

B1

MAIN FRAME ASSEMBLY

KYT-070
11/2021

 Update Notes

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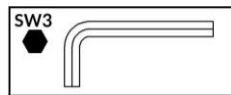
Tools Symbol Guide



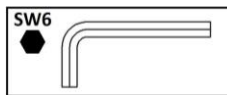
Cross



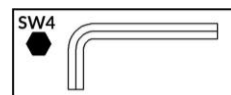
Slot



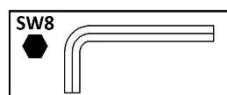
M4 Allen Key



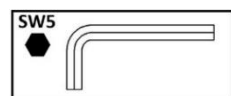
M8 Allen Key



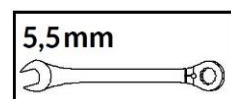
M5 Allen Key



M10 Allen Key



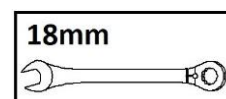
M6 Allen Key



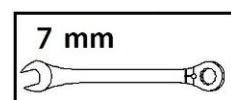
M3 Spanner



M6 Spanner



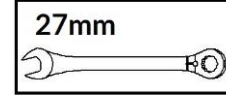
M12 Spanner



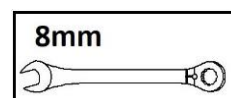
M4 Spanner



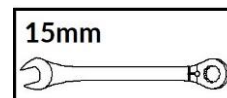
M8 Spanner



M18 Spanner



M5 Spanner



M10 Spanner

Caution: For safety precaution ; Protective gloves and equipments must be used while assembly.

As additional tools for assembly;

- Torque wrench features:
 - ✓ Tightening torque : 75 N.m
 - ✓ It has a reduced thickness, can be easily used to access non accessible joints/fishplates and between busbars.
- Torque wrench an accessories:
 - ✓ Wrench shaft - mandatory
 - ✓ Extra-thin pawl adapter - mandatory
 - ✓ Pawl for ordinary sockets
- Extra-thin sockets for pawl + shaft:
 - ✓ 13 mm extra-thin low socket
 - ✓ 13 mm extra-thin high socket
 - ✓ 15 mm extra-thin low socket
 - ✓ 15 mm extra-thin high socket
 - ✓ 18 mm extra-thin low socket
 - ✓ 18 mm extra-thin high socket

■ Torque Table for Screw/Bolt

Recommended tightening torque for mechanical and electrical links 8.8-class screws (with nut + washers)	
Diameter of Screw	Tightening Torque (N.m)
M3	1.5
M4	3.5
M5	7
M6	13
M8	28
M10	50
M12	75

Tightening torque for electrical links on the devices and for their fixing:

Marking varnish:

After tightening each electrical connection to the appropriate torque, apply some varnish:

- ✓ Between the nut and the screw or
- ✓ Between the screw head and the copper bar or
- ✓ Between the device for tightening on a threaded part

Varnish should not block the screw:

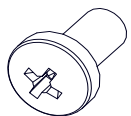
- ✓ It allows operator inspection, to verify if the bolts/ nut are tightened or not.
- ✓ It facilitates the identification of any loose nuts during the switchboard's lifetime.

Varnish features:

- ✓ Coloured acrylic varnish, indelible and able to resist a 150° C temperature.
- ✓ PDS recommends a red varnish as a standard to identify the panelbuilder's work.
- ✓ Other colours can be used by the contractor or any operators entitled to work on the switchboard after its commissioning.

■ Screw/Bolt/Special Parts for Assembly

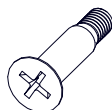
Philips Pan
Head Screw



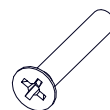
M6x23 Philips Flat
Head Screw (Teos)



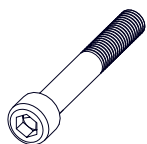
M5x20 Philips Flat
Head Screw (Teos)



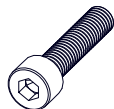
Philips Flat Head
Screw



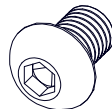
Hexagon Socket Head
Bolt (Half Thread)



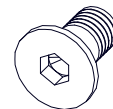
Hexagon Socket
Head Bolt



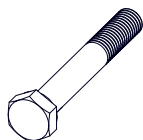
Hexagon Socket
Button Head Bolt



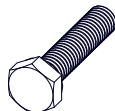
Hexagon Socket
Flat Head Bolt



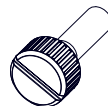
Hexagon Head Bolt
(Half Tread)



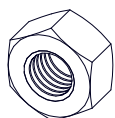
Hexagon Head
Bolt



Internal Door
Knob Bolt



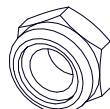
Regular Nut



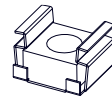
Flange Nut



Previling Torque
Nut



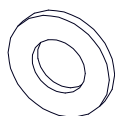
Cage Nut



Plastic Cage
Nut



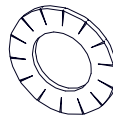
Flat Washer



Spring Lock
Washer



Toothed Lock
Washer



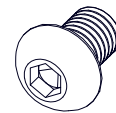
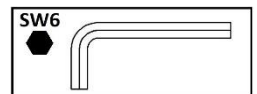
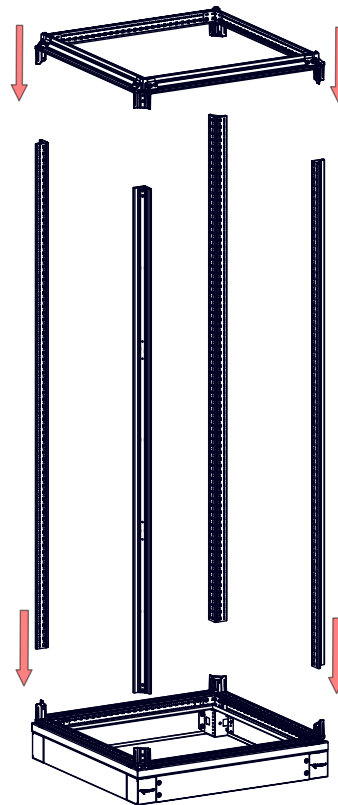
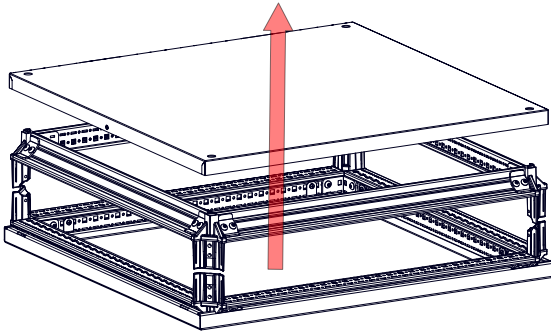
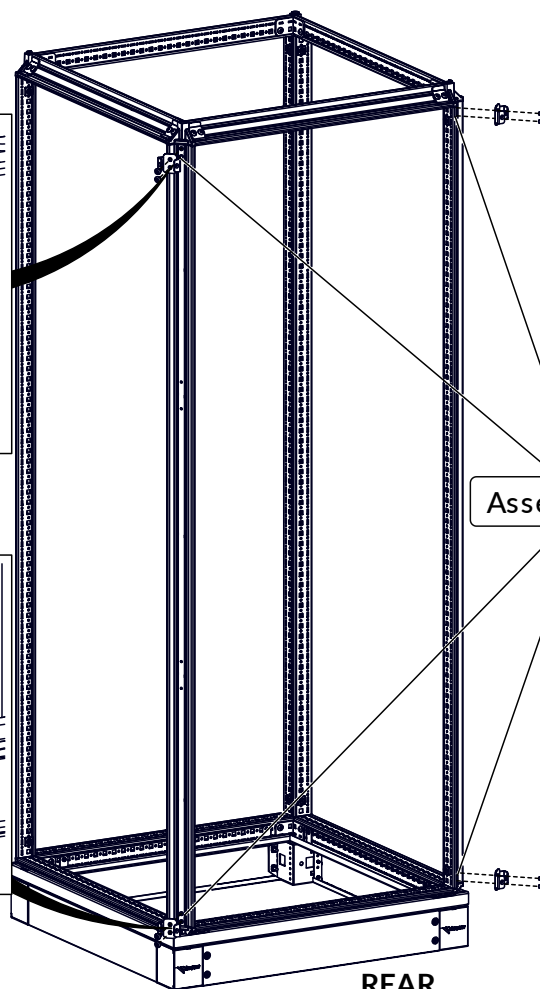
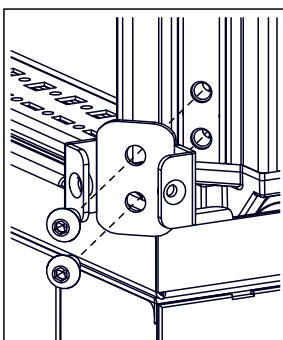
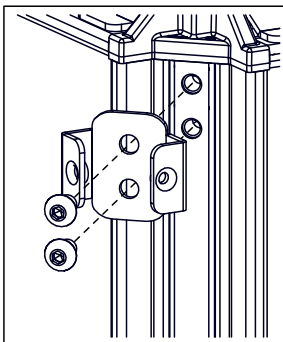
Wedge Lock
Washer



1. TEOS FRAME ASSEMBLY**Required Packages:**

702.200

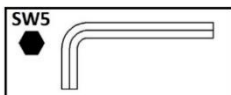
1001.XXX

**M8x12**
8 pcs.

Assembly Points

REAR

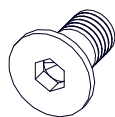
1. TEOS FRAME ASSEMBLY



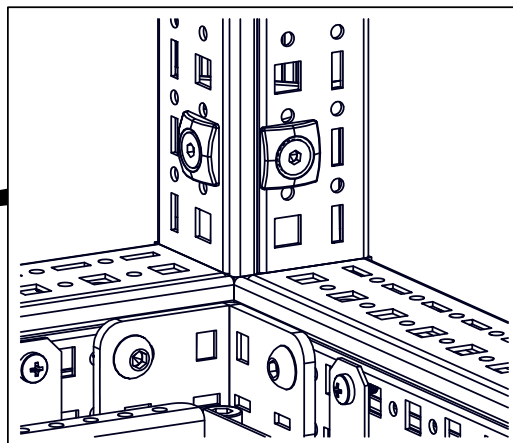
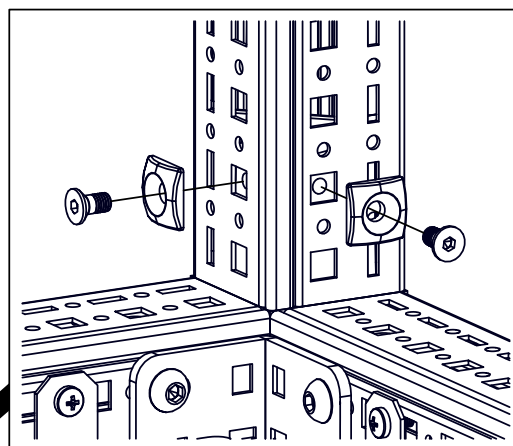
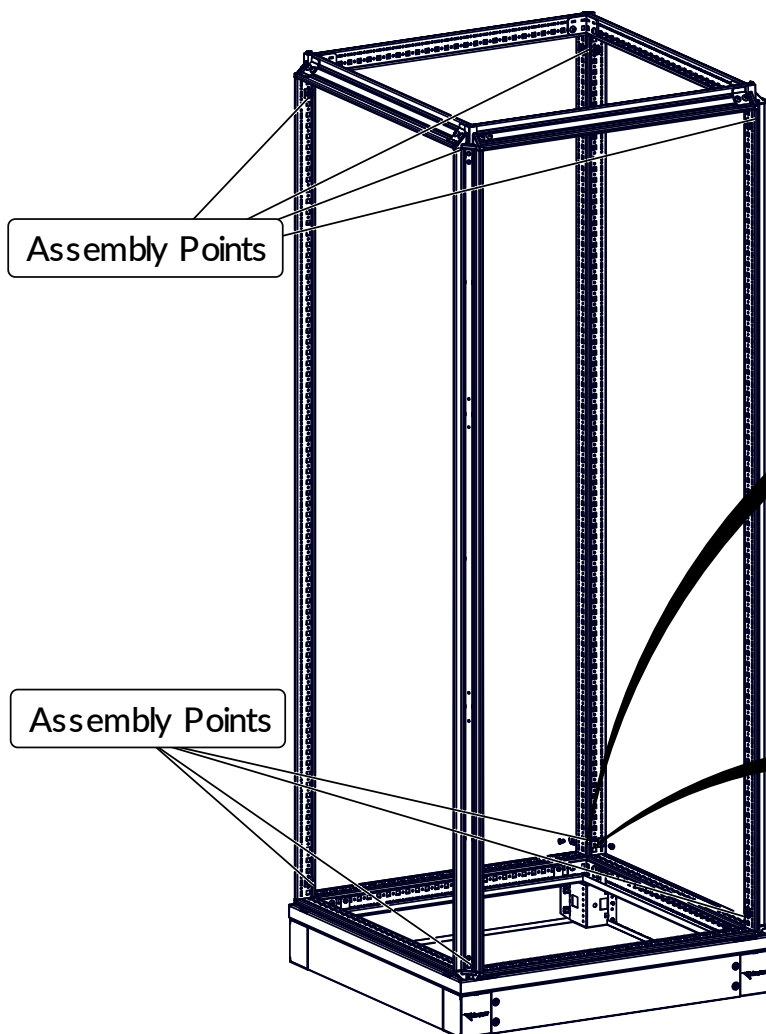
Required Packages:

702.200

1001.XXX



M6x16
4 pcs.

