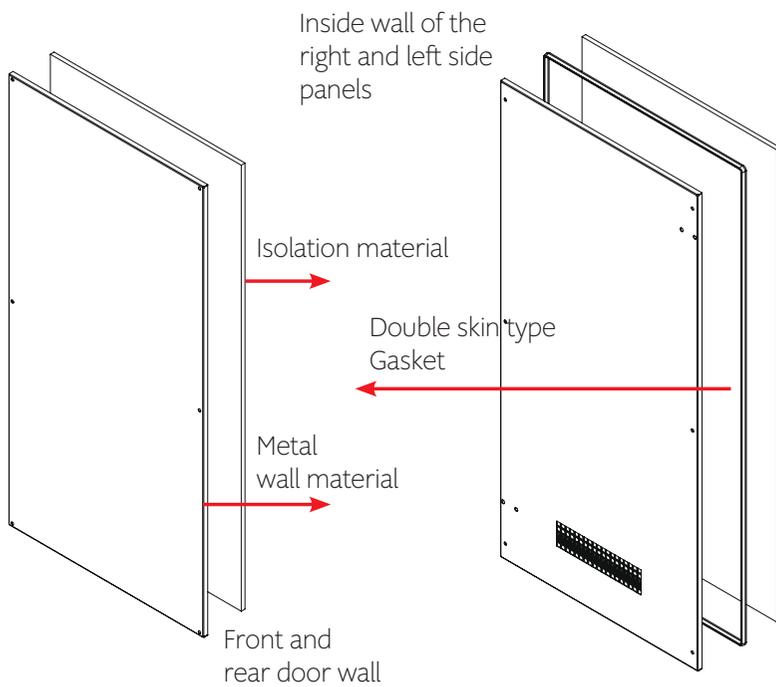
Isolation material

SPECIFICATION	STANDARD	UNIT	DESCRIPTION
Density	TS 1975	kg/m³	45 ± 3
Hardness	TS 2706 EN ISO 2439	N	330 ± %15
Tensile strength	TS 2012 EN ISO 1789	kPa	Min. 185 kPa
Elongation at break	TS 2012 EN ISO 1789	%	Min %70
Tear strength	TS EN ISO 8067	N/cm	Min. 3,0 N/cm
Crush under pressure (permanent deformation)	TS 2013 EN ISO 1856	%	Mak. 2,5
	TS 2013 EN ISO 1856	%	Mak. 4,5
Elasticity	ASTM D 3574 TEST H	%	% 50 ± 5

SINGLE SKIN WALL MOUNT OUTDOOR CABINETS

Bottom view

| Product Code	Product Description	Dimension WxDxH (mm)	U	h	H (mm), Out-to-out wheel and feetless (mm)	Width (mm)	Width between device	Depth (mm)	Depth between device struts Shipment conf.	Packaging size WxDxH (mm)	Contents of pack.	Contents of pallet quantity	Net product weight (kg)	Gross product weight (kg)	Pallet dimension WxDxH (mm)	Package weight (kg)
EOC6045T7UD	7U, 19'' Single skin type Outdoor cabinet	600x450x425	7U	311	425	640	19''	490	375	660x510x540	1	3	23,5	27	650x500x100	7
EOC6045T9UD	9U, 19'', Single skin type Outdoor cabinet	600x450x515	9U	400	515	640	19''	490	375	660x510x630	1	3	26,5	30	650x500x100	7
EOC6045T12UD	12U, 19'', Single skin type Outdoor cabinet	600x450x648	12U	533	648	640	19''	490	375	660x510x763	1	2	31	34	650x500x100	7
EOC6045T16UD	16U, 19'', Single skin type Outdoor cabinet	600x450x825	16U	711	825	640	19''	490	375	660x510x940	1	2	37	40	650x500x100	7
EOC6045T18UD	18U, 19'', Single skin type Outdoor cabinet	600x450x915	18U	800	915	640	19''	490	375	660x510x1030	1	2	40	43	650x500x100	7
EOC6045T20UD	20U, 19'', Single skin type Outdoor cabinet	600x450x1004	20U	889	1004	640	19''	490	375	660x510x1119	1	1	43	46	650x500x100	7
EOC6045T22UD	22U, 19'', Single skin type Outdoor cabinet	600x450x1092	22U	978	1092	640	19''	490	375	660x510x1207	1	1	47	51	650x500x100	7
EOC6045T24UD	24U, 19'', Single skin type Outdoor cabinet	600x450x1181	24U	1067	1181	640	19''	490	375	660x510x1296	1	1	50	54	650x500x100	7
EOC6060T7UD	7U, 19'', Single skin type Outdoor cabinet	600x600x425	7U	311	425	640	19''	640	525	660x660x540	1	3	32,5	36	650x650x100	8
EOC6060T9UD	9U, 19'', Single skin type Outdoor cabinet	600x600x515	9U	400	515	640	19''	640	525	660x660x630	1	3	35,5	39	650x650x100	8
EOC6060T12UD	12U, 19'', Single skin type Outdoor cabinet	600x600x648	12U	533	648	640	19''	640	525	660x660x763	1	2	40	43	650x650x100	8
EOC6060T16UD	12U, 19'', Single skin type Outdoor cabinet	600x600x825	16U	711	825	640	19''	640	525	660x660x940	1	2	46	49	650x650x100	8
EOC6060T18UD	18U, 19'', Single skin type Outdoor cabinet	600x600x915	18U	800	915	640	19''	640	525	660x660x1030	1	2	49	52	650x650x100	8
EOC6060T20UD	20U, 19'', Single skin type Outdoor cabinet	600x600x1004	20U	889	1004	640	19''	640	525	660x660x1119	1	1	52	55	650x650x100	8
EOC6060T22UD	22U, 19'', Single skin type Outdoor cabinet	600x600x1092	22U	978	1092	640	19''	640	525	660x660x1207	1	1	55	59	650x650x100	8
EOC6060T24UD	24U, 19'', Single skin type Outdoor cabinet	600x600x1181	24U	1067	1181	640	19''	640	525	660x660x1296	1	1	58	62	650x650x100	8

DOUBLE SKIN WALL MOUNT OUTDOOR CABINETS

| Product Code	Product Description	Dimension WxDxH (mm)	U	h	H (mm), Out-to-out wheel and feetless (mm)	Width (mm)	Width between device	Depth (mm)	Depth between device struts Shipment conf.	Packaging size WxDxH (mm)	Contents of pack.	Contents of pallet quantity	Net product weight (kg)	Gross product weight (kg)	Pallet dimension WxDxH (mm)	Package weight (kg)
EOC6045C7UD	7U, 19", Single skin type Outdoor cabinet	600x450x425	7U	311	425	640	19"	490	375	660x510x540	1	3	59,5	63	650x500x100	7
EOC6045C9UD	9U, 19", Single skin type Outdoor cabinet	600x450x515	9U	400	515	640	19"	490	375	660x510x630	1	3	62,5	66	650x500x100	7
EOC6045C12UD	12U, 19", Single skin type Outdoor cabinet	600x450x648	12U	533	648	640	19"	490	375	660x510x763	1	2	67	70	650x500x100	7
EOC6045C16UD	16U, 19", Single skin type Outdoor cabinet	600x450x825	16U	711	825	640	19"	490	375	660x510x940	1	2	73	76	650x500x100	7
EOC6045C18UD	18U, 19", Single skin type Outdoor cabinet	600x450x915	18U	800	915	640	19"	490	375	660x510x1030	1	2	76	79	650x500x100	7
EOC6045C20UD	20U, 19", Single skin type Outdoor cabinet	600x450x1004	20U	889	1004	640	19"	490	375	660x510x1119	1	1	79	83	650x500x100	7
EOC6045C22UD	22U, 19", Single skin type Outdoor cabinet	600x450x1092	22U	978	1092	640	19"	490	375	660x510x1207	1	1	83	87	650x500x100	7
EOC6045C24UD	24U, 19", Single skin type Outdoor cabinet	600x450x1181	24U	1067	1181	640	19"	490	375	660x510x1296	1	1	85,65	90	650x500x100	7
EOC6060C7UD	7U, 19", Single skin type Outdoor cabinet	600x600x425	7U	311	425	640	19"	640	525	660x660x540	1	3	75	79	650x650x100	8
EOC6060CT9UD	9U, 19", Single skin type Outdoor cabinet	600x600x515	9U	400	515	640	19"	640	525	660x660x630	1	3	78	82	650x650x100	8
EOC6060C12UD	12U, 19", Single skin type Outdoor cabinet	600x600x648	12U	533	648	640	19"	640	525	660x660x763	1	2	82,5	87	650x650x100	8
EOC6060C16UD	12U, 19", Single skin type Outdoor cabinet	600x600x825	16U	711	825	640	19"	640	525	660x660x940	1	2	88,5	94	650x650x100	8
EOC6060C18UD	18U, 19", Single skin type Outdoor cabinet	600x600x915	18U	800	915	640	19"	640	525	660x660x1030	1	2	91,5	97	650x650x100	8
EOC6060C20UD	20U, 19", Single skin type Outdoor cabinet	600x600x1004	20U	889	1004	640	19"	640	525	660x660x1119	1	1	94,5	100	650x650x100	8
EOC6060C22UD	22U, 19", Single skin type Outdoor cabinet	600x600x1092	22U	978	1092	640	19"	640	525	660x660x1207	1	1	97,5	103	650x650x100	8
EOC6060C24UD	24U, 19", Single skin type Outdoor cabinet	600x600x1181	24U	1067	1181	640	19"	640	525	660x660x1296	1	1	100	106	650x650x100	8

