WORKSHOP SPECIFICATIONS

DISTRIBUTION CABINETS AND ENCLOSURES

XL³ HP 630

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LEGRAND SUPPORTS YOU ON ALL YOUR PROJECTS

The workshop manual for XL³ HP 630 distribution cabinets and enclosures is an assembly guide enriched with tips and installation reminders. Throughout the document, the assembly steps are illustrated with prosleeve photos or technical drawings to help you visualize each step in detail.

Screw diagrams are included at each stage to help you identify the necessary tools.

An essential document for efficiently assembling our prosleeves, this workshop manual is a valuable resource for panel builders and installers.

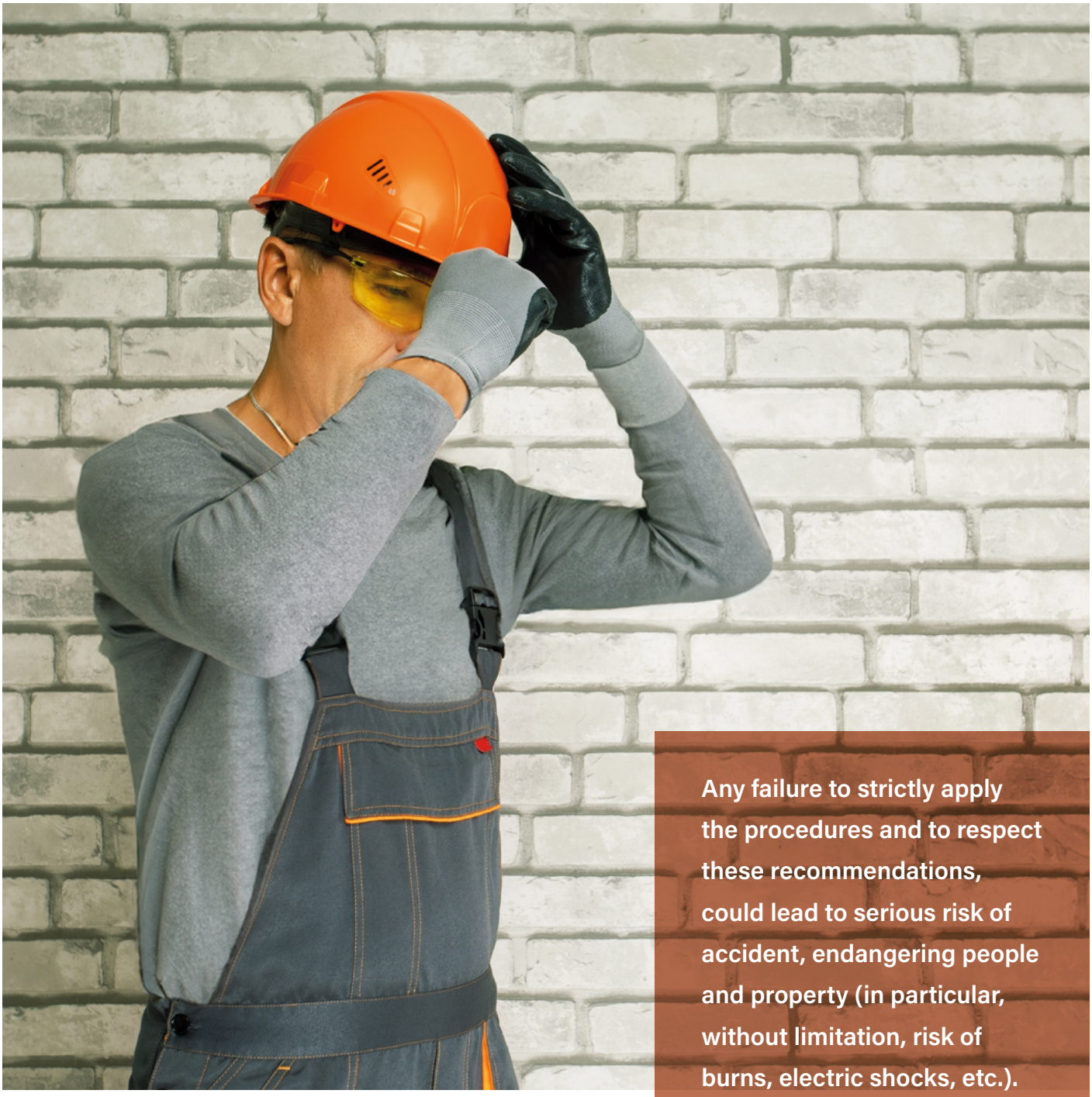
LEGAL INFORMATION

Presentation pictures do not always include Personal Protective Equipment (PPE), but this is a legal and regulatory obligation that must be scrupulously respected.

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations without notice. All illustrations, descriptions and technical information included in this document are provided as indications and cannot be held against Legrand.

Contents

SAFETY INSTRUCTIONS



Any failure to strictly apply the procedures and to respect these recommendations, could lead to serious risk of accident, endangering people and property (in particular, without limitation, risk of burns, electric shocks, etc.).

General information

- Use only the products and accessories recommended by the Legrand Group in the catalogue, instructions, technical data sheets and all other documents provided by Legrand (hereinafter referred to as “the Documentation”) in compliance with the installation rules.

Improper installation or use may result in the risk of arcing in the enclosure, overheating or fire. The enclosures must be used under normal conditions, they must not be subjected to Voltage / Current / Temperature values other than those specified in the Documentation.

- Legrand declines all responsibility for any modification or repair of the equipment making up the enclosure that is not authorized by the Legrand Group, as well as any failure to comply with the rules and recommendations specified by Legrand in the Documentation. In addition, in the cases mentioned above, the warranty granted by Legrand will not be applicable.
- It is necessary to check that the characteristics of the products are appropriate for their environment and use during maintenance operations, and to refer to the Documentation.
- If you have any questions or require clarification, please contact Legrand Group.

Protection/security

- The installation, use and maintenance of the enclosures and their components must be carried out by qualified, trained and authorized personnel, in accordance with the regulations in force in each country.
- People working on the installation must have the appropriate electrical authorizations for the work to be carried out.
- Wear the PPE (Personal Protective Equipment) necessary to work on live products.

- Respect the safety rules related to electrical work.
- Improper electrical and mechanical use of equipment can be dangerous and may result in personal injury or damage to property.

Maintenance

- Depending on the maintenance operations to be carried out, partial or total power cuts of the enclosure concerned should be planned before any work.
- When performing operations that involve access to the inside of the enclosure, be aware of the risk of burns before touching any.
- Before turning the power back on, make sure that there are no foreign bodies and that all physical protections have been put back in place (e.g.: screens, covers, faceplates).

Risk of electric shock, burns and explosion.

The rules and recommendations in this document are based on our knowledge of the typical conditions of use of our products in the fields of application usually encountered. However, it is always the customer’s responsibility to verify and validate that Legrand products are suitable for its installation and use.

The customer must ensure proper installation, maintenance and operation of the equipment to avoid any risk of injury to personnel or damage to property in the event of product failure, especially for applications that require a very high level of safety (e.g., those in which the failure of a component may endanger human life or health).

The rules for storage, handling, installation and maintenance and the appropriate precautions and warnings must be strictly observed and applied.

A NEW XL³ HP 630 RANGE

XL³ HP 630, a range designed for installers and panel builders seeking practical, robust, and optimized distribution boards for the construction of main and distribution panels up to 630 A.

Presentation of the new referencing method

EXAMPLE OF A CABINET REFERENCE:

2AR18036

Ranges
0 : common
1 : XL³ HP 160
2 : XL³ HP 630
3 : XL³ HP 6300

Prosleeve types:
AR : cabinet
CO : enclosure

Sizes:
075 = height 750 mm
090 = height 900 mm
105 = height 1050 mm
120 = height 1200 mm
135 = height 1350 mm
150 = height 1500 mm
165 = height 1650 mm
180 = height 1800 mm
195 = height 1950 mm

Number of modules:
12, 24 or 36

EXAMPLE OF AN EQUIPMENT REFERENCE:

2PF015DIN36

Ranges
0 : common
1 : XL³ HP 160
2 : XL³ HP 630
3 : XL³ HP 6300

Prosleeve types:
PF : blanking plate
PL : mounting plate
PC : metal door
PV : glazed door
BPE : terminal block
BG : Cable guide bracket
DIN : DIN rail
VI : internal cable sleeve
[...]

Sizes:
015 = height 150 mm
020 = height 200 mm
030 = height 300 mm
075 = height 750 mm
090 = height 900 mm
105 = height 1050 mm
120 = height 1200 mm
135 = height 1350 mm
150 = height 1500 mm
[...]

Mounting :
DIN : mounted on DIN rail
DIND : off-center window
HM : horizontal mounting
VM : vertical mounting
[...]

Compatible enclosure:
12, 24 or 36 modules

Range overview

XL³ HP 630 CABINETS AND ENCLOSURES, IP 30 TO IP 43

- Delivered unassembled
- Available in 12, 24 and 36 modules
- Rigid enclosures: functional uprights welded to the back of the enclosure
- Horizontal and vertical coupling
- Internal and external cable sleeves
- Wall mounting from inside or outside
- Floor mounting possible with base
- Pre-cut side panels to optimize assembly time

NEW FEATURES

Easy assembly:

- Numbered markers on functional uprights corresponding to position markers defined by XLPro4
- New sliding system for panel insertion

XL³ HP 630 CABINETS AND ENCLOSURES, IP 55

- Delivered assembled
- Available in 12, 24 and 36 modules
- Rigid monobloc enclosures: functional uprights welded to the back of the enclosure
- Horizontal and vertical coupling
- Internal and external cable sleeves
- Wall mounting from the outside
- Floor mounting possible with base

NEW FEATURES

- Numbered markers on functional uprights corresponding to position markers defined by XLPro4
- Common equipment with the standard range

ENCLOSURES IP 30 TO IP 43

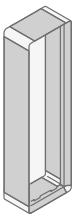
PRESENTATION

XL³ HP 630 metal cabinets and enclosures are designed with optimized dimensions for power distribution up to 630 A. Several combinations are possible thanks to the availability of multiple widths:

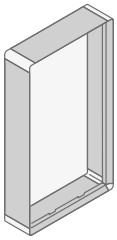
They are divided into:

- cabinets or enclosures to be equipped with 12 modules per row, 24 modules per row, or 36 modules per row,
- external cable sleeves: 12 modules per row,
- Internal cable sleeves for cabinets or enclosures with a width of 36 modules per row.

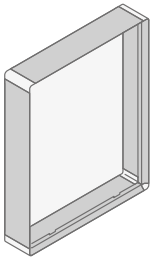
ONE RANGE, A MULTITUDE OF POSSIBLE COMBINATIONS



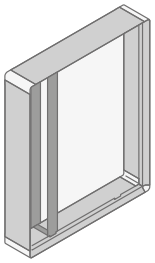
12 modules



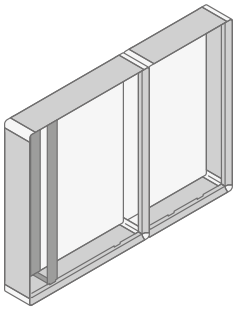
24 modules



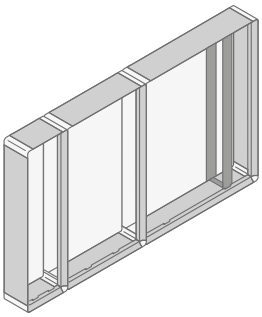
36 modules



Internal cable sleeve



Internal cable sleeve and coupled enclosures



External cable sleeve, coupled enclosures with internal cable sleeve

KEY POINTS

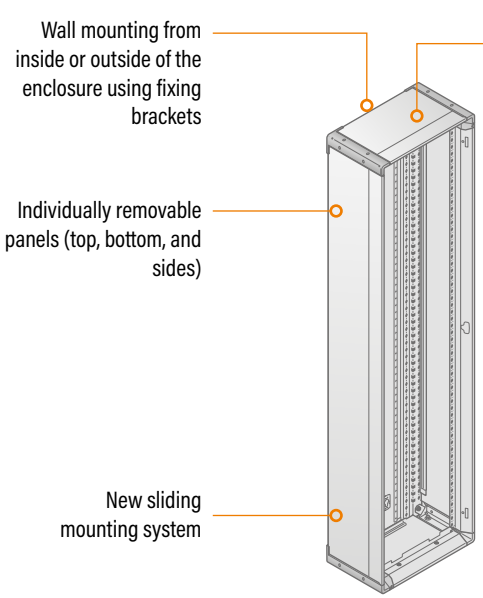
- IP 30 - IK 07 with faceplate and without door
- IP 40 - IK 08 with door
- IP 43 - IK 08 with door and sealing gasket
- RAL 7035
- Short-circuit withstand Icc: 50 kA
- Short-time withstand current (Icw): 36 kA for 0.5 seconds with aluminum bars.
- Complies with EN IEC 61439-1 and EN IEC 61439-2 standards
- Fire resistance according to IEC 6095-2-11: 750°C
- Suitable for installation in public-access buildings and workplace buildings

Technical sheet available, For more information on installation locations, prosleeve resistance, etc

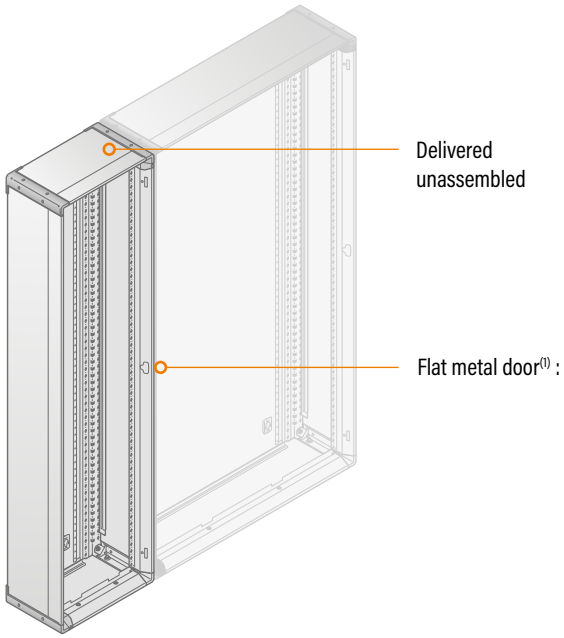
► Check the online catalog at legrand.com

Technical sheet

12-MODULE CABINETS OR ENCLOSURES OR EXTERNAL CABLE SLEEVES

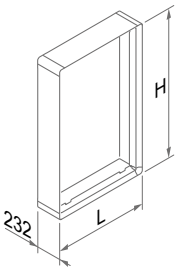


12 modules/row



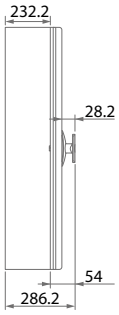
External cable sleeve

(1) Door not shown



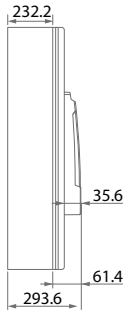
EXTERNAL CABLE SLEEVES OR DISTRIBUTION CABINETS/ENCLOSURES WITH REDUCED WIDTH									
Number of modules	12 modules per row								
Faceplate height (mm)	750	900	1050	1200	1350	1500	1650	1800	1950
External height (mm)	806	956	1106	1256	1406	1556	1706	1856	2006
Width x Depth (mm)	400 x 232.2								
References	2AR07512	2AR09012	2AR10512	2AR12012	2AR13512	2AR15012	2AR16512	2AR18012	2AR19512

Handle
1/4 turn



DOORS									
Flat metal	2PC07512	2PC09012	2PC10512	2PC12012	2PC13512	2PC15012	2PC16512	2PC18012	2PC19512

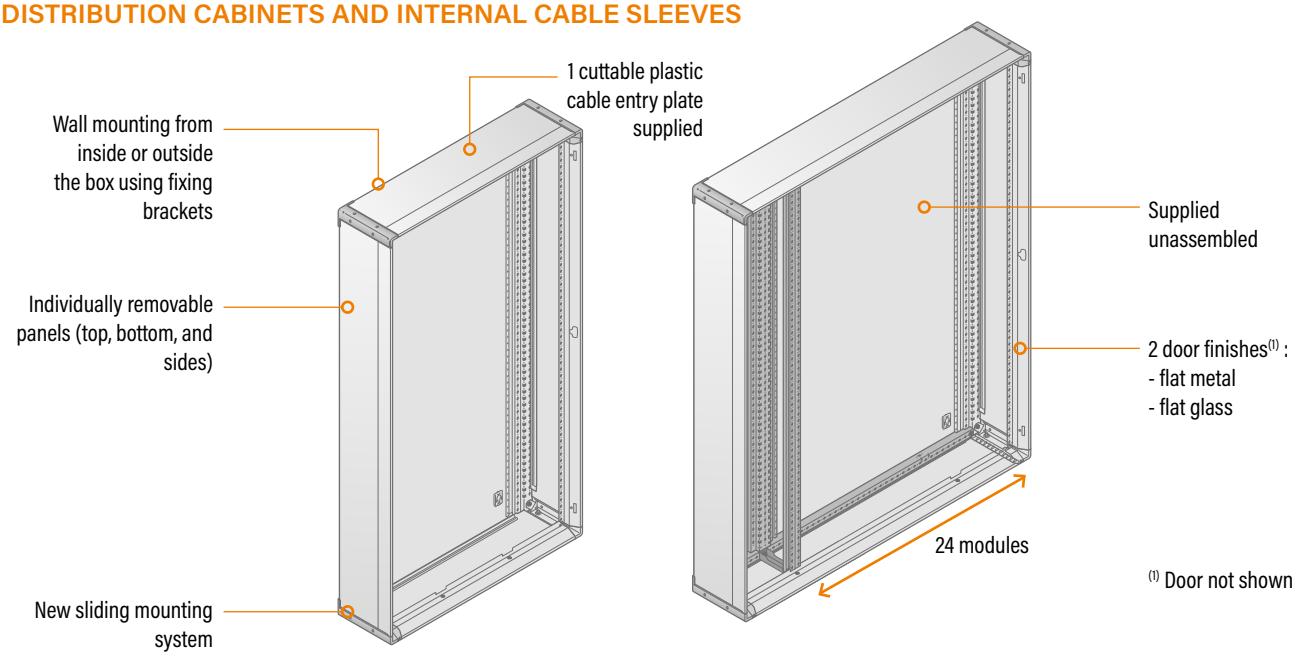
Lever
handle



PEP sheets available,
for more information on
the prosleeve's environmental profile
► check the online catalog
at legrand.com

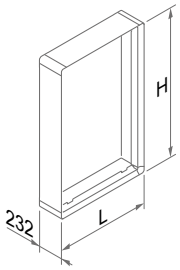
PRESENTATION

DISTRIBUTION CABINETS AND INTERNAL CABLE SLEEVES



24 modules/row

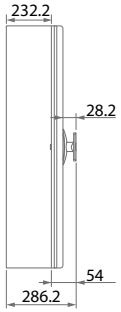
36 modules/row with internal cable sleeve



DISTRIBUTION CABINETS TO BE EQUIPPED

Number of modules	24 modules/row				36 modules/row			
Faceplate height (mm)	750	900	1050	1200	750	900	1050	1200
External height (mm)	806	956	1106	1256	806	956	1106	1256
Width x Depth (mm)	600 x 232.2				850 x 232.2			
References	2AR07524	2AR09024	2AR10524	2AR12024	2AR07536	2AR09036	2AR10536	2AR12036

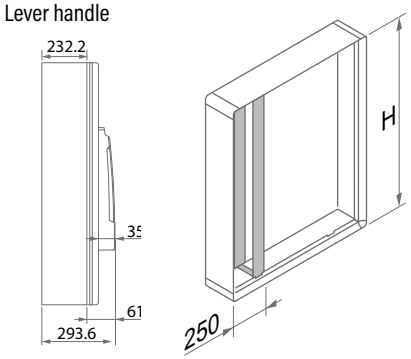
Handle 1/4 turn



DOORS

Flat metal	2PC07524	2PC09024	2PC10524	2PC12024	2PC07536	2PC09036	2PC10536	2PC12036
Flat glass	2PV07524	2PV09024	2PV10524	2PV12024	2PV07536	2PV09036	2PV10536	2PV12036

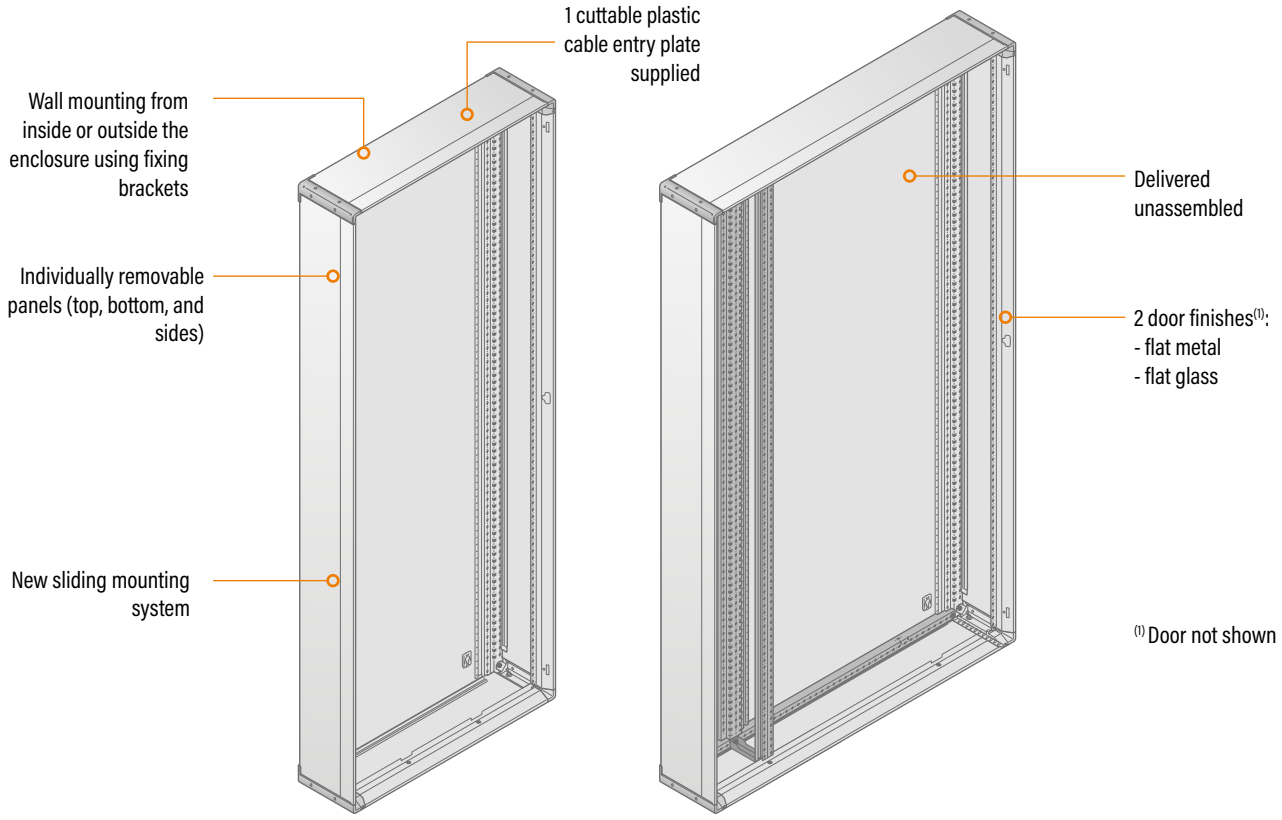
Lever handle

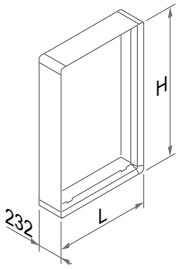


INTERNAL CABLE SLEEVES FOR CABINETS WITH 36 MODULES/ROW

Faceplate height (mm)	750	900	1050	1200
External height (mm)	806	956	1106	1256
References	2VI075	2VI090	2VI105	2VI120

ENCLOSURES AND INTERNAL CABLE SLEEVES

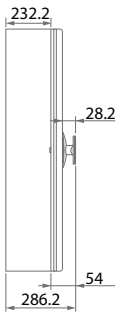




DISTRIBUTION ENCLOSURES TO BE EQUIPPED

Number of modules	24 modules/row					36 modules/row				
Faceplate height (mm)	1350	1500	1650	1800	1950	1350	1500	1650	1800	1950
External height (mm)	1406	1556	1706	1856	2006	1406	1556	1706	1856	2006
Width x Depth (mm)	600 x 232.2					850 x 232.2				
References	2AR13524	2AR15024	2AR16524	2AR18024	2AR19524	2AR13536	2AR15036	2AR16536	2AR18036	2AR19536

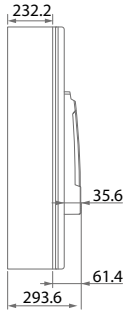
Handle 1/4 turn

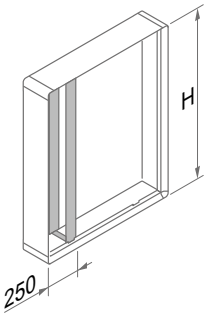


DOORS

Flat metal	2PC13524	2PC15024	2PC16524	2PC18024	2PC19524	2PC13536	2PC15036	2PC16536	2PC18036	2PC19536
Flat glass	2PV13524	2PV15024	2PV16524	2PV18024	2PV19524	2PV13536	2PV15036	2PV16536	2PV18036	2PV19536

Lever handle





INTERNAL CABLE SLEEVES FOR ENCLOSURES WITH 36 MODULES/ROW

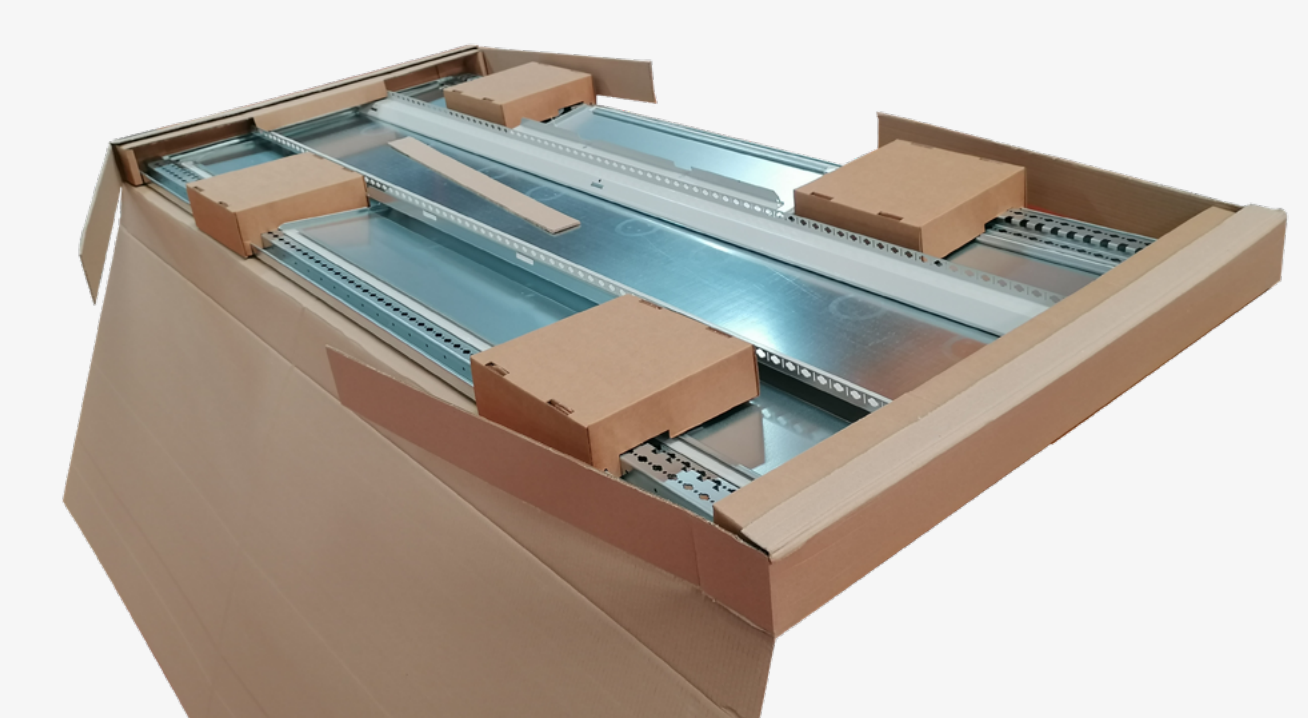
Faceplate height (mm)	1350	1500	1650	1800	1950
External height (mm)	1406	1556	1706	1856	2006
References	2VI135	2VI150	2VI165	2VI180	2VI195

ENCLOSURE ASSEMBLY

The enclosure assembly is very simple and optimized in 2 steps:
- assembly of the back and corners
- installation of the panels

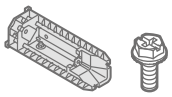
Please follow the safety instructions and wear PPE (gloves) for these assembly steps on metal enclosures ► p. 2-3

The enclosures are delivered flat for minimum bulk.
A logistics guide provides best practices for prosleeve handling
► **available in the online catalog at legrand.com.**



Safety (significant weight and volume):
For enclosures or cabinets with a width of 36 modules or more than 6 rows, it is recommended that two people handle the enclosure to ensure safe manipulation

Assembly of the back and corner studs



The enclosures are delivered with 4 corner studs and 4 M6 multi-profile screws.

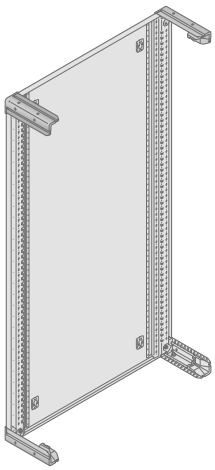
Multi-profile screw

1

2

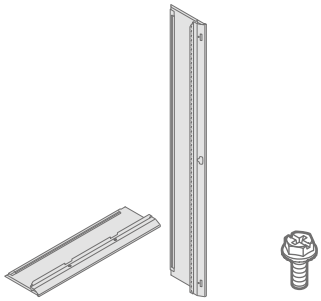
1. Insert corner studs into the functional uprights.
2. Secure the assembly with the supplied M6 screw.

The corners are correctly inserted when the two holes are aligned.



Panel installation

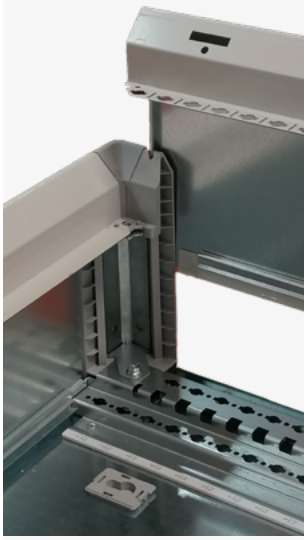
The enclosures are delivered with 4 panels and 4 multi-profile screws.



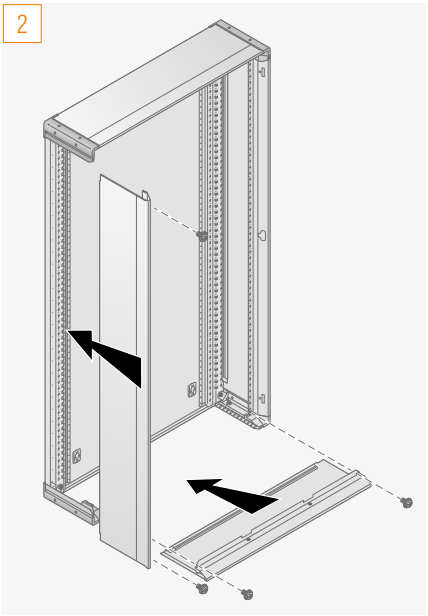
The new sliding system makes panel installation easier.

Multi-profile screw

1



2



3

1. Insert the panels from the top of the corner studs.
2. Repeat the operation for all panels.
3. Secure the assembly with the supplied M6 screw on each corner.

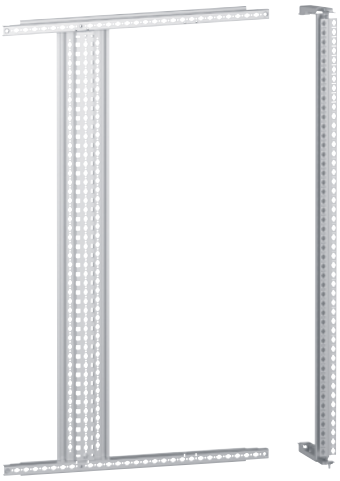
A "Click" ensures that the panels are correctly installed.