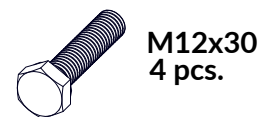
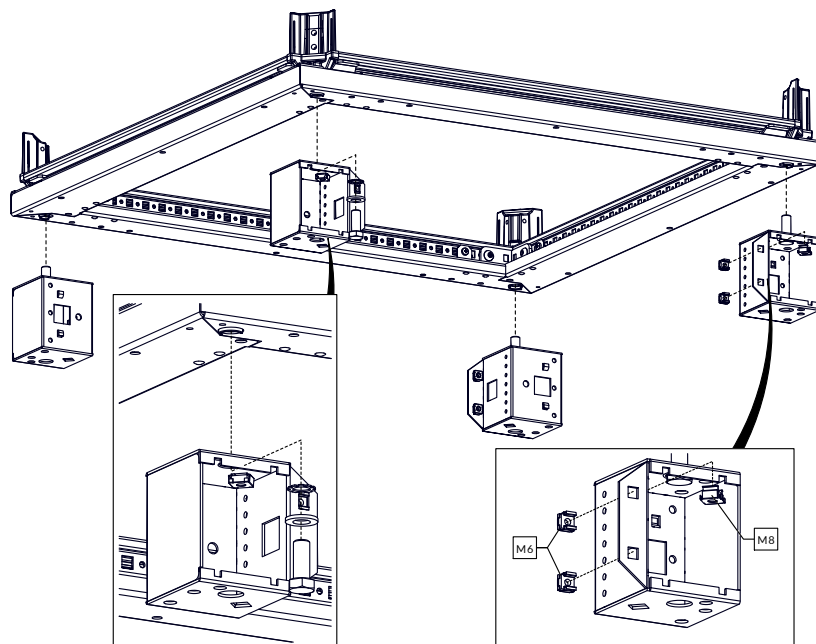
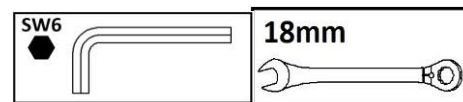


2. MODULAR PLINTH ASSEMBLY (OPTIONAL)

Required Packages:

100H:708.100

200H:708.200



M12x30
4 pcs.



M12
4 pcs.



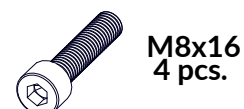
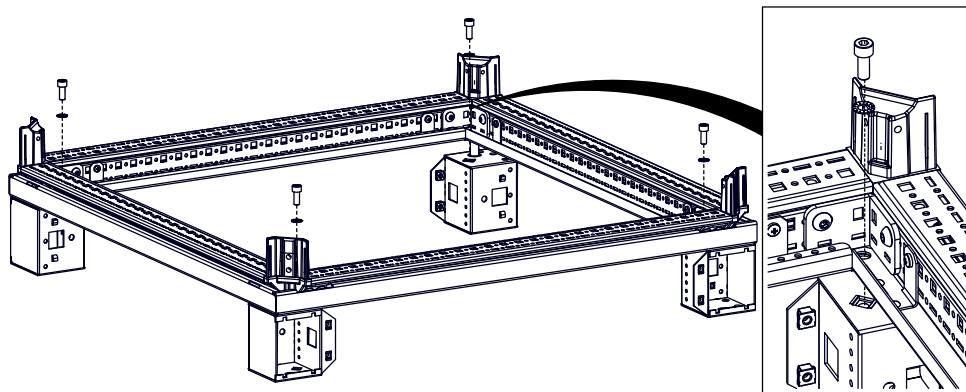
M12
4 pcs.



M6
8 pcs.



M8
4 pcs.



M8x16
4 pcs.



M8
4 pcs.



M8
4 pcs.

2. MODULAR PLINTH ASSEMBLY (OPTIONAL)



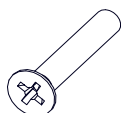
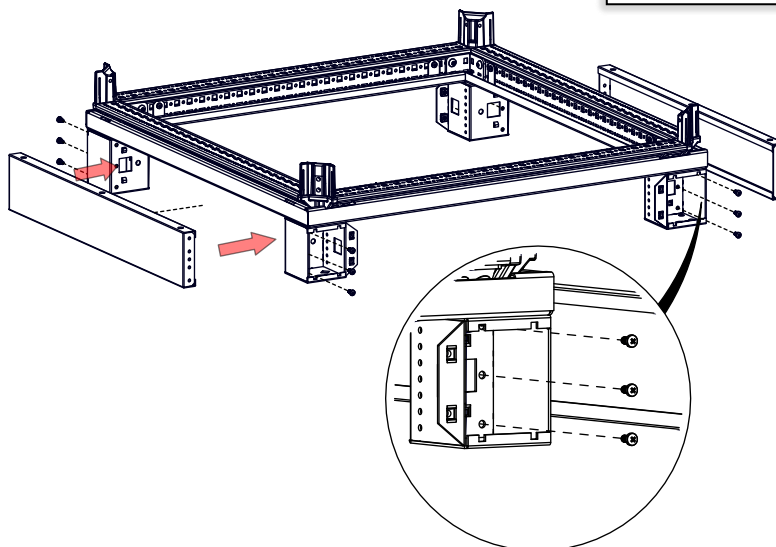
Required Packages:

709.1XX

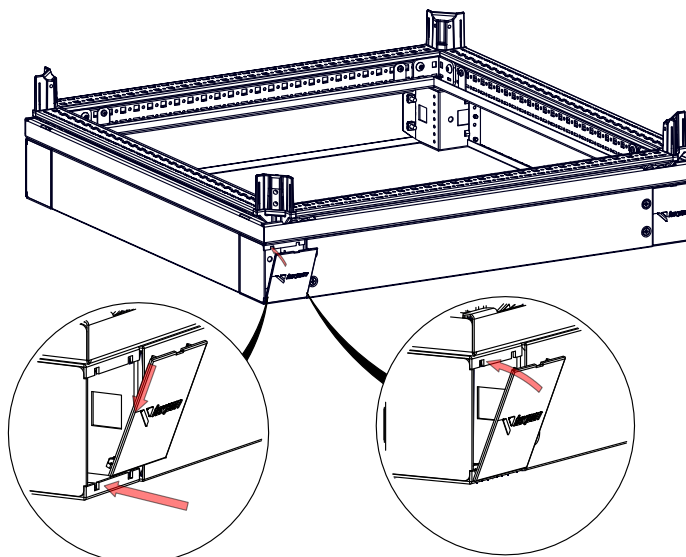
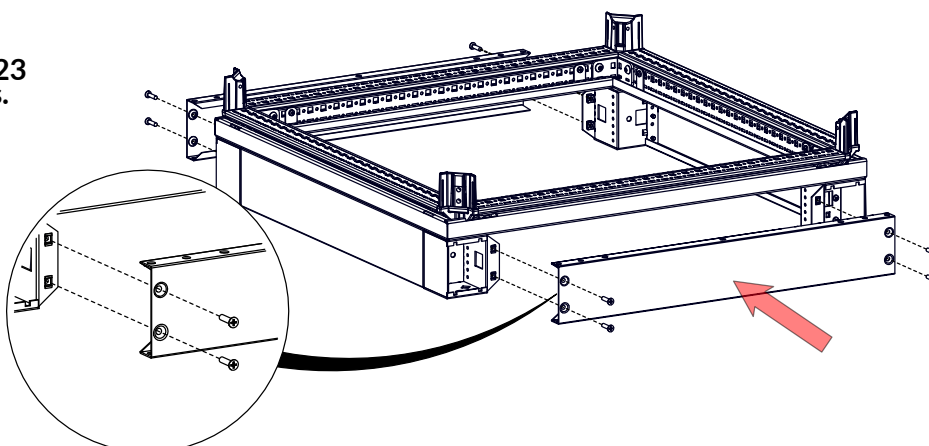
710.1XX



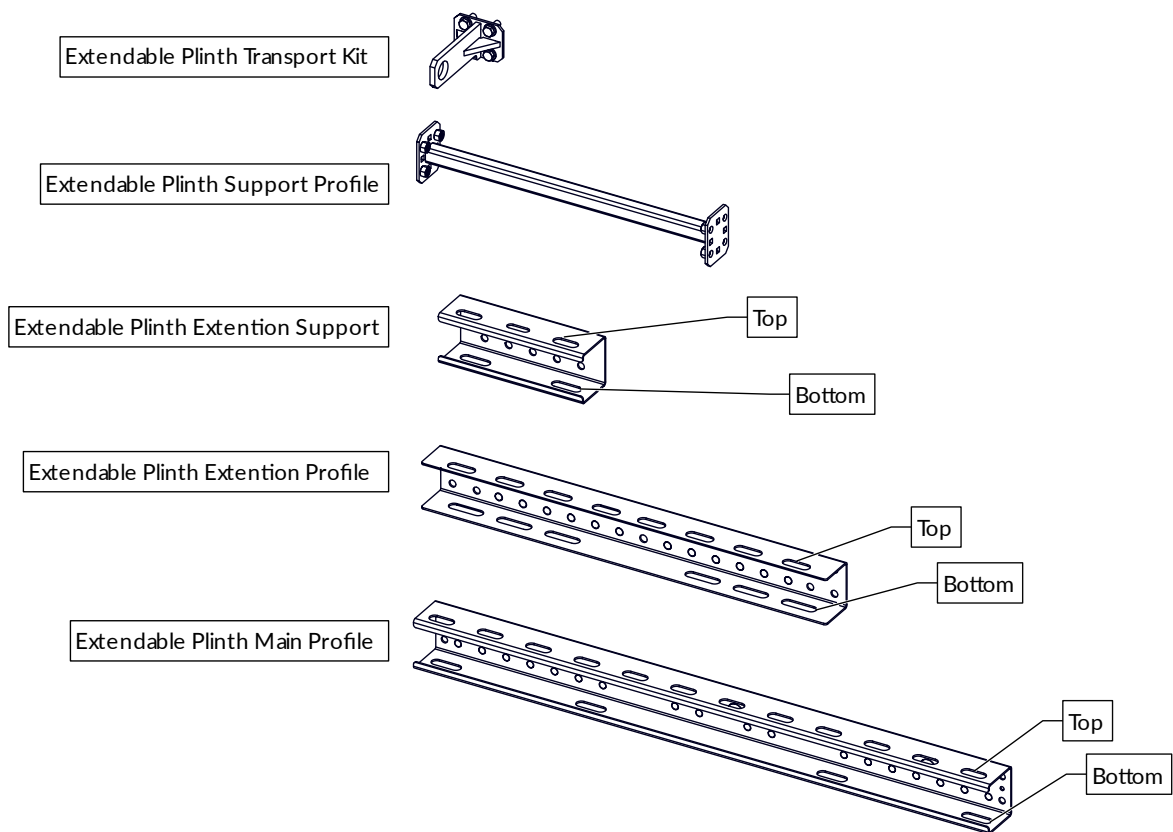
M5X10
12 pcs.



M6x23
8 pcs.