SINGLE SKIN, PLINTH TYPE OUTDOOR CABINETS

| Product Code	Product Description	Dimension WxDxH (mm)	U	h	H (mm), Out-to-out wheel and feetless (mm)	Width (mm)	Width between device	Depth (mm)	Depth between device struts Shipment conf.	Packaging size WxDxH (mm)	Contents of pack.	Contents of pallet quantity	Net product weight (kg)	Gross product weight (kg)	Pallet dimension WxDxH (mm)	Package weight (kg)
EOC6045T7UZ	7U, 19", Single skin type Outdoor cabinet	600x450x525	7U	311	525	640	19"	490	375	660x510x640	1	3	25,5	29	650x500x100	7
EOC6045T9UZ	9U, 19", Single skin type Outdoor cabinet	600x450x615	9U	400	615	640	19"	490	375	660x510x730	1	2	28,5	32	650x500x100	7
EOC6045T12UZ	12U, 19", Single skin type Outdoor cabinet	600x450x748	12U	533	748	640	19"	490	375	660x510x863	1	2	33	36	650x500x100	7
EOC6045T16UZ	16U, 19", Single skin type Outdoor cabinet	600x450x925	16U	711	925	640	19"	490	375	660x510x1040	1	2	39	42	650x500x100	7
EOC6045T18UZ	18U, 19", Single skin type Outdoor cabinet	600x450x1015	18U	800	1015	640	19"	490	375	660x510x1130	1	1	42	46	650x500x100	7
EOC6045T20UZ	20U, 19", Single skin type Outdoor cabinet	600x450x1104	20U	889	1104	640	19"	490	375	660x510x1219	1	1	45	49	650x500x100	7
EOC6045T22UZ	22U, 19", Single skin type Outdoor cabinet	600x450x1192	22U	978	1192	640	19"	490	375	660x510x1307	1	1	49	54	650x500x100	7
EOC6045T24UZ	24U, 19", Single skin type Outdoor cabinet	600x450x1281	24U	1067	1281	640	19"	490	375	660x510x1396	1	1	52	57	650x500x100	7
EOC6060T7UZ	7U, 19", Single skin type Outdoor cabinet	600x600x525	7U	311	525	640	19"	640	525	660x660x640	1	3	34,5	38	650x650x100	8
EOC6060T9UZ	9U, 19", Single skin type Outdoor cabinet	600x600x615	9U	400	615	640	19"	640	525	660x660x730	1	2	37,5	41	650x650x100	8
EOC6060T12UZ	12U, 19", Single skin type Outdoor cabinet	600x600x748	12U	533	748	640	19"	640	525	660x660x863	1	2	42	45	650x650x100	8
EOC6060T16UZ	12U, 19", Single skin type Outdoor cabinet	600x600x925	16U	711	925	640	19"	640	525	660x660x1040	1	2	48	51	650x650x100	8
EOC6060T18UZ	18U, 19", Single skin type Outdoor cabinet	600x600x1015	18U	800	1015	640	19"	640	525	660x660x1130	1	1	51	55	650x650x100	8
EOC6060T20UZ	20U, 19", Single skin type Outdoor cabinet	600x600x1104	20U	889	1104	640	19"	640	525	660x660x1219	1	1	54	58	650x650x100	8
EOC6060T22UZ	22U, 19", Single skin type Outdoor cabinet	600x600x1192	22U	978	1192	640	19"	640	525	660x660x1307	1	1	57	61	650x650x100	8
EOC6060T24UZ	24U, 19", Single skin type Outdoor cabinet	600x600x1281	24U	1067	1281	640	19"	640	525	660x660x1396	1	1	60	65	650x650x100	8

DOUBLE SKIN, PLINTH TYPE OUTDOOR CABINETS

Product Code	Product Description	Dimension WxDxH (mm)	U	h	H (mm), Out-to-out wheel and feetless (mm)	Width (mm)	Width between device	Depth (mm)	Depth between device struts Shipment conf.	Packaging size WxDxH (mm)	Contents of pack.	Contents of pallet quantity	Net product weight (kg)	Gross product weight (kg)	Pallet dimension WxDxH (mm)	Package weight (kg)
EOC6045C7UZ	7U, 19", Single skin type Outdoor cabinet	600x450x525	7U	311	525	640	19"	490	375	660x510x540	1	2	61,5	66	650x500x100	7
EOC6045C9UZ	9U, 19", Single skin type Outdoor cabinet	600x450x615	9U	400	615	640	19"	490	375	660x510x730	1	2	64,5	69	650x500x100	7
EOC6045C12UZ	12U, 19", Single skin type Outdoor cabinet	600x450x748	12U	533	748	640	19"	490	375	660x510x863	1	2	69	73	650x500x100	7
EOC6045C16UZ	16U, 19", Single skin type Outdoor cabinet	600x450x925	16U	711	925	640	19"	490	375	660x510x1040	1	2	75	80	650x500x100	7
EOC6045C18UZ	18U, 19", Single skin type Outdoor cabinet	600x450x1015	18U	800	1015	640	19"	490	375	660x510x1130	1	1	78	83	650x500x100	7
EOC6045C20UZ	20U, 19", Single skin type Outdoor cabinet	600x450x1104	20U	889	1104	640	19"	490	375	660x510x1219	1	1	81	86	650x500x100	7
EOC6045C22UZ	22U, 19", Single skin type Outdoor cabinet	600x450x1192	22U	978	1192	640	19"	490	375	660x510x1307	1	1	85	90	650x500x100	7
EOC6045C24UZ	24U, 19", Single skin type Outdoor cabinet	600x450x1281	24U	1067	1281	640	19"	490	375	660x510x1396	1	1	87,65	93	650x500x100	7
EOC6060C7UZ	7U, 19", Single skin type Outdoor cabinet	600x600x525	7U	311	525	640	19"	640	525	660x660x640	1	3	77	81	650x650x100	8
EOC6060C9UZ	9U, 19", Single skin type Outdoor cabinet	600x600x615	9U	400	615	640	19"	640	525	660x660x730	1	2	80	85	650x650x100	8
EOC6060C12UZ	12U, 19", Single skin type Outdoor cabinet	600x600x748	12U	533	748	640	19"	640	525	660x660x863	1	2	84,5	90	650x650x100	8
EOC6060C16UZ	12U, 19", Single skin type Outdoor cabinet	600x600x925	16U	711	925	640	19"	640	525	660x660x1040	1	2	90,5	96	650x650x100	8
EOC6060C18UZ	18U, 19", Single skin type Outdoor cabinet	600x600x1015	18U	800	1015	640	19"	640	525	660x660x1130	1	1	93,5	99	650x650x100	8
EOC6060C20UZ	20U, 19", Single skin type Outdoor cabinet	600x600x1104	20U	889	1104	640	19"	640	525	660x660x1219	1	1	96,5	102	650x650x100	8
EOC6060C22UZ	22U, 19", Single skin type Outdoor cabinet	600x600x1192	22U	978	1192	640	19"	640	525	660x660x1307	1	1	99,5	106	650x650x100	8
EOC6060C24UZ	24U, 19", Single skin type Outdoor cabinet	600x600x1281	24U	1067	1281	640	19"	640	525	660x660x1396	1	1	102	108	650x650x100	8