Possibility to replace a top or bottom panel multi-grommets or brush panel for cable entry ► page 33

ENCLOSURE ASSEMBLY

Internal cable sleeve installation

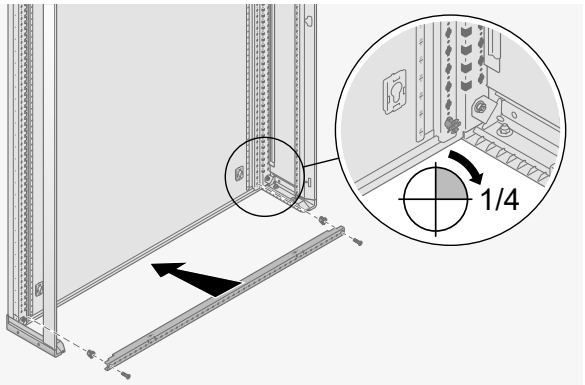
The internal cable sleeve can be installed on the left or right side in enclosures with a width of 36 modules per row.
The opposite area will then have a width of 24 modules per row.
Each kit consists of 2 functional uprights with 2 mounting crosspieces and allows the creation of a cable sleeve with a usable width of 250 mm.



Multi-profile screw

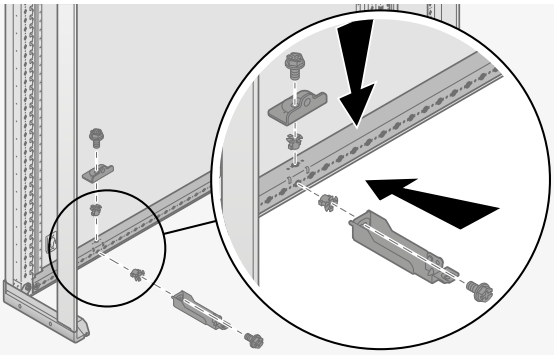
For easier assembly, remove the 4 panels from the enclosure.

1



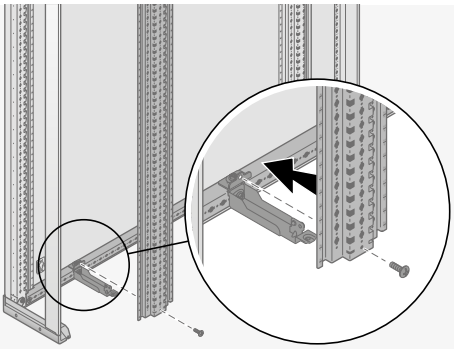
1. Secure the width crosspieces at the back of the enclosure (top and bottom) using the supplied cage nuts and screws on the functional uprights of the enclosure.

2



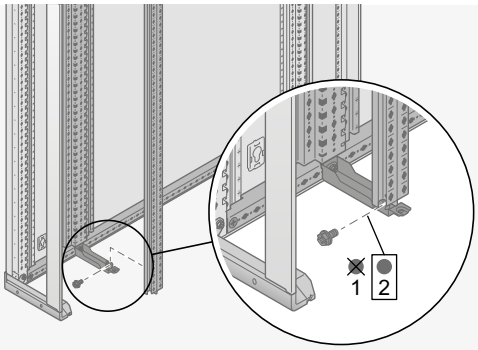
2. Secure the spacer and the bracket onto the width crosspieces at the back of the enclosure.

3



3. Secure the functional upright included in the kit onto the spacer (at the back of the enclosure).

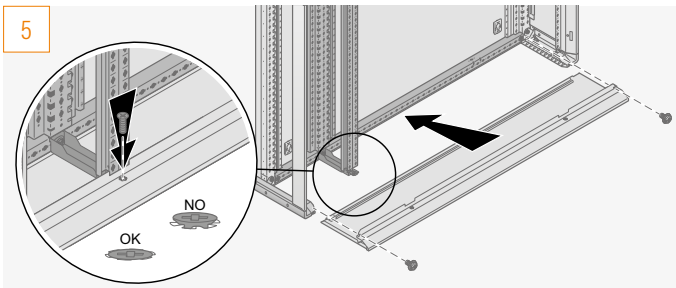
4



4. Reinstall the enclosure panels by sliding the spacer under the curvature of the top and bottom panels.

5. Screw the assembly onto the panels.

5



⚠ Fully insert the screw.

Faceplate mounting for cable sleeve ► page 53

Enclosure coupling

The enclosures can be coupled horizontally or vertically using the kit Cat. No 2KJLAT (to be ordered separately), consisting of:

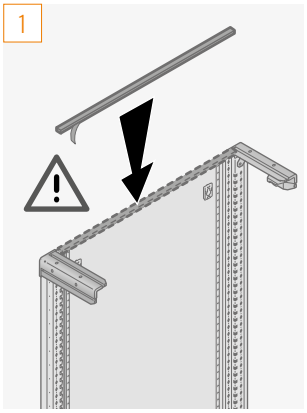
- 1 seal, 5,5 m,
- 2 metal fixing brackets,
- 4 M6 screw-nut sets,
- 4 crosshead screws (PZ2).

Horizontal and vertical couplings can be combined.

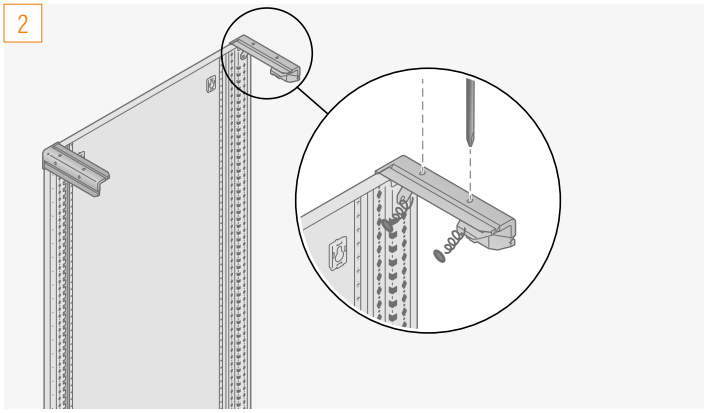
VERTICAL COUPLING

After removing the top and bottom panels from the enclosures to be coupled:

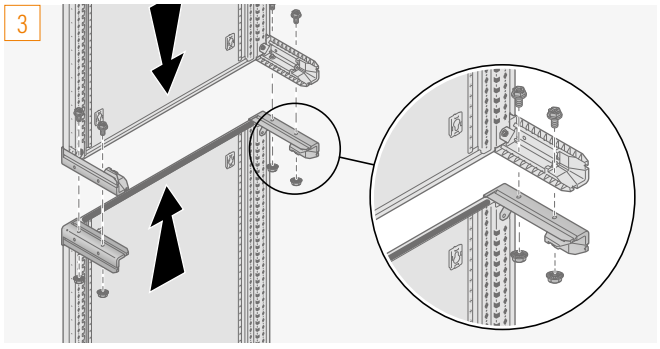
1



2

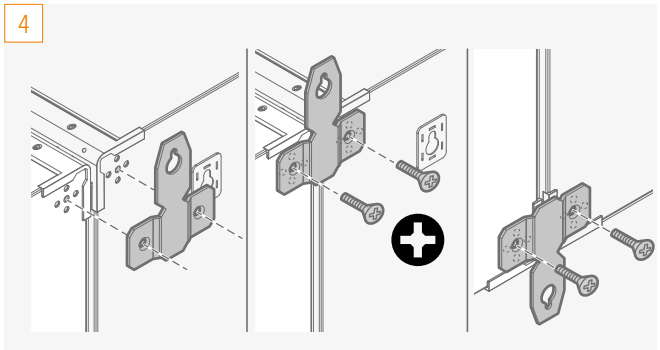


3



Multi-profile screw

4



1. Stick the seal onto the width of the enclosure.
2. Punch out the pre-formed holes in the corner pads using a screwdriver.
3. Couple using the 4 screw-nut sets supplied with the coupling kit.
4. Secure the metal brackets between the two enclosures using the 2 crosshead screws supplied.

If needed, the bracket can be rotated to facilitate installation (floor mounting)

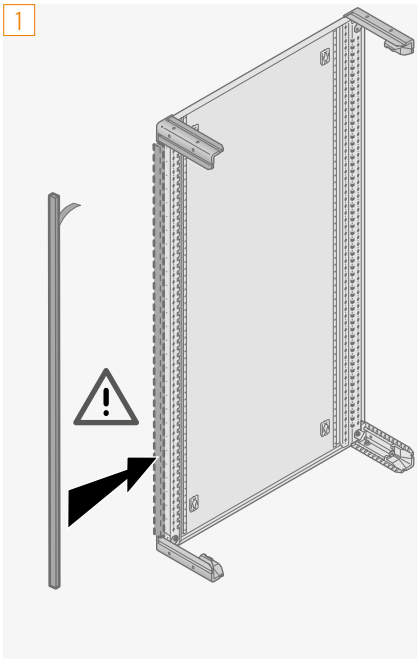
Do not use these fixing brackets for lifting the enclosure

Enclosure coupling (continued)

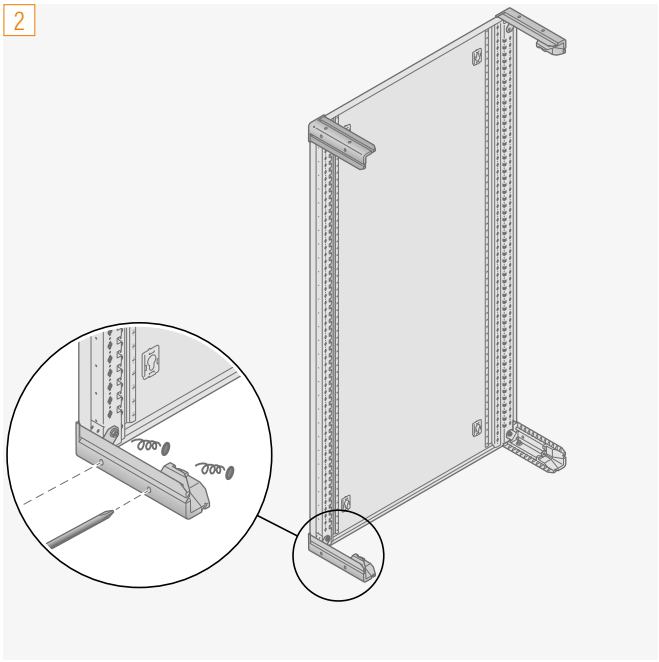
HORIZONTAL COUPLING OR EXTERNAL CABLE SLEEVE ASSEMBLY

After removing the side panels from the enclosures to be coupled:

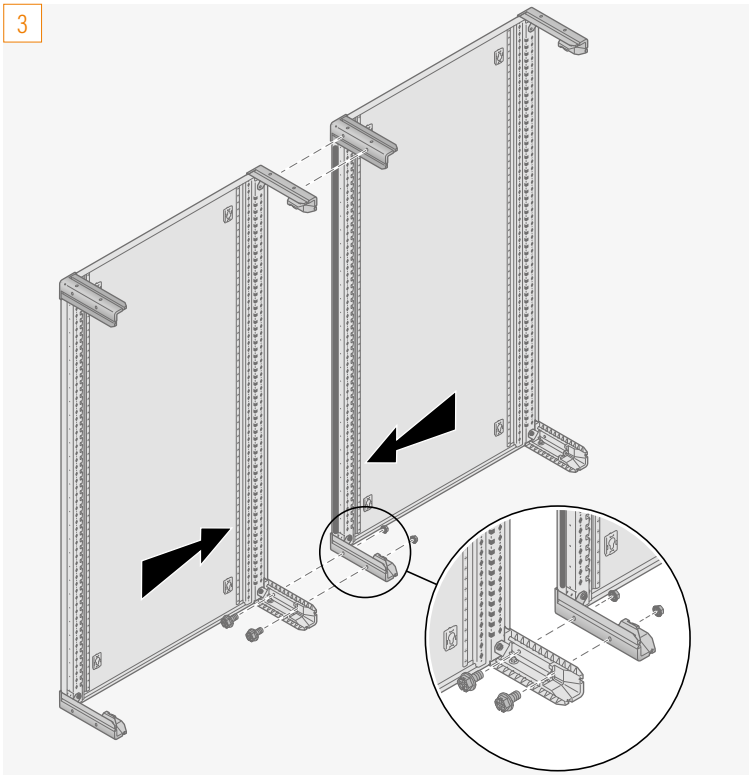
1



2



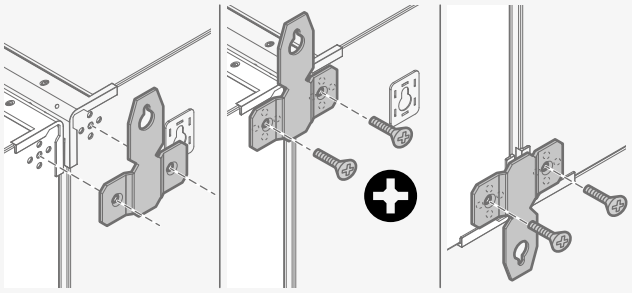
3



1. Stick the seal along the entire height of the enclosure.
2. Punch out the pre-formed holes in the corner pads using a screwdriver.
3. Couple using the 4 screw-nut sets supplied with the coupling kit.

Multi-profile screw

4



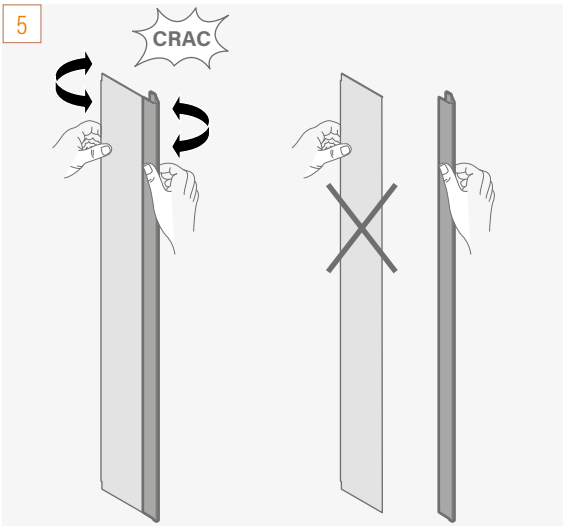
If needed, the bracket can be rotated to facilitate installation (floor mounting)

4. Secure the metal brackets between the two enclosures using the 2 PZ2 screws supplied.

Drilling dimensions for wall mounting ► p. 60

Do not use these fixing brackets for lifting the enclosure

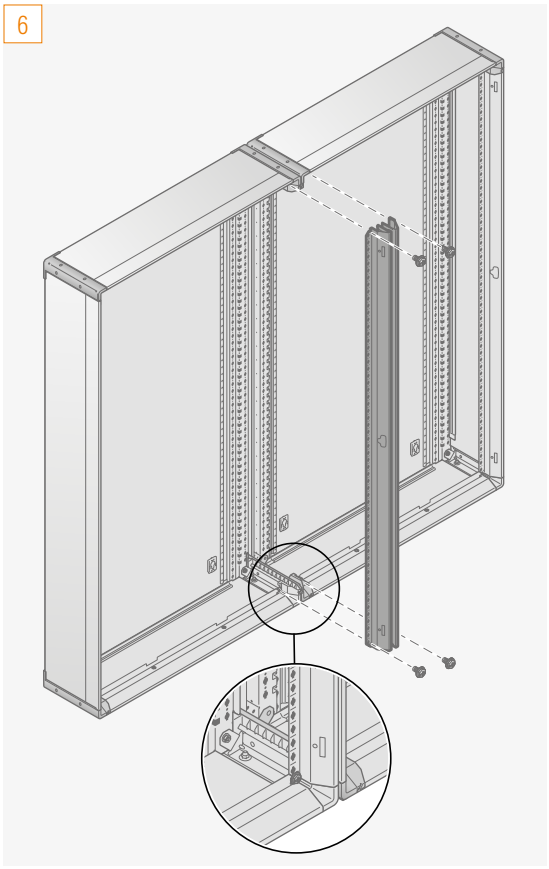
5



5. Cut the side panels along the pre-cut lines and keep the front section used to secure the faceplates.

Use a vice to make manual cutting of the side panel easier.

6



Please follow the safety instructions and wear PPE (gloves) for these assembly steps ► p. 2-3.

6. Secure the two uprights with the four original screws from the enclosure.

Multi-profile screw

For coupling two cabinets, it is recommended to add the protection seal ref. 0GA10 on the cutouts at the rear of the uprights (this also helps to align the uprights)

Remember to recycle the remaining side panel with metal waste.

ENCLOSURE ASSEMBLY

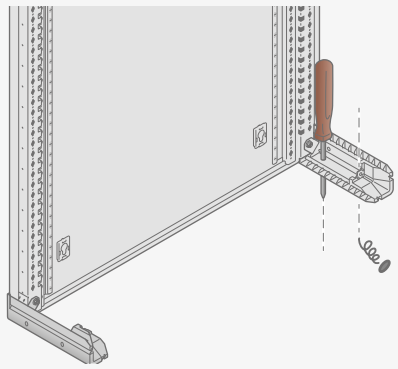
Base assembly

ASSEMBLY OF A BASE

The base assembly is carried out using a kit:
- 12 modules Cat. No 2Z12,
- 24 modules Cat. No 2Z24,
- 36 modules Cat. No 2Z36.

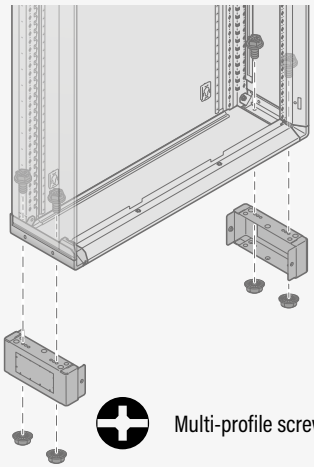
Composition :
- 2 metal plinths for width installation
- 2 metal plinths for depth installation
- 4 crosshead screws (PZ2)
- 4 M6 screw-nuts

1



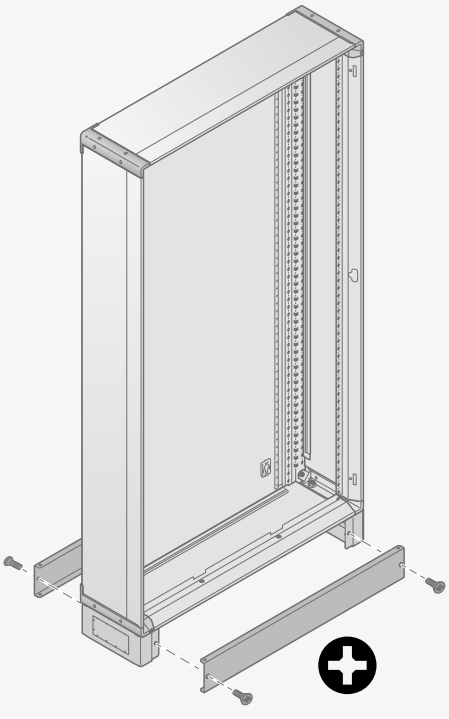
1. Punch out the pre-formed holes in the corner pads using a screwdriver.

2



2. Attach the plinths to be installed on the depth of the enclosure using the supplied M6 screws and nuts.

3



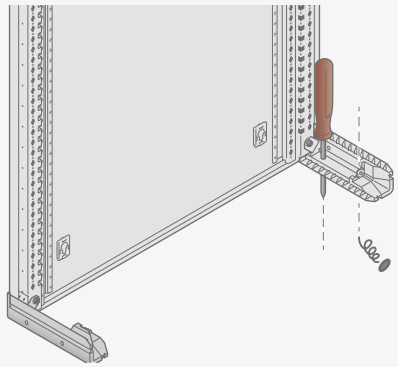
Secure the base plinths on the width of the enclosure once cable installation is complete.

3. Fasten the plinths on the width of the enclosure using PZ2 screws.

BASE ASSEMBLY ON COUPLED ENCLOSURES

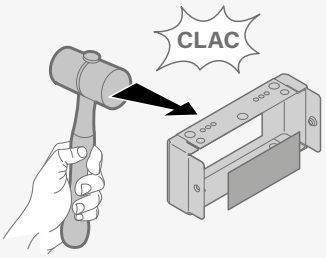
In case of coupling, punch out the side panels of the bases to allow cable routing.

1



1. Punch out the pre-formed holes in the corner pads using a screwdriver.

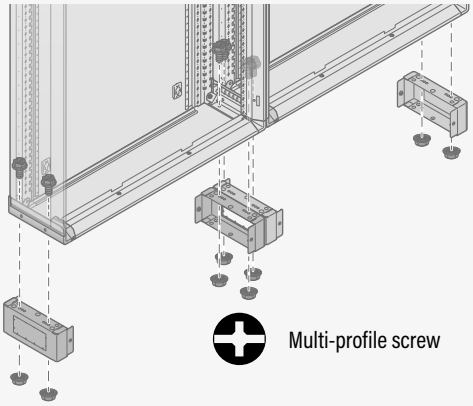
2



Cutting is made easier thanks to the pre-cuts on the side panels.

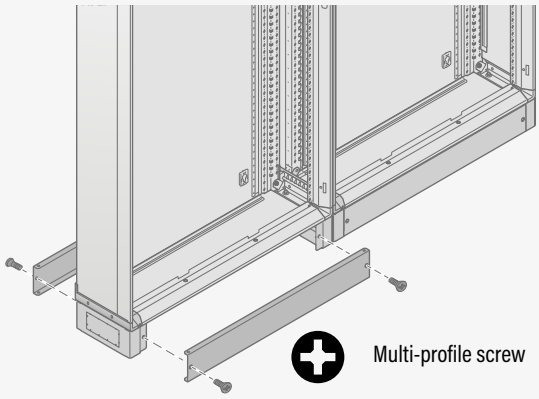
2. Punch out the plinths to be installed on the depth of the enclosure.

3



3. Attach the plinths to be installed on the depth of the enclosure using the supplied M6 screws and nuts.

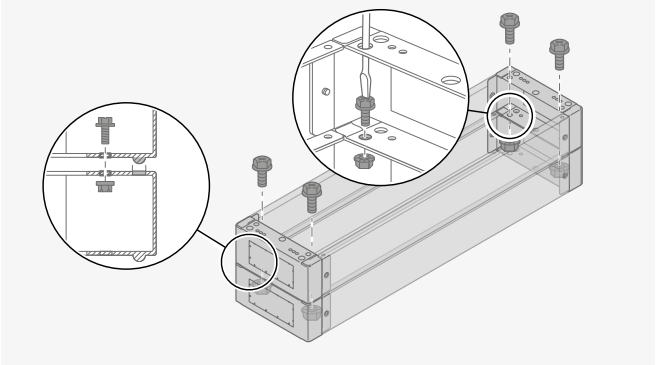
4



4. Fasten the plinths on the width of the enclosure using PZ2 screws.

STACKING OF TWO BASES

The assembly of two bases allows better cable management.
The base height will then be 200 mm. Repeat the steps below, then steps 1, 2, and 3 p. 16



Screw the two plinths that are fixed on the depth of the enclosure using the supplied M6 screws and nuts.

Screwing is possible from the top of the base for easier assembly comfort.

DEVICE ASSEMBLY

XL³ HP 630 cabinets and enclosures can be equipped with:

- rails for creating a chassis for mounting modular devices, DRX 125, DRX 250, DPX³ 160, DPX³ 250, DPX-IS 250, and Vistop up to 160 A. The fixing pitch can range from 150 mm to 300 mm, with the possibility of installing faceplates with modular devices from 150 mm to 400 mm in height. It is possible to mount DPX³ 160/250 and modular devices on the same row thanks to the rail spacer (p. 19)
- dedicated metal mounting plates for mounting devices such as MCCBs (p. 20)
- perforated plates

Rail assembly

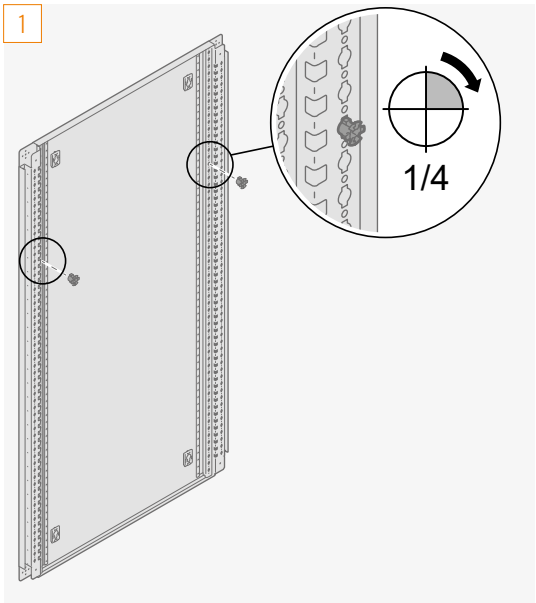
The chassis is to be assembled with 3-position DIN rails allowing the installation of modular devices or DRX 125, DRX 250, DPX³ 160, DPX³ 250, DPX-IS 250, and Vistop up to 160 A with adapters:
- 12 modules Cat. No 2DIN12,
- 24 modules Cat. No 2DIN24,
- 36 modules Cat. No 2DIN36.

Multi-profile screw

NEW FEATURES

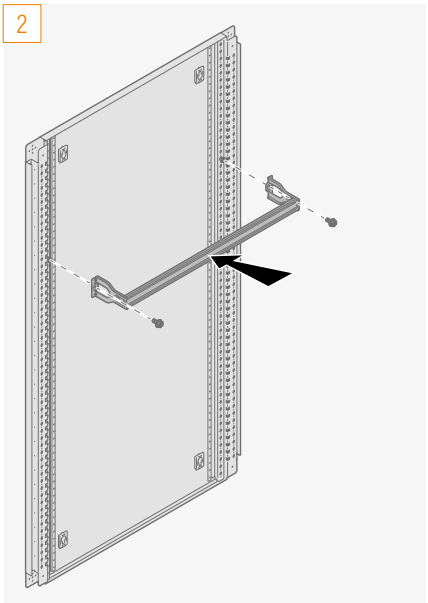
Numbered markers on the functional uprights corresponding to the position markers defined by XLPro4.

1



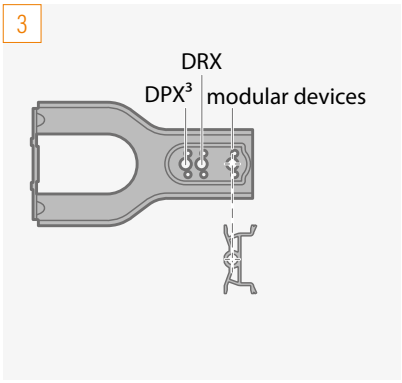
1. Insert the cage nuts on the vertical uprights.

2



2. Fasten the rail using the supplied M6 screws.

3



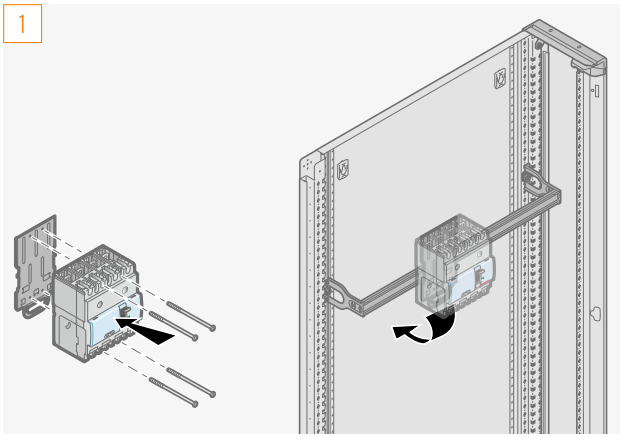
3. Adjust the position of the brackets according to the depth of the devices to be installed.

DRX / DPX³ ASSEMBLY

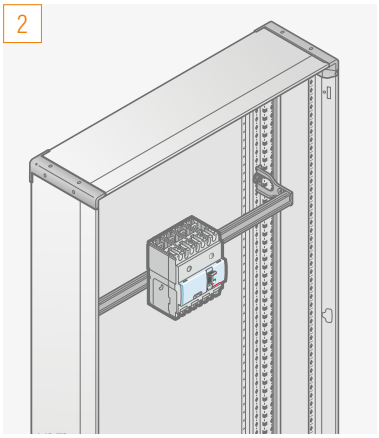
Adapters for rail mounting (to be ordered separately):

- Cat.No 4 210 71: for 1 DPX³ 160 without motor-driven handle,
- Cat.No 4 210 73: for 1 DPX³ 160 residual current version without motor-driven handle,
- Cat.No 4 210 68: for 1 DPX³ 160 with lateral motor-driven handle (with or without residual current),
- Cat.No 4 210 72: for 1 DPX³ 250 residual current version without motor-driven handle (limited to 160 A),
- Cat.No 4 210 58: for fixed version DPX³ 160 in transfer switch.
- Cat. No 4 210 72 : for 1 DPX³ 250 without motor-driven handle
- Cat. No 4 210 74 : for 1 DPX³ 250 residual current version without motor-driven handle
- Cat. No 4 210 69 : for 1 DPX³ with or without residual current and with lateral motor-driven handle
- Cat. No 0 262 39 : for 1 DPX-IS 250
- Cat. No 0 271 89 : for 1 DRX 125 1P
- Cat. No 0 271 90 : for 1 DRX 125 2P
- Cat. No 0 271 87 : for 1 DRX 125 3P/4P
- Cat. No 0 271 88 : for 1 DRX 250

1



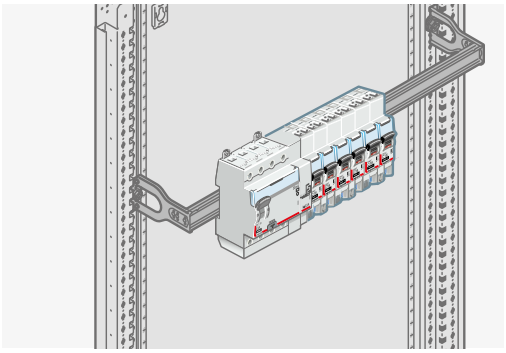
2



1. Mount the adapter on the MCCB using the 4 screws supplied.
2. Clip the assembly onto the rail.

⚠ A spacing of 300 mm between DIN rails is recommended when mounting DRX 125, DRX 250, DPX³ 160 or DPX³ 250.

MODULAR DEVICES ASSEMBLY



⚠ A spacing of 200 mm between DIN rails is required when mounting 125 A modular devices.

ASSEMBLY OF MODULAR DEVICES AND DPX³ OR DPX-IS ON THE SAME ROW

After mounting the DRX, DPX³ or DPX-IS on the rail in the lower position, add a rail spacer Cat. No 4 052 26 and clip the modular devices.

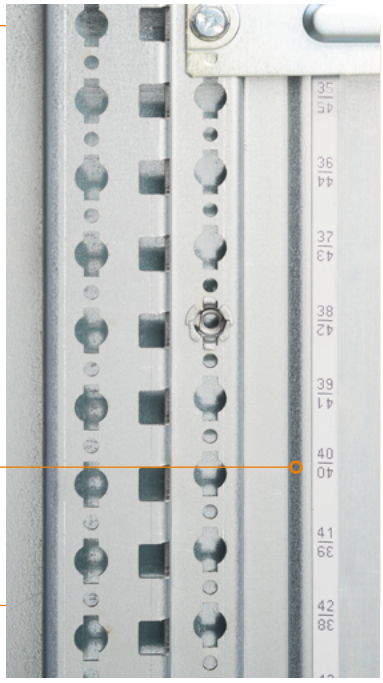
DEVICE ASSEMBLY

Mounting on dedicated mounting plates or universal plates

The metal mounting plates are fixed to the functional uprights of XL³ HP 630 enclosures and cabinets.
They are dedicated to the fastening of MCCBs DRX, DPX³, DPX³ HP, DPX-IS, or industrial equipment for perforated plates.
Each plate is supplied with the necessary screws.

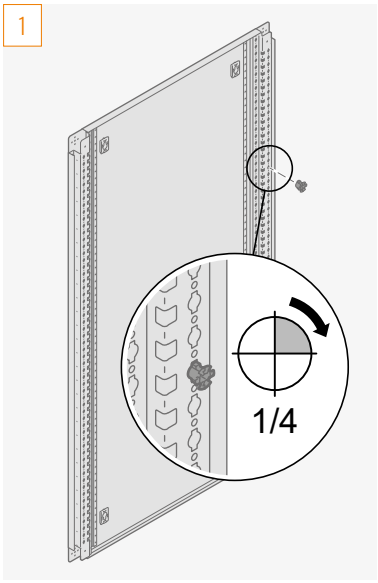
NEW FEATURES

Numbered markers on the functional uprights corresponding to the position markers defined by XLPro4 Panels.



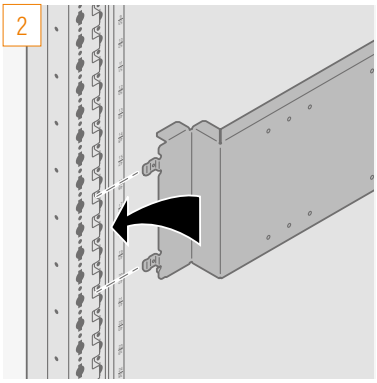
Multi-profile screw

1



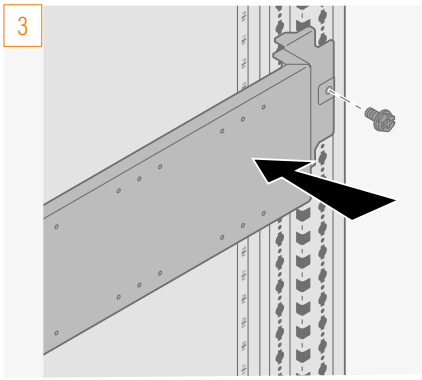
1. Insert the cage nuts into the functional upright.