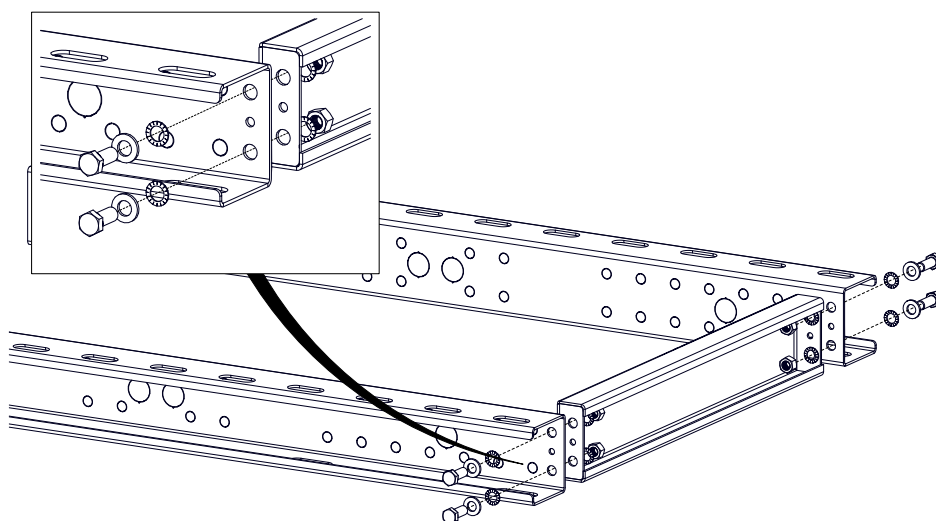


3. EXTENDABLE PLINTH ASSEMBLY (OPTIONAL)

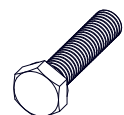
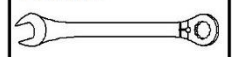


3.1 MAIN PROFILE-SIDE COVER ASSEMBLY

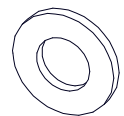
Required Packages:
Main Profile:1049.1XX
Side Cover:1049.2XX



18mm



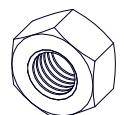
M12x30
4 pcs.



M12
4 pcs.



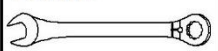
M12
4 pcs.



M12
4 pcs.

3.2 EXTENSION PROFILE-EXTENTION SUPPORT ASSEMBLY

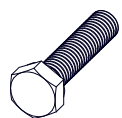
18mm



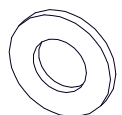
Required Packages:

Ext.Profile:1049.3XX

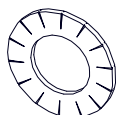
Ext.Support:1049.30X



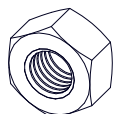
M12x30



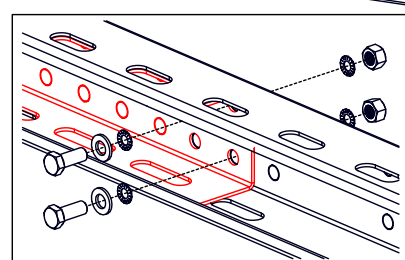
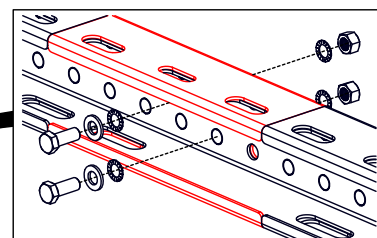
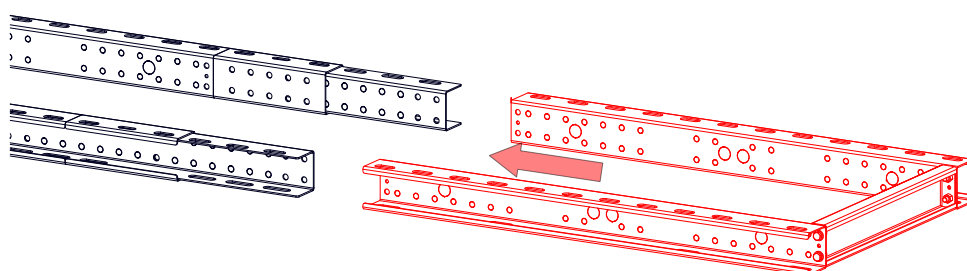
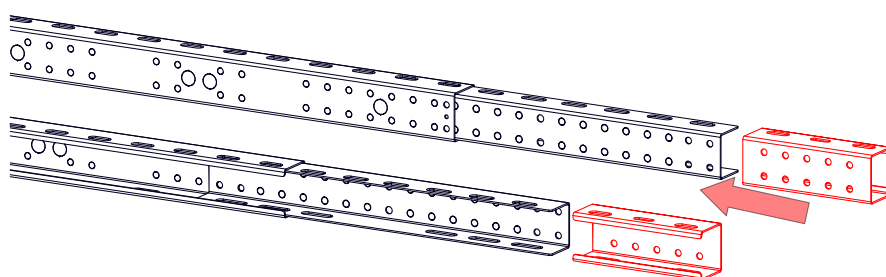
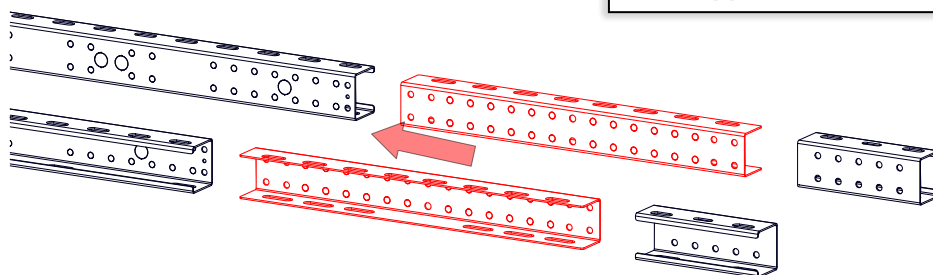
M12



M12



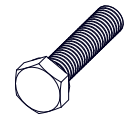
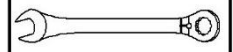
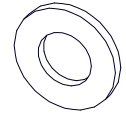
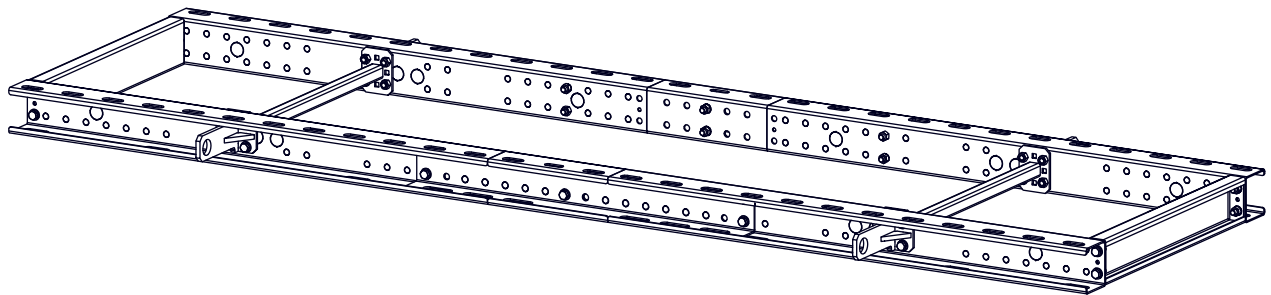
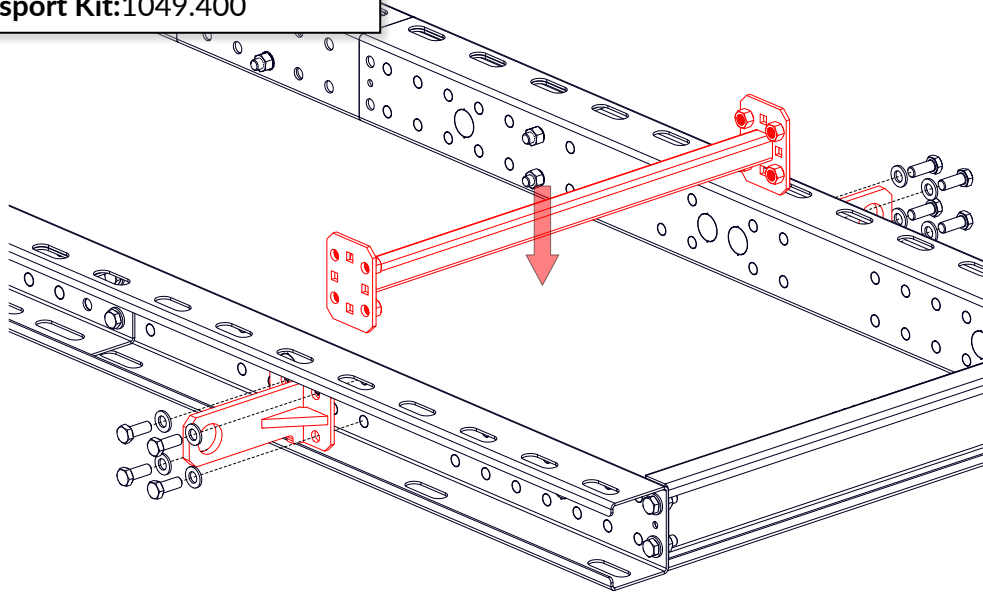
M12



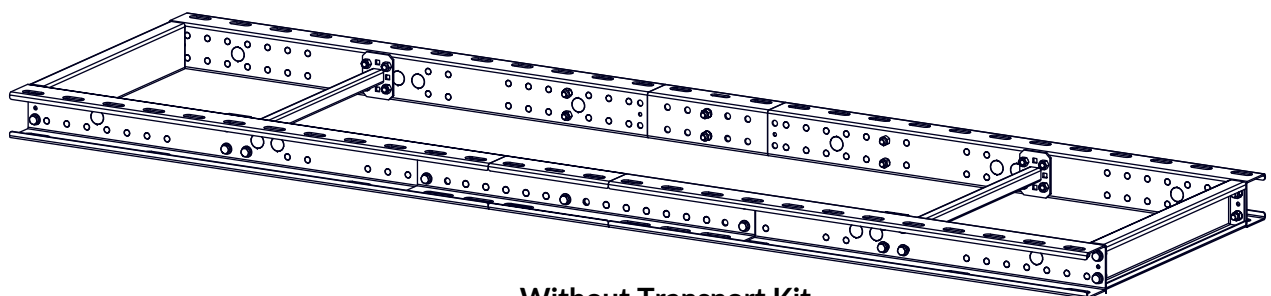
3.3 PLINTH SUPPORT-TRANSPORT KIT ASSEMBLY

Required Packages:
Plinth Support:1049.4XX
Transport Kit:1049.400

18mm

M12x30
8 pcs.M12
8 pcs.

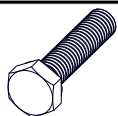
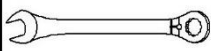
With Transport Kit



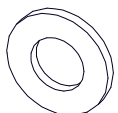
Without Transport Kit

3.4 EXTENDABLE PLINTH-ENCLOSURE ASSEMBLY

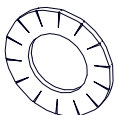
18mm



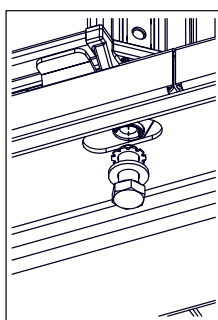
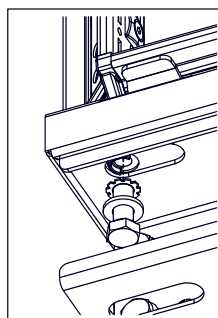
M12x30
4 pcs.