ACCESSORIES

Estap Outdoor type cabinets have a wide range of accessories.
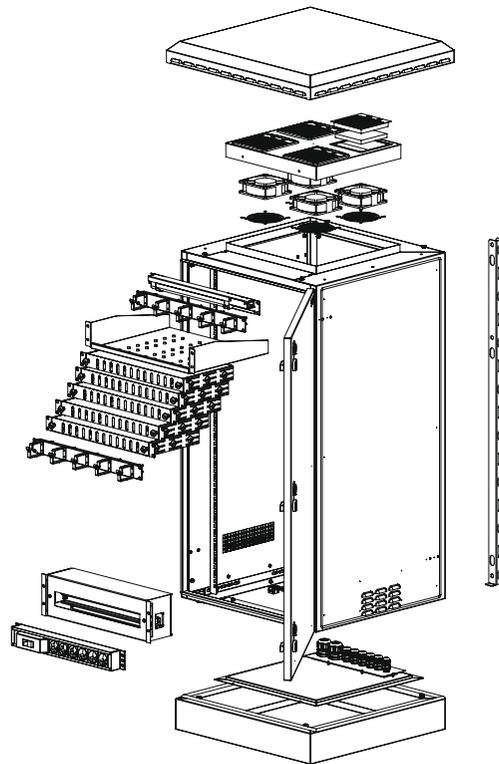
CONTENTS

STANDARDS AND COMPATIBILITY

• ISO 9001:2008
• TSE:EN 61587-1: Mechanical structures for electronic equipment – examinations for standards IEC 60917 and IEC 60297
• Air conditioning examinations: EN 61587-1/4.2, IEC60068-2-1, IEC60068-2-2, IEC60068-2-30,
• Static mechanical load lifting test: EN61587-1/5.2.1
• Static mechanic load strength test: EN61587-1/5.2.2

• Dynamic mechanical load vibration, mechanical impact and collusion test: EN61587-1/5.3.1,EN61587-1/5.3.3, IEC60068-2-6, IEC60068-2-27,
• Flammability: EN61587-1/6.3
• **A load bearing capacity test was conducted and passed by adding 450kg load to the outdoor type cabinet having 19" Mounting Rails.**

ELECTRICAL AND TRUNK DISTRIBUTION PANELS

Electrical Distribution Panel

• It is designed to feed power inside the cabinet.
It has 19", 3U, and has a completely sealed door and an isolated Construction.
• It is used for 48VDC and 220AC electrical distribution. The Cable Entry is 380mm, and width is 18mm per fuse and width is 45mm per plug. Accordingly, 21 single switch fuses or 8 45x45 plugs mat be attached.
• Material: Metal
• Color: White RAL 7035, Black RAL 9005
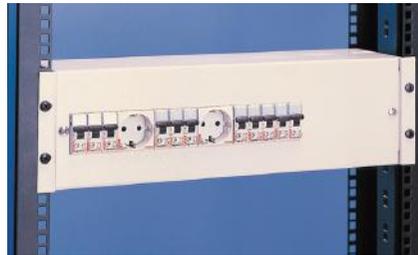
Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
M68DCD3U	3U, 19" Electrical distribution panel. Shipped with its copper grounding busbar.	483x123x133	X	X

Trunk Distribution Panel

• It is designed for purpose of trunk distribution inside the cabinet.
• It has 19", 3U, and has a completely sealed door and an isolated Construction.
• It is shipped complete with 150 port MDF framework.
• Material: Metal
• Color: White RAL 7035, Black RAL 9005

Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)°
M68TLD3U	3U, 19" Trunk distribution panel	483x150x139	X	X

19" FRONT ASSEMBLY TYPE DEVICE SHELVES

They may be connected 19" front device assembly struts. They is designed not to cause any obstacle to the ventilation system, and the ventilation slots are placed. The accessories are made of steel material, manufactured by the bending technology and having a high strength.

19" front assembly type device shelves

· Having a direct connection to 19" device assembly.
· Having a ventilation slot.
· Easy installation.
· Load bearing capacity: 35kg.
· Material: Metal
· Color: White RAL 7035, Black RAL 9005

Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
E44RAK20	19", 1U shelf, depth=200 mm	483x200x44	x	x
E44RAK25	19", 1U shelf, depth=250 mm	483x250x44	x	x
E44RAK30	19", 1U shelf, depth=300 mm	483x300x44	x	x
E44RAK35	19", 2U shelf, depth=350 mm	483x370x88	x	x
E44RAK40	19", 1U shelf, depth=400 mm	483x400x43	x	x

SLIDING AND FIXED SHELVES

Sliding Shelves
· Ability to mount at 4 points as 2 in front side and 2 in rear side.
· Having a construction moving forward.
· Suitable for 19".
· Having a ventilation slot.
· Load capacity: 25kg.
· Material: Metal
· Color: White RAL 7035, Black RAL 9005

Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
M44OHRK60	Sliding shelf, d=600 mm, suitable for mounting the cabinet.	465x345x30		x
M44OHRK45	Sliding shelf, d=450 mm, suitable for mounting the cabinet.	465x345x30	x	x

Fixed Shelves
· Ability to mount at 4 points as 2 in front side and 2 in rear side.
· Suitable for 19".
· Having a ventilation slot.
· Load carrying capacity: 50kg.
· Material: Metal
· Color: White RAL 7035, Black RAL 9005

Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
M44SBRO60	Fixed shelf, d=600 mm, suitable for mounting the cabinet.	465x345x30		x
M44SBRO45	Fixed shelf, d=450 mm, suitable for mounting the cabinet.	465x345x30	x	x

FRONT DOOR

The front door is made of 1.5mm DX51D (1.0226) +Z275 galvanized material and reinforced by bends. It provides highest corrosion strength by a light grey polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035 applied on the mono-block welded construction.

It may be transformed to double type one both at the manufacturing site and on site. The front door is closed on flange bended and gasket type frame system on the cabinet body. Alternative door options are as follows:
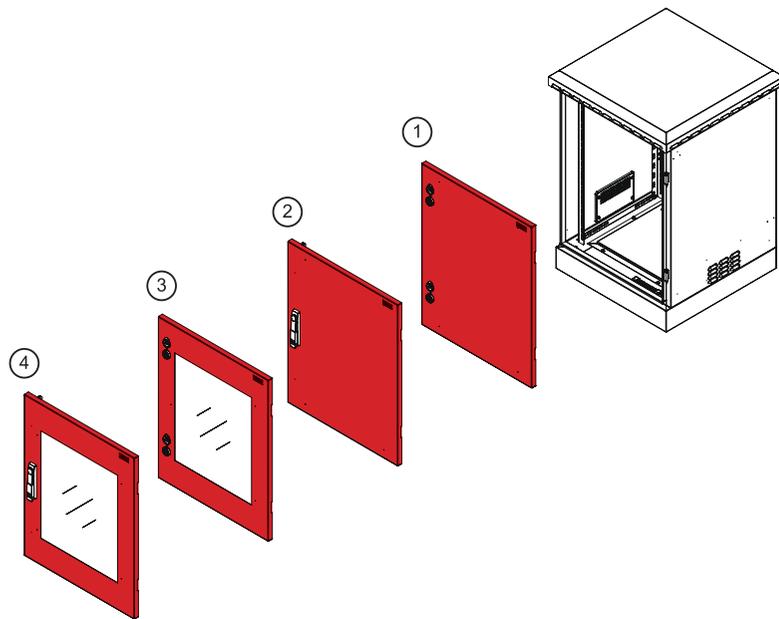
PRODUCT DETAILS	
1	A metal front door having an "O" type locking assembly.
2	A metal front door locked at 3 points and having an Swing handle lock.
3	A glass front door having an "O" type barrel assembly and a metal frame.
4	A metal front door locked at 3 points and having an Swing handle lock and a metal frame