2



2. Insert the mounting plate into the opposite functional upright.

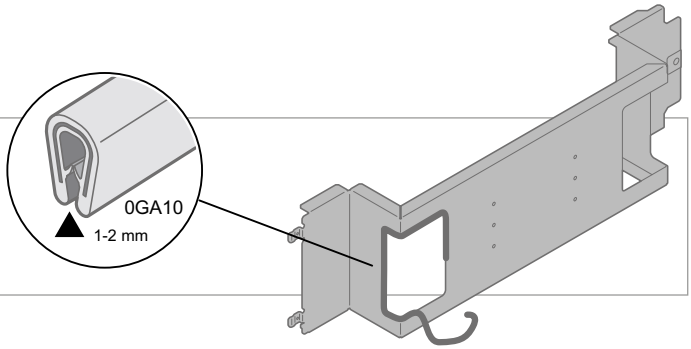
3



3. Fasten the other part of the mounting plate using the supplied multi-profile screw(s).

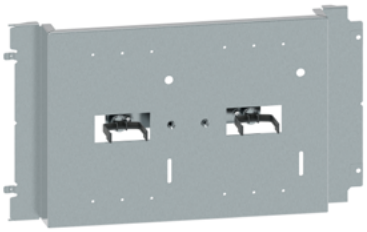
Reduced assembly time thanks to the insertion fastening system (one side without screws). The mounting plate is reversible, allowing the choice of which upright receives the screw(s).

The gasket Cat. No 0GA10 provides protection for cable passage through mounting plates with cut-outs (optional)

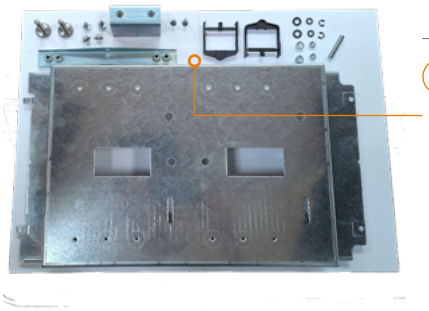


DEVICE ASSEMBLY

Manual source transfer switch assembly

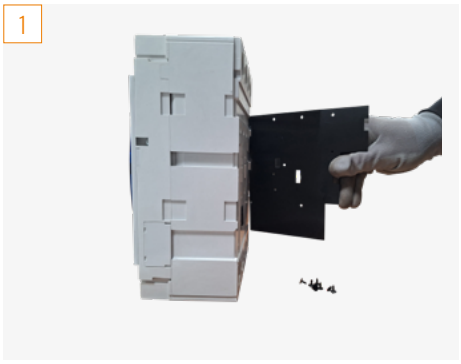


The transfer switch version can be mounted vertically in 24- or 36-module enclosures. The assembly is carried out using dedicated mounting plates to be fixed on the functional uprights.

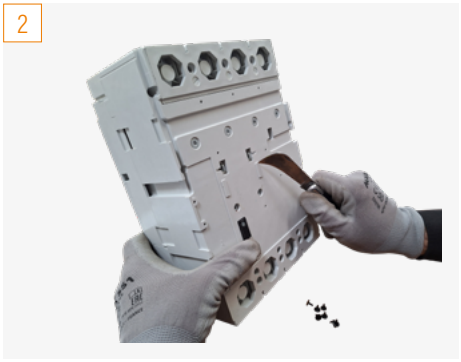


The mounting plates for transfer switches are supplied with the screws, the balance arm, and its mounting accessories.

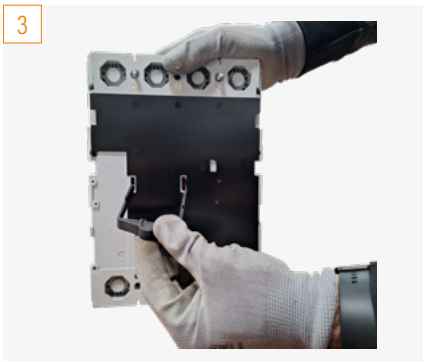
▪ Step 1: preparation of DPX³



1. Remove the plate at the back of the DPX³.

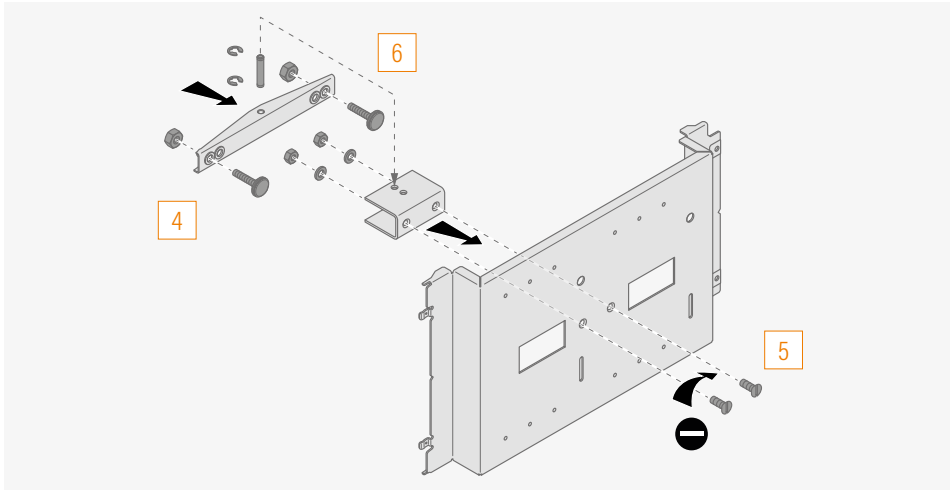


2. Remove the 2 covers.



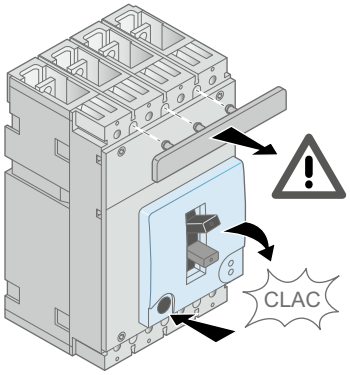
3. Reattach the plate at the back of the DPX³ and insert the fork.

▪ Step 2: Preparation of the mounting plate



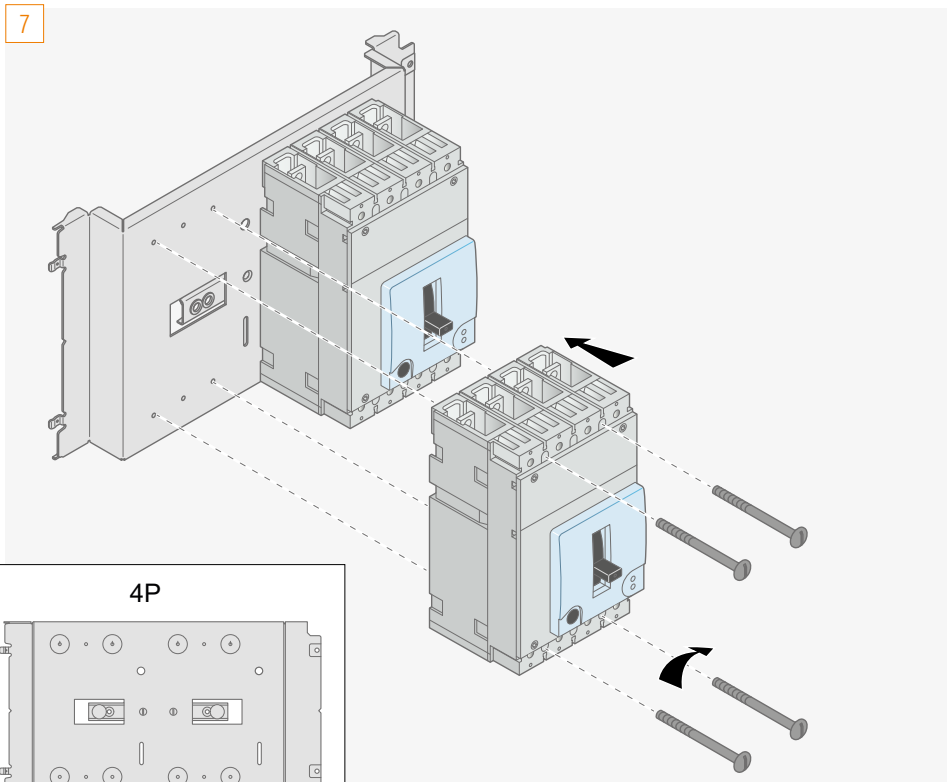
4. Install the fasteners on the rocker.
5. Attach the rocker support to the mounting plate.
6. Mount the rocker on its support.

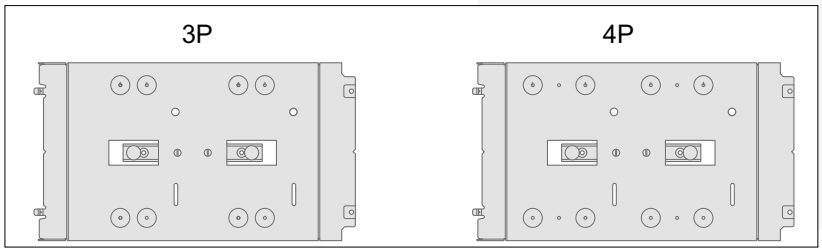
▪ Step 3: Mounting the DPX³ units on the mounting plate



⚠ Remove the terminal covers and set the DPX³ to the "tripped" position.

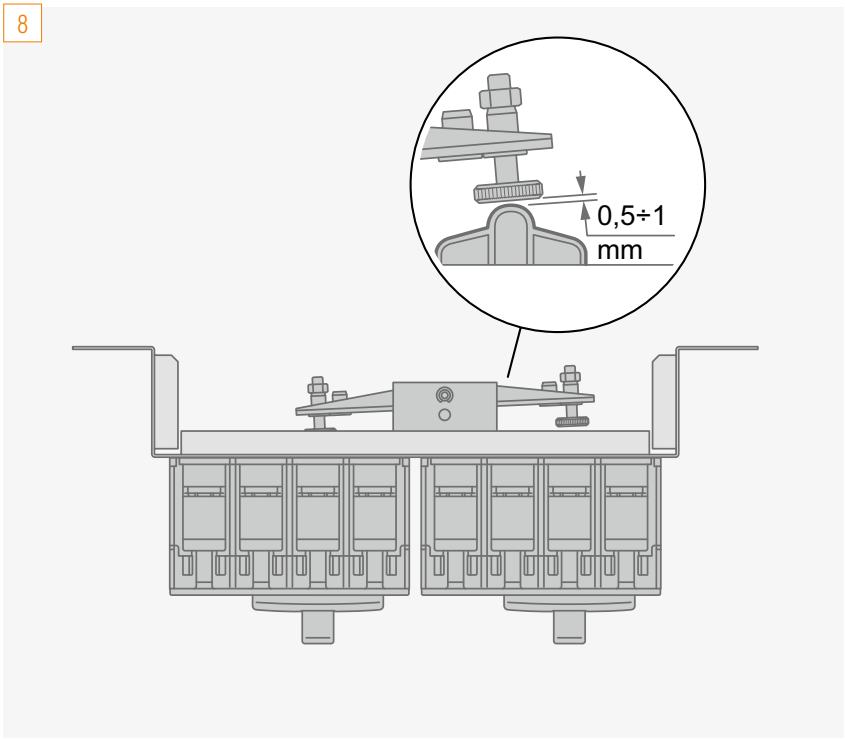
7





7. Secure the DPX³ using the 4 screws (supplied with the device), according to the mounting instructions shown opposite.

8



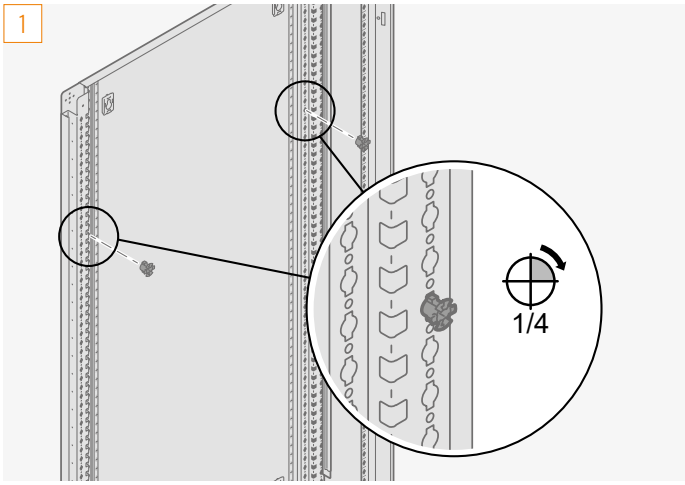
8. Adjust the tightening of the rocker screws for proper operation of the transfer switch.

ⓘ The 1st device must be in the ON position and the 2nd in the OFF position

Mounting universal crosspieces

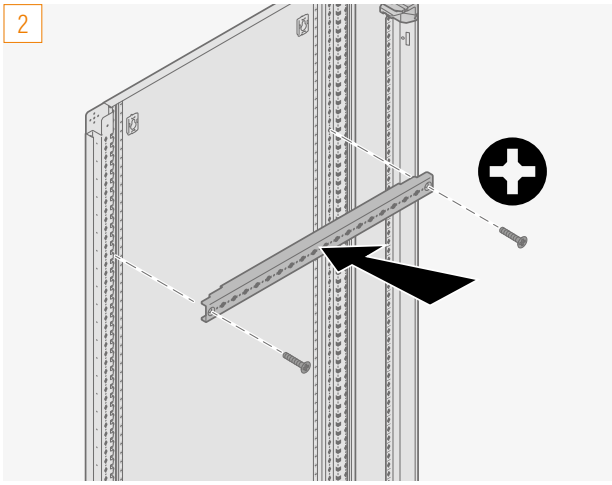
The mounting crosspieces allow the installation of busbar supports, some mounting plates, etc:
- 12 modules, Cat. No 2PR12
- 24 modules, Cat. No 2PR24
- 36 modules, Cat. No 2PR36
- internal cable sleeve, Cat. No 2PRVI

1



1. Insert the cage nuts into the functional uprights.

2



2. Screw the crosspieces onto the functional upright using the supplied nuts.

Terminal block assembly

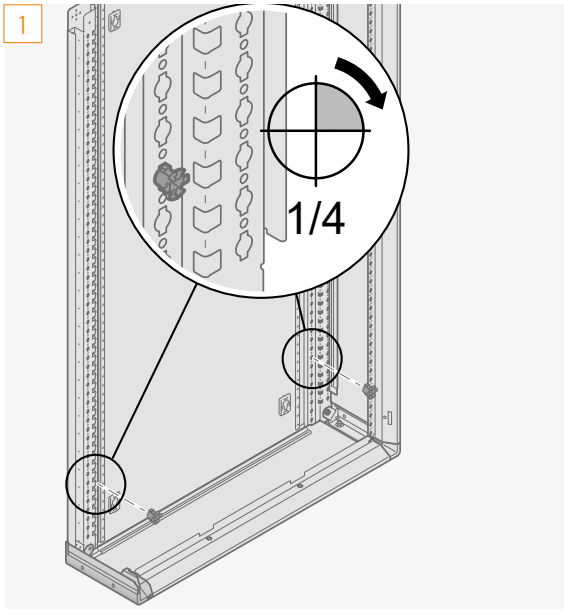
XL³ HP 630 enclosures and cabinets can accommodate flat bars or brass bars for connecting protective conductors to earth.

FLAT BARS 12X4 MM WITH BRACKETS

The flat bars must be fixed directly onto the functional uprights of the enclosures or onto the insulating support Cat. No 2SFBPL.
- 12 modules: Cat. No 2BPL12
- 24 modules: Cat. No 2BPL24
- 36 modules: Cat. No 2BPL36

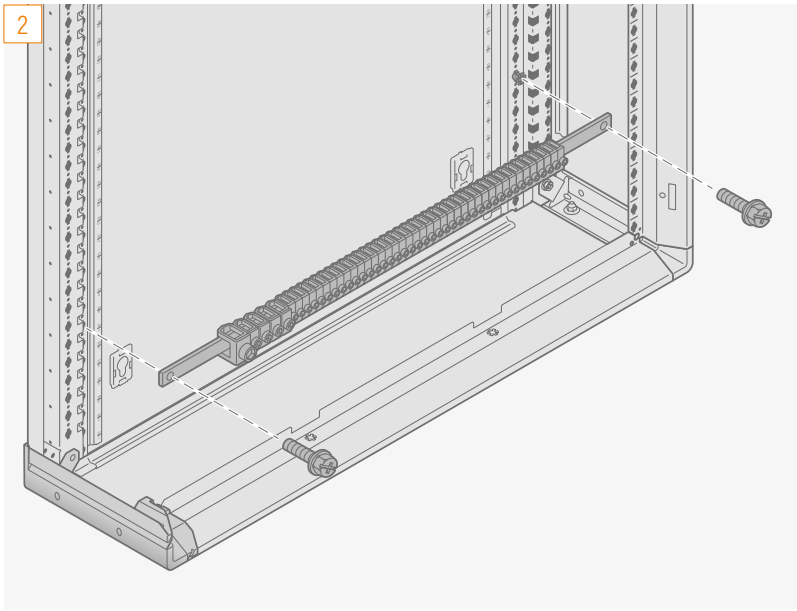
Multi-profile screw

1



1. Insert the cage nuts into the functional uprights.

2



2. Fix the bar onto the functional uprights using the supplied M6 screws.

Option to fix the flat bars onto the insulating supports, Cat. No 2SFBPL.

Cat. No	No. of brackets				
2BPL12	1 x 35 mm²	+	4 x 16 mm²	+	20 x 10 mm²
2BPL24	1 x 35 mm²	+	6 x 16 mm²	+	40 x 10 mm²
2BPL36	1 x 35 mm²	+	6 x 16 mm²	+	74 x 10 mm²

Earth bar assembly

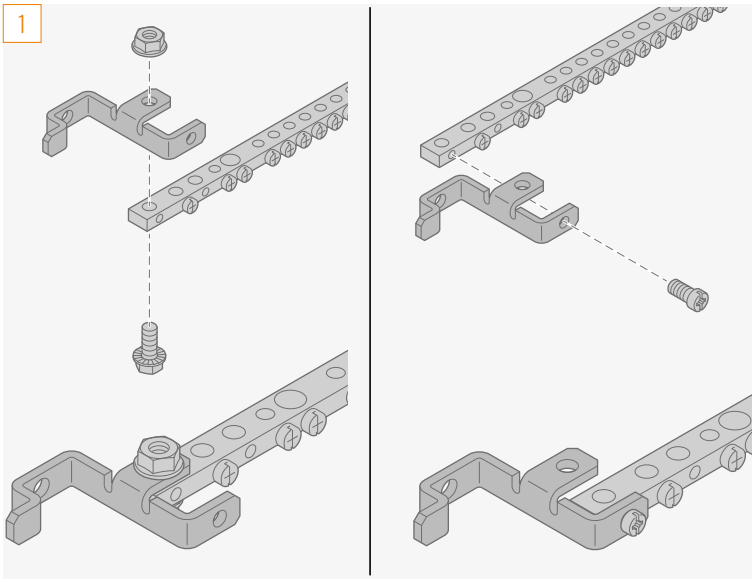
BRASS BARS

Brass bars are supplied with a mounting bracket, to be installed on the functional uprights of the enclosures
- 12 modules Cat. No 2BPE12
- 24 modules Cat. No 2BPE24
- 36 modules Cat. No 2BPE36

Multi-profile screw

It is possible to install a second earth bar on the bracket:
- a flat bar 12 x 2 Cat. No 0 048 19, to be cut to length according to the enclosure,
- a brass bar 2BPE12, 2BPE24 or 2BPE36,
- Cat. No 0 373 89 copper flat bar with tapped holes for Earth connections, to be cut.

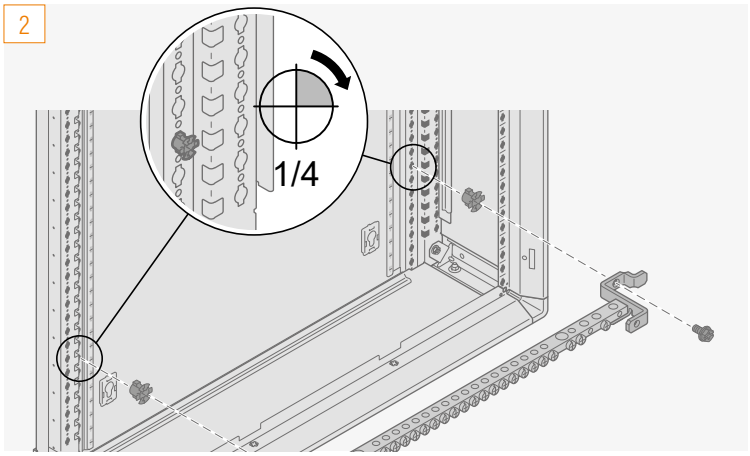
1



1. Attach the brass bar to the bracket using the supplied M6 screw.

Cat. No	No. of holes	
2BPE12	2 x Ø 9 mm²	18 x Ø 5.3 mm²
2BPE24	2 x Ø 9 mm²	36 x Ø 5.3 mm²
2BPE36	2 x Ø 9 mm²	58 x Ø 5.3 mm²

2

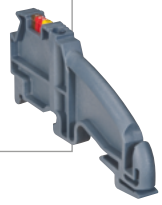


2. Secure the assembly to the functional uprights using the supplied cage nuts and M6 screws. Tightening torque for the screws: 2 Nm.

It is possible to fix the brass bar flat or on edge on the bracket.

Possibility to fix the brass bars on a locking stop mounted on a rail

► Cat. No 0 375 12



Terminal block bracket mounting

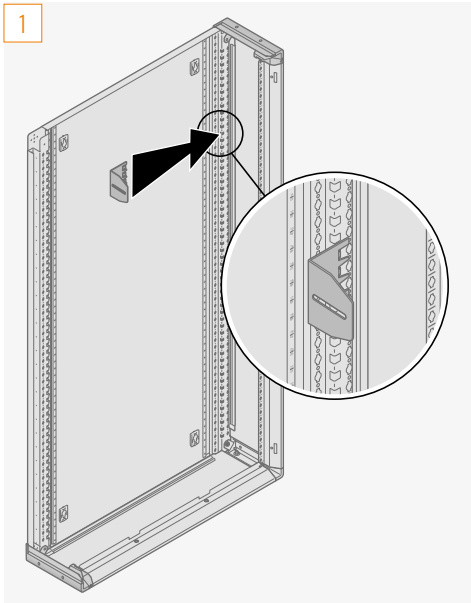
HORIZONTAL

Horizontal brackets allow the installation of a horizontal rail for terminal blocks or earth terminal blocks, adjustable in tilt and depth.

They are fixed directly onto the functional uprights:
- 12 modules, Cat. No 2SFMH12,
- 24 modules, Cat. No 2SFMH24,
- 36 modules Cat. No 2SFMH36.

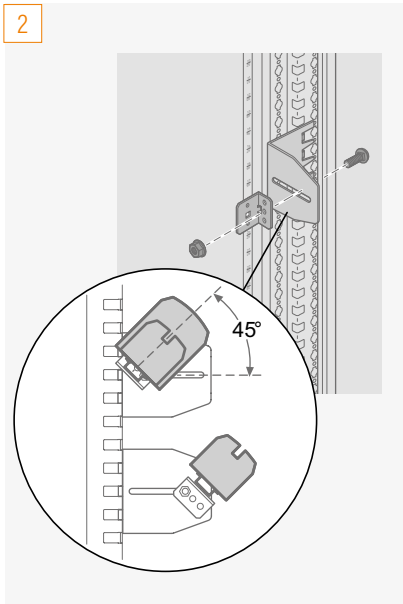
Optimized mounting thanks to an insertion-based fixing system.

1



1. Insert the fixed bracket into the functional uprights.

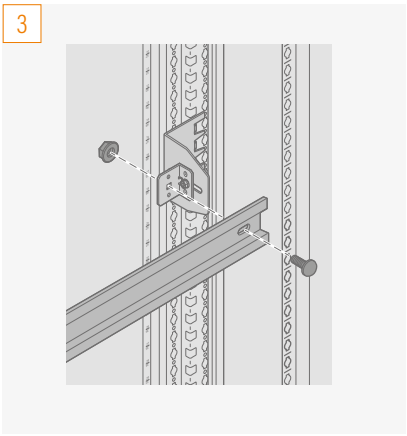
2



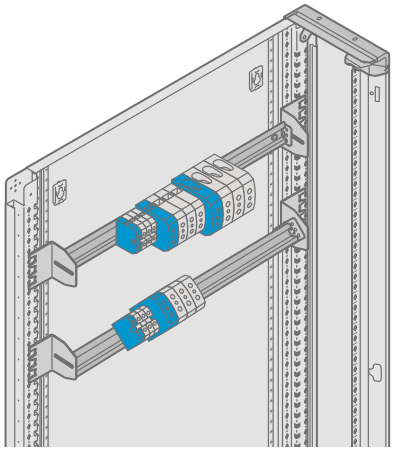
2. Fix the tiltable bracket to the fixed bracket using the supplied screws and nuts.

The bracket can be adjusted in depth and tilted 45° upward or downward.

3

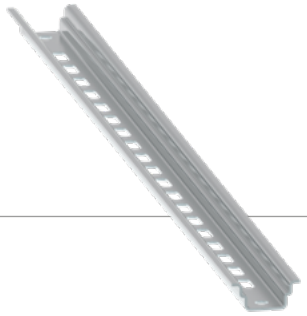


3. Fix the rail using the supplied screws and nuts.



It is also possible to fix terminal blocks on rails Cat.No 2DINA24 and 2DINA36, which are mounted directly onto the functional uprights using the supplied cage nuts and screws.

Multi-profile screw



Terminal block bracket mounting (continued)

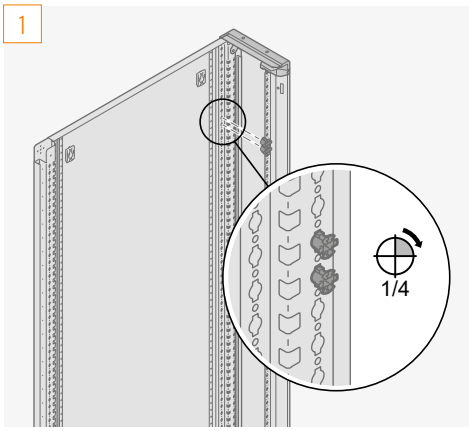
VERTICAL

Vertical brackets Cat. No 2SFMVXX allow vertical mounting of rails for terminal blocks, earth terminal blocks, or Lina 25 Cable duct .

They consist of 3 metal brackets and 3 45° angle brackets and are fixed directly onto a functional upright of enclosures and cabinets.

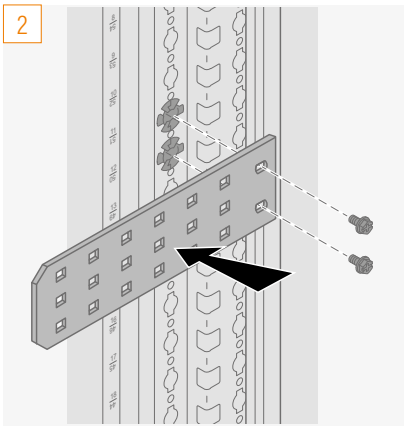
Multi-profile screw

1



1. Insert the cage nuts into the functional upright.

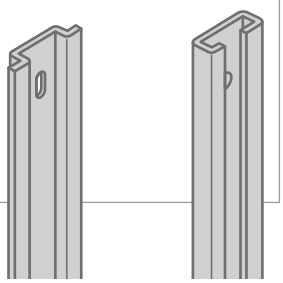
2



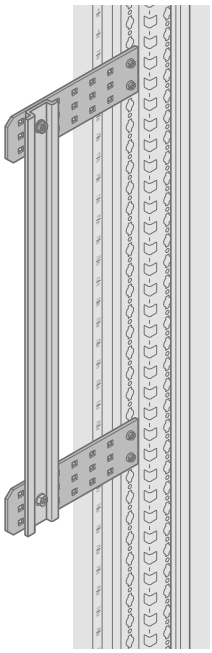
2. Fix the bracket to the functional upright using the supplied M6 screws.

+

It is possible to install rails ⌐¬ or ⌐¬

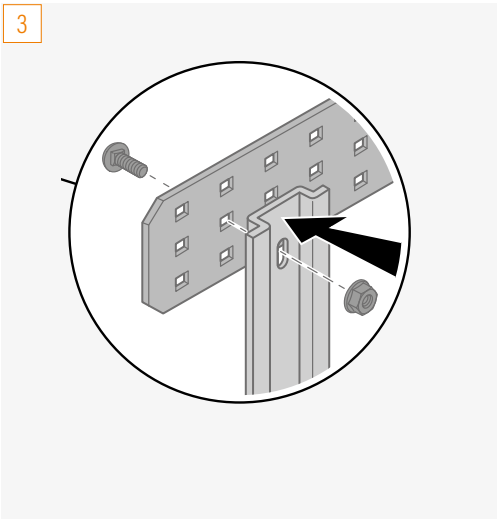


- CASE 1: Straight mounting



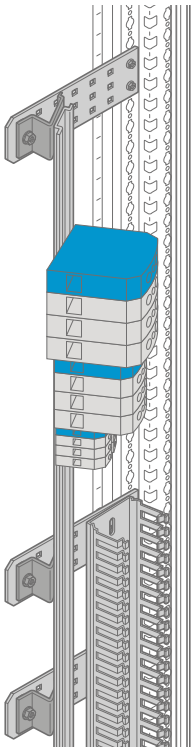
10

3



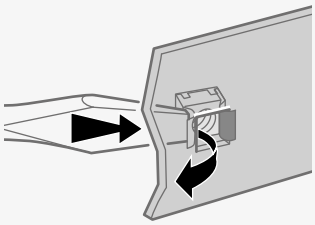
3. Fix the rail directly onto the bracket using the supplied round-head screws and nuts.

- CASE 2: Inclined Assembly



Please follow the safety instructions and wear PPE (gloves) for these assembly steps. ► p. 2-3.

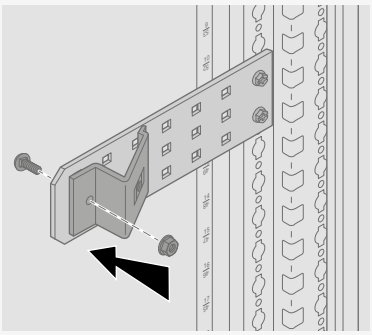
3



3. Attach the cage nut to the bracket at a 45° angle..

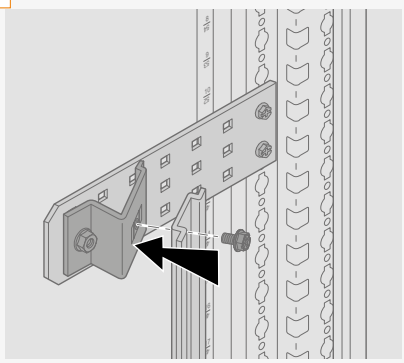
Push the side of the cage nut using a flat screwdriver to facilitate its insertion into the bracket.

4



4. Attach the bracket to the support using the supplied round-head screws and nuts.

5



5. Attach the rail to the bracket at a 45° angle using the supplied M6 screws.

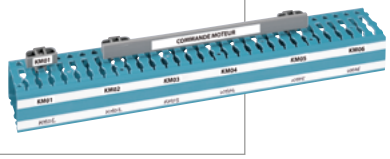
Multi-profile screw

Wiring routing

Cable sleeves can be integrated horizontally or vertically into XL³ HP 630 enclosures and cabinets with height-adjustable supports.