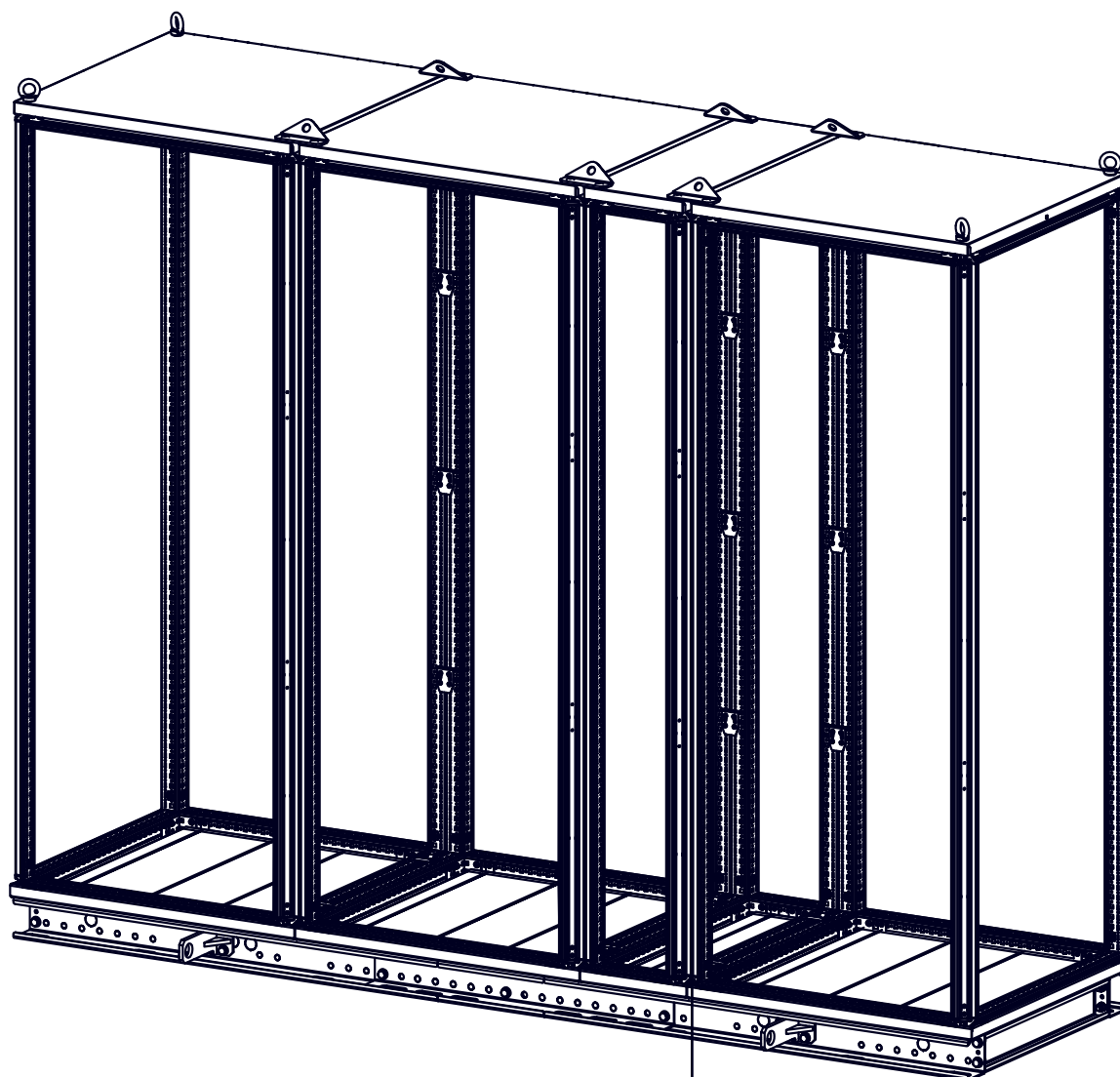
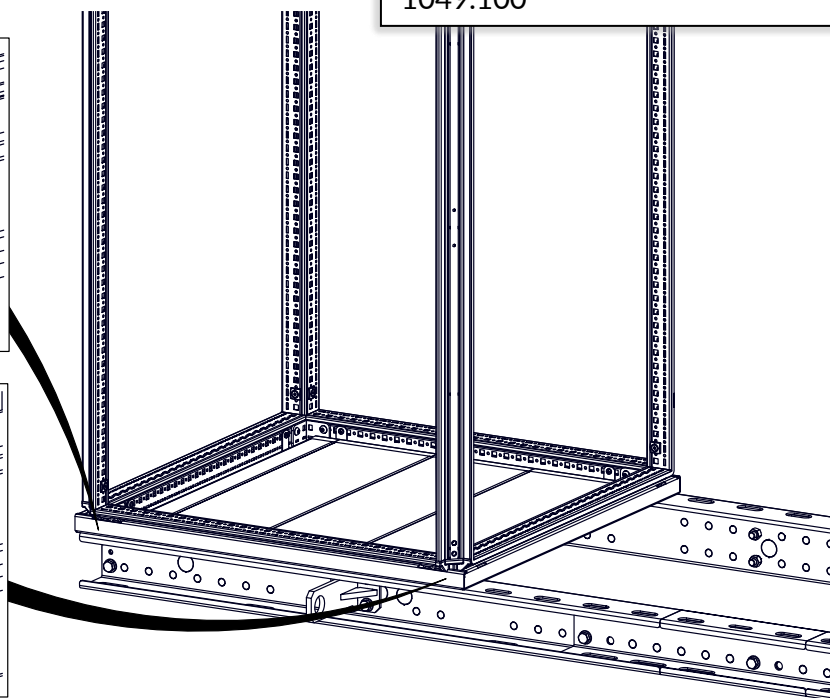
M12
4 pcs.

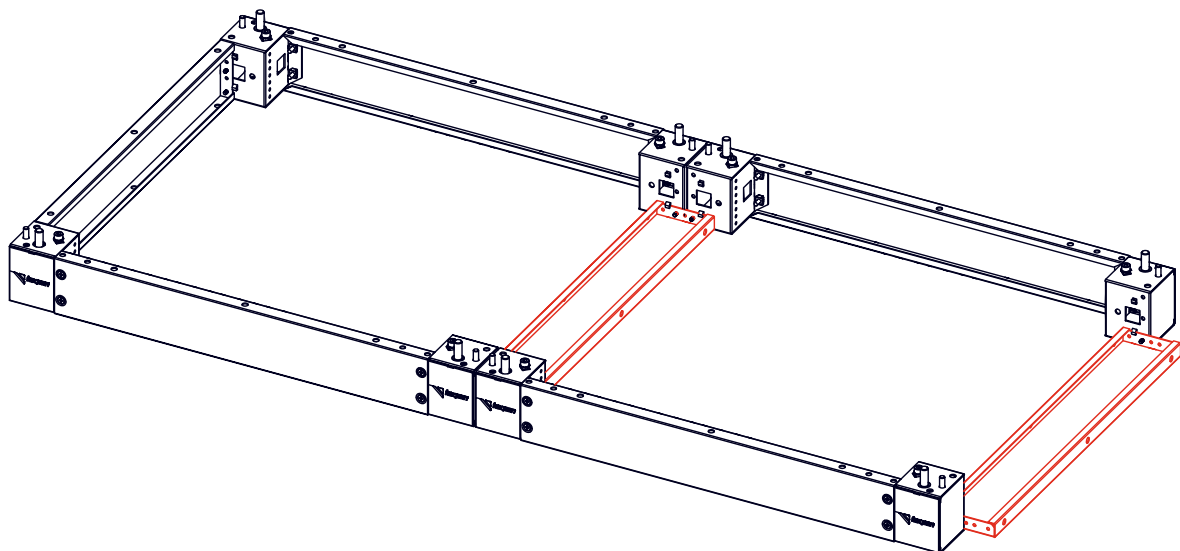
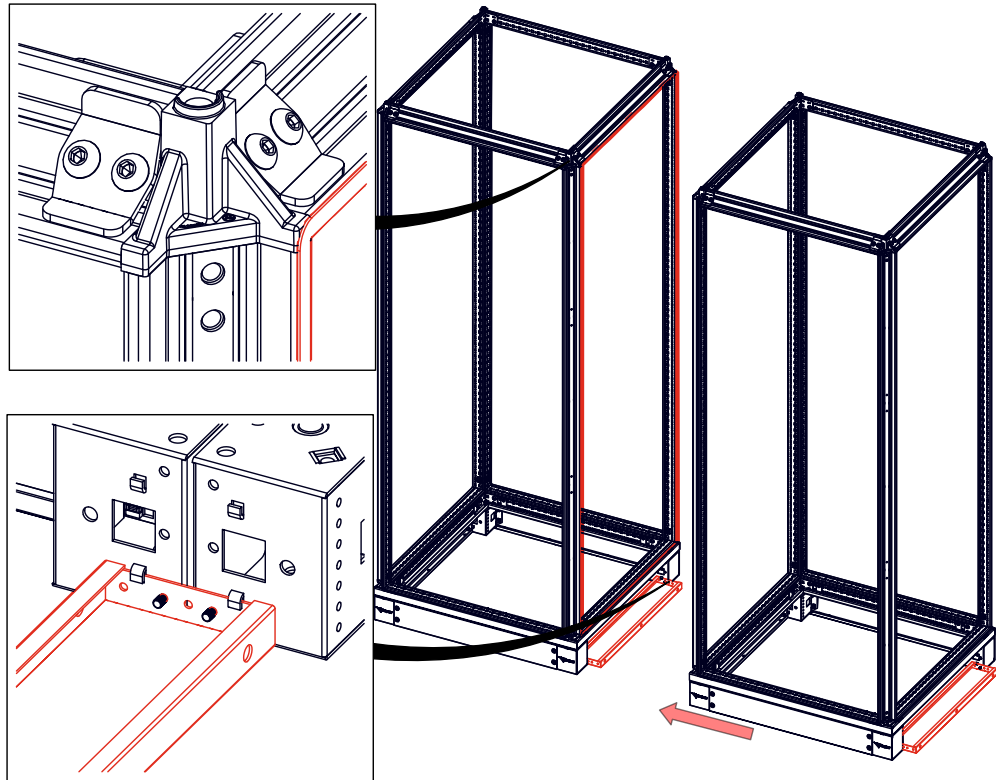


M12
4 pcs.



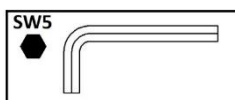
Required Packages:
1049.100



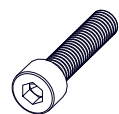
4. BAYING**4.1 BAYING KIT ASSEMBLY**

Detail for Modular Plinth Assembly

4.1 BAYING KIT ASSEMBLY



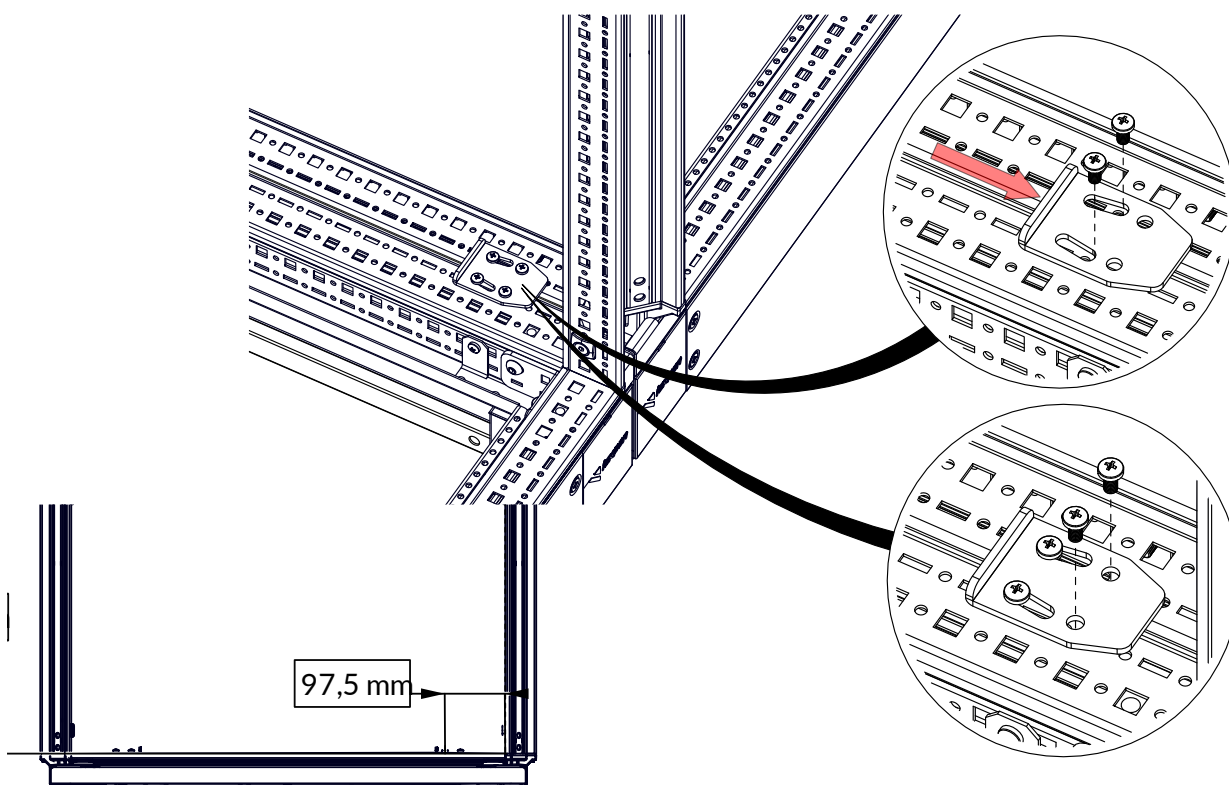
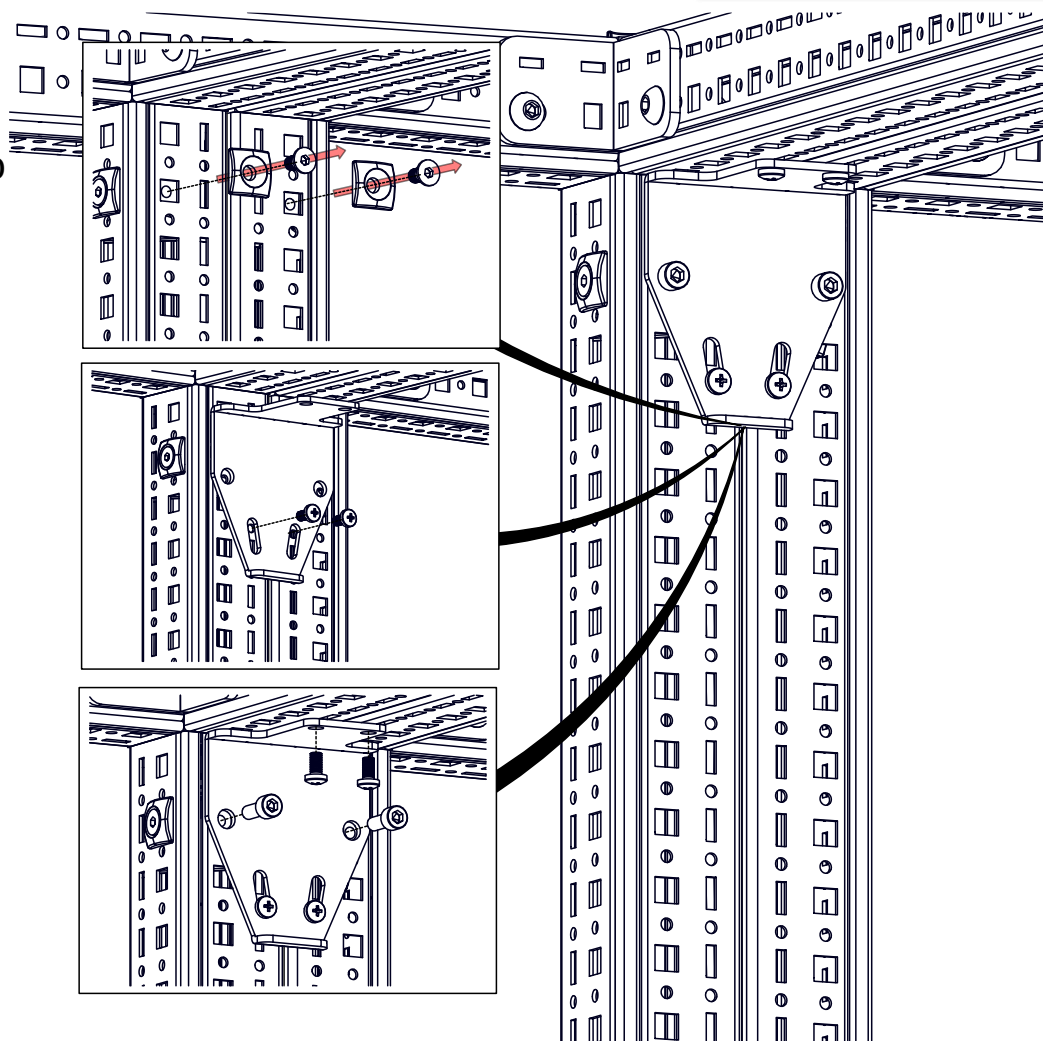
Required Packages:
1036.002