| Product code	Product description	Dimension
M350KPK607C	7U, W=600, Double Wall type Metal Front Door (1-Point Lockable "O Type" Lock)	598x352,95x23
M350KPK609C	9U, W=600, Double Wall type Metal Front Door (2 Point Lockable "O Type" Lock)	598x441,85x23
M350KPK612C	12U, W=600, Double Wall type Metal Front Door (2 Point Lockable "O Type" Lock)	598x575,2x23
M350KPK616C	16U, W=600, Double Wall type Metal Front Door (2 Point Lockable "O Type" Lock)	598x753x23
M350KPK618C	18U, W=600, Double Wall type Metal Front Door (3 Point Lockable "O Type" Lock)	598x841,9x23
M350KPK620C	20U, W=600, Double Wall type Metal Front Door (3 Point Lockable "O Type" Lock)	598x930,8x23
M350KPK622C	22U, W=600, Double Wall type Metal Front Door (3 Point Lockable "O Type" Lock)	598x1019,7x23
M350KPK624C	24U, W=600, Double Wall type Metal Front Door (3 Point Lockable "O Type" Lock)	598x1108x23
M350KPK607T	7U, W=600, Single Wall type Metal Front Door (1 Point Lockable "O Type" Lock)	598x352,95x23
M350KPK609T	9U, W=600, Single Wall type Metal Front Door (2 Point Lockable "O Type" Lock)	598x441,85x23
M350KPK612T	12U, W=600, Single Wall type Metal Front Door (2 Point Lockable "O Type" Lock)	598x575,2x23
M350KPK616T	16U, W=600, Single Wall type Metal Front Door (2 Point Lockable "O Type" Lock)	598x753x23
M350KPK618T	18U, W=600, Single Wall type Metal Front Door (3 Point Lockable "O Type" Lock)	598x841,9x23
M350KPK620T	20U, W=600, Single Wall type Metal Front Door (3 Point Lockable "O Type" Lock)	598x930,8x23
M350KPK622T	22U, W=600, Single Wall type Metal Front Door (3 Point Lockable "O Type" Lock)	598x1019,7x23
M350KPK624T	24U, W=600, Single Wall type Metal Front Door (3 Point Lockable "O Type" Lock)	598x1108x23
M350KPK618CK	18U, W=600, Double Wall type Metal Front Door (3-Point Lockable Swing Handle Lock)	598x841,9x23
M350KPK620CK	20U, W=600, Double Wall type Metal Front Door (3 Point Lockable Swing Handle Lock)	598x930,8x23
M350KPK622CK	22U, W=600, Double Wall type Metal Front Door (3 Point Lockable Swing Handle Lock)	598x1019,7x23
M350KPK624CK	24U, W=600, Double Wall type Metal Front Door (3 Point Lockable Swing Handle Lock)	598x1108x23
M350KPK618TK	18U, W=600, Single Wall type Metal Front Door (3 Point Lockable Swing Handle Lock)	598x841,9x23
M350KPK620TK	20U, W=600, Single Wall type Metal Front Door (3 Point Lockable Swing Handle Lock)	598x930,8x23
M350KPK622TK	22U, W=600, Single Wall type Metal Front Door (3 Point Lockable Swing Handle Lock)	598x1019,7x23
M350KPK624TK	24U, W=600, Single Wall type Metal Front Door (3 Point Lockable Swing Handle Lock)	598x1108x23

INTERIOR CABINET WALLS

The walls of the cabinet are made of 105mm DX51D (1.0226) +Z275 galvanized material and reinforced by bends. It provides highest corrosion strength by a light grey polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035 applied on the mono-block welded construction. It may be disassembled and assembled easily. It may never be intervened in externally. A polyurethane plate of 9mm in thickness and placed between walls is used as a heat isolation material. The heat isolation material prevents overheat and cooling of the cabinet.

Heat Isolation is applied to the front door and side surfaces.

Single and double wall type options of our standard cabinets are available. It is possible to transform the same cabinet to single or double wall type one. It is sufficient to supply an interior door only as an accessory to transform a single wall type cabinet installed on site to a double wall type cabinet.

Front door wall   Side wall   Rear wall
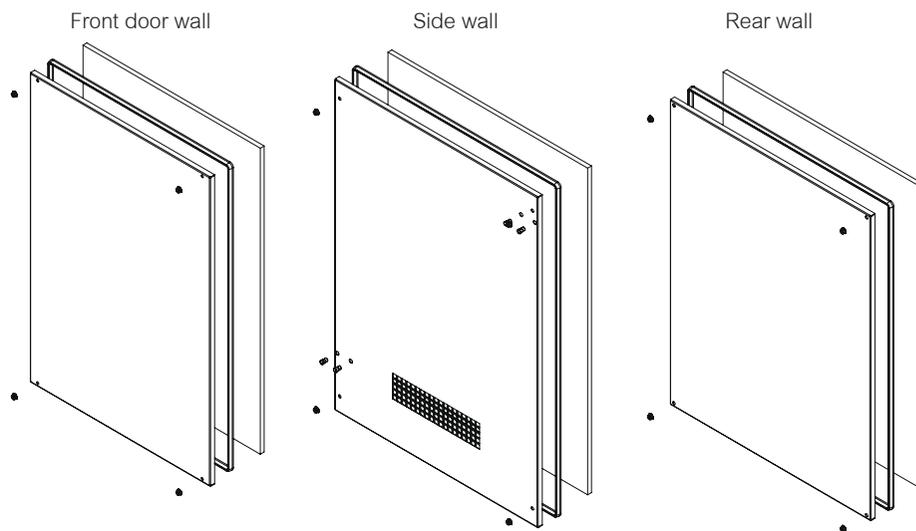
Product code	Product description	Dimension
M350AKCDR609	9U,W=600, Outdoor Type Cabinet front and rear interior door module	520 x 12 x 369
M350AKCDR612	12U, W=600, Outdoor Type Cabinet front and rear interior door module	520 x 12 x 502
M350AKCDR616	16U, W=600, Outdoor Type Cabinet front and rear interior door module	520 x 12 x 680
M350AKCDR618	18U,W=600, Outdoor Type Cabinet front and rear interior door module	520 x 12 x 768,9
M350AKCDR620	20U, W=600, Outdoor Type Cabinet front and rear interior door module	520 x 12 x 857,8
M350AKCDR622	22U, W=600, Outdoor Type Cabinet front and rear interior door module	520 x 12 x 946,7
M350AKCDR624	24U, W=600, Outdoor Type Cabinet front and rear interior door module	520 x 12 x 1035,6
M350YNCDR64507	7U, W=450, Outdoor Type Cabinet aide interior wall module	370 x 12 x 280
M350YNCDR64509	9U,W=450, Outdoor Type Cabinet aide interior wall module	370 x 12 x 369
M350YNCDR64512	12U, W=450, Outdoor Type Cabinet aide interior wall module	370 x 12 x 502
M350YNCDR64516	16U, W=450, Outdoor Type Cabinet aide interior wall module	370 x 12 x 680
M350YNCDR64518	18U, W=450, Outdoor Type Cabinet aide interior wall module	370 x 12 x 768,9
M350YNCDR64520	20U, W=450, Outdoor Type Cabinet aide interior wall module	370 x 12 x 857,8
M350YNCDR64522	22U, W=450, Outdoor Type Cabinet aide interior wall module	370 x 12 x 946,7
M350YNCDR64524	24U, W=450, Outdoor Type Cabinet aide interior wall module	370 x 12 x 1035,6
M350YNCDR6607	7U, W=600, Outdoor Type Cabinet aide interior wall module	520 x 12 x 280
M350YNCDR6609	9U, W=600, Outdoor Type Cabinet aide interior wall module	520 x 12 x 369
M350YNCDR6612	12U, W=600, Outdoor Type Cabinet aide interior wall module	520 x 12 x 502
M350YNCDR6616	16U, W=600, Outdoor Type Cabinet aide interior wall module	520 x 12 x 680
M350YNCDR6618	18U, W=600, Outdoor Type Cabinet aide interior wall module	520 x 12 x 768,9
M350YNCDR6620	20U, W=600, Outdoor Type Cabinet aide interior wall module	520 x 12 x 857,8
M350YNCDR6622	22U, W=600, Outdoor Type Cabinet aide interior wall module	520 x 12 x 946,7
M350YNCDR6624	24U, W=600, Outdoor Type Cabinet aide interior wall module	520 x 12 x 1035,6

HORIZONTAL CABLE MANAGER AND BLANKING PANELS

Horizontal Cable Manager
- Suitable for 19".
- 5 hooks or patch cord passage hall.
- Complete with 9" mount fasteners.
- Ability to assemble easily.
- Material: Metal
- Color: White RAL 7035, Black RAL 9005

Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
E44ORG1U	1U, 19" horizontal cable manager - 5 hooks	483x80x44	x	x
E44ORG2U	2U, 19" horizontal cable manager - 5 hooks	483x80x88	x	x
E44ORG1UN	1U, 19" horizontal cable manager, channel type with removable cover	483x80x44	x	x

Blanking Panels

They are designed to close the empty and undesired slots in the cabinet.
- Material: Metal
- Suitable for 19".
- Color: White RAL 7035, Black RAL 9005
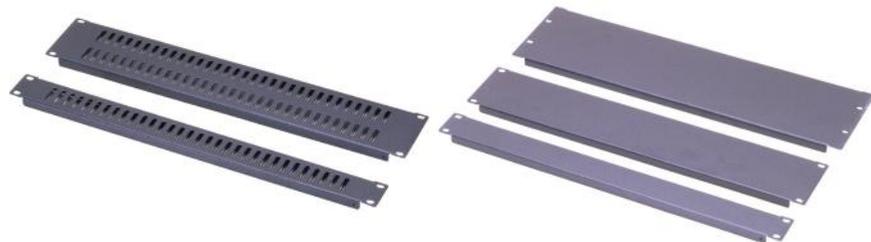
| Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
E44BPN01	1U, 19" blanking panel	483x12x44	x	x
E44BPN02	2U, 19" blanking panel	483x12x88	x	x
E44BPN03	3U, 19" blanking panel	483x12x133	x	x
E44BPN04	4U, 19" blanking panel	483x12x177	x	x
E44BPN05	5U, 19" blanking panel	483x12x222	x	x
E44BPN06	6U, 19" blanking panel	483x12x266	x	x
E44PPN01	1U, 19" blanking panel	483x12x44	x	x
E44PPN02	2U, 19" blanking panel	483x12x88	x	x

VERTICAL CABLE CHANNELS - FAN MODULES

Vertical Cable Channels
· Length along height of the cabinet.
· Material: Metal
· They are performed to allow cable installation and fixation.
· Color: Galvanized Coating.