Lina 25 Cable duct

► Check the online catalog at legrand.com

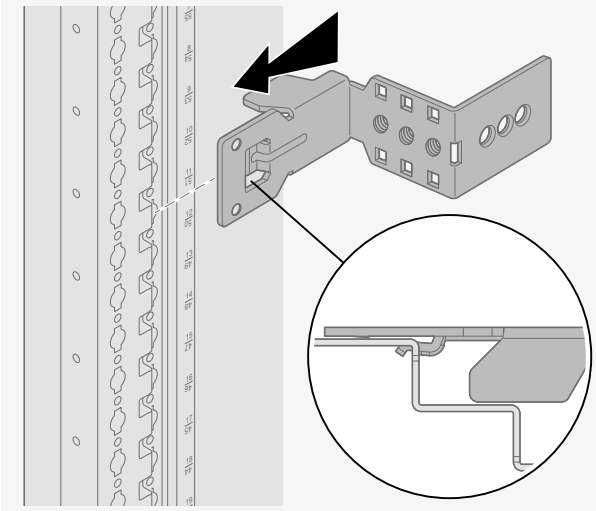


MOUNTING THE 3-POSITION SUPPORT CAT. NO 2SFGR

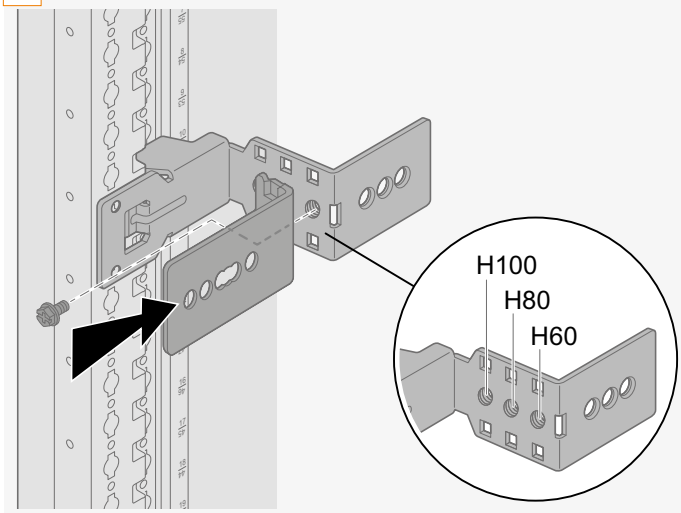
The adjustable support is designed for compatibility with cable sleeves of 60 mm, 80 mm, or 100 mm height. It enables precise alignment of horizontal and vertical sleeves at the same level, even when their heights differ.

Multi-profile screw

1



2



1. Insert the horizontal mounting bracket into the functional upright.

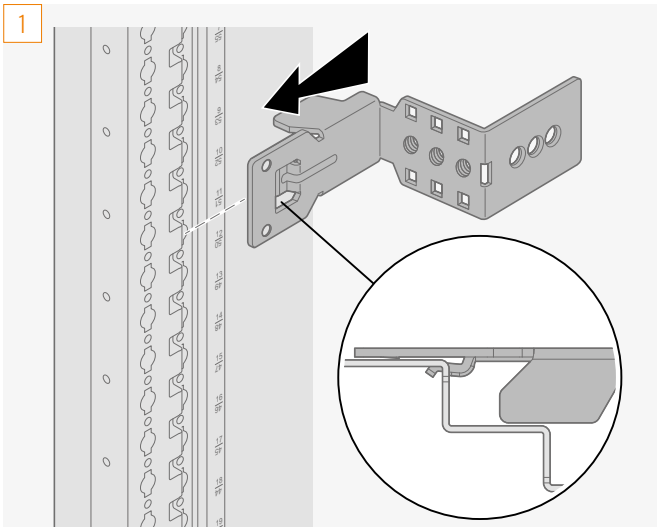
2. Secure the vertical mounting bracket using the supplied M6 screw, according to the height of the cable sleeve to be installed.

Reduced assembly time thanks to the insertion-based fastening system.

MOUNTING THE 2-POSITION SUPPORT CAT. NO 2SFGF

The fixed support is compatible with cable sleeves of 60 mm or 80 mm height. This allows horizontal and vertical sleeves to be aligned at the same level, even when their heights differ.

1

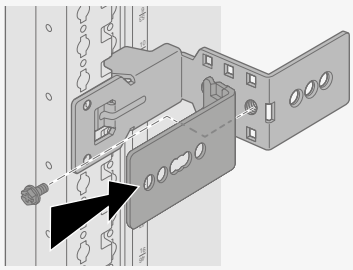


1. Insert the horizontal mounting bracket into the functional upright.

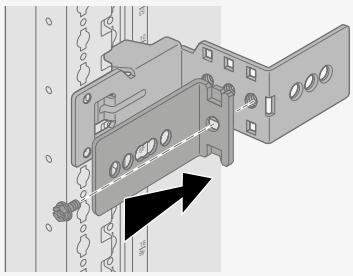
Reduced assembly time thanks to the insertion-based fastening system.

2

FOR 60 MM HEIGHT SLEEVE



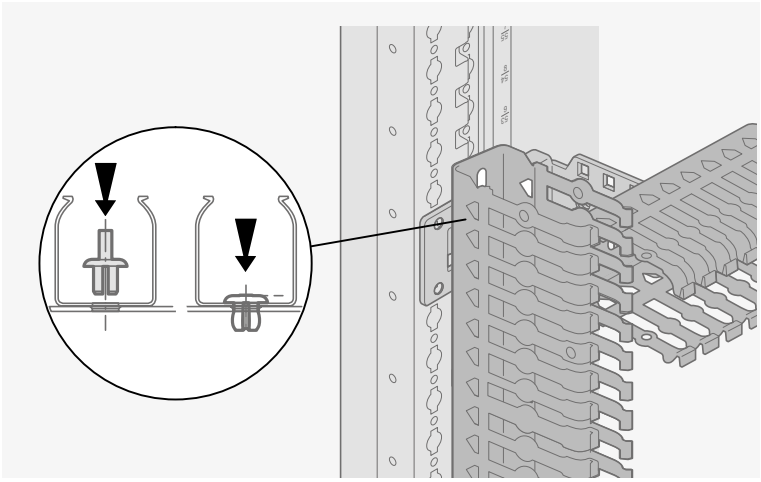
FOR 80 MM HEIGHT SLEEVE



2. Secure the vertical mounting bracket using the supplied M6 screw, according to the height of the sleeve to be installed..

SLEEVE FASTENING

After installing the sleeve mounting brackets, fasten the sleeves onto the brackets using the insulating rivets supplied with the brackets.



Insert the supplied insulating rivets and press to secure the sleeves.

For fastening the cable sleeves, it is recommended to use the rivet installation tool Cat. No 25058 or 25059.

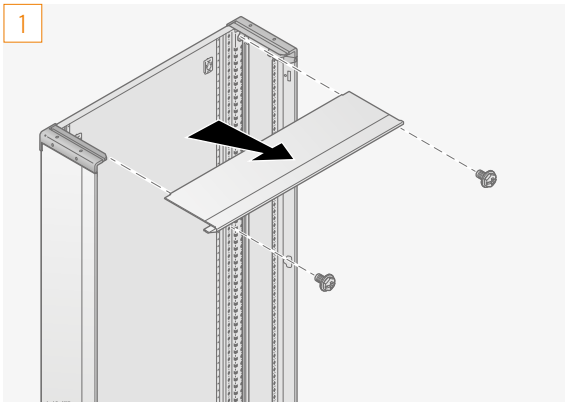
► Check the online catalog at legrand.com

Cable entries from top/bottom

INSTALLATION OF A CABLE ENTRY PLATE

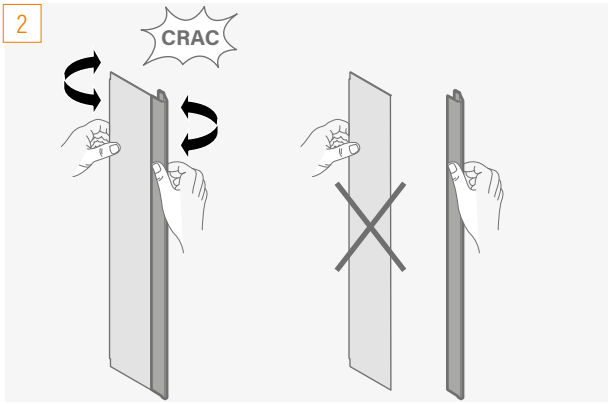
Plastic plate for cable entries:
- 12 modules Cat. No 2PPC12C,
- 24 modules Cat. No 2PPC24C,
- 36 modules Cat. No 2PPC36C.

1



1. Remove the 2 fixing screws from the top or bottom panel of the enclosure.

2

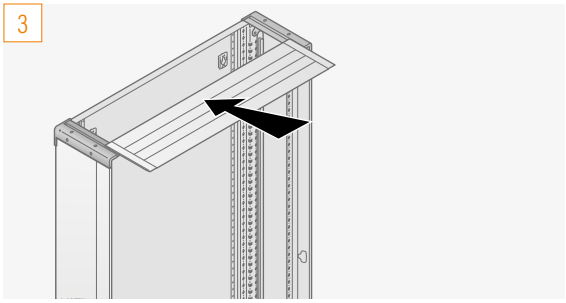


2. Cut the original top or bottom panels along the pre-cut sections.

Use a vise to make manual cutting of the side panel easier.

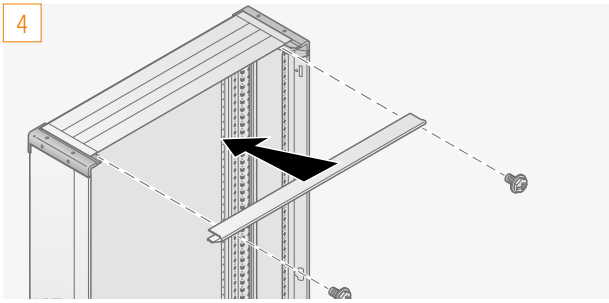
Please follow the safety instructions and wear EPI (gloves) during these assembly steps.
► p. 2-3.

3



3. Insert the plastic cable entry plate on the top/bottom of the enclosure..

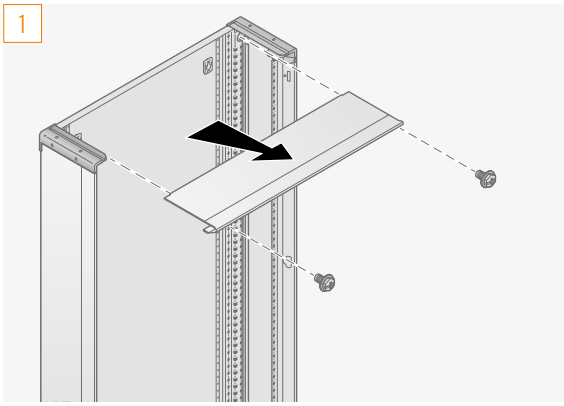
4



4. Insert the cut metal part from the original panel and secure the assembly using M6 screws.

Remember to recycle the remaining side panel in the metal bin.

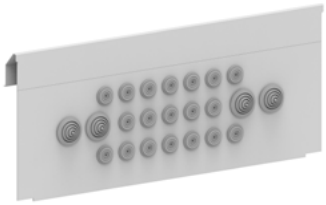
REPLACEMENT OF THE TOP/BOTTOM PANEL WITH PANEL WITH GROMMETS FOR CABLE ENTRIES

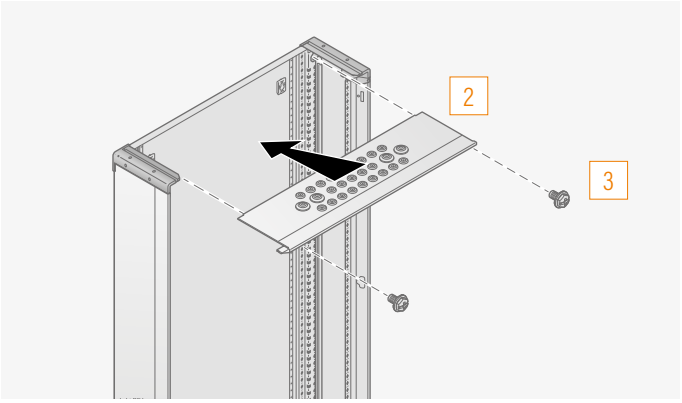


Multi-profile screw

Cable entry panels can be installed in place of a top or bottom panel.

Cable entry panel with grommets:
- 12 modules Cat. No 2PPC12CS,
- 24 modules Cat. No 2PPC24CS,
- 36 modules Cat. No 2PPC36CS.

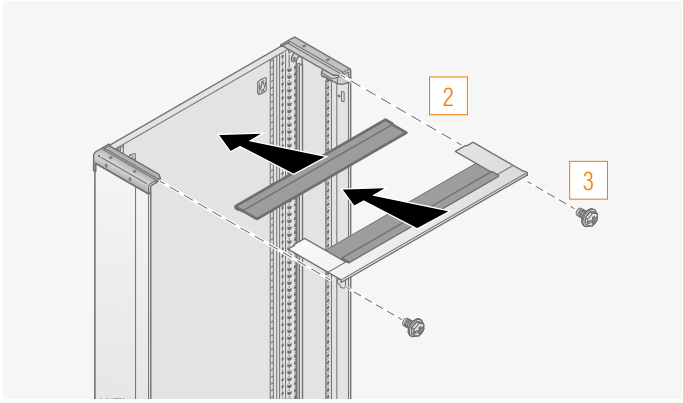




1. Remove the 2 fixing screws from the top or bottom panel of the enclosure.
2. Replace the panel with a cable entry panel.
3. Reuse the 2 original screws to secure the end-cap panel.

Brush cable entry panel:
- 12 modules Cat. No 2PBR12,
- 24 modules Cat. No 2PBR24,
- 36 modules Cat. No 2PBR36.

This panel no longer ensures the enclosure's IP rating.



1. Remove the 2 fixing screws from the top or bottom panel of the enclosure.
2. Position the rear brush of the panel at the back of the cabinet, then slide in the brush cable entry panel
3. Reuse the 2 original screws to secure the brush panel.

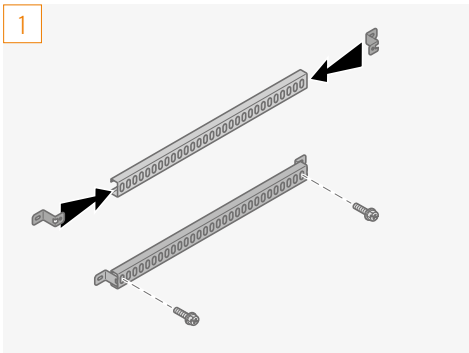
Cable fastening crosspieces installation

Cable fastening crosspieces allow securing cables using Colson or Colring cable ties.
- 12 modules Cat. No 2SFC12
- 24 modules Cat. No 2SFC24
- 36 modules Cat. No 2SFC36
- Internal cable sleeve Cat. No 2SFCVI

The crossbar can be mounted at the top or bottom of the enclosure.

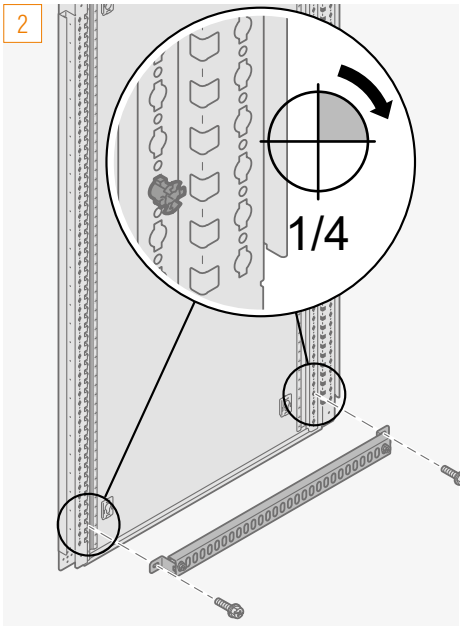
Multi-profile screw

1



1. Attach the mounting brackets to the crossmember using the supplied M6 screws.

2



2. Secure the assembly to the functional upright using the supplied cage nuts and M6 screws.

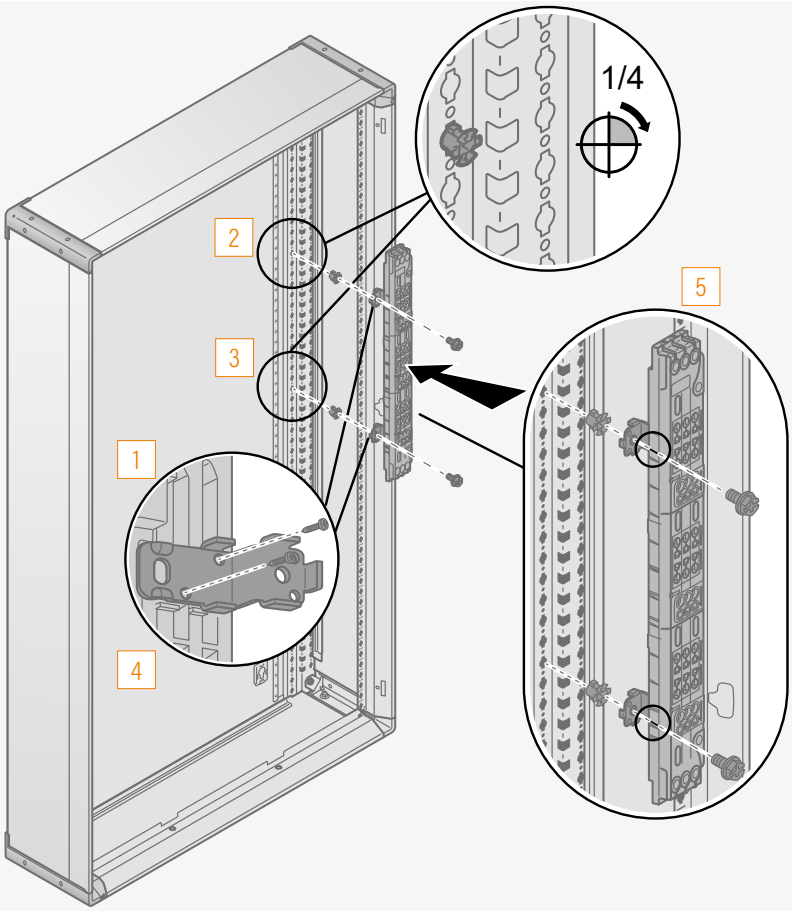
HX³/VX³ distribution system

VX³ VERTICAL DISTRIBUTION

The 125 A four-pole vertical distribution blocks, Cat. No 4 050 34/35/36 (from 4 to 6 rows) are equipped with IP XXB automatic terminals and mounting brackets. Power supply is possible from the top or bottom of the vertical busbar via screw terminals. It is recommended for the distribution of modular devices.

Type	References	Number of outputs/Phase	Number of outputs/Neutral
125 A	4 050 34	6	9
	4 050 35	8	12
	4 050 36	10	15

Time-saving during three-phase wiring with this busbar, which enables quick and easy wiring for each row.
Automatic terminals compatible with both flexible and rigid wires.



Mounting

Mounting inside the enclosure is carried out using the supplied brackets, allowing lateral installation and vertical adjustment within the enclosures.

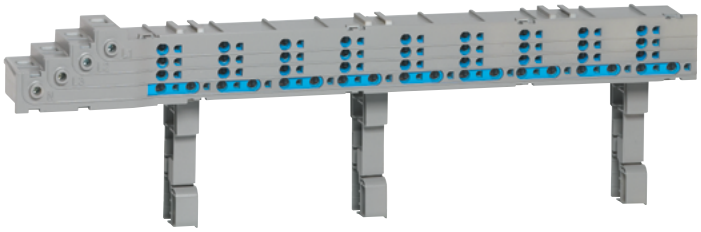
1. Screw a mounting bracket onto the back of the distribution block.
2. Insert the cage nuts into the functional upright.
3. Identify the position for inserting the second cage nut and insert it.
4. Screw the second mounting bracket onto the back of the distribution block.
5. Attach the distribution block to the enclosure's vertical upright.

This distribution block is designed to be used with prosleeves mounted on modular rails, not on plates.

HX³/VX³ distribution system (continued)

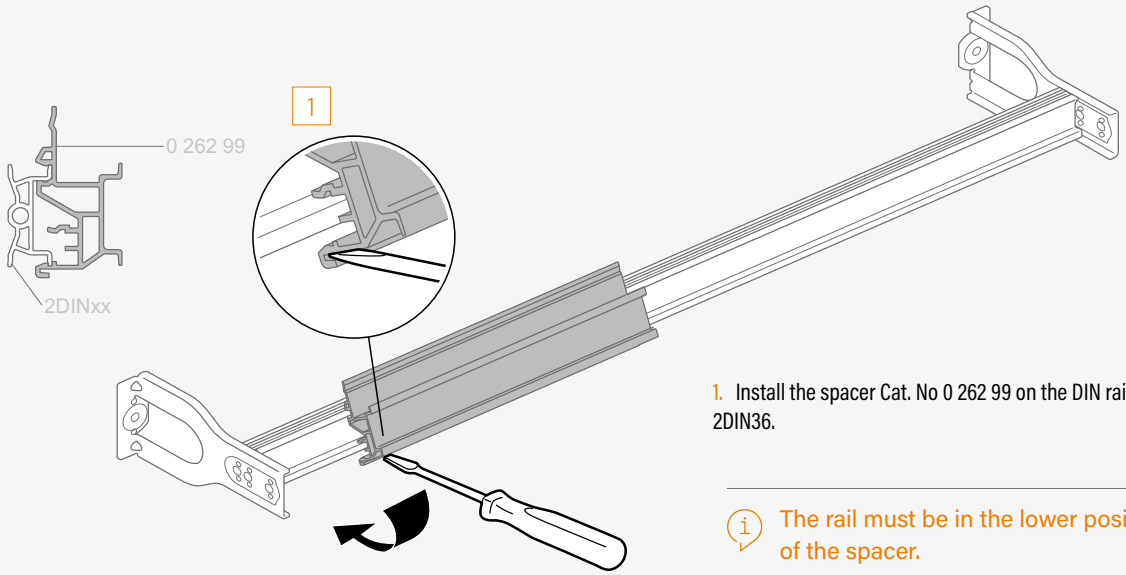
HX³ 125 A HORIZONTAL DISTRIBUTION

The 125 A horizontal distributors Cat. No 4 052 30 (3 x 9 phase outputs + 18 neutral outputs) and Cat. No 4 052 31 (3 x 4 phase outputs + 8 neutral outputs) are equipped with IP XXB automatic terminals and mounting brackets for DIN rail attachment. Power supply is possible from the top, bottom, or through-feed via screw terminals.



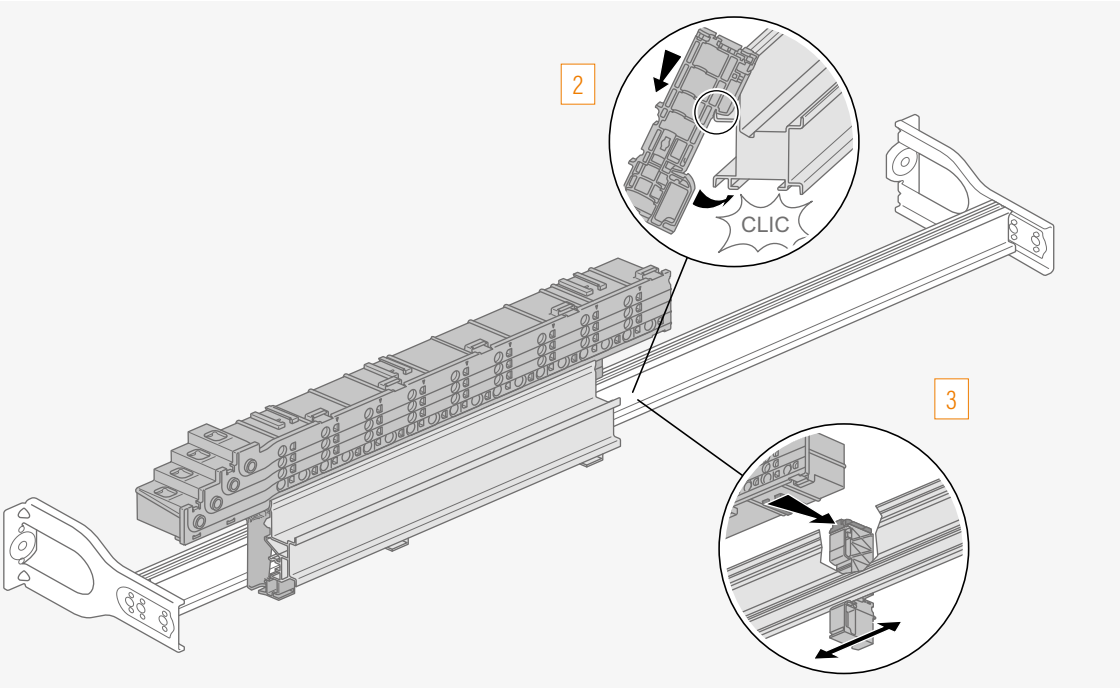
⚠ The use of this distributor requires a 200 mm high faceplate.

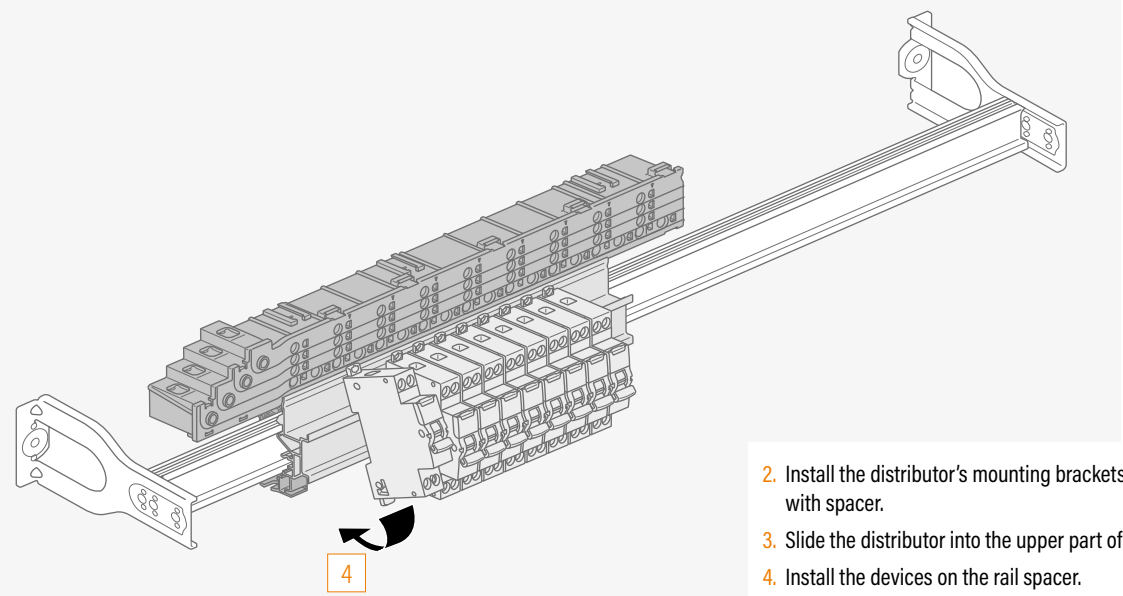
Terminal capacity:
- power supply from the top or bottom (screw terminals): 10 mm² to 35 mm² for flexible wires with or without ferrules or solid wires,
- outputs (automatic terminals): 0.5 mm² to 6 mm² for flexible wires with or without ferrules or solid wires.



1. Install the spacer Cat. No 0 262 99 on the DIN rail Cat. No 2DIN24 or 2DIN36.

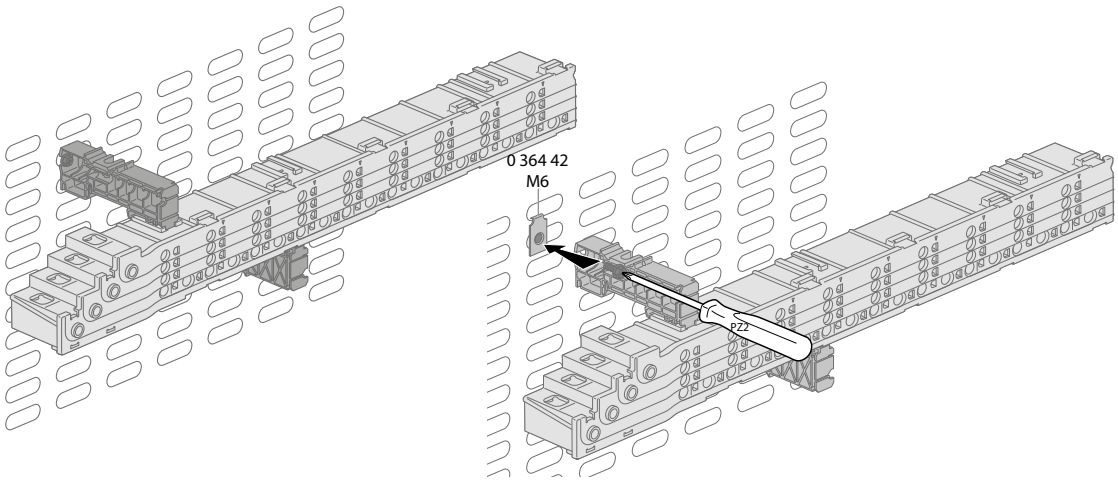
ⓘ The rail must be in the lower position for the use of the spacer.





2. Install the distributor's mounting brackets on the back of the rail assembly with spacer.
3. Slide the distributor into the upper part of the mounting brackets.
4. Install the devices on the rail spacer.

Can also be mounted on a perforated plate using accessory Cat. No 0 364 42 and the supplied mounting brackets.

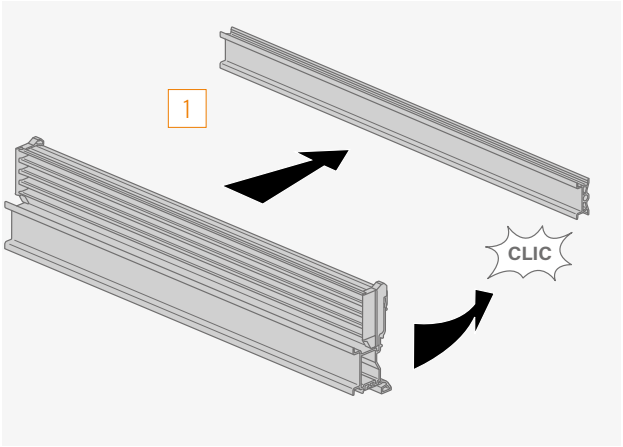


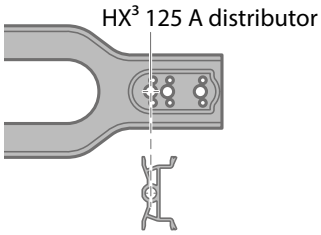
HX³/VX³ distribution system (continued)

HX³ AUTOMATIC HORIZONTAL DISTRIBUTOR 125 A

Row distributors with automatic single-phase or four-pole connection, Cat. No 0RR125M24 or 0RR125M36, allow safe automatic connection and disconnection under voltage (no load) (IP XXB).
They are mounted on 2DIN24 or 2DIN36 rails with an aluminum spacer supplied.

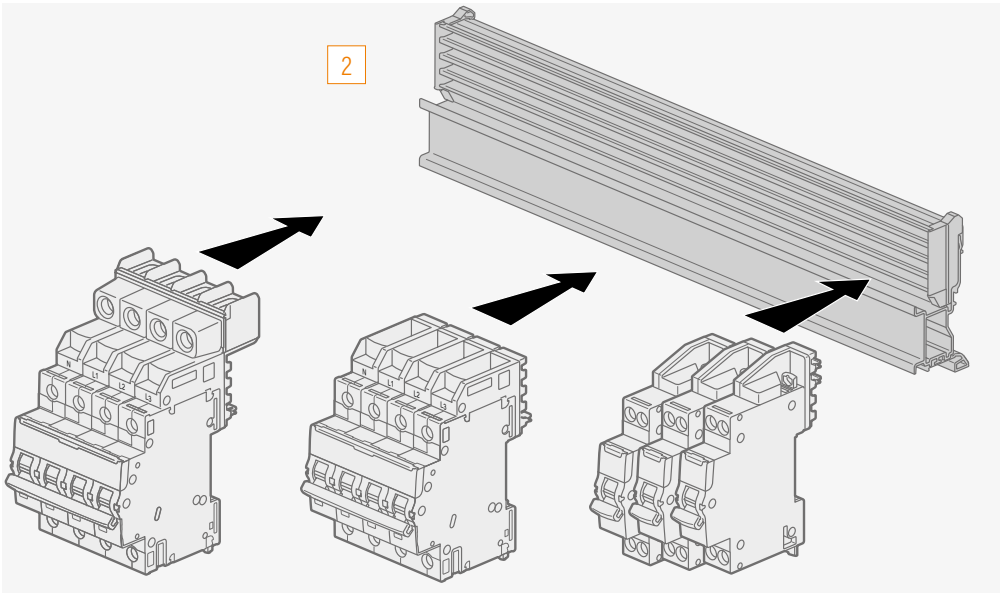
Under installation conditions, it complies with IS 223 at the row level.





Adjust the bracket to this position to install the distributor.

1. Clip the HX³ 125 A horizontal distributor with the spacer onto the DIN rail (not supplied).

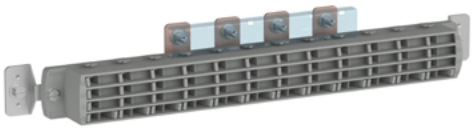


2. Clip the modular devices onto the distributor using the corresponding connection modules.

It is possible to mount a DPX³ 160 on this distributor by removing the spacer and cutting the rail.
► More information can be found in the distributor's instruction manual available in the online catalog at legrand.com.

