**LIFTINGITALIA S.r.l.**
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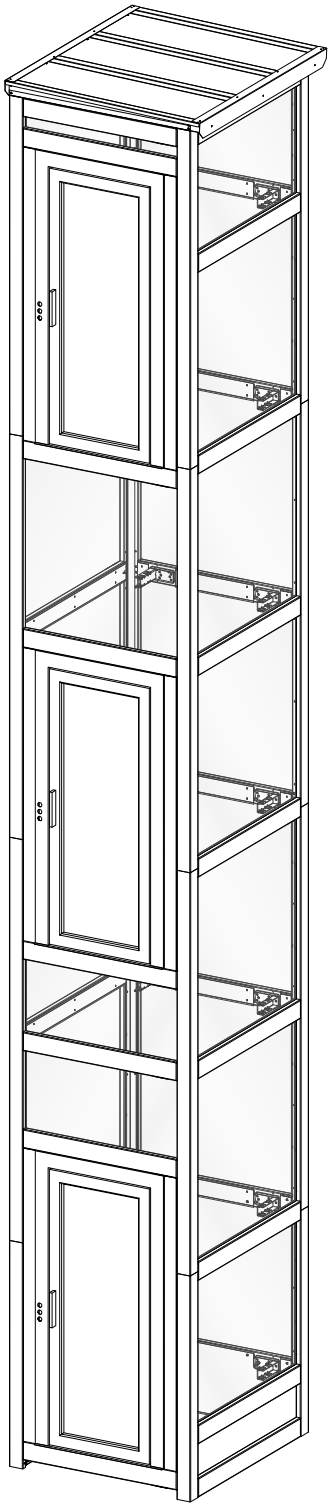
AREALIFT LIFTINGITALIA

# CROSS 50.2

Steel structure



## INSTALLATION, COMMISSIONING INSTRUCTIONS AND MAINTENANCE

| | | |
|---|---|---|
| 5.4 | General update | 13.10.2021 |
| 5.3 | Update §7.16-7.19 + §8.3-8.4 | 07.10.2021 |
| 5.2 | Update page 22 | 06.10.2020 |
| 5.1 | Update pagese 42, 43 | 11.03.2019 |
| 5 | General update | 07.01.2019 |
| 4 | Update pages 5, 11, 28 | 19.07.2016 |
| 3 | Update pagese 5, 12, 13, 15, 22, 24, 32 | 17.06.2016 |
| 2 | General update | 23.11.2015 |
| *Rev.* | *Description* | *Date* |

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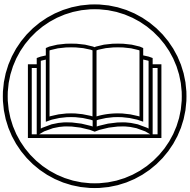
## PURPOSE OF THE MANUAL

The purpose of this manual is to provide correct information on the installation of the product, in order to contribute to personal safety and to the proper functioning of the system. Keep the manual for the entire life of the product. In the event of a change of ownership, the manual must be provided to the new user as an integral part of the product.

| NOTICE | |
|---|---|
|  | **READ THIS MANUAL CAREFULLY** before installing and using the product. This product must be installed and put into operation according to the provisions and regulations in force. Improper installation or improper use of the product can cause damage to people and property, as well as cause the warranty to lapse. |
| | **FOLLOW THE SUGGESTIONS AND RECOMMENDATIONS TO OPERATE IN SAFETY.** Any unauthorized modification can compromise the safety of the system, as well as the correct operation and the life of the machine. If you have any doubts regarding the correct understanding of the information and contents contained in this manual, contact LIFTING ITALIA S.r.l. immediately. |
| | **QUALIFIED PERSONNEL:** The product covered by this documentation can only be installed by qualified personnel, in compliance with the attached technical documentation, above all in compliance with the safety warnings and the precautions contained therein. |
| | Keep the technical and safety documentation near the system. |

## PERSONAL SECURITY AND RISK RECOGNITION

This manual contains safety rules that must be observed to safeguard personal safety and to prevent damage to the property. The indications to be followed to guarantee personal safety are highlighted by a triangle symbol while those to avoid material damage are not preceded by the triangle. The hazard warnings are shown as follows and indicate the different levels of risk in descending order.