Fan module
· Having a thermostat control.
· Thermostat setting range: 0 - 35°C.
· Each fan sucks or presses 2.3 m3 air. CFM: 80q
· Fan size: 120x120x38 mm; air flow: min 2.3m^3/min.; noise intensity (dBA) = 47, 220 – 240VAC, 50/60Hz, 0.25A.
· It allows for external intervention in the cabinet.
· Electrical connections of the fan group are made by ferrules and sockets and ensure grounding (technical specification for 1 fan).
· Connection devices (e.g. bolts, nuts, washers, etc.): They are coated by galvanized zinc of 8 to 12 microns in thickness in accordance with the standard DIN EN 12329.
· If it falls down to the adjusted temperature range, the thermostat stops operation of the fans. When it exceeds the temperature ranges, the thermostat activates the fans and begins air circulation and cooling.
· It has a CE certificate.
· It allows for easy assembly.
· Power cable and its interior cabling are shipped ready to work

Product code	Product description	Size (WxDxH)
M350KNL07	7U, Outdoor type cabinet 94 mm Cable Tray	94x14x311
M350KNL09	9U, Outdoor type cabinet 94 mm Cable Tray	94x14x400
M350KNL12	12U, Outdoor type cabinet 94 mm Cable Tray	94x14x533,4
M350KNL16	16U, Outdoor type cabinet 94 mm Cable Tray	94x14x711
M350KNL18	18U, Outdoor type cabinet 94 mm Cable Tray	94x14x800
M350KNL20	20U, Outdoor type cabinet 94 mm Cable Tray	94x14x889
M350KNL22	22U, Outdoor type cabinet 94 mm Cable Tray	94x14x978
M350KNL24	24U, Outdoor type cabinet 94 mm Cable Tray	94x14x1066,8

Product code	Product description	Size (WxDxH)	D=450 (mm)	D=600 (mm)
M44HV6452HVT	600X450 Outdoor type cabinet, 2-fan filter thermostat - RAL 7035 T	403x227x45	x	
M44HV662HVT	600X600 Outdoor type cabinet, 2-fan filter thermostat - RAL 7035 T	403x377x45		x
M44HV664HVT	600X600 Outdoor type cabinet, 4-fan filter thermostat - RAL 7035 T	403x377x45		x
M44HV6452HV	600X450 Outdoor type cabinet, 2-fan filter - RAL 7035 T	403x227x45	x	
M44HV662HV	600X600 Outdoor type cabinet, 2-fan filter - RAL 7035 T	403x377x45		x
M44HV664HV	600X600 Outdoor type cabinet, 4-fan filter - RAL 7035 T	403x377x45		x
M44HVPNLK645	600X450 Outdoor type cabinet, higher closing sheet - RAL 7035 T	403x227x45	x	
M44HVPNLK66	600X600 Outdoor type cabinet, higher closing sheet - RAL 7035 T	403x377x45		x
TERMOSTAT3	30° thermostat module mountable to 'V' switch rail	25x28x50		

PDU

PDU - Aluminum Body
- PVC electrical distribution blocks, on/off switch, 220V AC.
- 2.5m Power cable and its interior cabling are shipped ready to work.
- Suitable for 19".
- It allows for easy assembly.
- Complete with 19" assembly bracket.
- Color: White RAL 7035, Black RAL 9005

| Product code	Product description	WxDxH (mm)
M446AL	6 Sets of Sockets, 19", Aluminum Profile Body, 1X16A Fuse Protection, Schuko Type, 250VAC, 2.5m Cable, Plug	483 (19") x 44.4 x 44.4
M446ALD	6 Sets of Sockets, Dual Circuit (3+3), 19", Aluminum Profile Body, 2 1x16A Fuse Protections, Schuko Type, 250VAC	483 (19") x 44.4 x 44.4
M449ALC	9 Sets of Sockets, 19", Aluminum Profile Body, 1X16A Fuse Protection, Iec320 Type, 250VAC, 2.5m Cable, Plug	483 (19") x 44.4 x 88.8
M449ALCD	9 Sets of Sockets, Dual Circuit (4+5), 19", Aluminum Profile Body, 2 1x16A Fuse Protections, Schuko Type, 250 VAC	483 (19") x 44.4 x 120
M446ALIEC	6 Sets of Sockets, 19", Aluminum Profile Body, 1x16A Fuse Protection, Iec320 Type, 250VAC, 2.5m Cable, Plug	483 (19") x 44.4 x 44.4
M446ALDIEC	6 Sets of Sockets, Dual Circuit (3+3), 19", Aluminum Profile Body, 2 1x16A Fuse Protections, Iec320 Type, 250 VAC	483 (19") x 44.4 x 44.4
M449ALCIEC	9 Sets of Sockets, 19", Aluminum Profile Body, 1x16A Fuse Protection, Iec320 Type, 250VAC, 2.5m Cable, Plug	483 (19") x 44.4 x 44.4
M449ALDIEC	9 Sets of Sockets, Dual Circuit (4+5), 19", Aluminum Profile Body, 2 1x16A Fuse Protections, Iec320 Type, 250VAC	483 (19") x 44.4 x 120

*Connectors are delivered in PDU package.

PLINTH

Plinth

- It is used to lift the cabinet from floor and protect it against possible floods.
- The cable inlet has a special design for stock and storage.
- It is coated completely and may never be intervened externally. It has protection against sabotage.
- It may be fixed inside the cabinet.
- Galvanized, stainless and aluminum metal options are available.
- Height: 100mm as a standard. 50mm, 150mm and 300mm options are available.
- Color: White RAL 7035
- It allows for easy assembly without overturning or turning the cabinet.

Top view   Side view   Bottom view   Isometric view
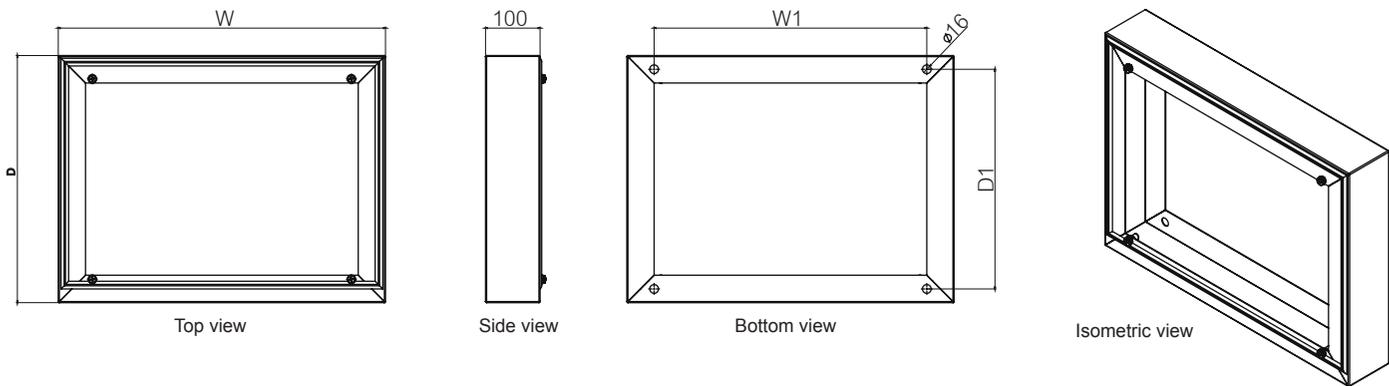
Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
M350BZ0566	Plinth width=600mm; depth=600mm; height=50mm, Outdoor type cabinet	600x600x50		X
M350BZ1066	Plinth width=600 mm, depth =600 mm, height =100 mm, Outdoor type cabinet	600x600x100		X
M350BZ1566	Plinth width=600 mm, depth =600 mm, height =150 mm, Outdoor type cabinet	780x600x150		X
M350BZ3066	Plinth width=600 mm, depth =600 mm, height =300 mm, Outdoor type cabinet	600x600x300		X
M350BZ05645	Plinth width=600 mm, depth =450 mm, height =50 mm, Outdoor type cabinet	600x450x50	X	
M350BZ10645	Plinth width=600 mm, depth =450 mm, height =100 mm, Outdoor type cabinet	600x450x100	X	
M350BZ15645	Plinth width=600 mm, depth =450 mm, height =150 mm, Outdoor type cabinet	780x450x150	X	
M350BZ30645	Plinth width=600 mm, depth =450 mm, height =300 mm, Outdoor type cabinet	600x450x300	X	

WALL MOUNTING KIT

Wall Mounting Kit

The cabinet mounting kit is made of 2.0mm DX51D (1.0226) +Z275 galvanized material. The bracket assembly screws may never be intervened in externally. It is assembled by 4x M8 screws to the bracket. The bracket is suitable to assembly the bracket by 4x M8 rods to wall.