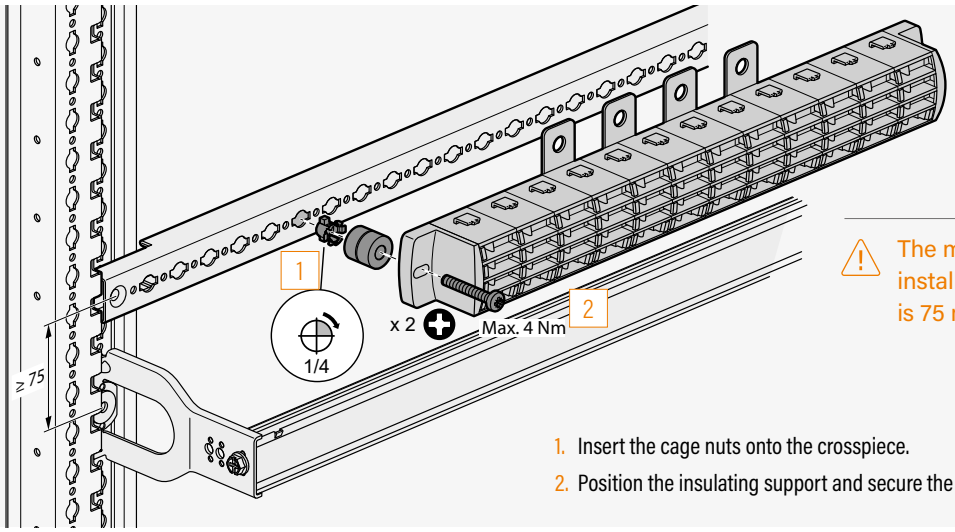
HX³ LEXICLIC 250 A HORIZONTAL DISTRIBUTOR

Single-phase or four-pole/single-phase Lexiclic horizontal distributors allow safe connection and disconnection under voltage (no load) (IP XXB) using locking connector cords.
They are mounted on functional uprights or on crosspieces Cat. No 2PR24 or 2PR36.



Under installation conditions, it complies with IS 223 at the row level.

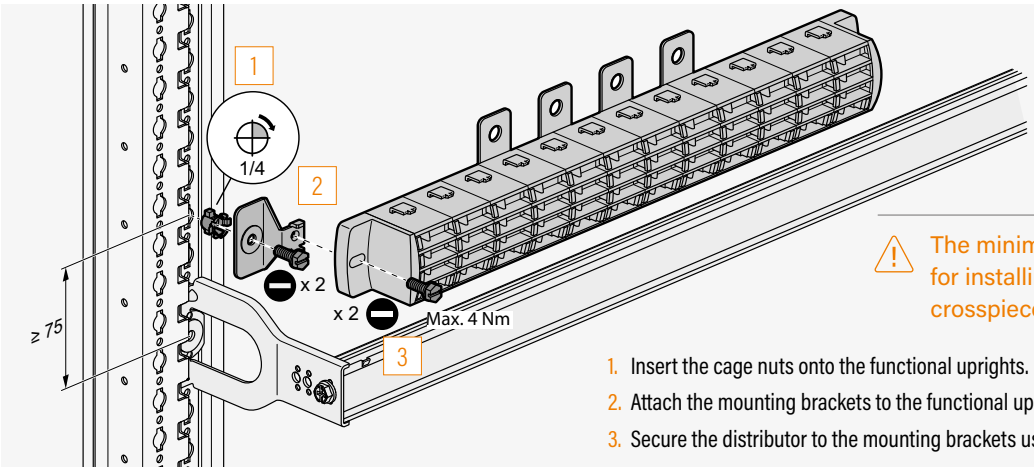
Cat. No 0RR2501XX and 0RR2503XX: mounting on crosspieces



The minimum spacing to be observed for installing a rail below or above the crosspiece is 75 mm.

1. Insert the cage nuts onto the crosspiece.
2. Position the insulating support and secure the distributor with the 2 supplied screws.

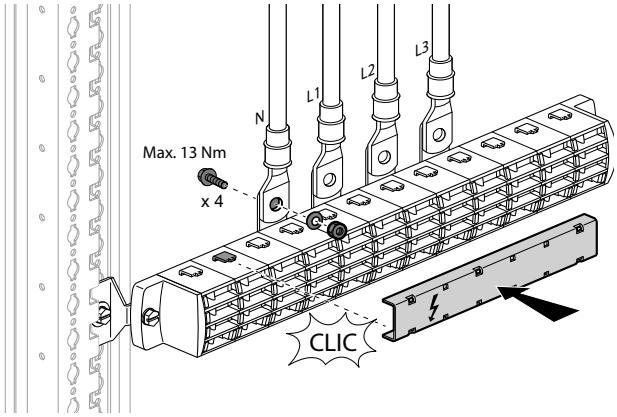
Cat. No 0RR2501M24 and 0RR2503M24: mounting on functional uprights

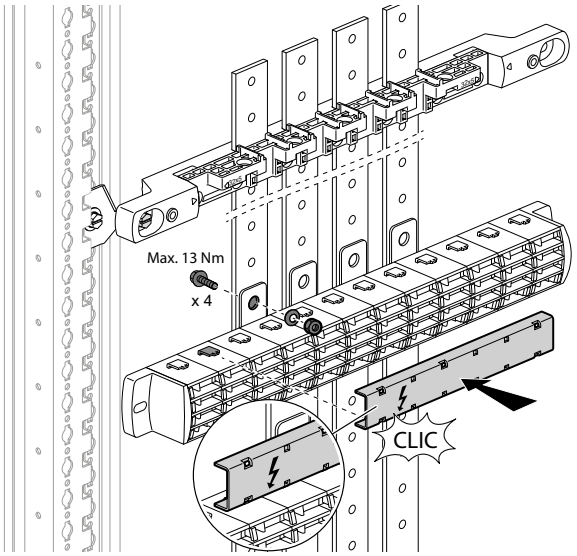


The minimum spacing to be observed for installing a rail below or above the crosspiece is 75 mm.

1. Insert the cage nuts onto the functional uprights.
2. Attach the mounting brackets to the functional uprights using the supplied screws.
3. Secure the distributor to the mounting brackets using the supplied screws.

The Lexiclic distributor can be connected using lugs or directly onto the busbar system (see insulating support on p. 47)





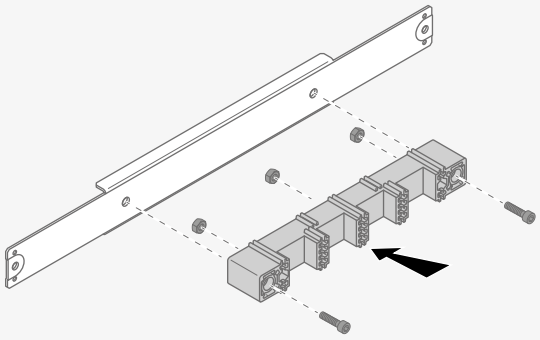
Insulating supports for C-shaped aluminum busbars

Insulating supports for C-shaped aluminum busbars can be mounted with Legrand C-shaped aluminum bars Cat. No 4 044 30/31/32 at the back of XL³ HP 630 enclosures and cabinets.

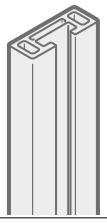
BUSBAR SET IN ALIGNED POSITION

These insulating supports allow vertical mounting of C-shaped aluminum busbars in an aligned position directly on the functional uprights.
They include intermediate supports and end supports to be positioned at the ends of the busbar set:
- 24 modules, Cat. No 0SB24M630ALI (intermediate) and Cat. No 0SB24M630ALT (end support for bottom mounting),
- 36 modules, Cat. No 0SB36M630ALI (intermediate) and Cat. No 0SB36M630ALT (end support for bottom mounting),
- 12 modules, Cat. No 0SB12M630ALI (intermediate) and Cat. No 0SB12M630ALT (end support for bottom mounting).

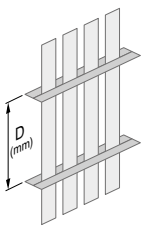
1

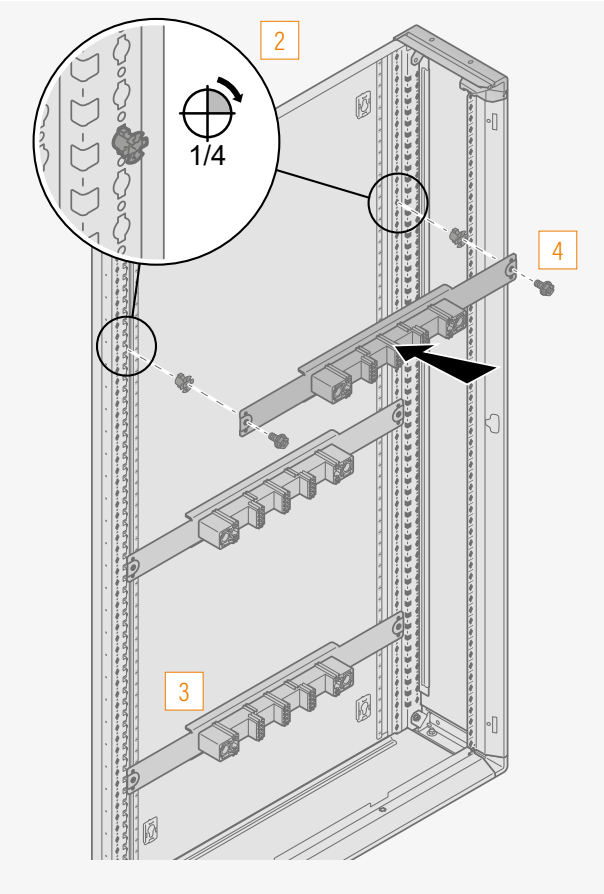


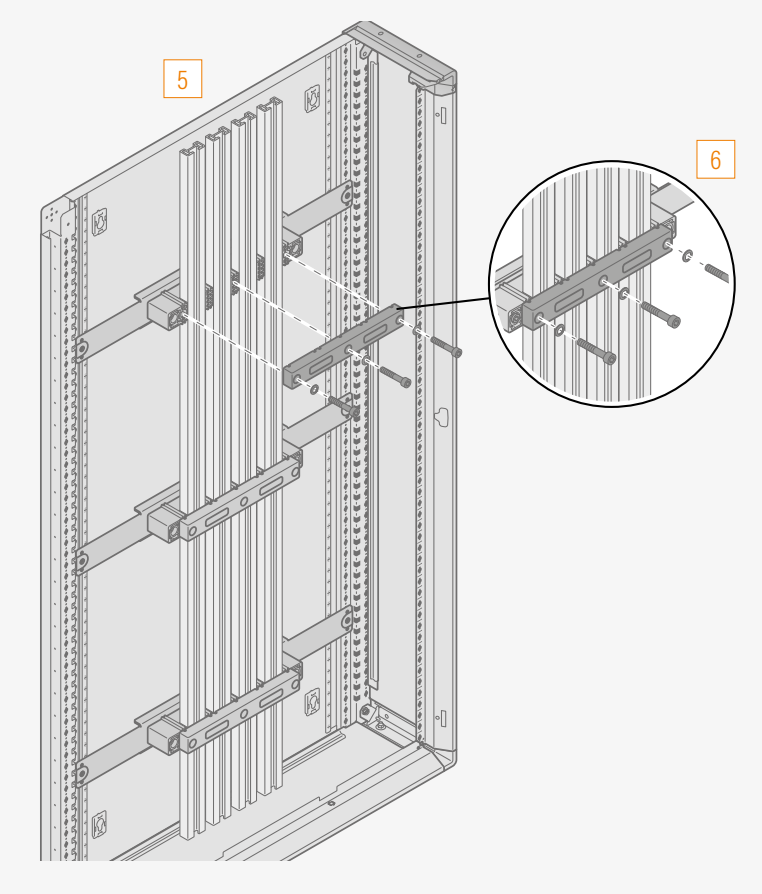
1. Assemble the insulating support and the metal crosspiece for the intermediate and end supports.
2. Insert the cage nuts onto the functional uprights.
3. Fix the end support with the corresponding end caps, ensuring the distances indicated in the table below are respected.
4. Fix the intermediate supports, ensuring the distances indicated in the table below are respected.
5. Slide the C-shaped aluminum bars into the insulating supports.
6. Close the insulating support with the upper part using the supplied screws.
7. Cut the profile Cat. No 0BALIP to length between the insulating supports.
8. Insulate the bars with the insulating profile.

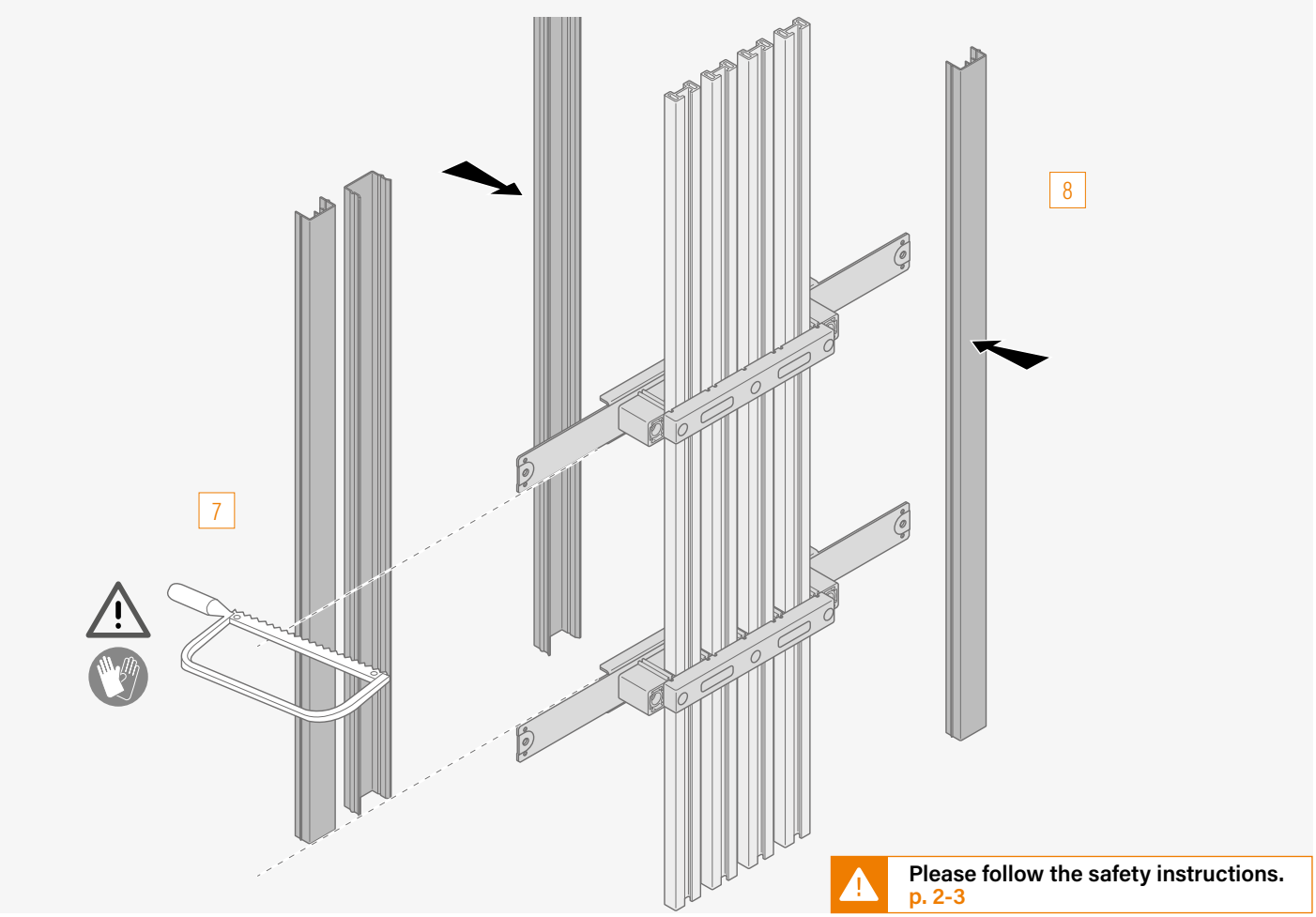
C-SHAPED ALUMINUM BARS		I (A)		I (A)	
		IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
	4 044 30	320	250	320	250
	4 044 31	500	400	500	400
	4 044 32	700	630	700	630

Not compatible with the installation of tapping terminals Cat. No 4 044 89/90.

		Ipk (kÂ)											
D (mm)		10	15	20	25	30	35	40	45	50	60	70	80
	4 044 30	1600	1200	800	600	400	350	300	250	250	-	-	-
	4 044 31	1600	1200	800	650	500	450	400	350	300	250	175	100
	4 044 32	1600	1200	800	650	500	450	400	350	300	250	175	100







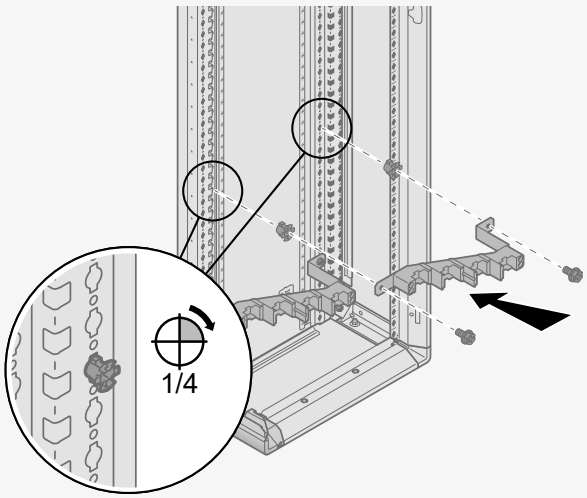
Please follow the safety instructions.
p. 2-3

Insulating supports for C-shaped aluminum busbars (continued)

BUSBAR SET IN STAGGERED POSITION

These insulating supports allow the vertical installation of C-channel aluminium busbars in a staggered position directly on the functional uprights in internal cable sleeves or 12-module enclosures.
They include intermediate supports and heel supports to be positioned at the ends of the busbar set:
- 12 modules, Cat. No 0SBXX630ALI (intermediate) and Cat. No 0SBXX630ALT (end support for bottom mounting),
- internal cable sleeves, Cat. No 0SBVIM630ALI (intermediate) and Cat. No 0SBVIM630ALT (end support for bottom mounting).

1



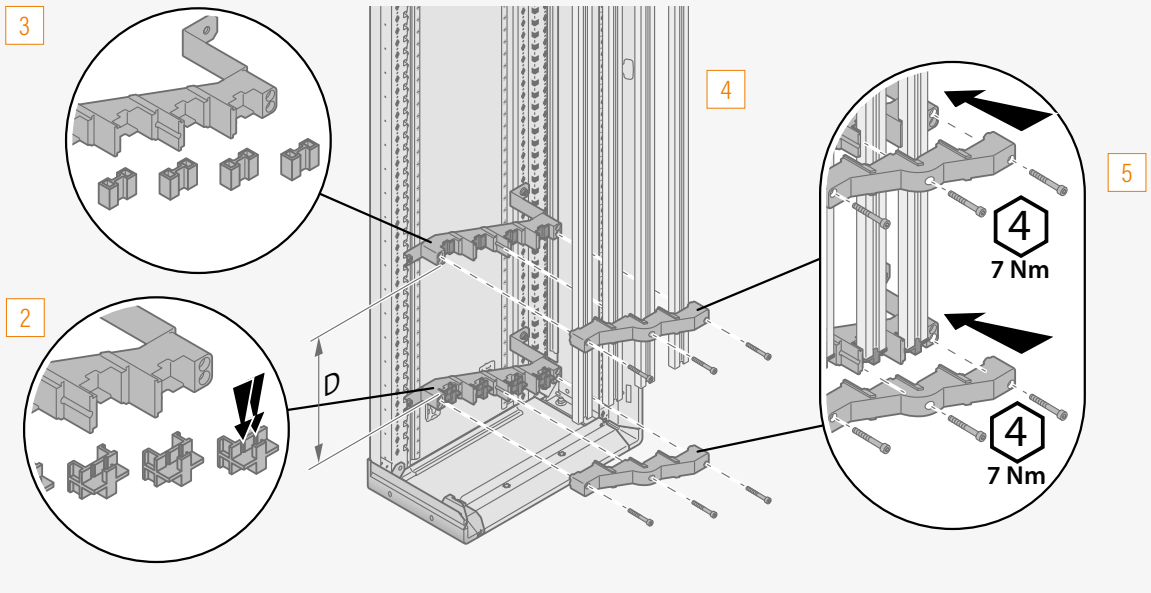
1. Insert the cage nuts onto the functional uprights.
2. Fix the end support with the corresponding end caps.
3. Fix the intermediate supports with the corresponding end caps, ensuring the distances indicated in the adjacent table are respected.
4. Slide the C-channel aluminium bars into the insulating supports.
5. Close the insulating supports with the upper part using the supplied screws.
6. Cut the profile Cat. No 0BALIP to length between the insulating supports.
7. Insulate the bars with the insulating profile.

Not compatible with the installation of tapping terminals Cat. No 4 044 89/90

Maintain the distance between the insulating supports (see adjacent table)

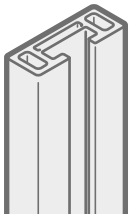
3

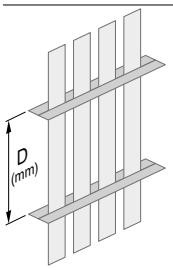
2

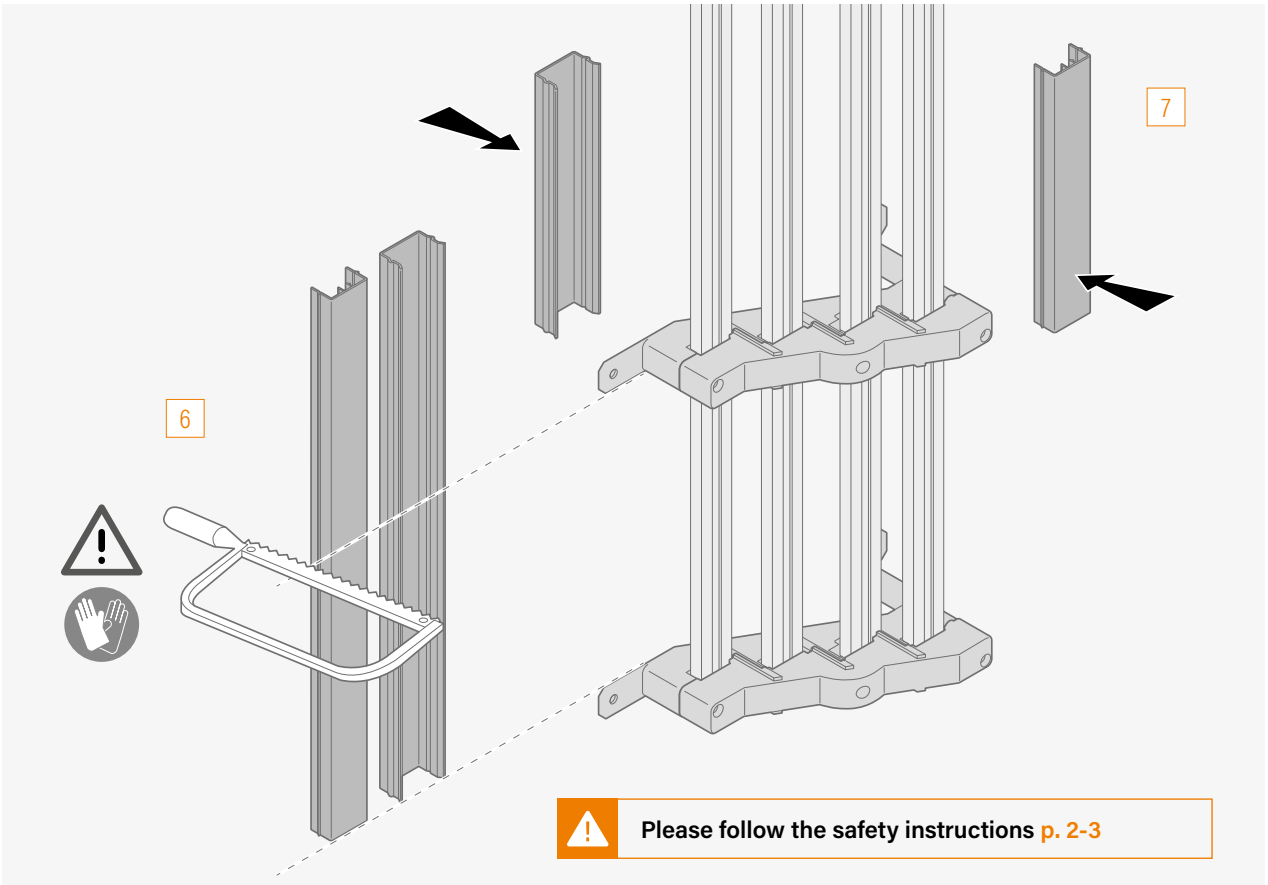


4

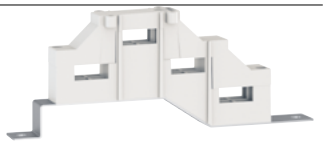
5

C-SHAPED ALUMINUM BARS		I (A)		I (A)	
		IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
	4 044 30	320	250	320	250
	4 044 31	500	400	500	400
	4 044 32	700	630	700	630

		Ipk (kÂ)										
D (mm)		10	15	20	25	30	35	40	45	50	60	70	80
	4 044 30	1600	1200	800	600	400	350	300	250	250	-	-	-
	4 044 31	1600	1200	800	650	500	450	400	350	300	250	175	100
	4 044 32	1600	1200	800	650	500	450	400	350	300	250	175	100



Insulating supports for C-shaped aluminum busbars (continued)

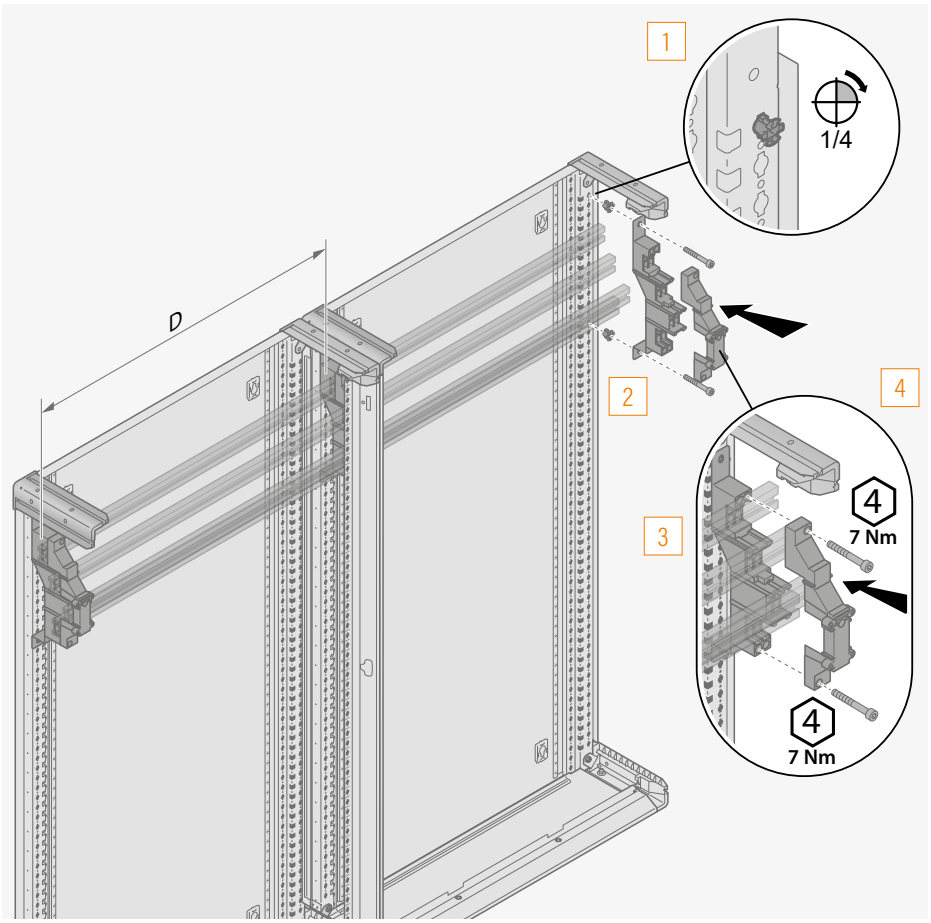


BUSBAR SET IN STEPPED POSITION

These compact insulating supports allow the installation of C-shaped aluminium busbars in a stepped position:
- in horizontal or vertical position directly on the functional uprights in external cable sleeves or 12-module enclosures,
- in horizontal position on the functional uprights or on crosspieces Cat. No 2PR24 or 2PR36 for 24- and 36-module enclosures.

They include intermediate supports and end supports to be positioned at the ends of the busbar set:
Cat. No 0SBC630ALI (intermediate) and Cat. No 0SBC630ALT (end).

This insulating support can be mounted in vertical or horizontal position.
The vertical mounting of the insulating support is identical to the support for busbars in staggered position. ► p. 42



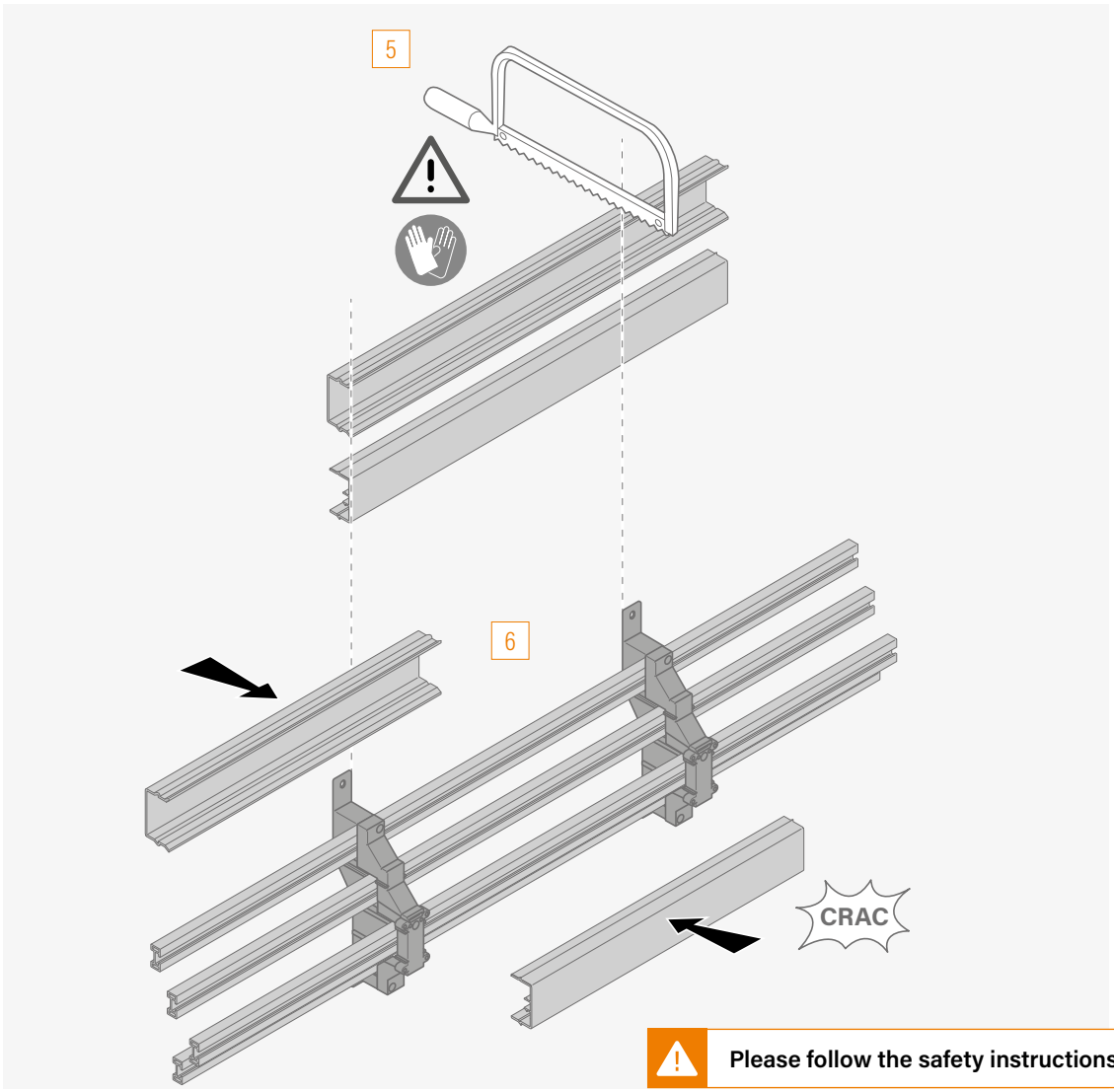
1. Insert the cage nuts onto the functional uprights.
2. Fix the insulating supports, ensuring the distances indicated in the adjacent table are respected.
3. Slide the C-shaped aluminium bars into the insulating supports.
4. Close the insulating supports with the upper part using the supplied screws.
5. Cut the 0BALIP profile to length between the insulating supports.
6. Insulate the bars with the insulating profile.