M6x16
2 pcs.



M5X10
4 pcs.

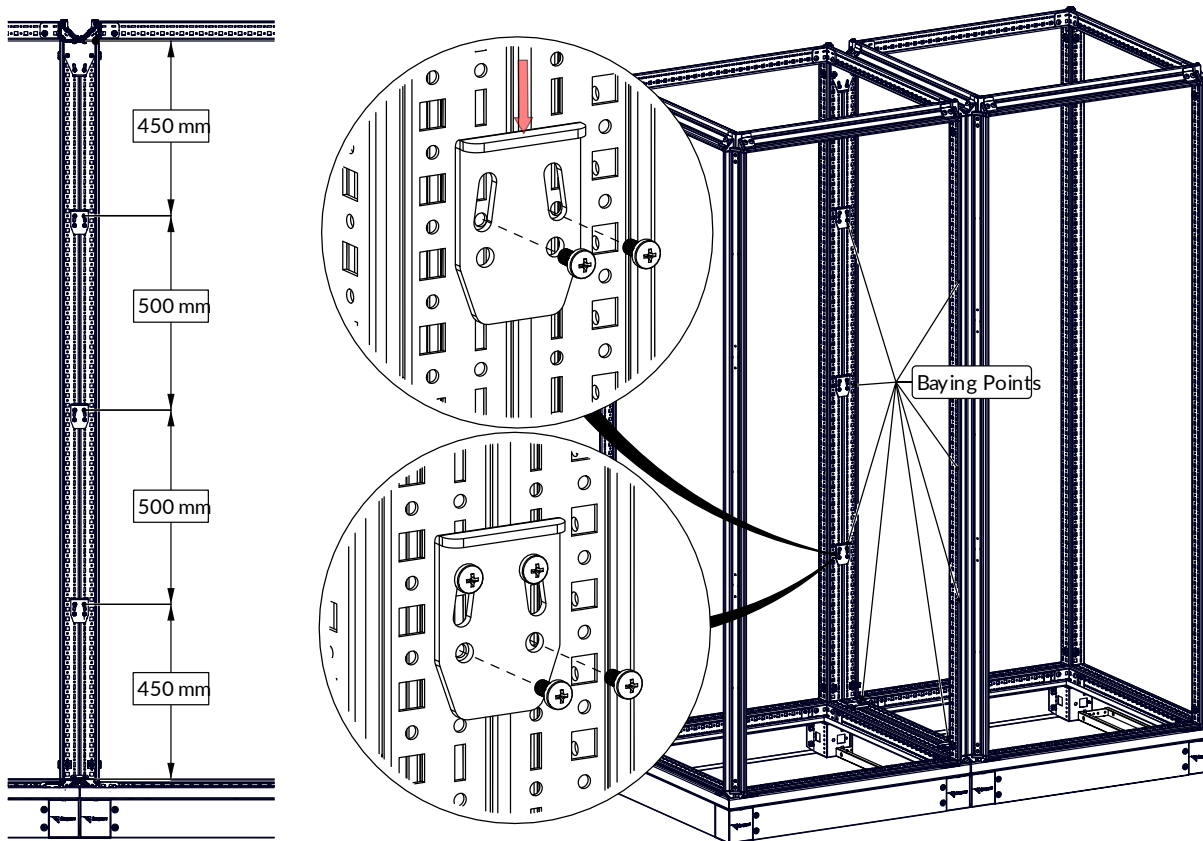


4.1 BAYING KIT ASSEMBLY

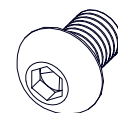
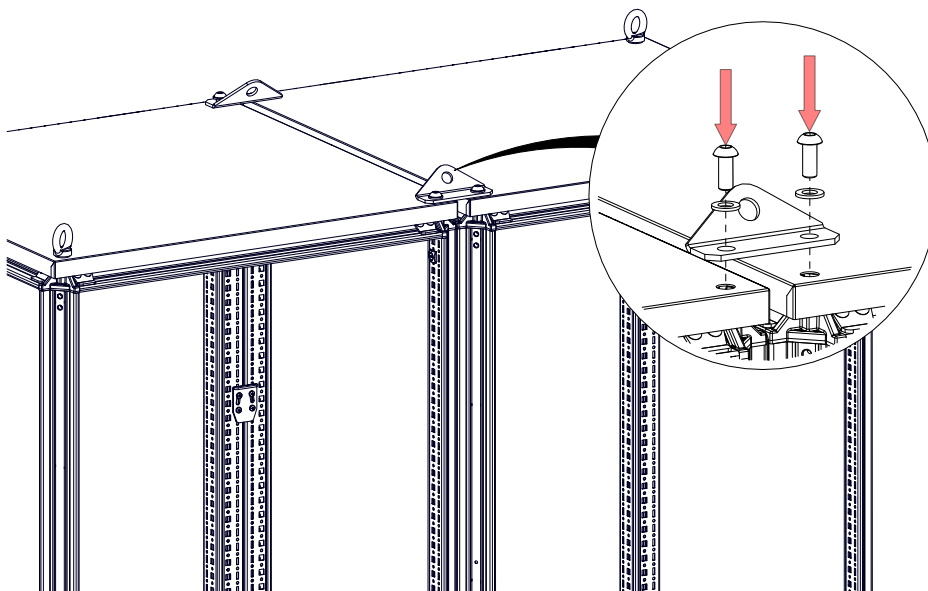
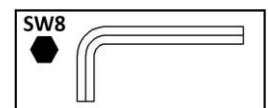
Required Packages:
1036.002



M5X10
4 pcs.



Warning: Top cover and assembly part should be assembled after the internal assembly is finished.

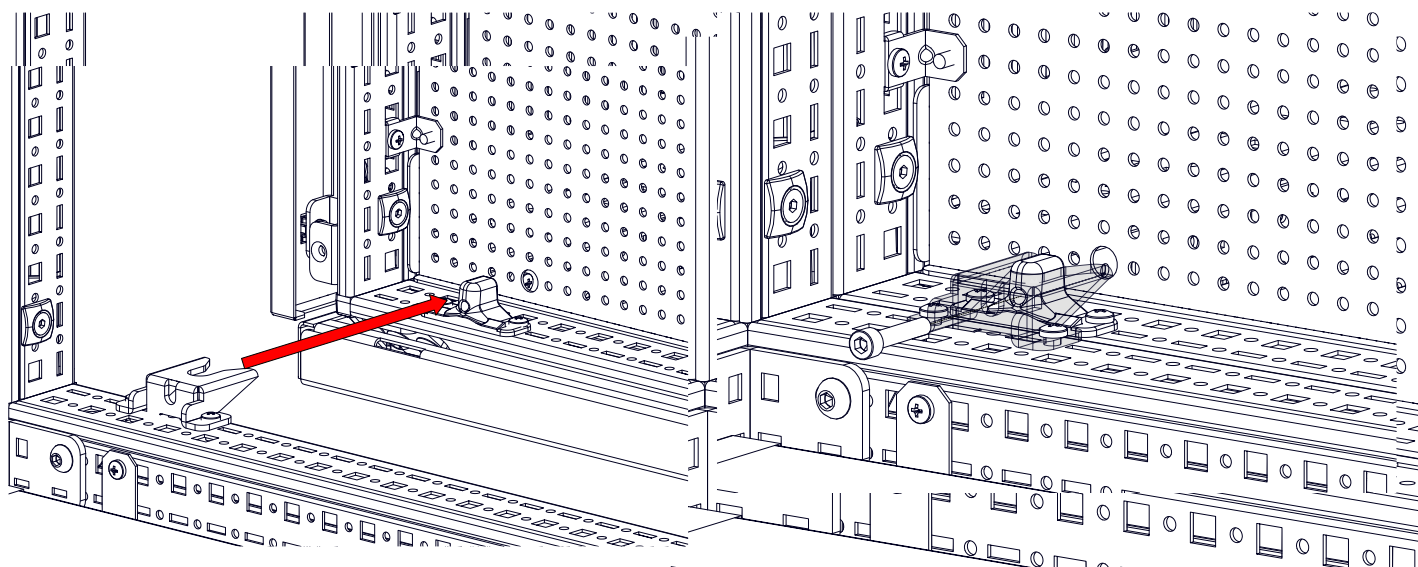
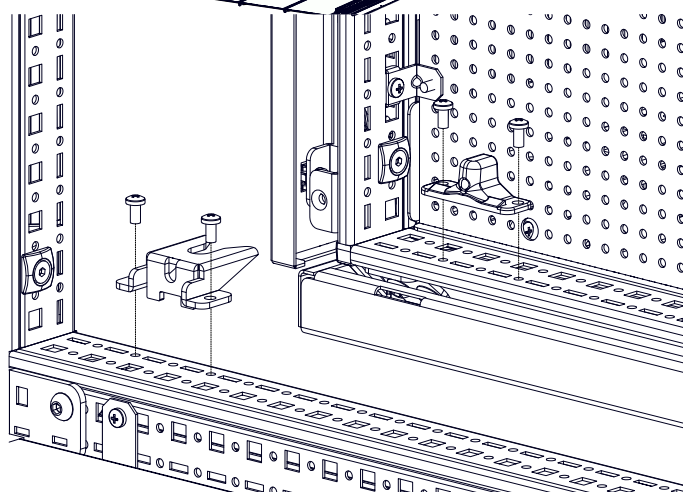
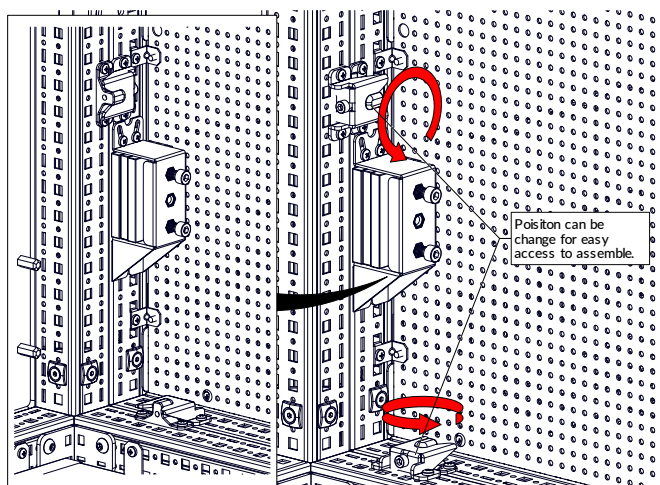
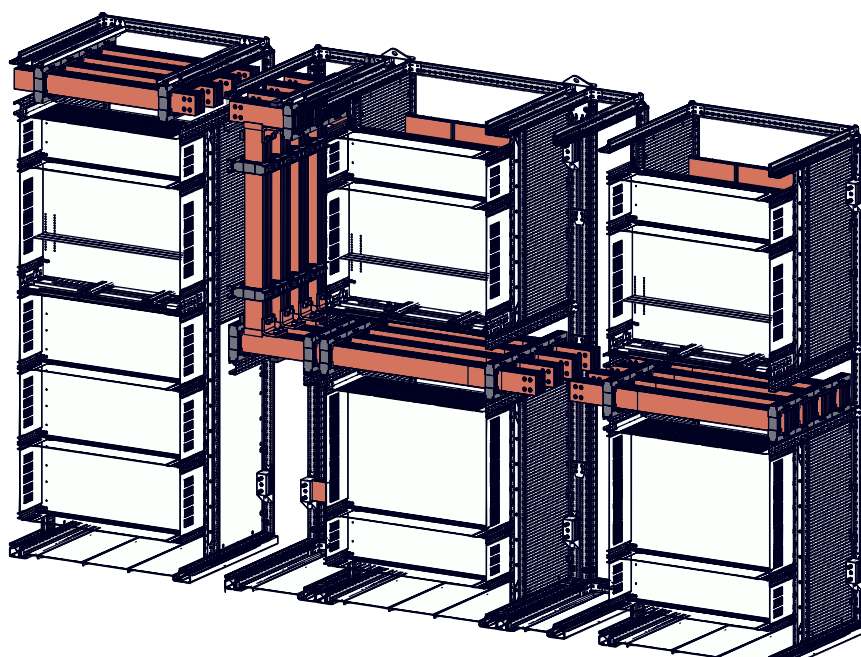