In a 30mm space having a nature of cable basin between the cabinet and wall, the excessive cable is maintained so that it is not seen externally. Cable sag is prevented by vertical cable connection bridges along the cabinet on the right and left side of the bracket.

Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
M350DVRAPT07	7U, Outdoor type cabinet wall mount	34x30x355	X	X
M350DVRAPT09	9U, Outdoor type cabinet wall mount	34x30x444	X	X
M350DVRAPT12	12U, Outdoor type cabinet wall mount	34x30x577	X	X
M350DVRAPT16	16U, Outdoor type cabinet wall mount	34x30x755	X	X
M350DVRAPT18	18U, Outdoor type cabinet wall mount	34x30x845	X	X
M350DVRAPT20	20U, Outdoor type cabinet wall mount	34x30x933	X	X
M350DVRAPT22	22U, Outdoor type cabinet wall mount	34x30x1022	X	X
M350DVRAPT24	24U, Outdoor type cabinet wall mount	34x30x1110	X	X

FILTER MODULE

The filter module used in the cabinets is made of 1.mm DX51D (1.0226) +Z275 galvanized material, and provides highest corrosion strength (80µm (+/-15) by a light grey polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035 applied on the mono-block welded construction reinforced by bends..

'U' insets gasket is attached to the filter bends at the point that the filter matches the cabinet, and IP grade is obtained by using the gasket.

When the filter need cleaning, it may be removed easily by butterfly screws without requiring any extra tool.

The body is designed so that the protective ventilation outlets shall be installed on its right and left side surfaces.

Fresh air follows through the dust filter into be cabinet.

Standard cabinets have a ventilation system. If any ventilation system is required for the cabinet, the air inlets and outlets are coated by metal parts.

Product code	Product description	Dimension (WxDxH)
M350FLTSC	A side filter module for single wall type cabinet	200x10x150

Ventilation system of the single wall type cabinet

Air filter

Ventilation system of the double wall type cabinet

HINGE MODULE

Material
• Body: Zamak
DIN-EN 1774-ZnAl4Cu1
• Mount: St 37 Steel plate
• Body coating: Zinc
• Count coating: Copper coating
• Hinge rotation angle: 110°
• Door opening angle: 125°

The hinge is designed and concealed so that nobody can intervene between the cabinet body and door externally. The cabinet may be accessed internally and assembled easily.


Cabinet dimension	Number of hinges used in the cabinet
7U	2
9U	2
12U	2
16U	2
18U	3
20U	3
22U	3
24U	3

POLE MOUNTING KIT

Pole Mounting

The cabinet mounting kit is made of 1.5mm DX51D (1.0226) +Z275 galvanized material, and provides highest corrosion strength (80µm (+/-15)) by a light grey polyester fireproof and non-fire propagating electrostatic powder paint RAL 7035 applied on the mono-block welded construction reinforced by bends. The pole bracket is suitable to attach by M8x300 stud screw and by easy strengthening method.
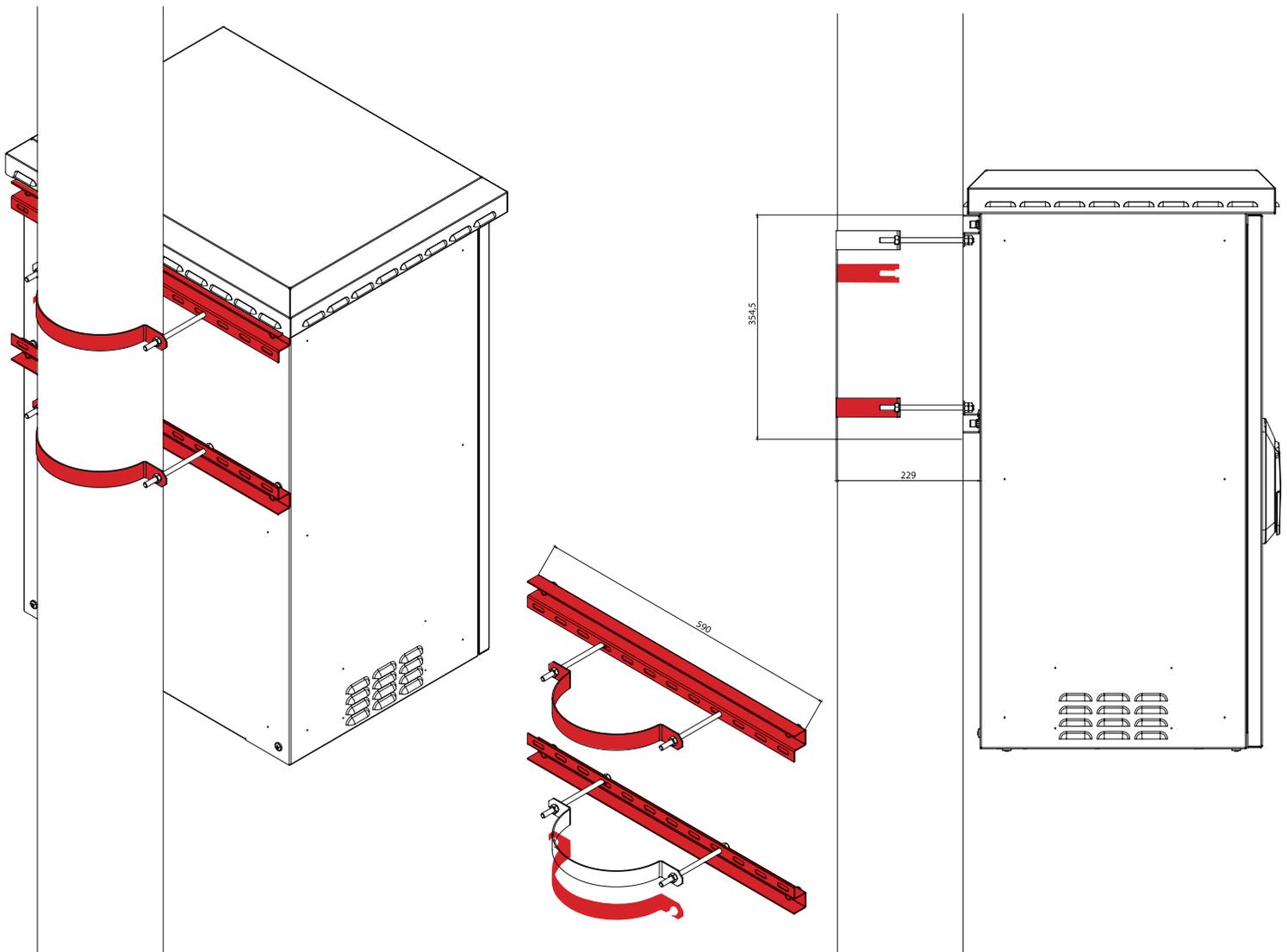
| Product code	Product description	Dimension (WxDxH)
M350DRKAPRT	W=590, compatible with all sizes, pole connection devices	590x229x354,5

19" DEVICE MOUNTING RAILS

19" Device Mounting Rails

•If you need more that the kit given as a standard with the cabinets, we can provide the needed amount.