Not compatible with the installation of tapping terminals
Cat. No 4 044 89/90

Maintain the distance between the insulating supports (see adjacent table).

C-SHAPED ALUMINUM BARS		I (A)		I (A)	
		IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
	4 044 30	320	250	320	250
	4 044 31	500	400	500	400
	4 044 32	700	630	700	630

		Ipk (kÂ)										
D (mm)		10	15	20	25	30	35	40	45	50	60	70	80
	4 044 30	1600	1200	800	600	400	350	300	250	250	-	-	-
	4 044 31	1600	1200	800	650	500	450	400	350	300	250	175	100
	4 044 32	1600	1200	800	650	500	450	400	350	300	250	175	100



Please follow the safety instructions p. 2-3

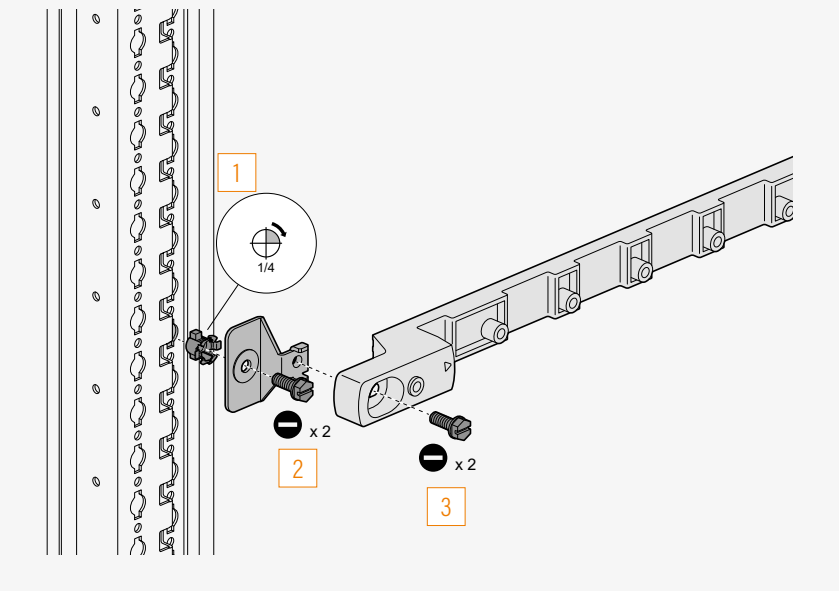
Insulating supports for copper busbars

BUSBAR SET IN ALIGNED POSITION.

These insulating supports allow the installation of flat Copper busbars in an aligned position:
- Cat. No 0SB24M400CU: vertically, directly on the functional uprights of 24-module enclosures
- Cat. No 0SBXX400CU: vertically on crosspieces Cat. No 2PR24 or 2PR36 for 24- and 36-module enclosures

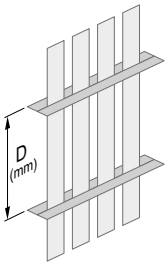
These supports are compatible with flat copper bars 18x4 mm, 25x5 mm, and 32x5 mm.

Cat. No 0SB24M400CU: installation on functional uprights.



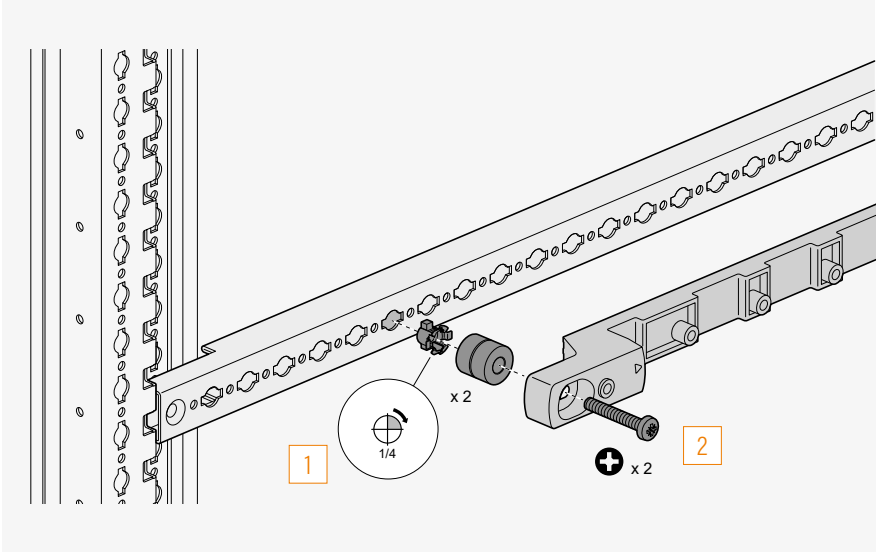
1. Insert the cage nuts into the functional uprights.
2. Fasten the mounting brackets using the supplied screws.
3. Fasten the insulating support using the supplied screws.

Maintain the distance between the insulating supports (see table below).



Icc	Ipk (kA)	D (mm)					
		0SB24M400CU (XL³ HP 630 24M)			0SBXX400CU (XL³ HP 630 36M)		
		0 374 34 (18 x 4 mm)	0 374 18 (25 x 5 mm)	0 374 19 (32 x 5 mm)	0 374 34 (18 x 4 mm)	0 374 18 (25 x 5 mm)	0 374 19 (32 x 5 mm)
6	10	700	1300	1500	700	1300	1500
9	15	650	1000	1000	650	1000	1000
12	20	500	750	900	500	750	900
15	25	450	600	700	450	600	700
18	30	375	500	600	375	500	600
24	40	275	350	450	275	375	450
29	50	225	300	350	225	300	350
35	60	175	250	250	175	250	300
41	70	150	200	150	150	200	250
47	80	-	150	150	-	150	250

Cat. No 0SBXX400CU: mounting on crosspieces



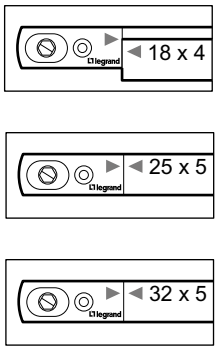
1. Insert the cage nuts into the functional uprights.
2. Secure the support using the end caps with the supplied screws.

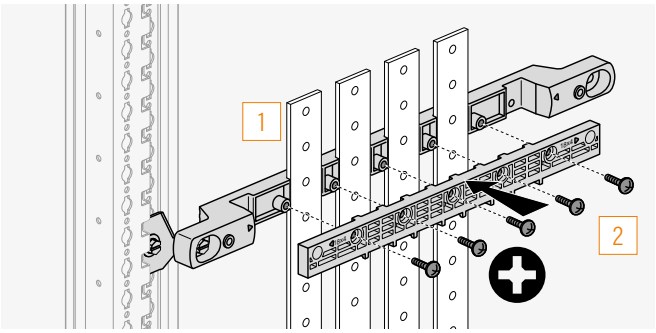
Ensure compliance with the required clearance distances from the crosspieces when connecting devices to the busbar (lugs, screws, Lexiclic distributor, etc.

Maintain the distance between the insulating supports (see adjacent table)

Installation of flat copper bars

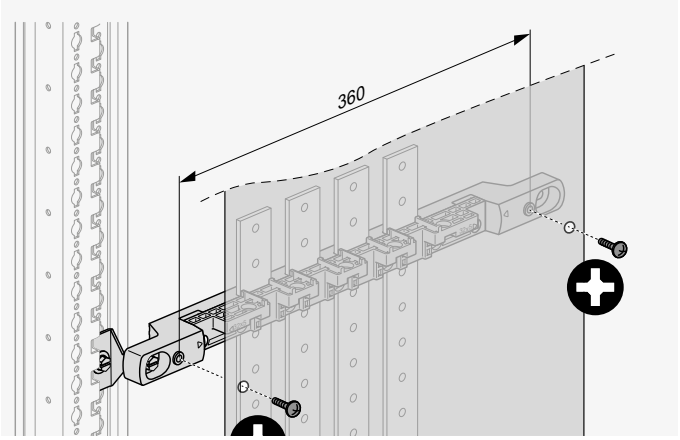
Depending on the section of the bars to be installed, the front part of the support must be rotated to comply with these positions:





1. Slide the flat copper bars into the insulating supports.
2. Screw the upper part back using the supplied screws.

Installation of a cover for busbar insulation



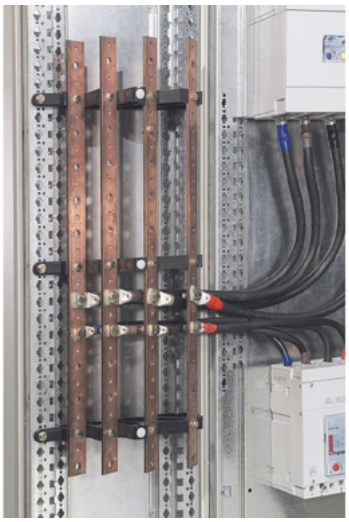
If necessary, a protective cover can be installed to restrict access to the copper bars.
The support is equipped with 2 fixing holes with a 360 mm center distance designed for this purpose (screws supplied).

It is also possible to insulate the flat copper bars with profile Cat. No 0 373 11 (p. 49)

Insulating supports for copper busbars (continued)

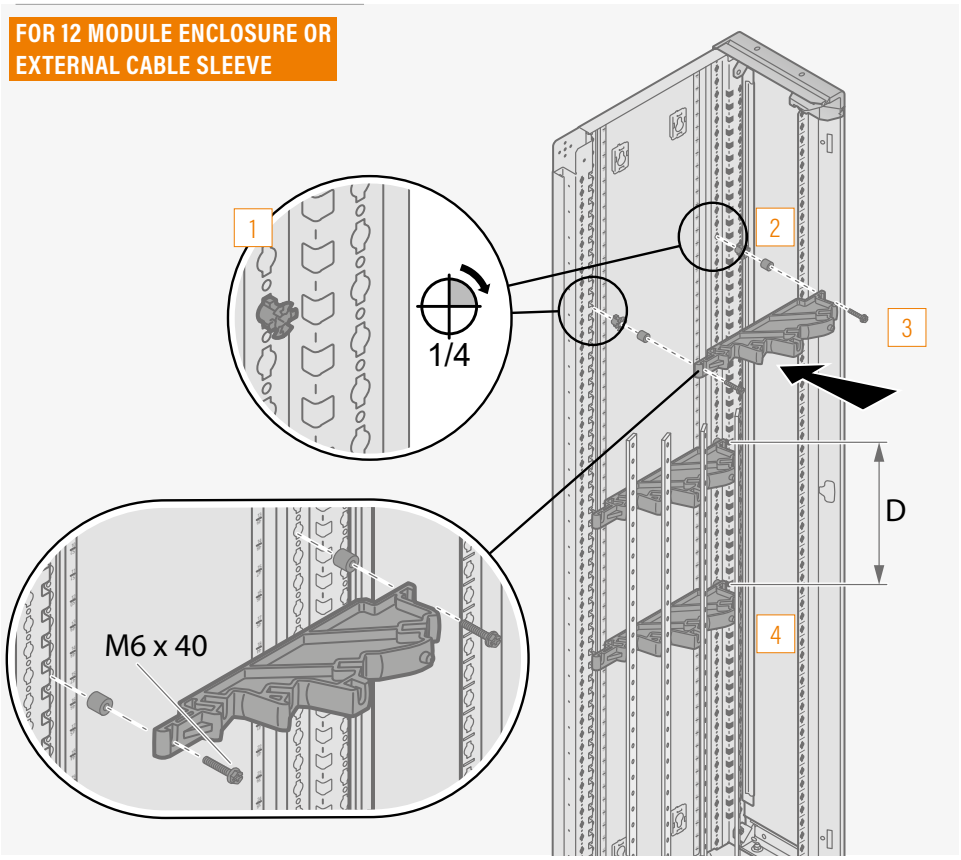
BUSBAR SET IN INCLINED POSITION

The insulating support Cat. No 0SBDXX400CU allows the installation of flat copper busbars in an inclined vertical position inside a 12-module enclosure (or external cable sleeve).
These supports are compatible with flat copper bars 18x4 mm, 25x4 mm, 25x5 mm, and 32x5 mm.

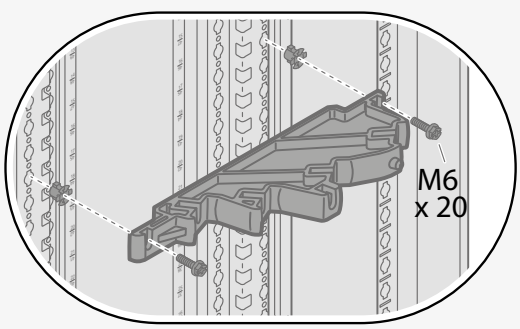


Cat. No 0SBDXX400CU: mounting on functional uprights

FOR 12 MODULE ENCLOSURE OR EXTERNAL CABLE SLEEVE

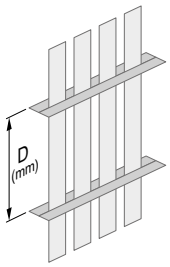


FOR INTERNAL CABLE SLEEVE



Maintain the distance between the insulating supports (see adjacent table).

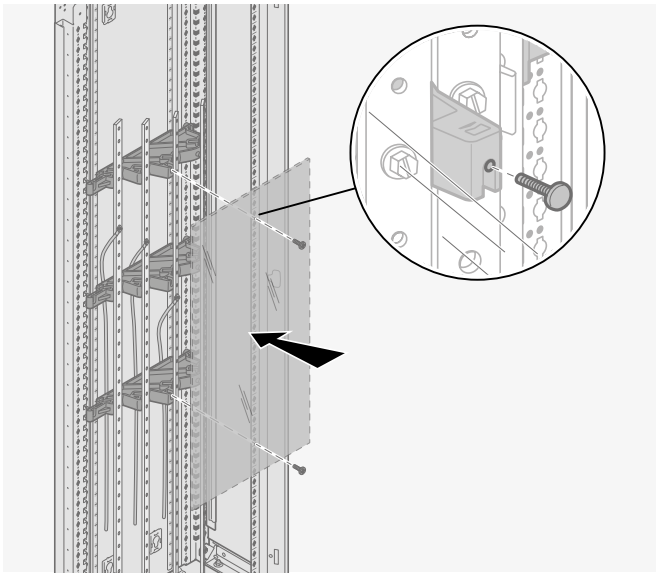
1. Insert the cage nuts on the functional uprights.
2. Position the insulating end caps.
3. Secure the insulating support using the supplied screws (M6 x 40 for installation in a 12-module enclosure or M6 x 20 without end cap for installation in an external cable sleeve).
4. Secure the other supports in the same way, ensuring the distances indicated in the adjacent table are respected.



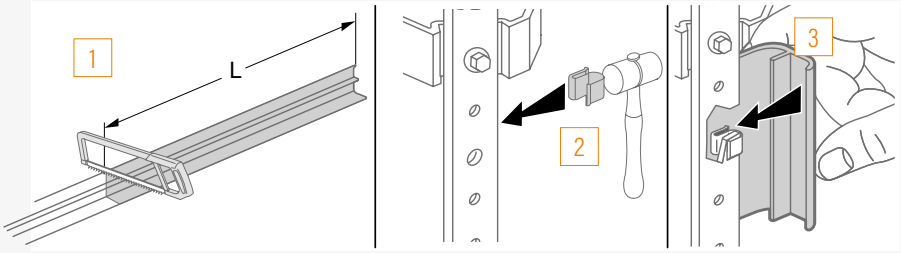
		D (mm)			
		0 374 34 (18 x 4 mm)	0 374 38 (18 x 4 mm)	0 374 18 (25 x 5 mm)	0 374 19 (32 x 5 mm)
Icc peak Ipk (kA)	10	550	650	800	900
	15	400	600	700	800
	20	300	450	550	700
	25	250	350	400	500
	30	200	300	350	400
	35	150	250	300	350
	40	150	200	300	300
	45	-	150	200	200
	50	-	150	175	100
	55	-	100	150	100
	60	-	-	150	-

Installation of a cover for busbar insulation

If necessary, a protection can be installed to restrict access to the copper busbars.
The cover can be secured to the upper part of the insulating support using screws (not supplied).



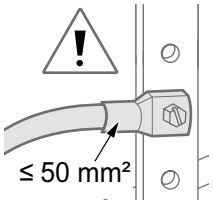
Installation of insulating profile Cat. No 0 373 11 for flat copper busbars



1. Cut the profile Cat. No 0 373 11 to the required length between the insulating supports.
2. Position the support on the flat copper bar.
3. Clip the Cat. No 0 373 11 profile onto the flat copper bar.

Lugs for connection on Copper bars:

In the case of an installation without the insulating profile Cat. No 0 373 11, the lugs must have a cross-section ≤ 50 mm²



In the case of an installation with the insulating profile Cat. No 0 373 11, the lugs must have a cross-section ≤ 70 mm²

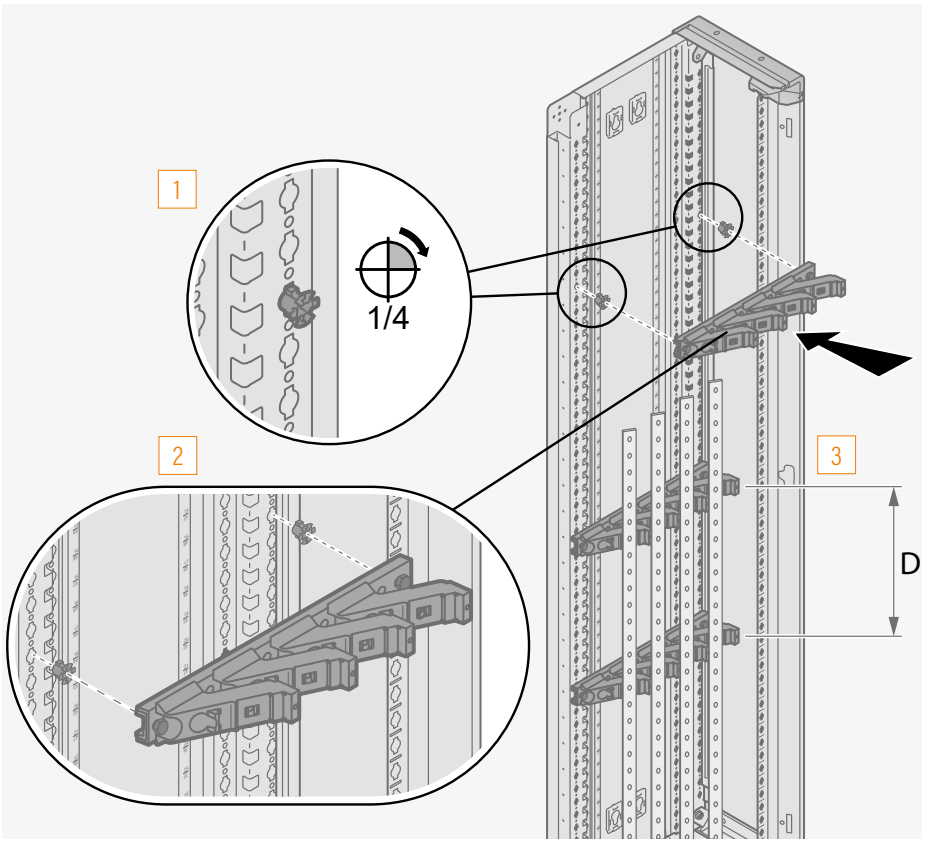
Insulating supports for copper busbars (continued)

BUSBAR SET IN INCLINED POSITION

The insulating support Cat. No 0SBXX800CU allows the installation of flat copper busbars in an inclined position:
- vertically on functional uprights in 12-module enclosures or external cable sleeves
- horizontally on functional uprights in 24-module enclosures

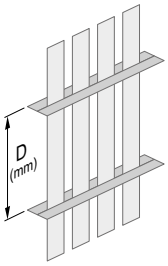
These supports are compatible with flat copper bars 18x4 mm, 25x5 mm, 32x5 mm, 50x5 mm and 63x5 mm.

Cat. No 0SBXX800CU: busbar set in a vertical position in 400-mm-wide enclosures



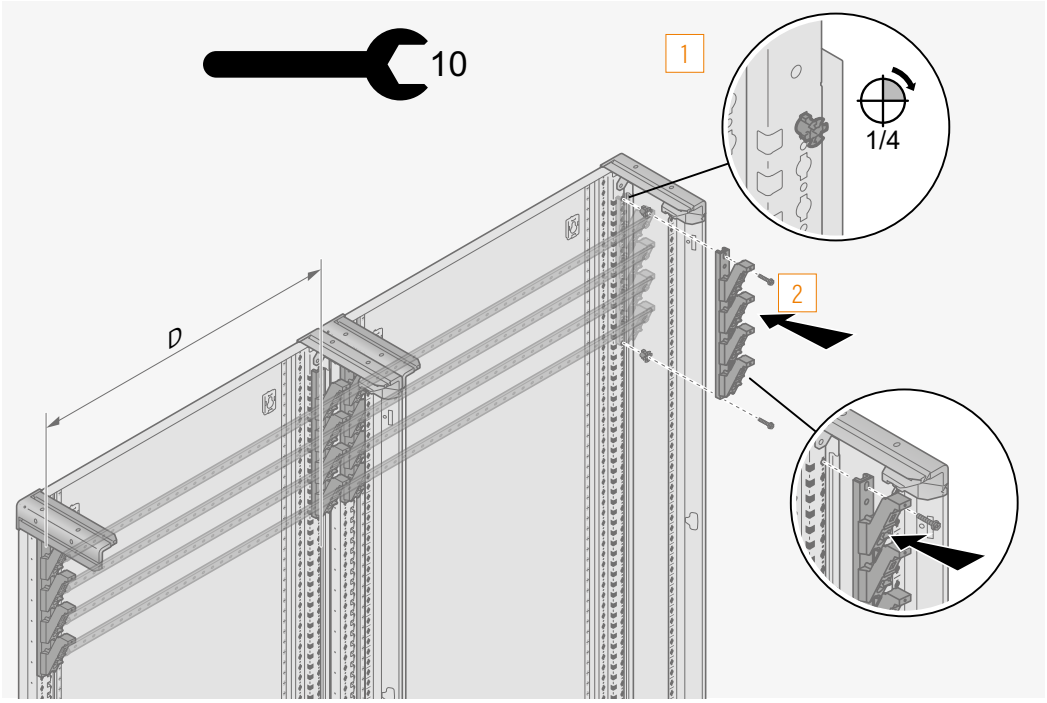
1. Insert the cage nuts onto the functional uprights.
2. Secure the insulating support using the mounted screws.
3. Fix the other supports using the same method, respecting the distances indicated in the table below.

Maintain the distance between the insulating supports (see table below).



		D (mm)				
		0 374 34 (18 x 4 mm)	0 374 18 (25 x 5 mm)	0 374 19 (32 x 5 mm)	0 374 40 (50 x 5 mm)	0 374 41 (63 x 5 mm)
Icc peak Ipk (kA)	10	800	800	900	-	-
	15	400	600	600	700	800
	20	300	450	500	600	700
	25	250	350	400	500	550
	30	225	300	350	400	450
	35	200	250	300	350	400
	40	175	200	250	275	300
	45	150	200	200	225	250
	50	150	150	150	200	200
	60	125	125	125	150	150
	70	100	100	100	150	150
	80	-	-	-	-	100
	90	-	-	-	-	-

Cat. No 0SBXX800CU: busbar set in horizontal position in enclosures with a width of 600 mm or 800 mm

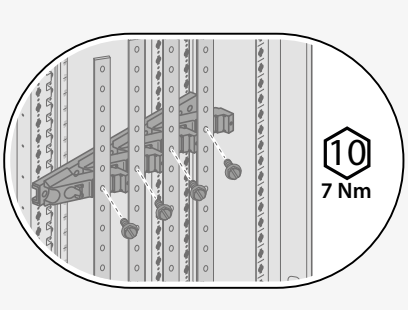


1. Insert the cage nuts onto the functional uprights.
2. Secure the insulating support using the mounted screws.
3. Secure the other supports in the same way, ensuring the distances indicated in the adjacent table are respected.

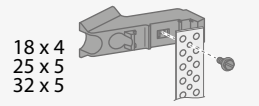
To maintain the distances between the insulating supports, use crosspieces Cat. No 2PR24 or 2PR36.

Assembly of flat copper bars

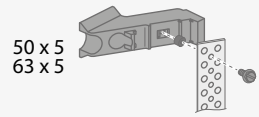
1. Slide the flat copper bars into the insulating supports.
2. Secure them with the 4 supplied screws.



Depending on the bars to be installed, fastening to the supports is done using the 4 supplied M6 screws.

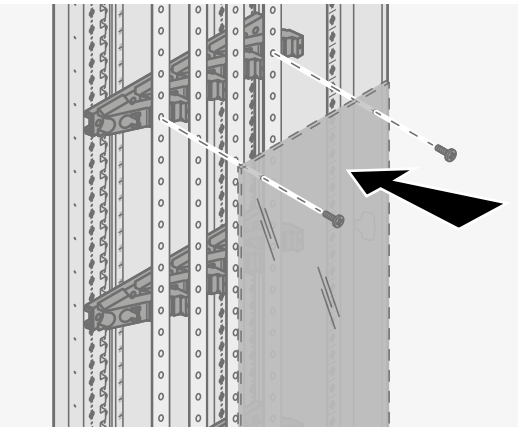


Copper bars 50 x 5 and 63 x 5 mm require the use of the supplied insulating covers.



Installation of a cover for bar insulation

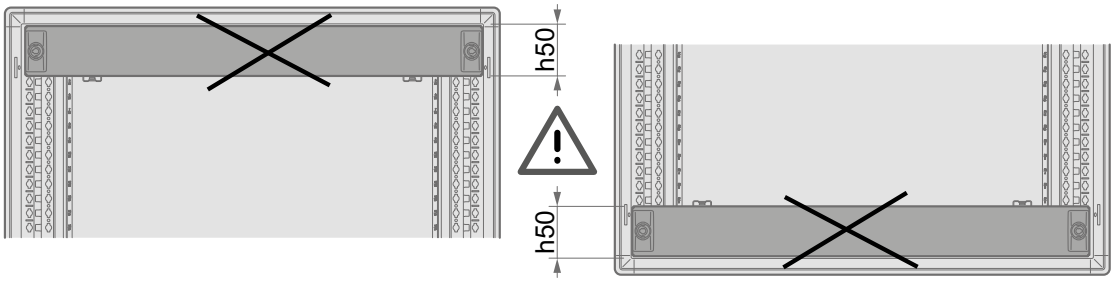
If necessary, a protective cover can be installed to restrict access to the copper bars.
The cover can be secured to the upper part of the insulating support using the 2 supplied screws.



FINISH ASSEMBLY

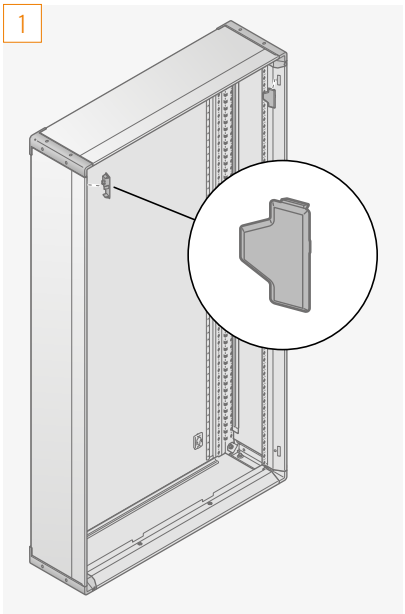
Assembly of faceplates

Once the interventions inside the enclosure have been completed, the metal faceplates must be installed on the frame of the enclosure to achieve IP 30. All faceplates must be fitted with quarter-turn fasteners Cat. No 0KQT and are sealable.

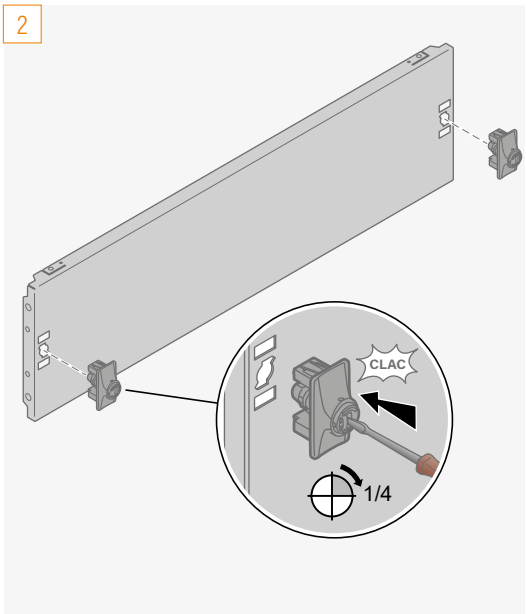


⚠ It is not possible to install a 50 mm high faceplate at the top or bottom of an XL³ HP 630 enclosure or cabinet. Installing a 200 mm high faceplate with off center window may allow you to meet this configuration

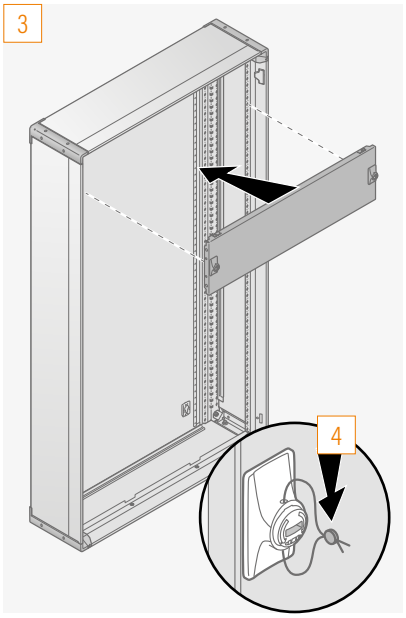
ASSEMBLY OF METAL FACEPLATES WITH QUARTER-TURN FASTENERS



1. Before installing the faceplates, insert the blanking plates onto the enclosure frame.



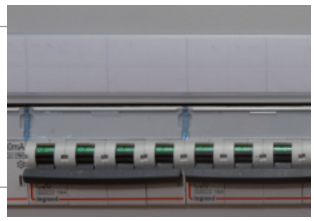
2. Insert the quarter-turn fasteners Cat. No 0KQT.



3. Secure the faceplate to the enclosure by locking the quarter-turn fastener.
4. Once locked (horizontal position), the faceplate fasteners can be sealed if necessary.

+

It is possible to add marker holders Cat. No 3 397 55 (24 modules) or 3 397 56 (36 modules) on the faceplates. They are supplied with sets of labels and provide additional marking alongside the label holders of the modular devices.