M12X30
2 pcs.

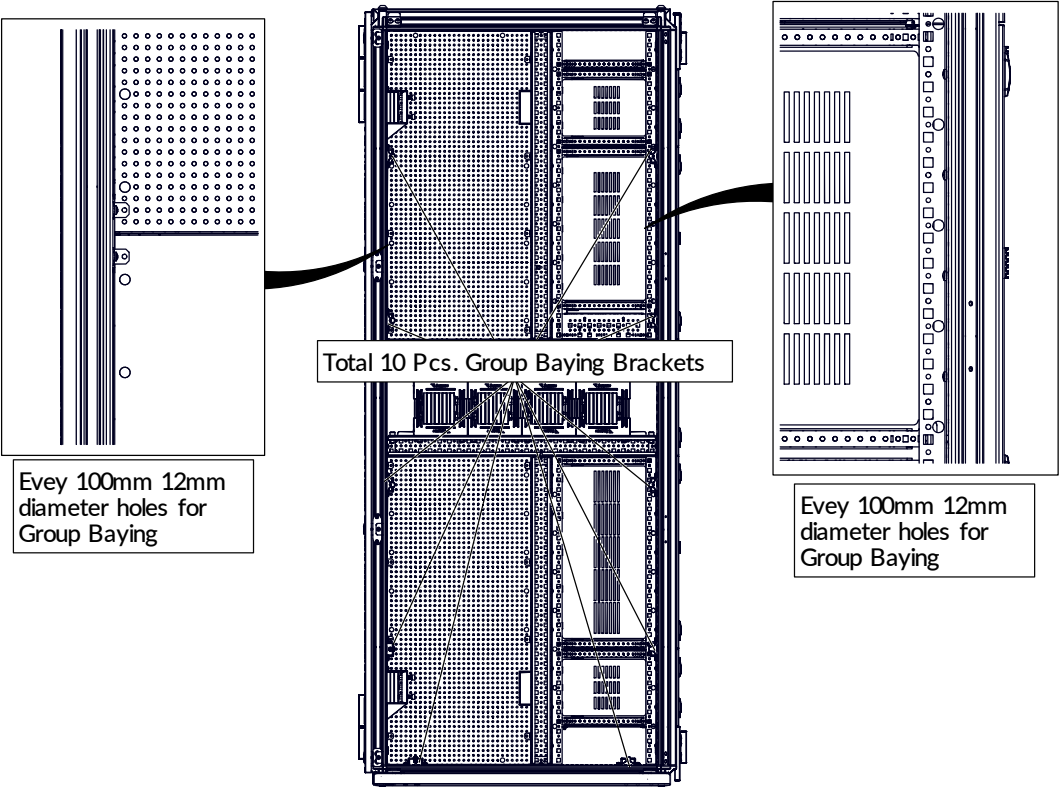
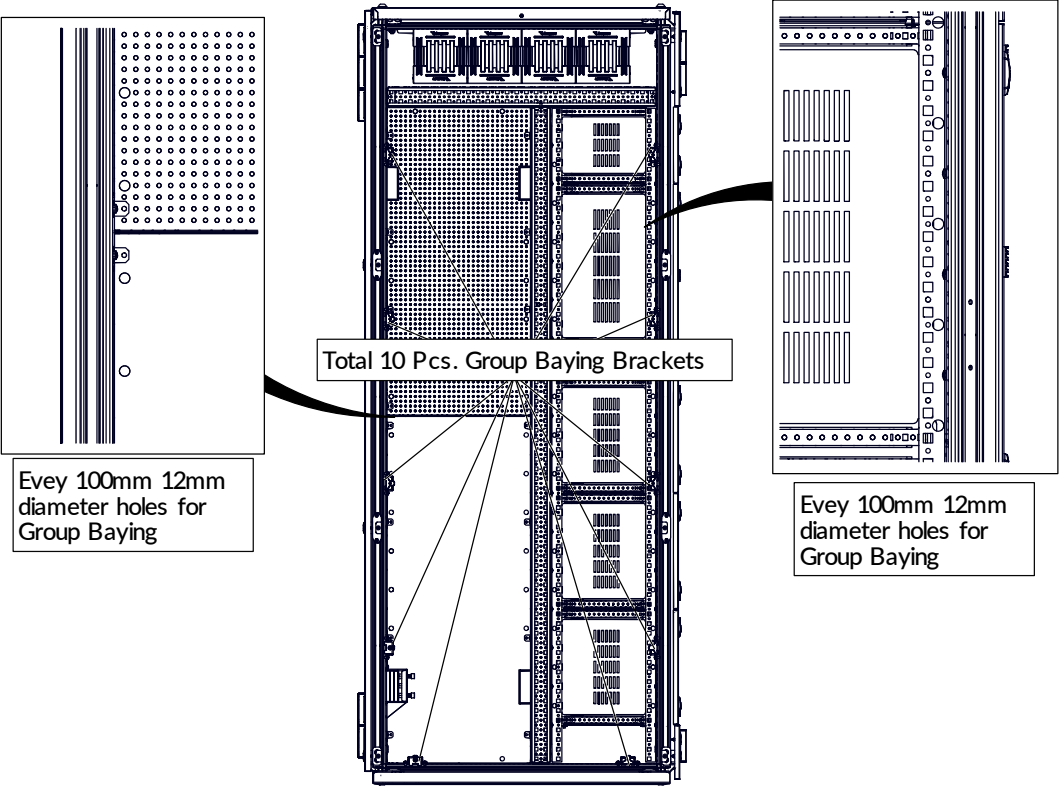


M12
2 pcs.

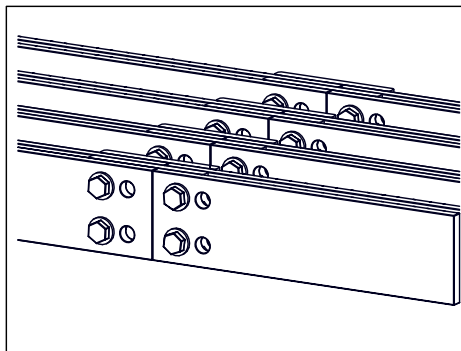
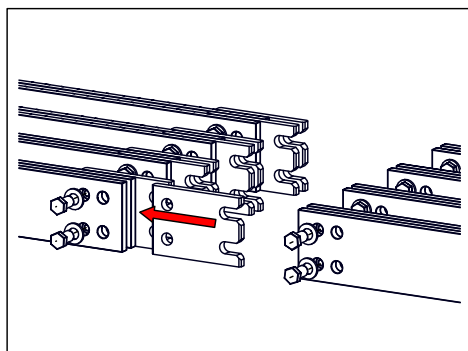
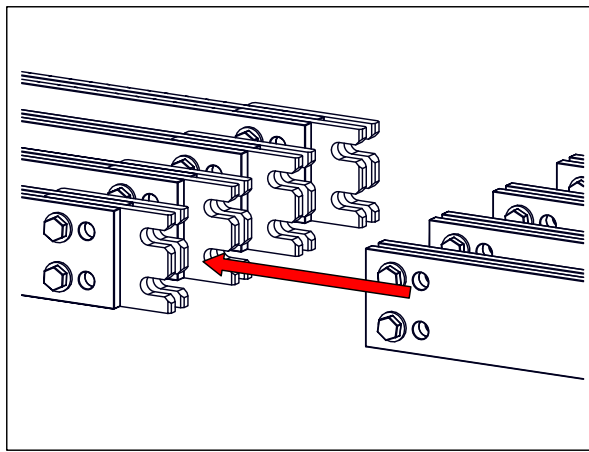
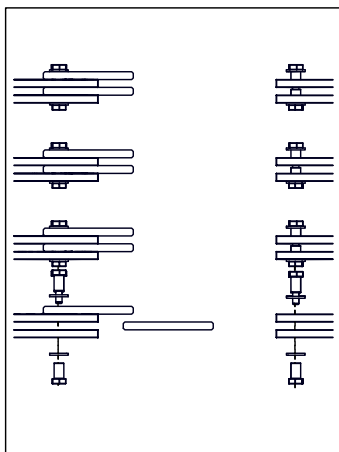
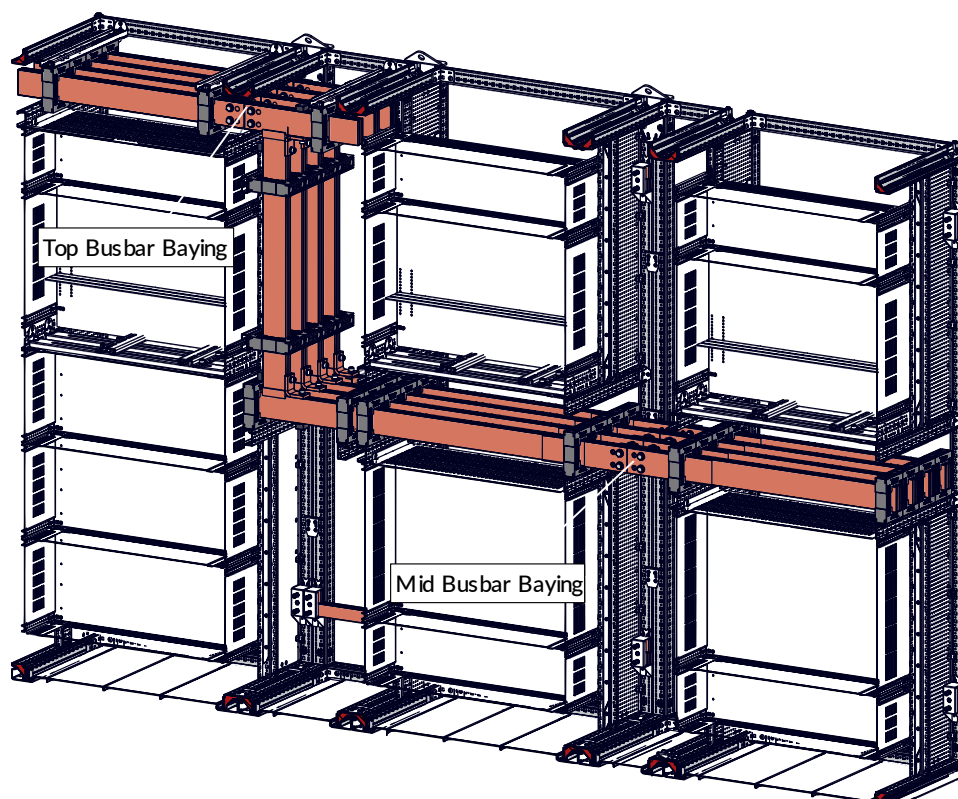
4.2 GROUP BAYING KIT ASSEMBLY