Color: Galvanized
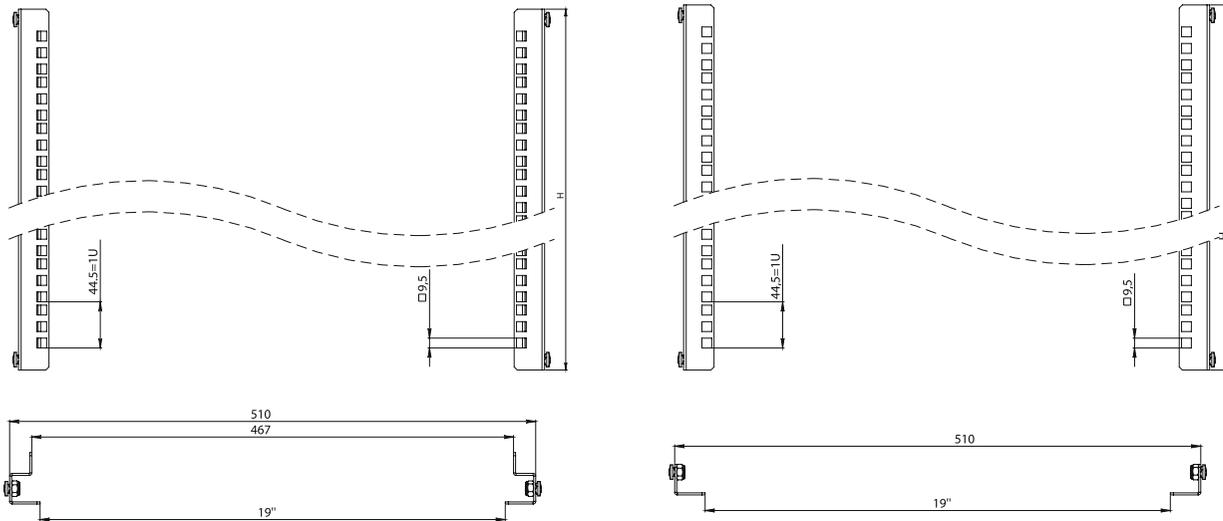
Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
M350ACD07	7U L, Mounting rails , 1 set= 2 pieces (right+left)	29,5x29,5x350	X	X
M350ACD09	9U L, Mounting rails , 1 set= 2 ad. (right+left)	29,5x29,5x440	X	X
M350ACD12	12U L, Mounting rails , 1 set= 2 ad. (right+left)	29,5x29,5x573	X	X
M350ACD16	16U L, Mounting rails , 1 set= 2 ad. (right+left)	29,5x29,5x750	X	X
M350ACD18	18U L, Mounting rails , 1 set= 2 ad. (right+left)	29,5x29,5x840	X	X
M350ACD20	20U L, Mounting rails , 1 set= 2 ad. (right+left)	29,5x29,5x928	X	X
M350ACD22	22U L, Mounting rails , 1 set= 2 ad. (right+left)	29,5x29,5x1017	X	X
M350ACD24	24U L, Mounting rails , 1 set= 2 ad. (right+left)	29,5x29,5x1106	X	X
M350SCD07	7U, S Mounting rails , 1 set= 2 ad. (right+left)	29,5x49,5x350	X	X
M350SCD09	9U S, Mounting rails , 1 set= 2 ad. (right+left)	29,5x49,5x440	X	X
M350SCD12	12U S, Mounting rails , 1 set= 2 ad. (right+left)	29,5x49,5x573	X	X
M350SCD16	16U S, Mounting rails , 1 set= 2 ad. (right+left)	29,5x49,5x750	X	X
M350SCD18	18U S, Mounting rails , 1 set= 2 ad. (right+left)	29,5x49,5x840	X	X
M350SCD20	20U S, Mounting rails , 1 set= 2 ad. (right+left)	29,5x49,5x928	X	X
M350SCD22	22U S, Mounting rails , 1 set= 2 ad. (right+left)	29,5x49,5x1017	X	X
M350SCD24	24U S, Mounting rails , 1 set= 2 ad. (right+left)	29,5x49,5x1106	X	X

DEVICE SUPPORT
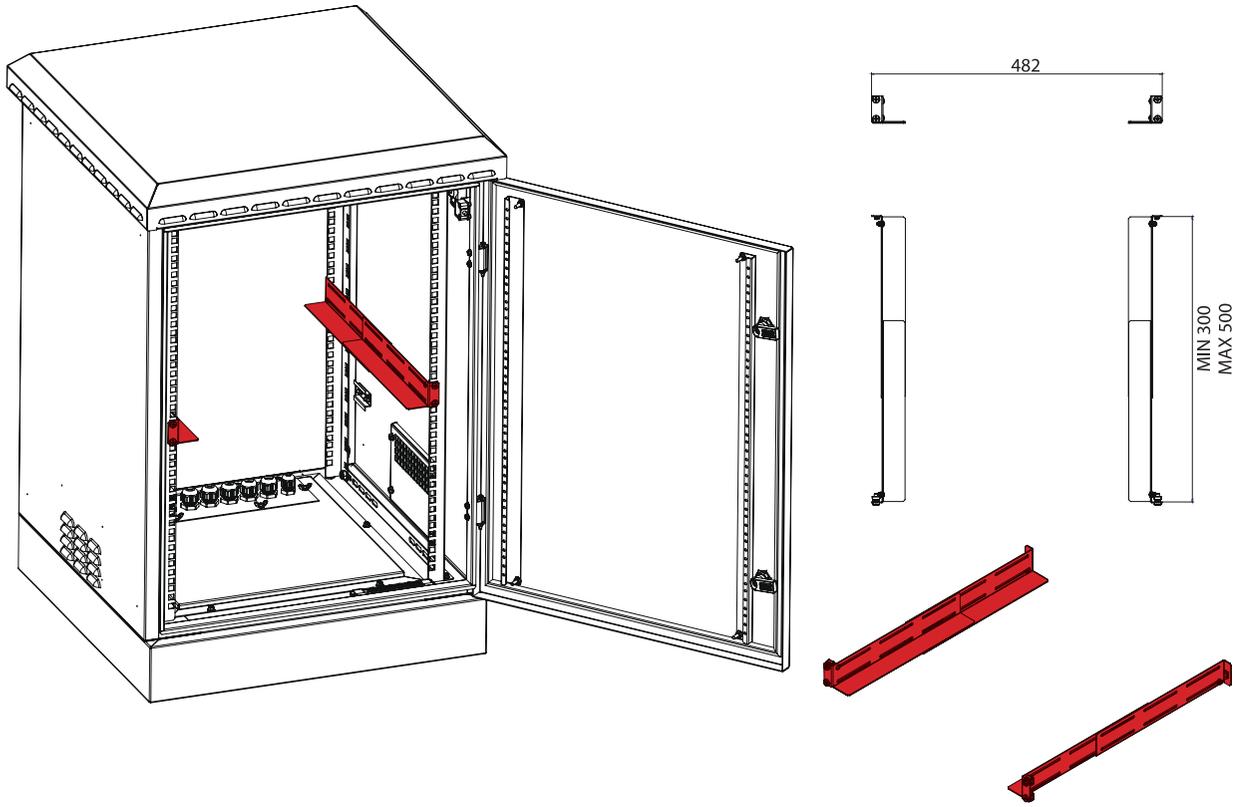
L Type Device Support

• It is connected at the front side and hooked at the rear side.
• It enable to assemble heavy devices to the rack.
• It prevents possible sags at the rear side of front connected devices.
• It allows for easy assembly.
• It has 2 different depth measures. (Min: 300mm - max: 500mm)
• It moves telescopically.
• Load bearing capacity: 50kg.
• Material: Metal
• Color: Galvanized coating

Product code	Product description	Dimension (WxDxH)	D=450 (mm)	D=600 (mm)
M44RLD_02MG	L type device support (1 set= 2 pieces)	300x60x44	X	X

![Estap logo]

# NEW GENERATION LED LIGHTNING MODULES

Interior Cabinet Lightning

• It can fixed on the floor because it has a magnet.
• It has ability to move to any desired point through its long cable.
• Through its IR sensor, ability to turn on/off automatically without requiring a further device.
• On/Off feature sensitive to any alternative movement.
• Strong Lightning.
• There is no U loss inside the cabinet.
• Light and robust construction.
• Economic solution.