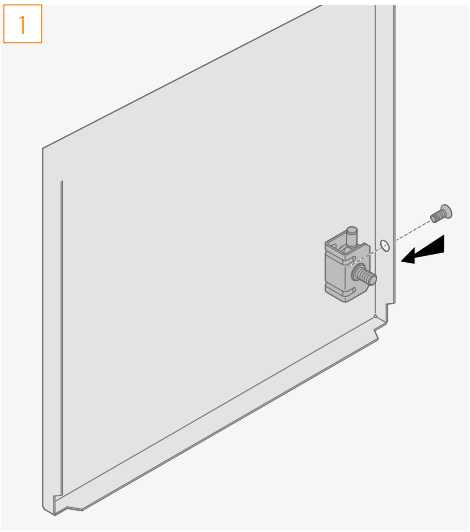


Assembly of faceplates (continued)

ASSEMBLY OF A SOLID FACEPLATE FOR EXTERNAL OR INTERNAL CABLE SLEEVES

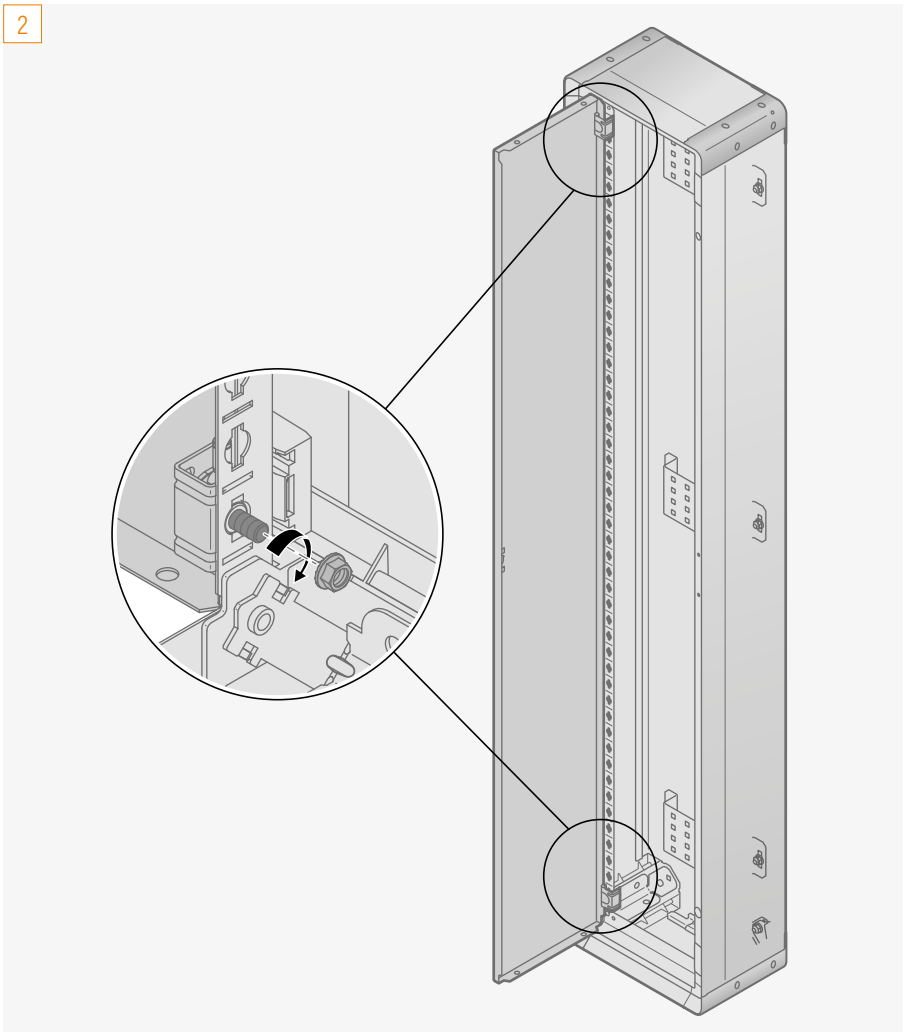
The assembly principle of the solid faceplate is identical for external or internal cable sleeves.
- Cat. No 2PF075VI/090VI/105VI/120VI/135VI/150VI/165VI (up to a height of 1650 mm), for internal cable sleeves, supplied with 2 hinges and 2 quarter-turn fasteners.
For a height of 1800 mm, combine 2 faceplates Cat. No 2PF090VI; for a height of 1950 mm, combine faceplates Cat. No 2PF090VI + 2PF105VI.
- Cat. No 2PF07512/09012/10512/12012/13512/15012/16512 (up to a height of 1650 mm), for external cable sleeves, supplied with 2 hinges (for heights ≤ 1350 mm), 3 hinges (for heights ≥ 1500 mm) and 2 quarter-turn fasteners.
For a height of 1800 mm, combine 2 faceplates Cat. No 2PF09012; for a height of 1950 mm, combine faceplates Cat. No 2PF09012 + 2PF10512.

1



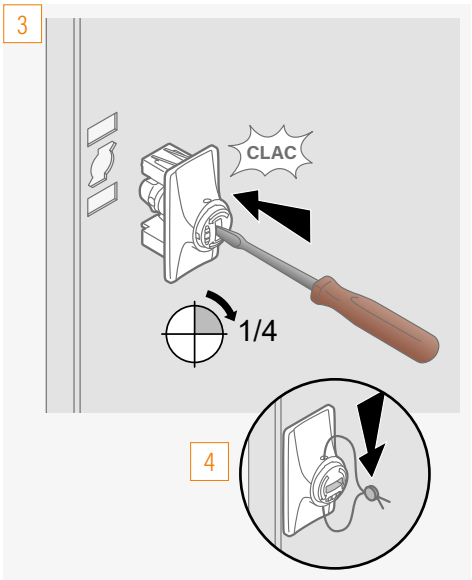
1. Insert the hinges onto the faceplate and screw them at the top, bottom, and in the center of the solid panel.

2



2. Secure the nut onto the faceplate bracket of the cable sleeve.

3



4

3. Insert the quarter-turn fasteners and lock the faceplate.
4. Once locked (horizontal position), the faceplate fasteners can be sealed if necessary.

For heights of 1800 mm and 1950 mm, combine either two faceplates of 900 mm height or one faceplate of 1050 mm and another of 900 mm, according to this assembly principle.

Equipotential bonding

OF THE FRAME.

It is not necessary to connect the enclosure frame to Earth; grounding is automatic.

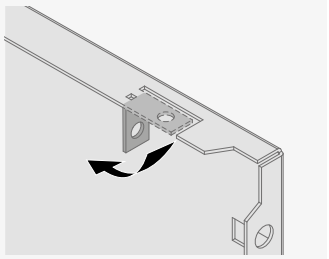
OF THE FACEPLATE

In case of installation of a measuring device or a Control and Signaling Auxiliary (ACS) with voltage U > 50 V, the faceplate must be connected to Earth.

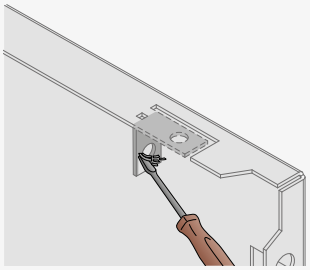
Standard reminder: it is necessary to indicate the presence of an electrical hazard, for example by applying a sticker on the faceplate.

Multi-profile screw

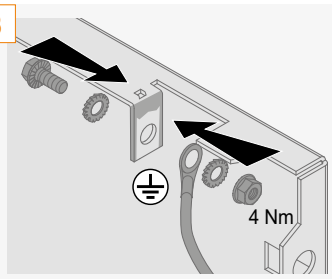
1



2



3



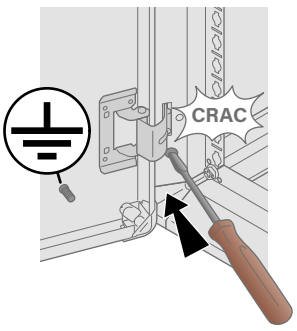
1. Fold a tab on the top or bottom of the faceplate.
2. Remove the paint from the tab using a flat tool to allow grounding.
3. Insert and secure the equipotential bonding conductor Cat. No 0CMT.

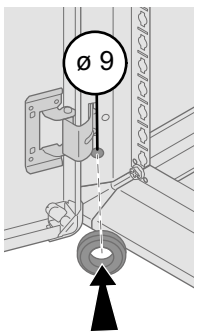
The diameter of the connection hole for the equipotential bonding is 4 mm.

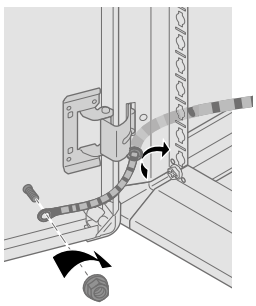
OF THE DOOR

In case of installation of a measuring device or a Control and Signaling Auxiliary (ACS) with voltage U > 50 V on the door, the door must be connected to ground.

1. The enclosure frame is pre-drilled to accommodate the bonding conductor.
2. Insert the supplied Ø9 mm gasket with the door.
3. Connect the equipotential bonding conductor Cat. No 0CMR.







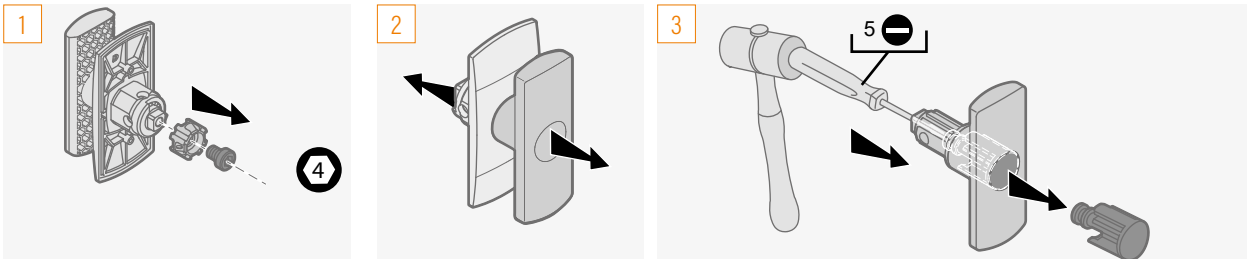
Standard reminder: the concerned door must be identified using an electrical hazard warning label.

Installation of doors with height ≤ 1350 mm

ASSEMBLY OF THE CYLINDER ON THE HANDLE (OPTIONAL)

The doors are supplied with a quarter-turn handle to be assembled and can be fitted with interchangeable cylinders.
The assembly steps are identical regardless of the door type (flat metal or glass).

Step 1: Handle disassembly

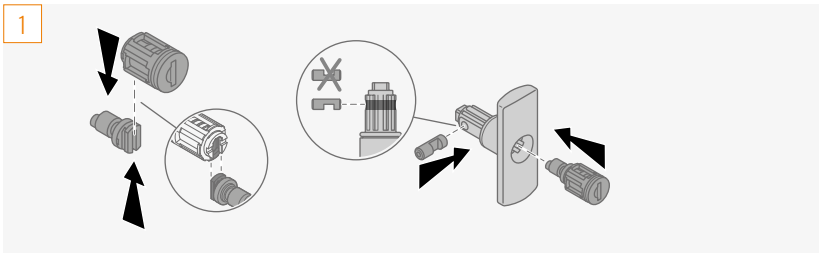


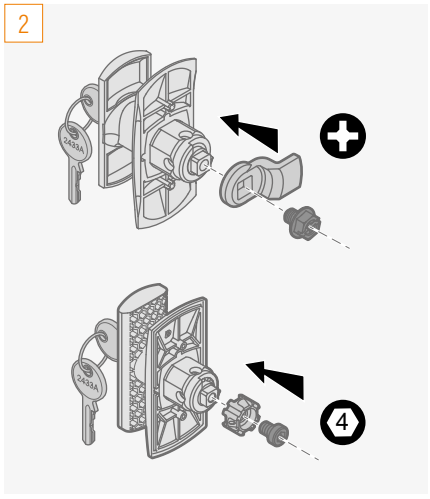
1. Remove the handle support.
2. Separate the components (handle and support).
3. Remove the handle plug.

It is possible to install the lock cylinders with the handle already mounted on the door.

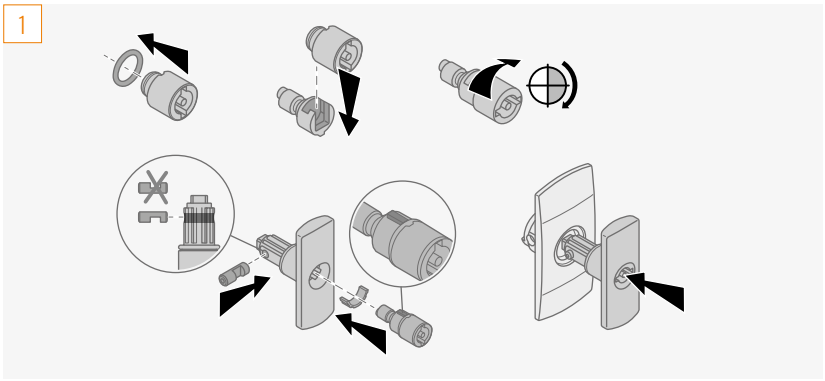
Step 2: Cylinder installation

Key cylinder Cat. Nos 2CLKT405 / 2CLKT455 / 2CLKT1242E / 2CLKT2433A





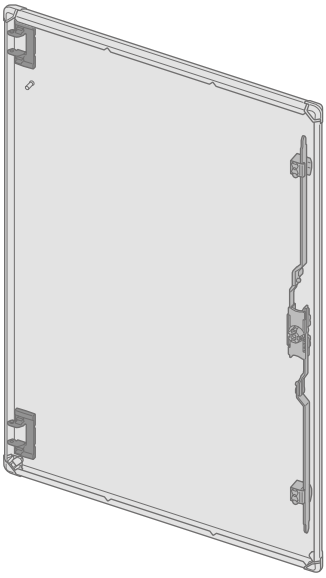
Double-bit cylinder Cat. No 2CLKTDB

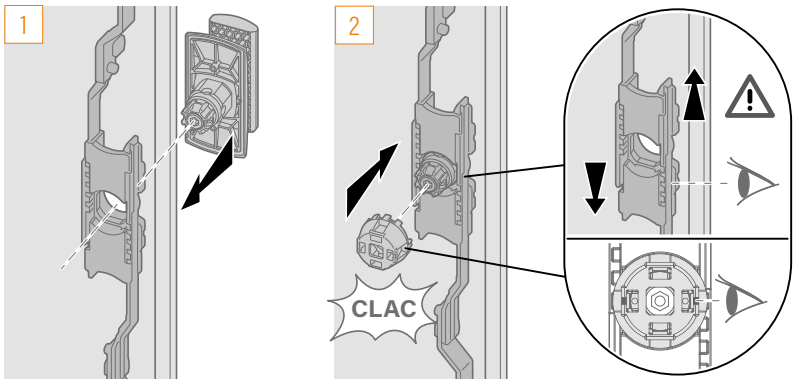


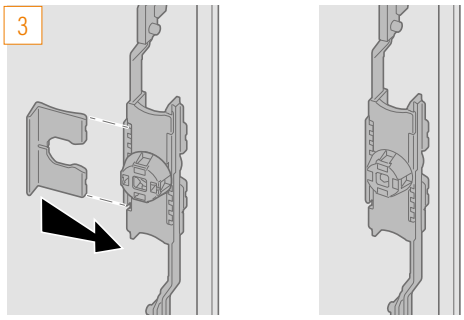
1. Clip the adapter onto the rear of the cylinder.
   Position the locking accessory in the correct orientation and insert the assembly into the front part of the handle.
   Fit the handle support onto the front part.
2. Secure the assembly at the rear of the handle using a nut (depending on the handle type)

Installation of doors with height ≤ 1350 mm (continued)

HANDLE INSTALLATION ON DOOR





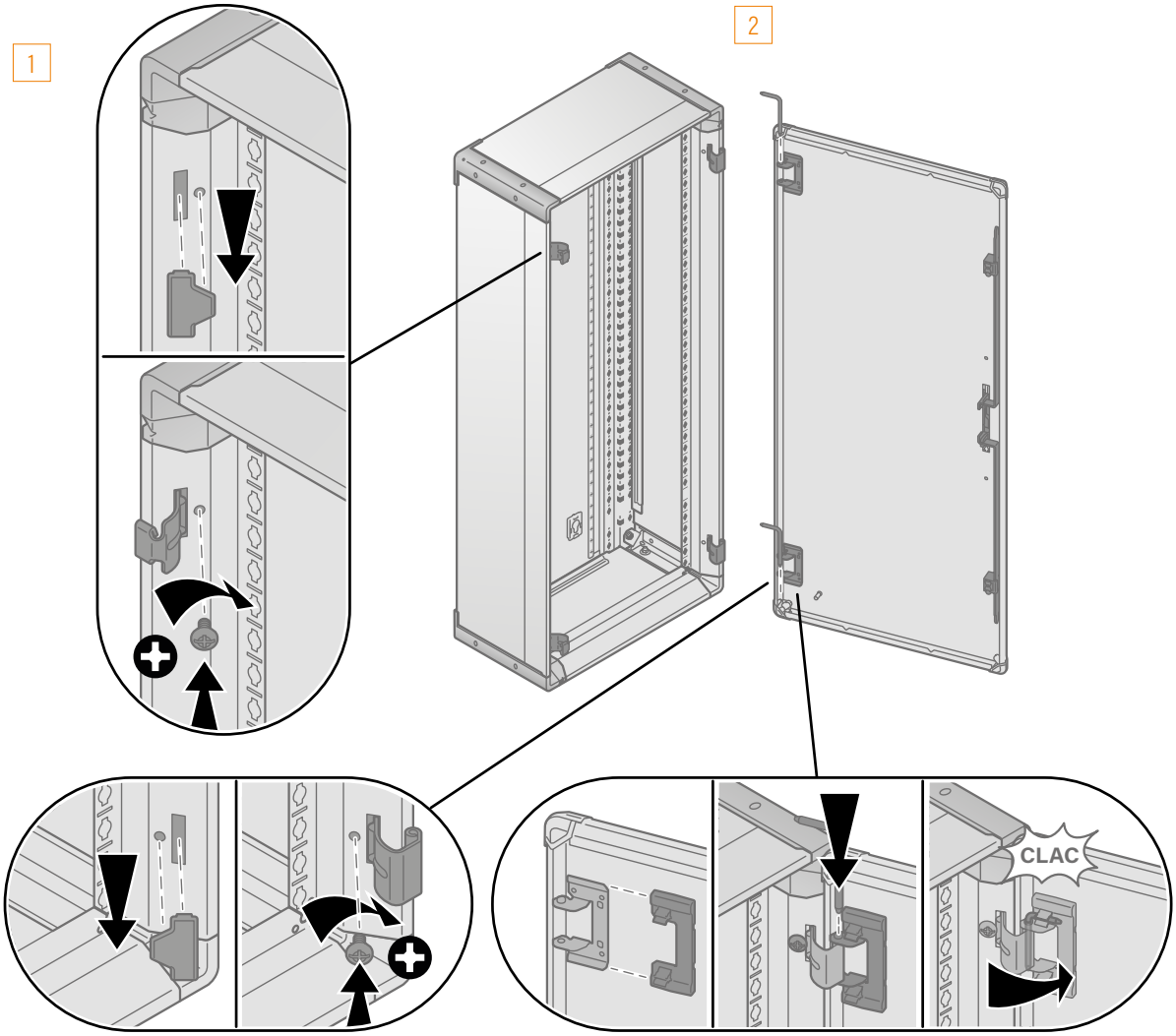


1. Slide the handle onto the outer face of the door
2. Position the metal bracket on the inner face of the door.
3. Secure the assembly with the nut.

DOOR INSTALLATION

The doors are reversible and can be installed left- or right-hand
The assembly steps are identical regardless of the door type and size (metal or glass).
Enclosures with a height ≤ 1350 mm are supplied with 4 hinges.

The door opening direction determines the hinge mounting side



1. Remove the blanking plugs and install the 3 hinges in place of the plugs using the supplied screws.
2. Slide the linking part inside the door, align it with the hinges, and secure the assembly using the supplied pin.

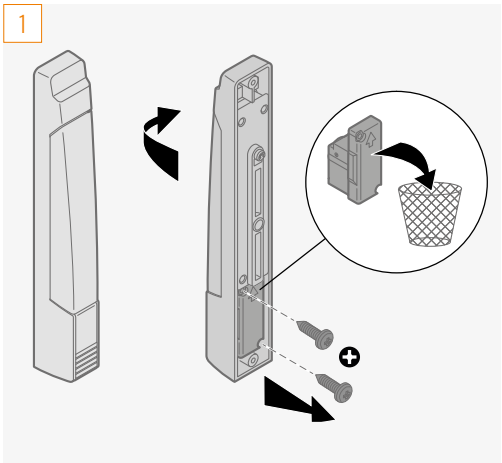
FINISH ASSEMBLY

Door assembly for height ≥ 1500 mm

HANDLE CYLINDER INSTALLATION (OPTIONAL)

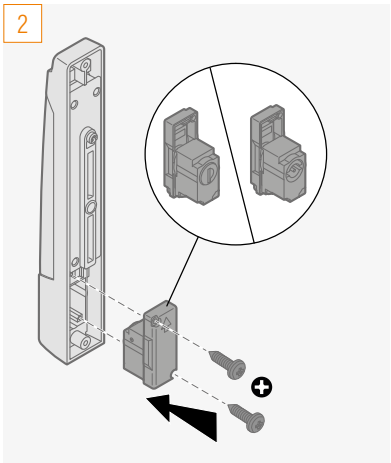
The handle is equipped with a push button as standard.
The lever handle is compatible with:
- key cylinders Cat. Nos 0CLKB405 / 0CLKB421 / 0CLKB455 / 0CLKB1242E / 0CLKB2433A / 0CLKB3113, supplied with 2 keys,
- the double-bit cylinder Cat. No 0CLKBDB, supplied with 1 key.

1



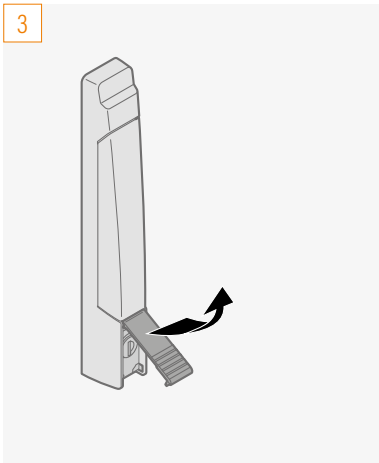
1. Unscrew the blanking plug from the rear of the handle.

2



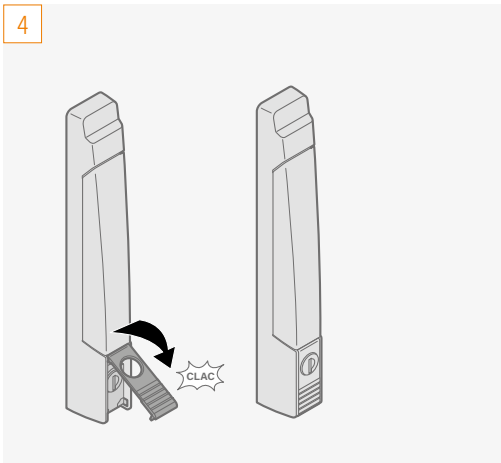
2. Insert the cylinder in place.

3



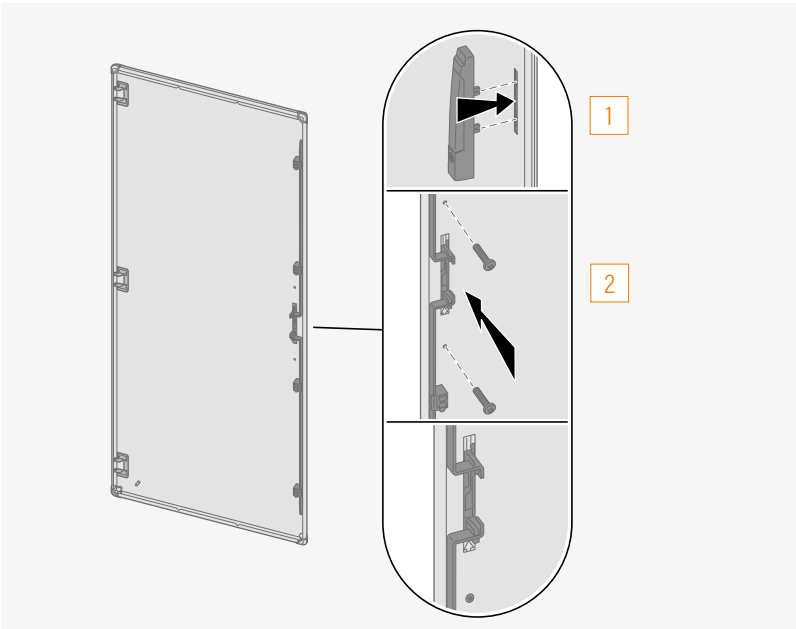
3. Remove the original blanking plug.

4



4. Fit the blanking plug supplied with the cylinder.

HANDLE INSTALLATION ON DOOR



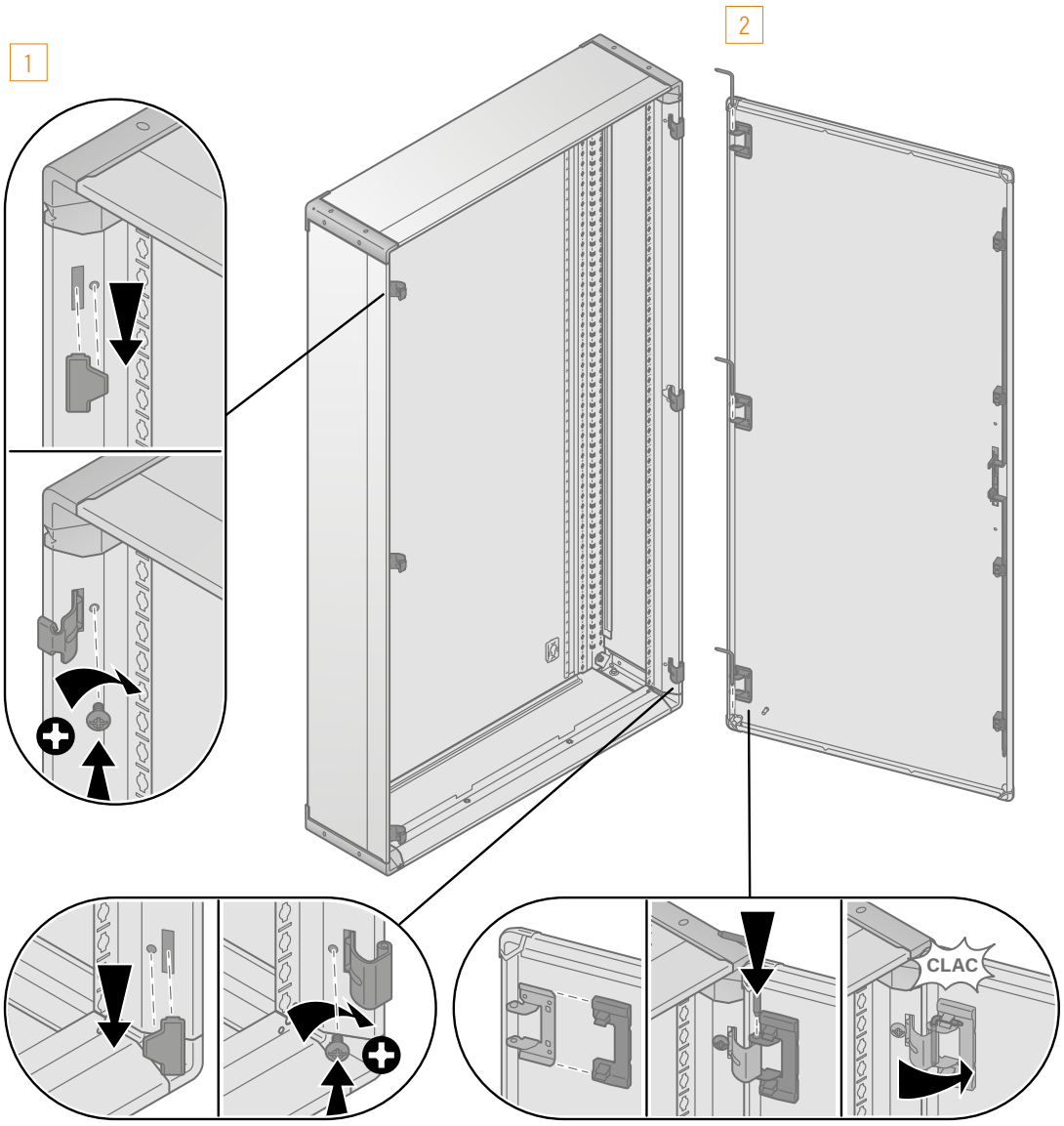
1. Insert the handle into the outer face of the door.
2. Position the handle notches on the mounting rail.
   Secure the handle with the 2 supplied screws on the inner face of the door, in the 2 pre-drilled holes.

DOOR ASSEMBLY

The doors are reversible and can be installed left- or right-hand.
The assembly steps are identical regardless of the door type and size (metal or glass).

Enclosures with a height ≥ 1500 mm are supplied with 6 hinges.

The door opening direction determines the hinge mounting side.

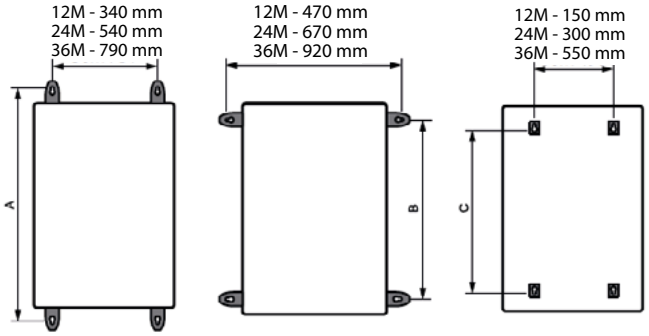


1. Remove the blanking plugs and install the 3 hinges in place of the plugs using the supplied screws.
2. Slide the linking part inside the door, align it with the hinges, and secure the assembly using the supplied pin.

Fixing

TWO TYPES OF FASTENING ARE POSSIBLE

EXTERNAL FIXINGS | INTERNAL FIXINGS

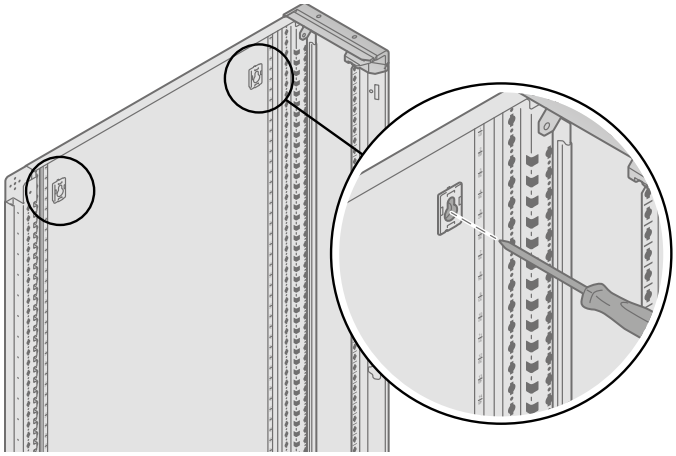


Enclosure height (mm)	A (mm)	B (mm)	C (mm)
806	876	746	617
956	1026	896	767
1106	1176	1046	917
1256	1326	1196	1067
1406	1476	1346	1217
1556	1626	1496	1367
1706	1776	1646	1517
1856	1926	1796	1667
2006	2076	1946	1817

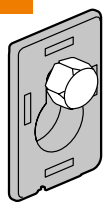
Fastening in the case of coupling or an external cable sleeve:
use the dimensions given in the table above, which apply to each enclosure and must be duplicated in the case of coupling or an external cable sleeve (see dimensions for 12 modules)

INTERNAL FIXING INSIDE THE ENCLOSURE

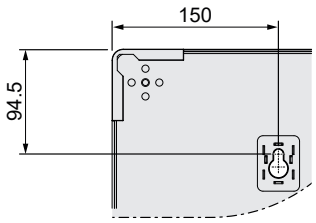
XL³ HP 630 enclosures feature 4 internal fixing points.



1. Punch out the elongated holes.
2. Secure the enclosure using 4 Ø 6 mm screws and washers (not supplied).

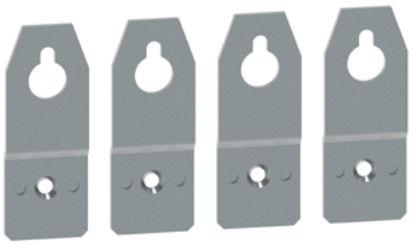


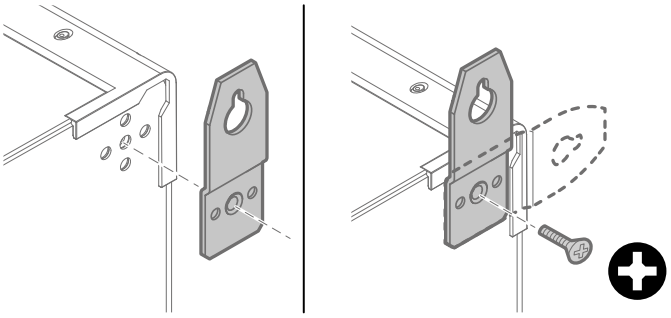
The elongated holes allow the enclosures to be hung and removed.



EXTERNAL FIXING USING FIXING BRACKETS CAT. NO 2KFM

The wall-mounting brackets Cat. No 2KFM can be installed horizontally or vertically on the rear of the enclosure.
The required fasteners are supplied.





1. Remove the plug from the rear of the enclosure.
2. Secure the brackets vertically or horizontally using the supplied screws.

⚠ Do not use these fixing brackets for lifting the enclosure

IP55 ENCLOSURES

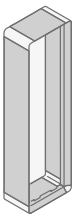
PRESENTATION

XL³ HP 630 IP55 metal enclosures and cabinets are housings with optimized dimensions for power distribution up to 630 A, suitable for indoor use in environments requiring a high degree of protection. Several combinations are possible thanks to the availability of multiple widths:

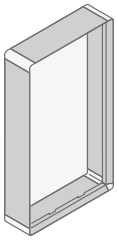
They are divided into:

- enclosures or cabinets to be equipped with 12 modules/row, 24 modules/row or 36 modules/row,
- external cable sleeves, 12 modules/row,
- internal cable sleeves for enclosures or cabinets, 36 modules/row width.