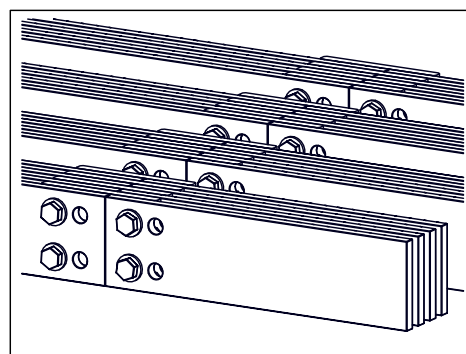
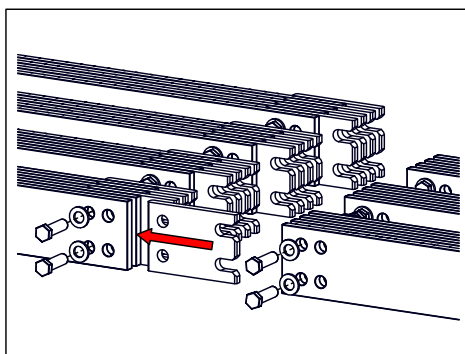
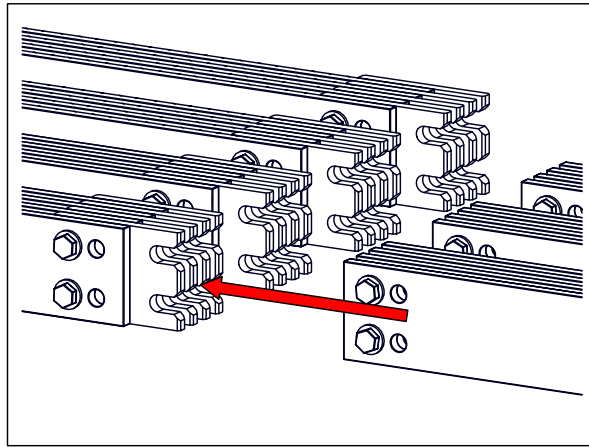
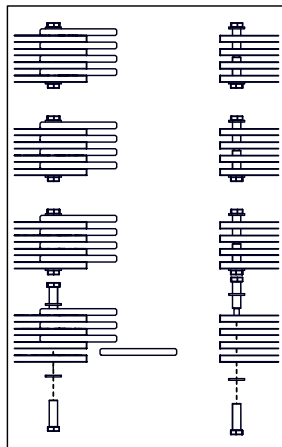
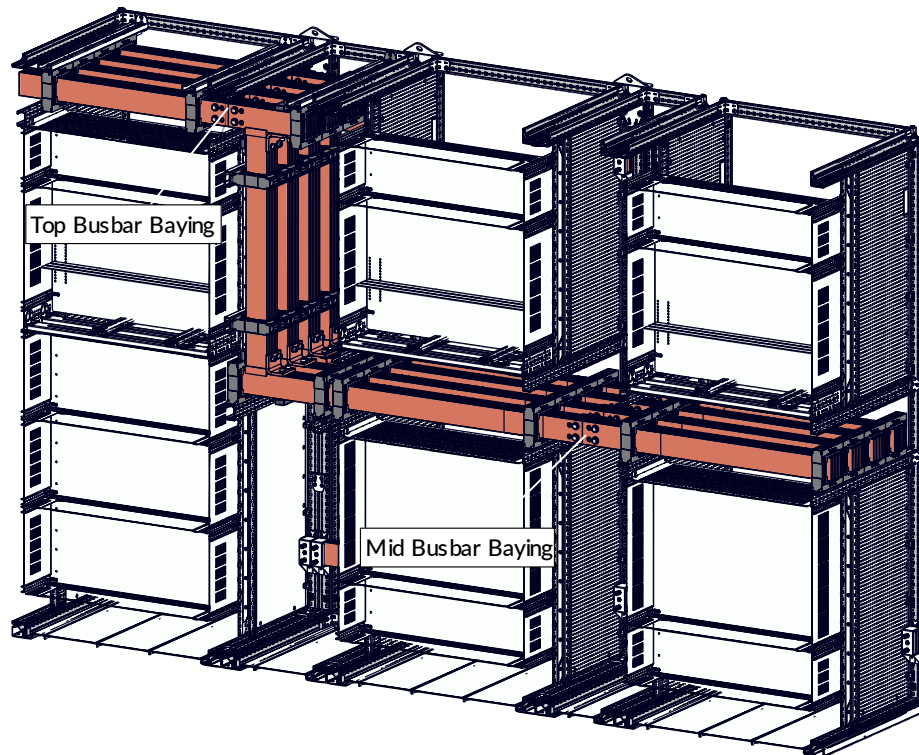
4.2 GROUP BAYING KIT ASSEMBLY



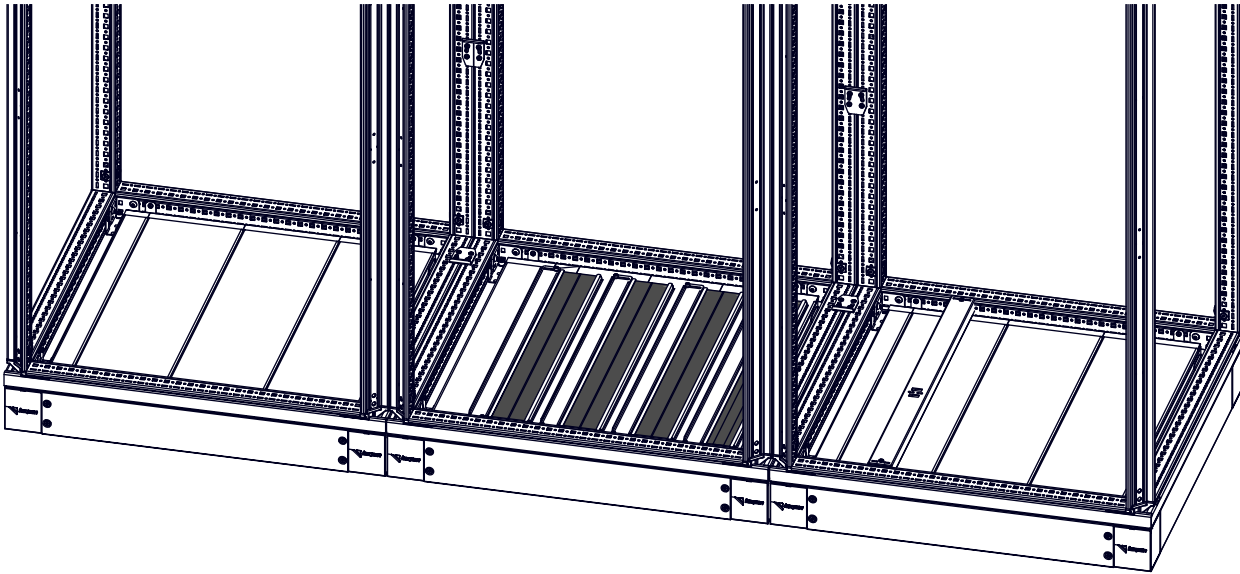
■ 4.2 GROUP BAYING KIT ASSEMBLY



■ 4.2 GROUP BAYING KIT ASSEMBLY



5. GLAND PLATE ASSEMBLY



Blank
Gland Plate

Rubber Foam
Gland Plate

Combined
Gland Plate

Blank Gland Plates;

- Standart PDS Gland Plate type.
- Design for every cabinet

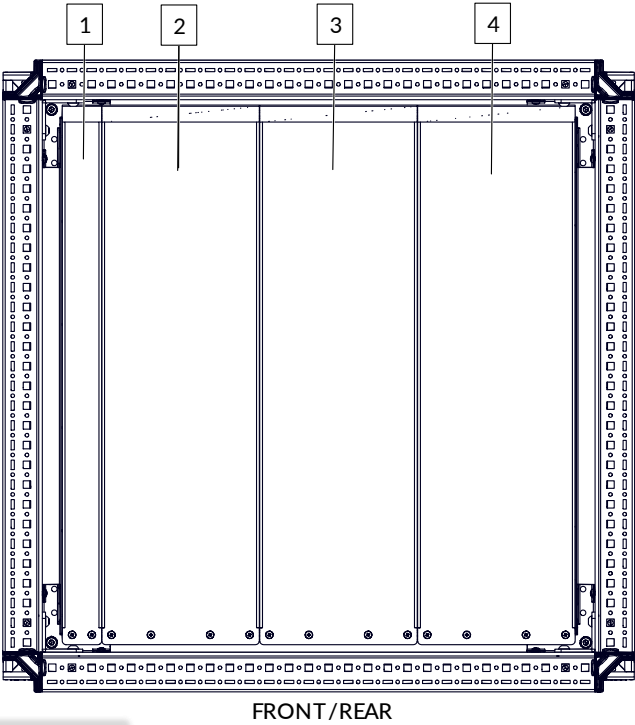
Foam Rubber Gland Plates;

- Optional PDS Gland Plate type.
- Design for easy cable Access,
- Easy moveable desing,
- Design for ACB/Cabling Section.

Combined Gland Plates;

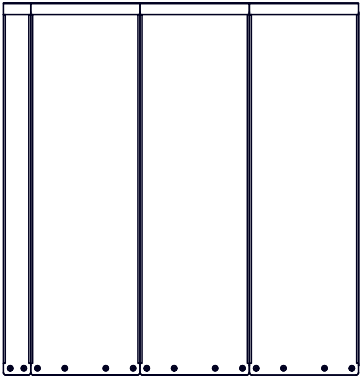
- Standart PDS Gland Plate type.
- Design for Combined Feeder Section,
- Combined Feeder Section must be assemble with tihs gland plate