ESTAP CODE: MAYDNLED-IRM

|	
On/Off mode	: IR Sensor
Product LED	: Led Cabinet Lightning : SMD 3014
Dimension	: L300x25x13.5mm
Emitting Color	: WHITE (5000 - 6500K)
Material	: Aluminum + Glass
Adapter Capacity	: 36W
Property	: IR Sensor
Type of Assembly	: Magnet type
Type of Key	: Sensor
Input Voltage (V)	: DC12V
Lamp Power (W)	: 3W
Lamp Brightness Flow (lm)	: 350-450LM
Lamp Brightness Efficiency (lm/w)	: 90
CRI (Ra)	: 75
Color Temperature (CCT)	: Pure White
Certification	: CE, EMC, RoHS, UL
Emitting Light Color	: White
Color	: Mat White
Lifespan	: 30,000h
IP Level	: IP20

PACKAGING

White carton box
Dimension: 300x28.6x9.6 mm
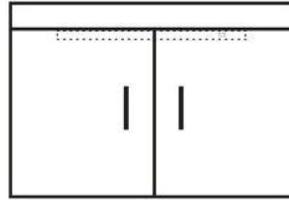
Object blocks IR sensor.
Lamp is off.
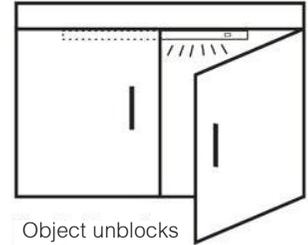
Object unblocks IR sensor.
Lamp is on.

Product code	Dimension
MAYDNLED-IRM*	300x25x13,5

*Internal lock Lightning has a magnet, and it is compatible with the galvanized and stainless outdoor type cabinets

DOOR SWITCH CONNECTION MODULE

It has an adjustable construction and placed at the upper right hand corner of the cabinet. It may be used as ON/OFF switch for door alarm and Lightning.
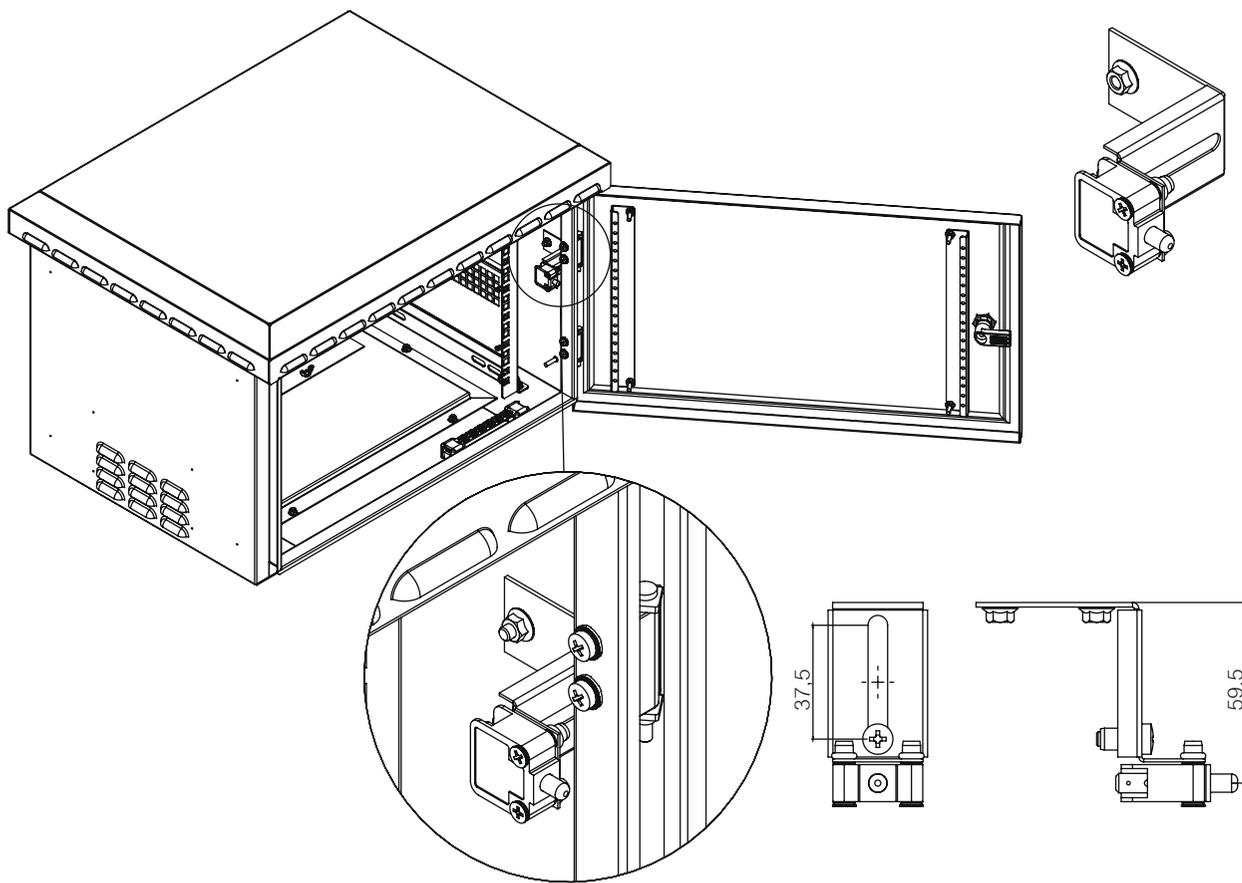
Product code	Product description	Dimension (WxDxH)
BS1011	Key connection module complete with a key, Door Open/Closed	29,6x13,1x29,7

FIXINGS

Cage Nuts, Screw, Washer - Fasteners
- M6 x15mm device assembly screw
- High strength
- M6 Cage nut
- M6 plastic washer, suitable slot for inserting screws
- Material: Galvanized steel

| Product code	Product description	Dimension	D=450 (mm)	D=600 (mm)
KFS6X15	M6 Cage nuts, screws, washers (1 set= 20 pieces)	9.5x9.5	x	x

Grounding Busbars and Cables
- 6 grounding cables
- Copper grounding Busbar complete with isolators
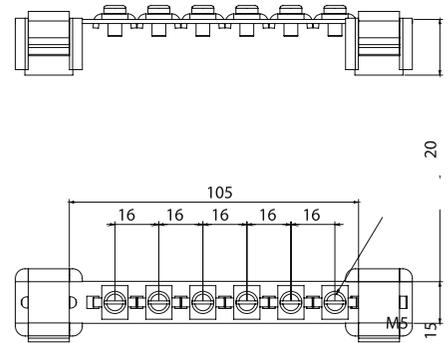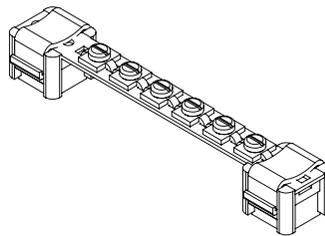
Product code	Product description	Dimension	D=450 (mm)	D=600 (mm)
M350BARA2_01	Grounding Set, 1 set = 6 pcs of 1 grounding cable and 1 isolator Grounding Busbar	2x15x150	x	x

PACKAGING DETAILS

Local packaging period of the cabinets are as follows.
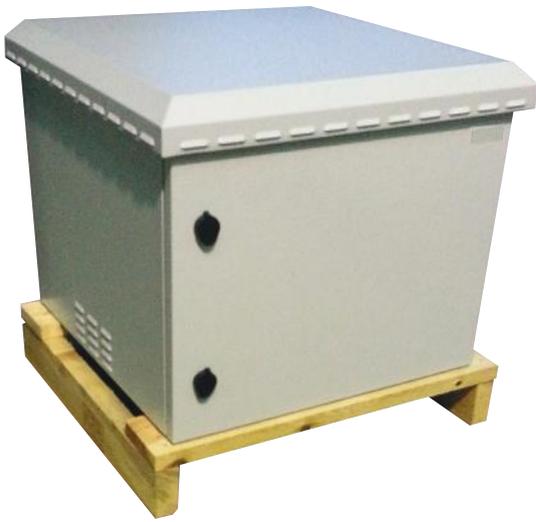
①
Cabinet + Pallet

②
Cabinet + Pallet + Stretch pants

③
Cabinet + Pallet + Stretch pants+ bubble wrap

④
Cabinet + Pallet + Stretch pants+ bubble wrap + metal strip

USAGE AREAS

Our outdoor type cabinets are preferred in the control system, data transfer and automation system, train control system, port control system, motorway traffic signalization and control system, fiber internet termination, mobile electronic integration systems, base stations, fixed and mobile telephone networks, car park and park Lightning, airport flight and baggage check systems.

Data transfer and automation

Mobile electronic integration system and control system

Motorway traffic signalization and control system

Fiber internet termination system

Airport flight and baggage control systems

Crosswalk system

Port control system

Railway control system

Base station, fixed and mobile telephone Network and radio link system

Lightning and control system

OUR QUALITY CERTIFICATES

ISO 14001:2004

ISO 9001:2008

TSE

IP 65

Estap®

25.YEAR