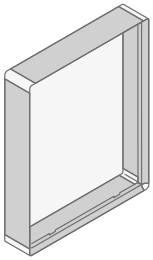
A SINGLE RANGE, MULTIPLE POSSIBLE COMBINATIONS



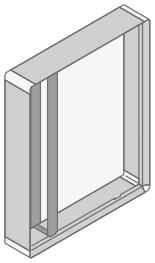
12 modules



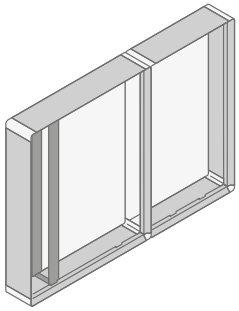
24 modules



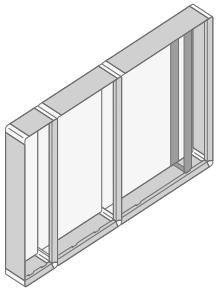
36 modules



Internal cable sleeve



Internal cable sleeve and coupled enclosures



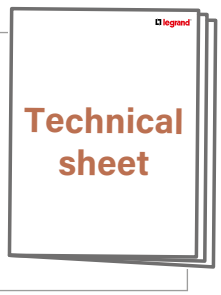
External cable sleeve, coupled enclosures with internal cable sleeve

KEY POINTS

- IP 55 - IK 08 with door
- RAL 7035
- Short-circuit withstand rating Icc : 50 kA
- Rated short-time withstand current (Icw) : 36 kA for 0.5 s with aluminium busbars.
- Comply with the requirements of standards EN IEC 61439-1 and EN IEC 61439-2
- Fire resistance according to IEC 6095-2-11 : 750°C
- Suitable for installation in public-access buildings and workplace buildings

Not suitable for outdoor use without shelter.

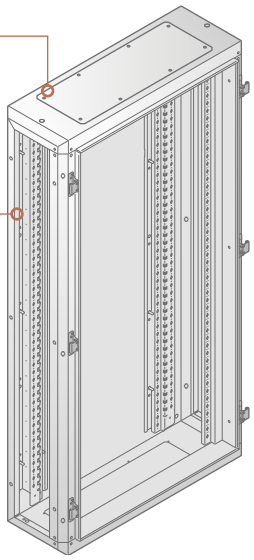
Technical datasheet available for further information on installation locations, prosleeve resistance, etc.
► check the online catalog at legrand.com



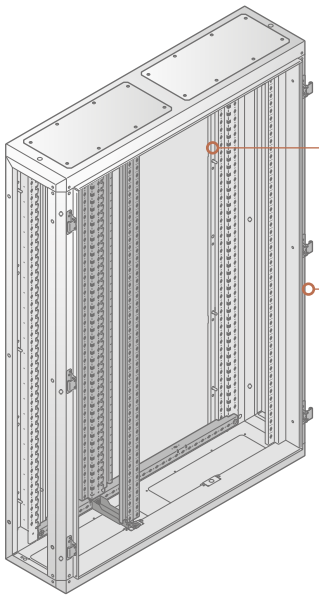
ENCLOSURES AND INTERNAL CABLE SLEEVES

Wall mounting by fixing lugs attached externally to the enclosure

To be fitted with screw-on side panels



24 modules/row

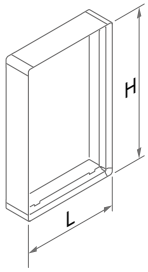


36 modules/row with internal cable sleeve

Welded structure supplied with base panel and fixed functional uprights

2 door finishes[1] :
- flat metal
- flat glass

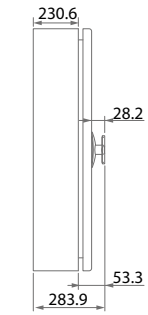
[1] Door not shown



DISTRIBUTION ENCLOSURES TO BE EQUIPPED

	24 modules/row				36 modules/row			
Faceplate height (mm)	750	900	1050	1200	750	900	1050	1200
Overall height (mm)	846	996	1146	1296	846	996	1146	1296
Width × depth without door (mm)	706 x 230.6				956 x 230.6			
References	2AR07524IP55	2AR09024IP55	2AR10524IP55	2AR12024IP55	2AR07536IP55	2AR09036IP55	2AR10536IP55	2AR12036IP55

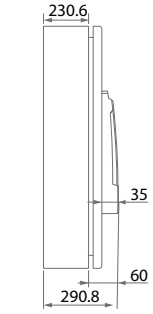
1/4-turn handle

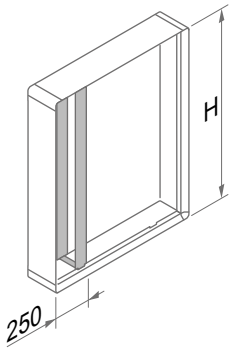


DOORS

Flat metal	2PC07524	2PC09024	2PC10524	2PC12024	2PC07536	2PC09036	2PC10536	2PC12036
Flat glass	2PV07524	2PV09024	2PV10524	2PV12024	2PV07536	2PV09036	2PV10536	2PV12036

Lever handle



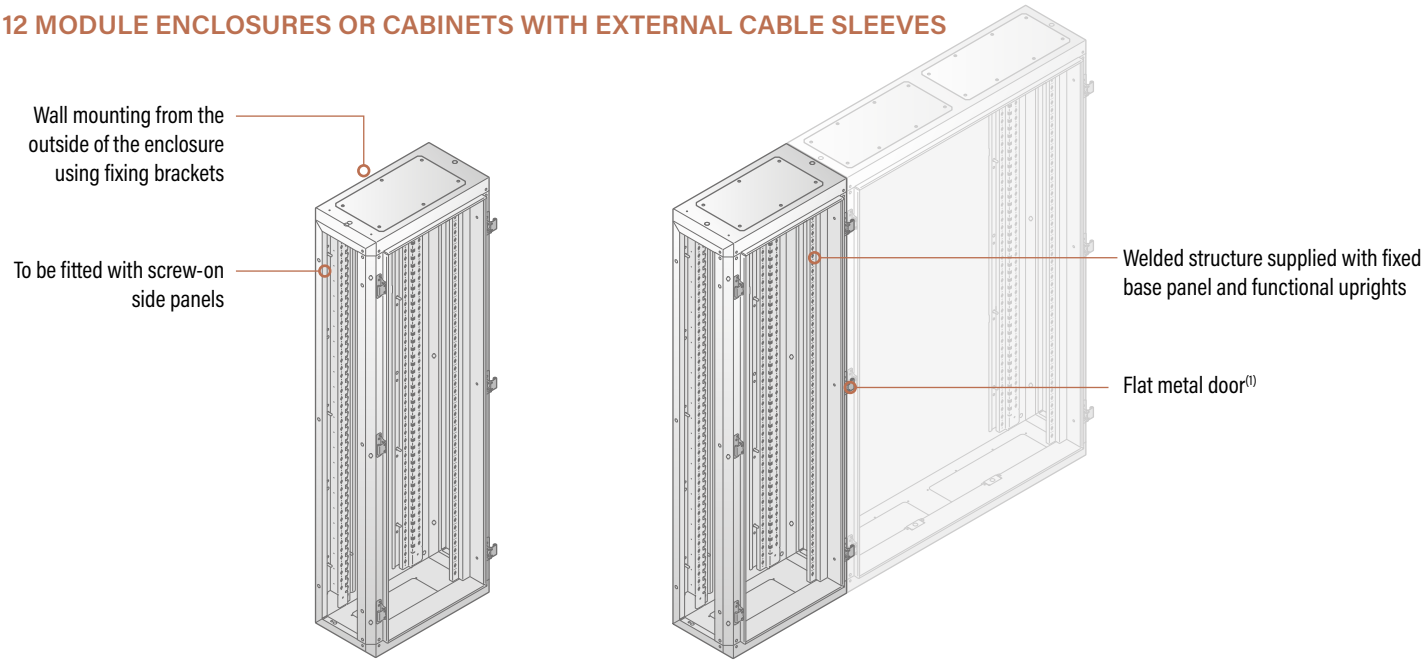


INTERNAL CABLE SLEEVES FOR 36-MODULE/ROW ENCLOSURES

Faceplate height (mm)	750	900	1050	1200
Overall height (mm)	846	996	1146	1296
References	2VI075	2VI090	2VI105	2VI120

PRESENTATION

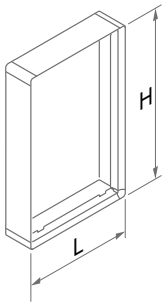
12 MODULE ENCLOSURES OR CABINETS WITH EXTERNAL CABLE SLEEVES



12 modules/row

External cable sleeve

(1) Door not shown



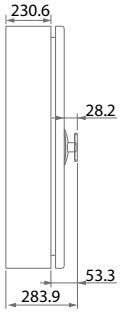
EXTERNAL CABLE SLEEVES OR REDUCED-WIDTH DISTRIBUTION ENCLOSURES/CABINETS

	12 modules/row								
Faceplate height (mm)	750	900	1050	1200	1350	1500	1650	1800	1950
Overall height (mm)	846	996	1146	1296	1446	1596	1746	1896	2046
Width × depth without door (mm)	506 x 230.6								
References	2AR07512IP55	2AR09012IP55	2AR10512IP55	2AR12012IP55	2AR13512IP55	2AR15012IP55	2AR16512IP55	2AR18012IP55	2AR19512IP55

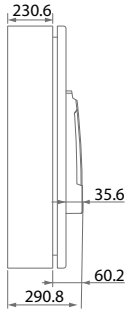
DOORS

Flat metal	2PC07512	2PC09012	2PC10512	2PC12012	2PC13512	2PC15012	2PC16512	2PC18012	2PC19512

1/4-turn handle



Lever handle



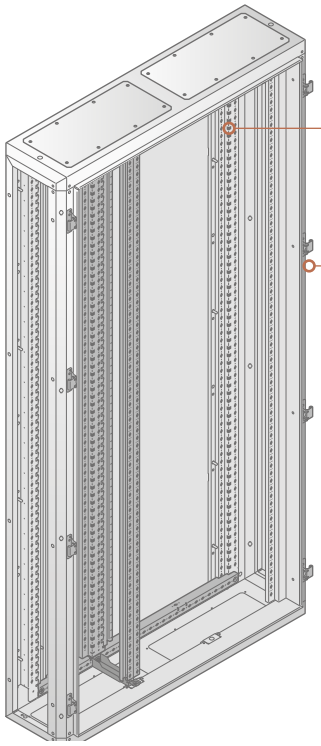
PEP sheets available, for more information on the prosleeve's environmental profile
► check the online catalog at legrand.com

ENCLOSURES WITH OR WITHOUT INTERNAL CABLE SLEEVES

Wall mounting from the outside of the enclosure using fixing brackets

To be equipped with screw-on side panels

24 modules/row



Welded structure delivered with back and functional uprights fixed

2 door finishes[1] :
- flat metal
- flat glass

36 modules/row with internal cable sleeve

[1] Door not shown

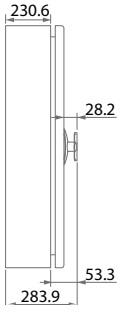
DISTRIBUTION ENCLOSURES TO BE EQUIPPED

	24 modules/row					36 modules/row				
Faceplate height (mm)	1350	1500	1650	1800	1950	1350	1500	1650	1800	1950
Overall height (mm)	1446	1596	1746	1896	2046	1446	1596	1746	1896	2046
Width × depth without door (mm)	706 x 230.6					956 x 230.6				
References	2AR13524IP55	2AR15024IP55	2AR16524IP55	2AR18024IP55	2AR19524IP55	2AR13536IP55	2AR15036IP55	2AR16536IP55	2AR18036IP55	2AR19536IP55

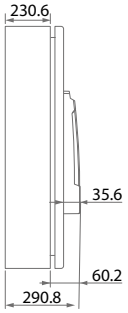
DOORS

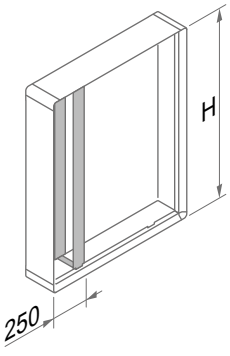
Flat metal	2PC13524	2PC15024	2PC16524	2PC18024	2PC19524	2PC13536	2PC15036	2PC16536	2PC18036	2PC19536
Flat glass	2PV13524	2PV15024	2PV16524	2PV18024	2PV19524	2PV13536	2PV15036	2PV16536	2PV18036	2PV19536

1/4-turn handle



Lever handle





INTERNAL CABLE SLEEVES FOR 36-MODULE-PER-ROW CABINETS

Faceplate height(mm)	1350	1500	1650	1800	1950
Overall height (mm)	1446	1596	1746	1896	2046
References	2VI135	2VI150	2VI165	2VI180	2VI195

ENCLOSURE ASSEMBLY

XL³ HP 630 IP 55 enclosures are composed of:
- a welded structure, delivered with back and functional uprights fixed
- top and bottom cable entry plates (number varies according to the enclosure width).
- wall mounting brackets

Dedicated side panels (IP 55) must be added

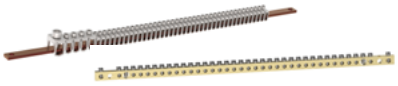
The installation of equipment or devices inside the cabinet or enclosure is identical to IP 30 enclosures:

- Base assembly ► p. 16-17

- Device mounting on rail and plate ► p. 18-23

- Equipment assembly ► p. 24-34

crosspiece p. 24



flat terminal block and brass bar p. 25-26

horizontal support p. 27

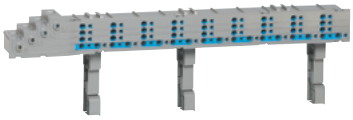
vertical support p. 28-29

trunking support p. 30-31

cable fixing crosspiece p. 34

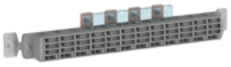
- Distribution system ► p. 35-49

vertical distributor VX³ p. 35



horizontal distributor HX³ p. 36

horizontal distributor HX³ auto p.38



horizontal distributor Lexiclic p. 39

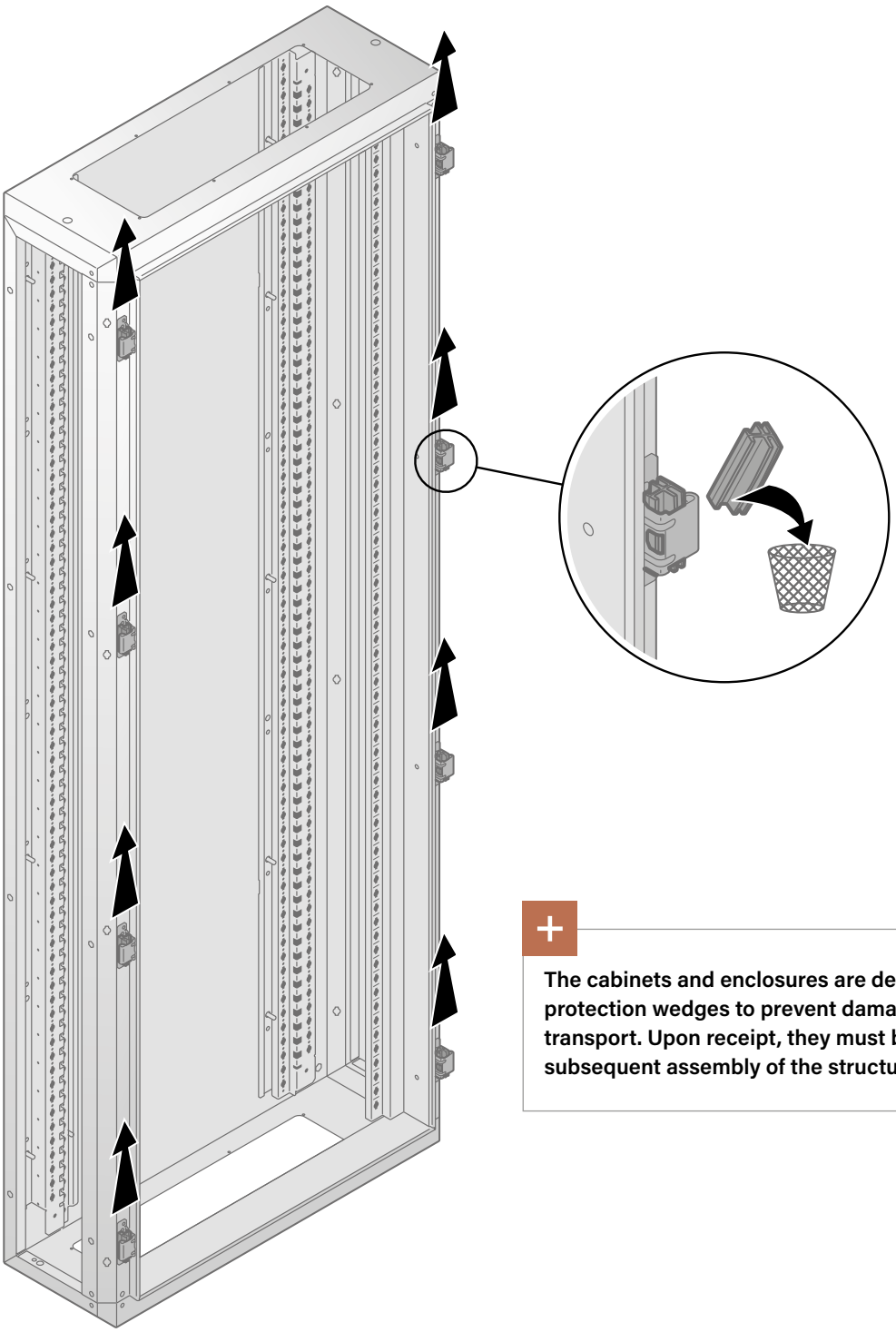
insulating support for aluminum bars p. 40

insulating support for copper bars p. 46

- Finishes ► p. 52-59

faceplate assembly p. 52
equipotential bonding p. 54
door assembly p. 55

Please follow the safety instructions and wear PPE (gloves) for these assembly steps on metal enclosures. ► p. 2-3



The cabinets and enclosures are delivered with transport protection wedges to prevent damage to the hinges during transport. Upon receipt, they must be removed for the subsequent assembly of the structure.

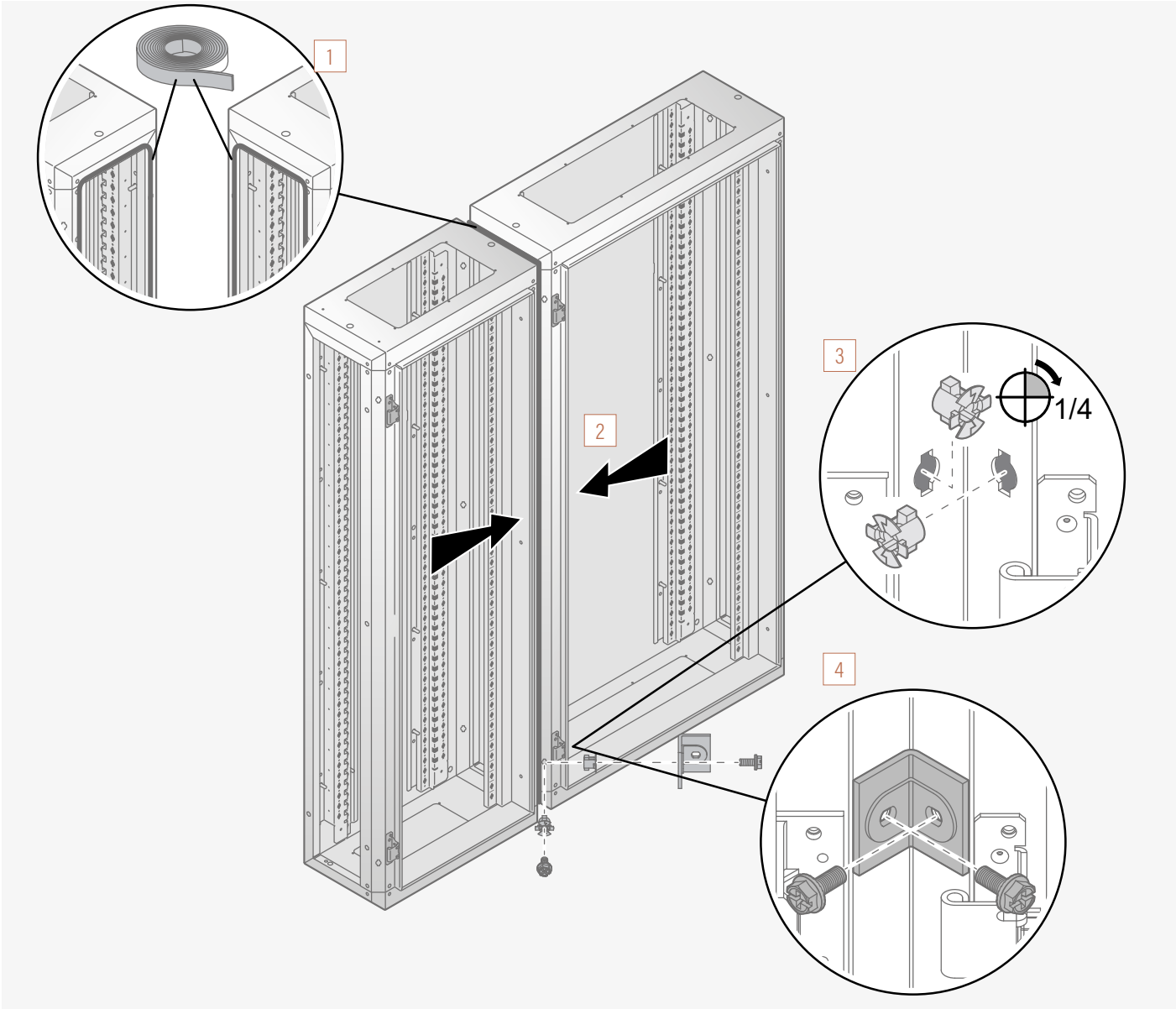
Safety (significant weight and volume):
For cabinets with a width of 36 modules or more than 6 rows, it is recommended that two people handle the enclosure to ensure safe handling.

ENCLOSURE ASSEMBLY

Coupling

The coupling of two IP 55 enclosures requires the 3KIP55 gasket and kits Cat. No 2KJLATIP55, to be ordered according to the enclosure height:
- x 2 for coupling two enclosures with height ≤ 1200 mm
- x 3 for coupling two enclosures with height 1350 mm and 1500 mm
- x 4 for the association of 2 enclosures height ≥ 1800 mm

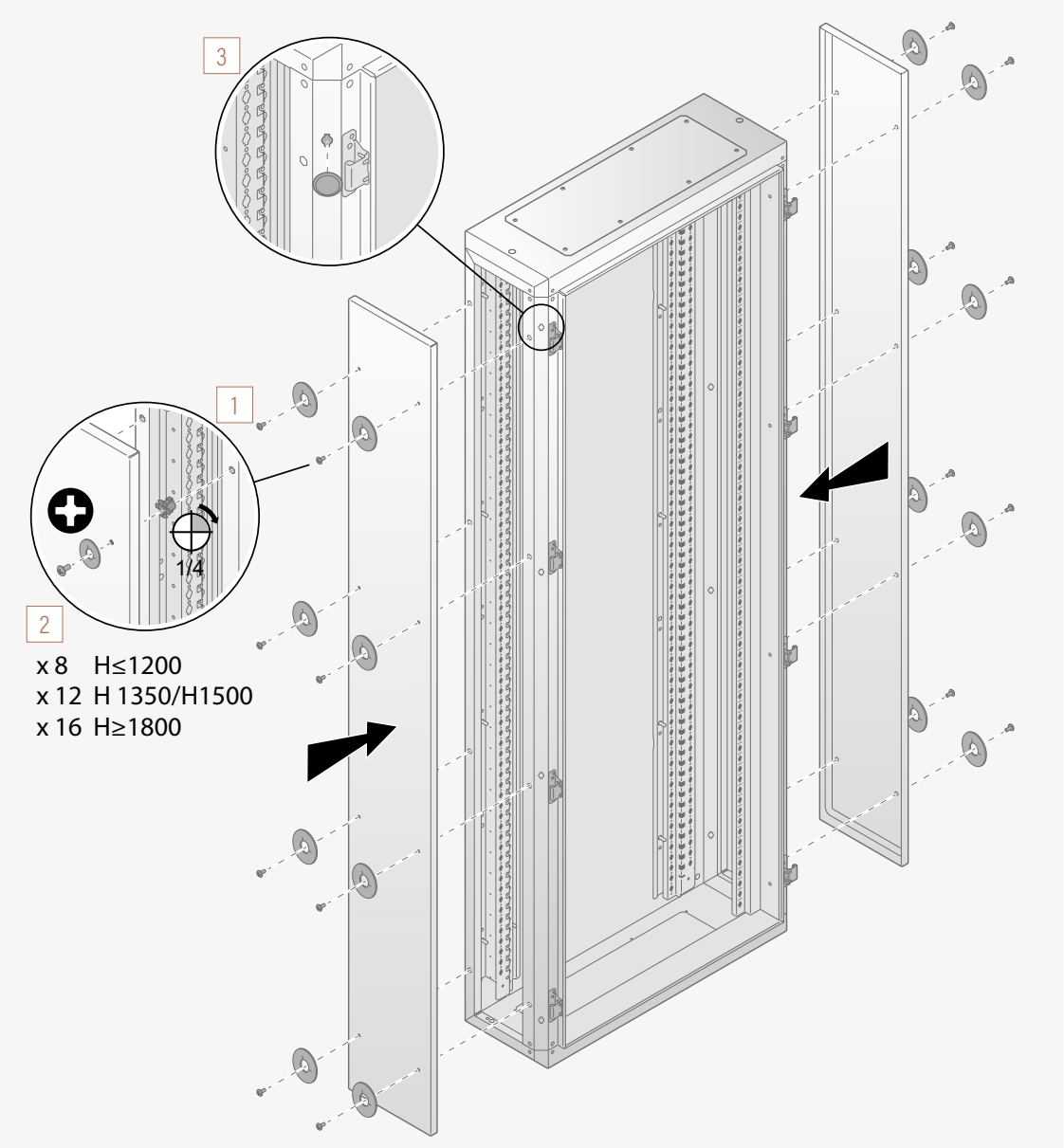
Multi-profile screw



1. Stick the seal on both inner sides of the enclosures to be paired.
2. Position the envelopes side by side.
3. Insert the cage nuts into the pre-drilled holes at the corner of the structure uprights (x 8 for height ≤ 1200 mm, x 12 for height 1350 mm and 1500 mm, and x 16 for height ≥ 1800 mm).
4. Fasten the pairing brackets with the supplied M6 screws (2 per bracket).

Side panels installation

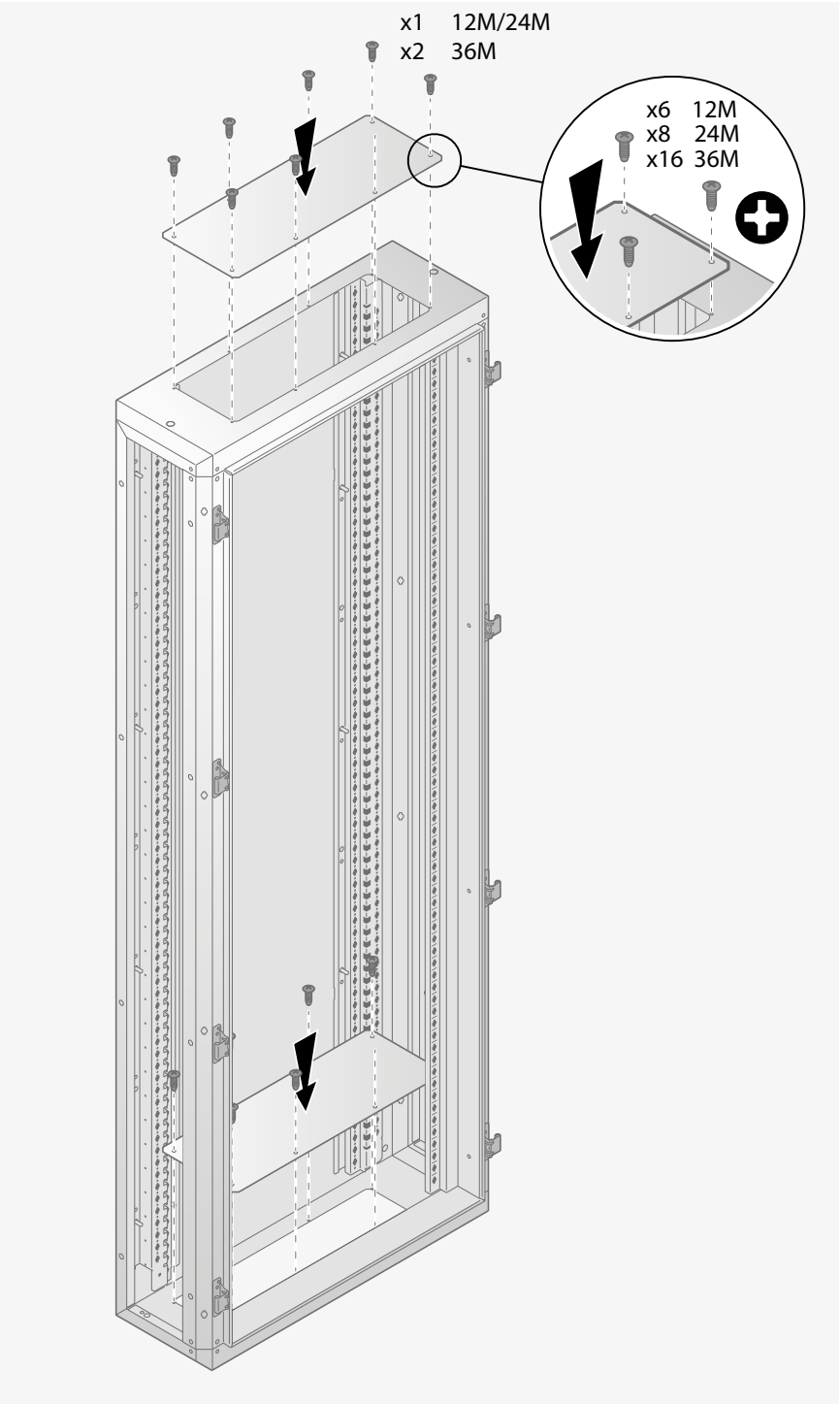
The side panels Cat. No 2PAP07555/2PAP09055/2PAP10555/2PAP12055/2PAP13555/2PAP15055/2PAP16555/2PAP18055/2PAP19555 are delivered with a set of mounting hardware:
cage nut, screw with washers, and screw cover:
- x 8 for height ≤ 1200 mm
- x 12 for height 1350 mm and 1500 mm
- x 16 for height ≥ 1800 mm



1. Insert the cage nuts into the structure uprights.
2. Insert the screws with the washers and fasten the side panels.
3. Insert the screw covers into the pre-drilled holes at the corner of the structure uprights to comply with IP 55.

Installation of the top and bottom plates

Once the internal equipment has been installed in the enclosures, the top and bottom plates must be mounted using the supplied hardware.

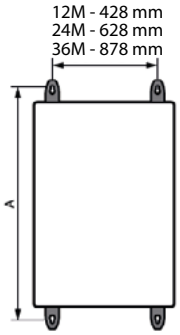


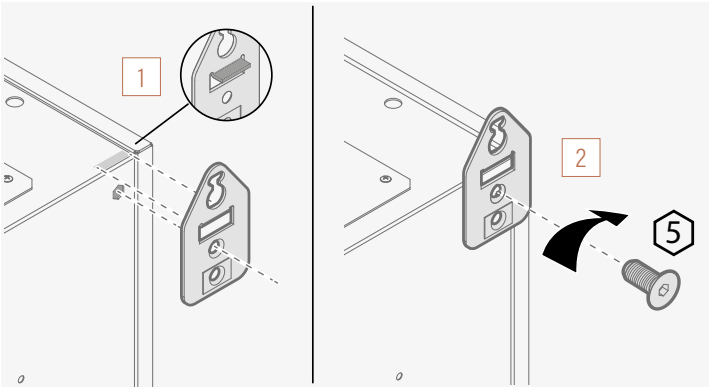
The installation of the top and bottom plates can be done from the inside or the outside.

Wall mounting

The wall mounting brackets are delivered with the enclosures. They are installed in a vertical position on the back of the enclosure. The necessary hardware is supplied.

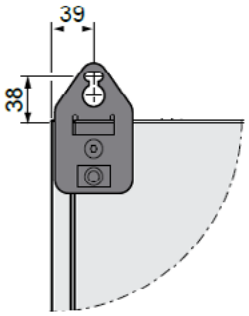
Enclosure height (mm)	A (mm)
846	922
996	1072
1146	1222
1296	1372
1446	1522
1596	1672
1746	1822
1896	1972
2046	2122





1. Remove the plug at the back of the cabinet.
2. Fasten the brackets vertically or horizontally using the supplied screws.

⚠ Do not use these fixing brackets for lifting the enclosure



INSTALLATION

Lifting

Lifting of IP 55 envelopes is possible with lifting rings Cat. No 2KLIFTA, supplied in pairs.
The fastening is possible thanks to the pre-drilled holes on the upper part of the enclosure.

The maximum load is 500 kg /m^3

NOTES

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