5.1 BLANK/COMBINED GLAND PLATE ASSEMBLY

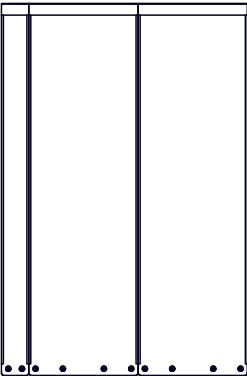


Required Packages:
Blank:1005.1XX

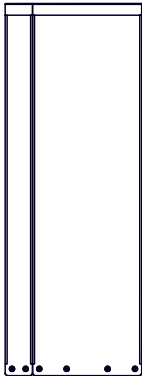
800W



600W



400W

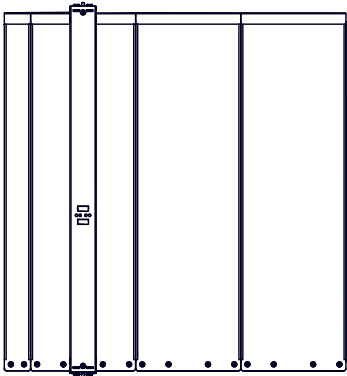


300W

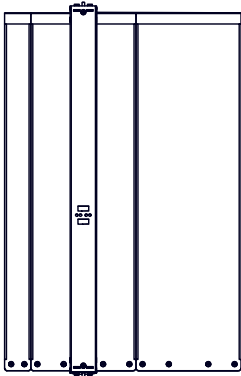


Required Packages:
Combined Ver.:1005.2XX

800W



600W



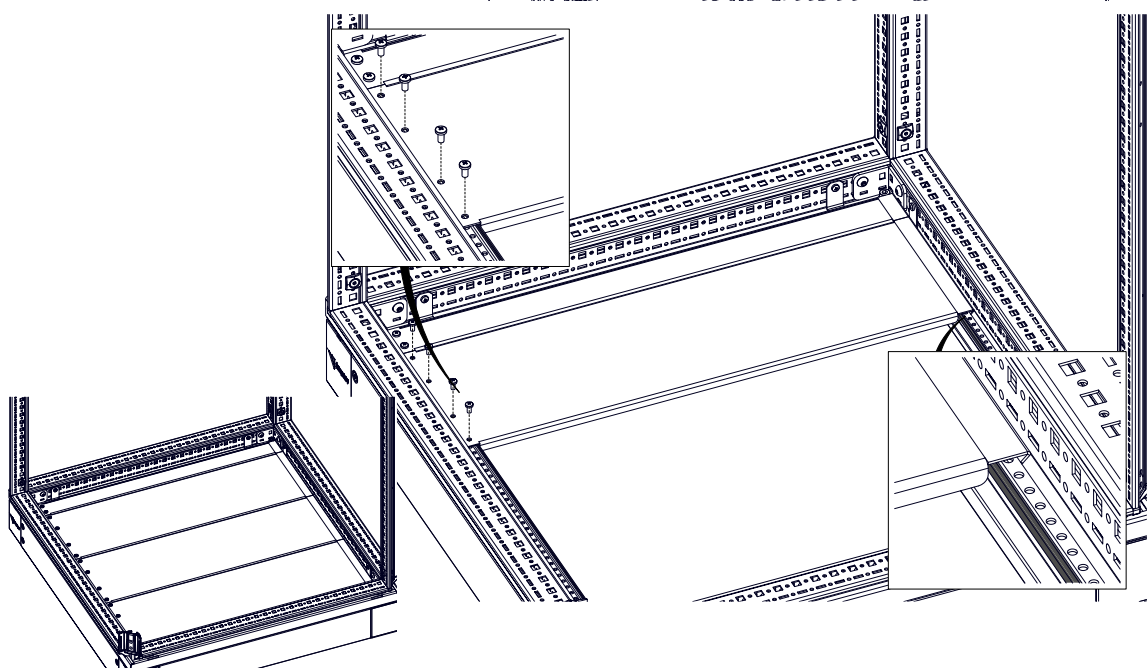
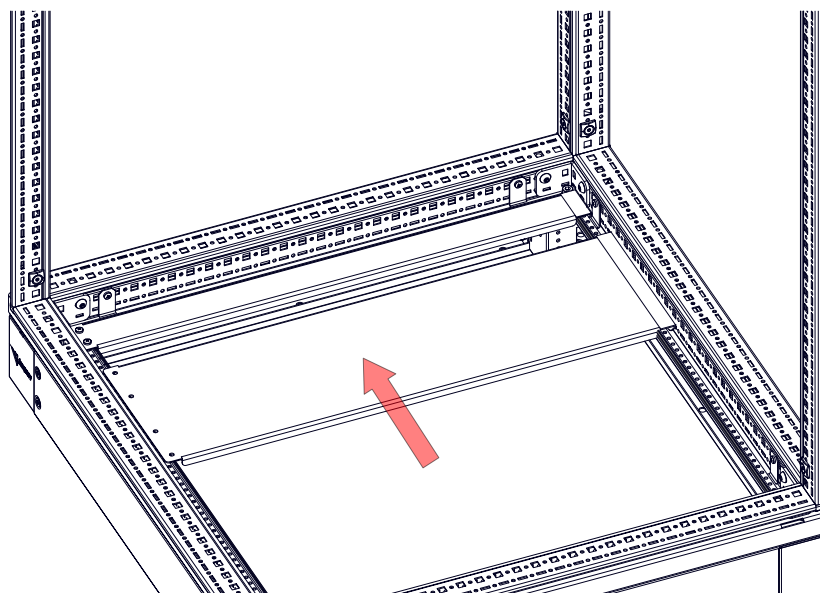
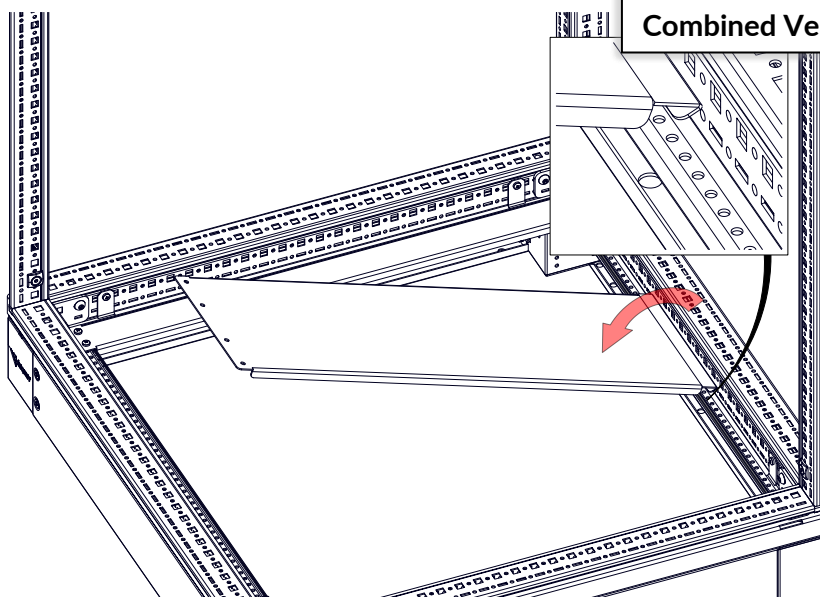
For Combined Gland Plate assembly check the [Combined Feeder Assembly Instruction](#)

5.1 BLANK/COMBINED GLAND PLATE ASSEMBLY

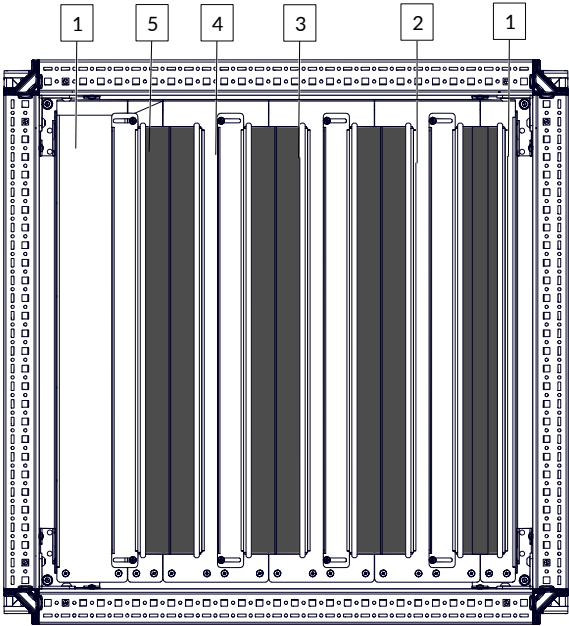


M5X10

Required Packages:
Blank:1005.1XX
Combined Ver.:1005.2XX

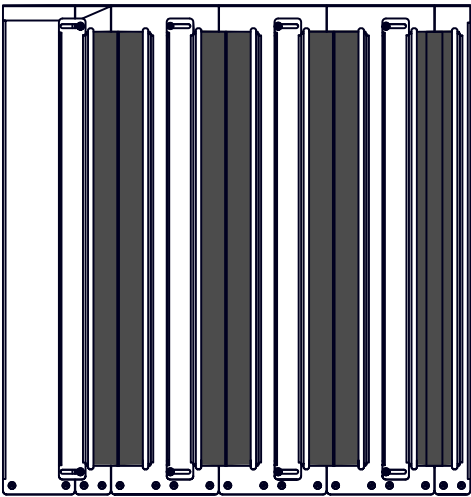


5.2 RUBBER FOAM GLAND PLATE ASSEMBLY

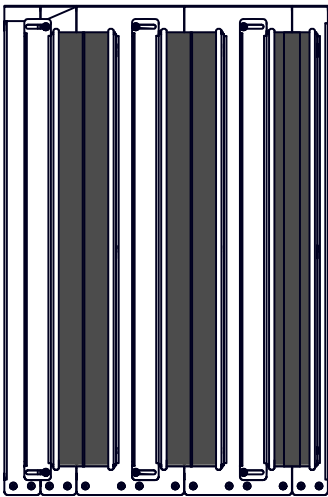


FRONT / REAR

800W



600W



400W

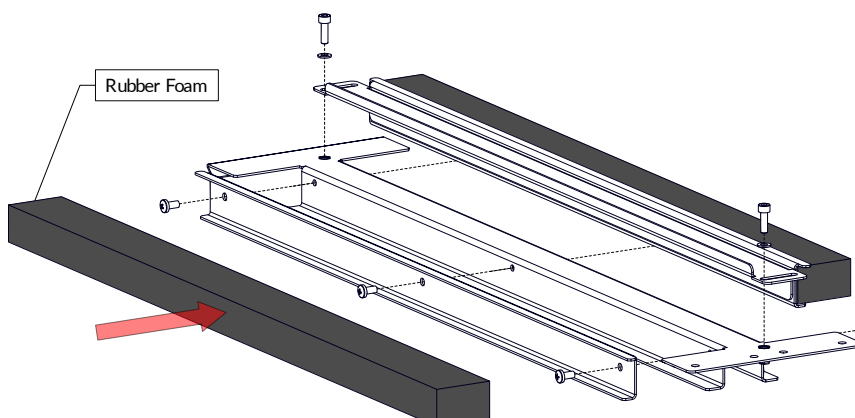
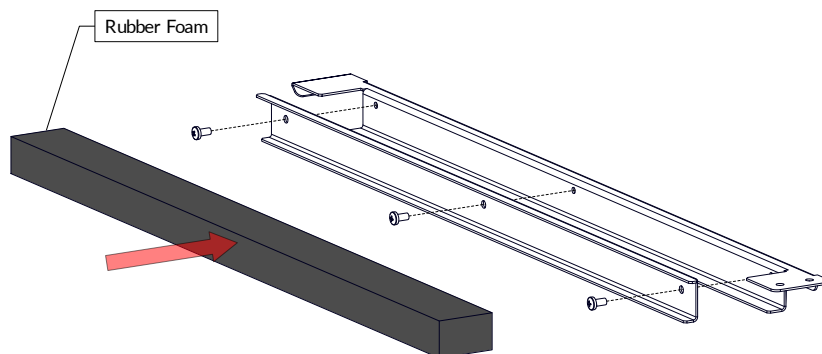
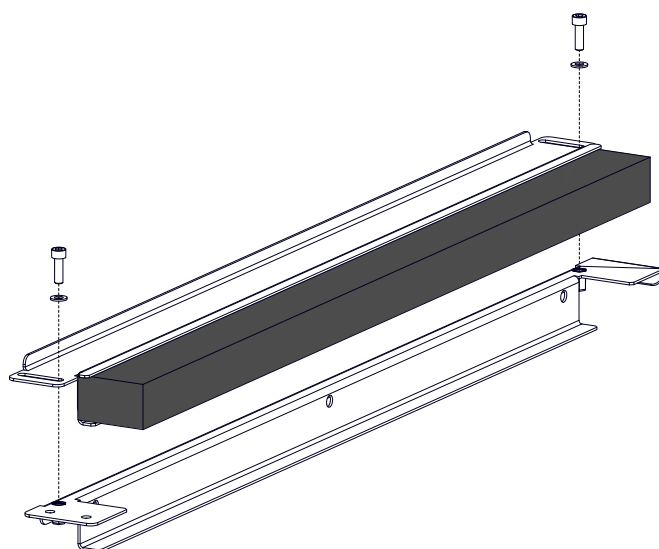
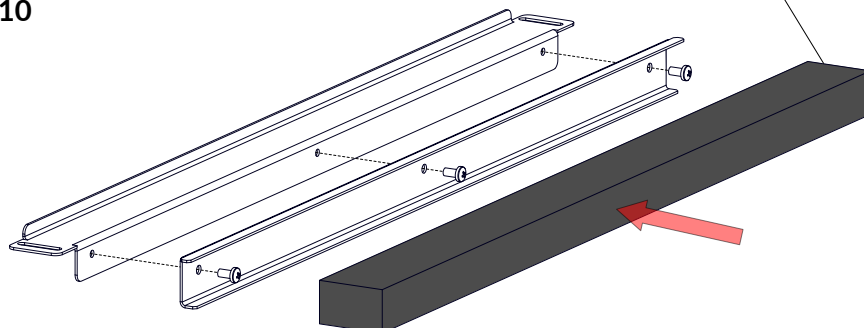


5.2 RUBBER FOAM GLAND PLATE ASSEMBLY



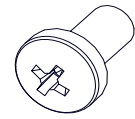
Required Packages:
1005.4XX

Rubber Foam



■ 5.2 RUBBER FOAM GLAND PLATE ASSEMBLY

Required Packages:
1005.4XX



M5X10