**RISK SYMBOLOGY AND PHRASES**

| RISK CLASSIFICATION AND RELATIVE GRAVITY OF DAMAGE | | |
|---|---|---|
| **DANGER** | The symbol indicates that the failure to comply with appropriate safety measures **causes** death or serious physical injury. | RISK LEVEL |
| **WARNING** | The symbol indicates that the failure to observe the corresponding safety measures **can cause** death or serious personal injury. | |
| **CAUTION** | The symbol indicates that failure to observe the relevant safety measures **can cause** minor or moderate personal injury or damage to the device. | |
| **NOTICE** | It is not a symbol of security. It indicates that the failure to comply with relevant safety measures **can result** in property damage. | |
| **INFORMATION** | It is not a symbol of security. It indicates important information. | |

If there are multiple levels of risk, the danger warning always indicates the highest one. If a warning is drawn with a triangle to warn to the risk of injury to persons, the risk of possible property damage may also be caused at the same time.

**NOTE:** During installation / maintenance of the platform, the safety functions are temporarily suspended. Therefore all necessary precautions must be taken to avoid personal injury and / or damage to the product.

## MANUAL READING GUIDE

| WARNING SIGN | | | | | |
|---|---|---|---|---|---|
|  | GENERAL DANGER |  | ELECTRICITY DANGER |  | DANGER FLAMMABLE MATERIAL |
|  | DANGER OF FALL BY A LEVEL |  | DANGER SUSPENDED LOADS |  | DANGER CORROSIVE SUBSTANCES |

| PROHIBITION SIGN | | | | | |
|---|---|---|---|---|---|
|  | GENERIC PROHIBITION |  | FORBIDDEN TO STEP ON |  | PROHIBITED TO WALK ON OR STOP IN THIS AREA |

| MANDATORY SIGN | | | | | |
|---|---|---|---|---|---|
|  | OBLIGATIORY TO WEAR THE PROTECTION HELMET |  | OBLIGATORY TO WEAR SAFETY SHOES |  | OBLIGATORY WEAR THE PROTECTIVE GLOVES |
|  | OBLIGATORY TO WEAR EYE PROTECTION |  | OBLIGATION TO WEAR THE AUDIO PROTECTION |  | OBLIGATORY TO WEAR THE MASK |
|  | OBLIGATORY TO WEAR PROTECTIVE CLOTHES |  | OBLIGATORY TO KEEP CLOSED |  | OBLIGATORY TO CHECK THE PROTECTIONS |

| EMERGENCY AND FIRST AID SIGNS | | INDICATION SYMBOLS | | | | | |
|---|---|---|---|---|---|---|---|
|  | FIRST AID |  | NOTA BENE |  | KEEP DRY |  | OBLIGATORY TO CHECK THE PROTECTIONS |

## LIABILITY AND WARRANTY CONDITIONS:

### RESPONSIBILITY OF THE INSTALLER

The elevator / platform is produced and intended to be installed as described in the attached project drawing and in this manual; any divergence from the prescribed procedure may affect the operation and safety of the system and cause the immediate cancellation of the warranty.

Any modification or variation made to the project and the to the assembly Instructions must be documented in detail and referred to LIFTING ITALIA S.r.l., in order to allow the company an adequate assessment. Under no circumstances can a modified system be activated without the express authorization of LIFTING ITALIA S.r.l.

Installers are responsible for ensuring compliance with safety procedures at work and any health and safety regulations in force in the country and on the site where the assembly is carried out.

The elevator / platform must only be used in the way envisaged by the system and illustrated in the relative manuals (transportation of people and / or things, maximum loads, cycles of use, etc.). LIFTING ITALIA S.r.l. assumes no responsibility for damage to persons and property caused by improper use of the system.

**NOTE:** Pictures and images on this manual are for illustration purposes only.

# 1. GENERAL DISPOSITIONS AND INSTALLATION SITE MANAGEMENT

## 1.1. GENERAL DISPOSITIONS

**IMPORTANT!**

For more information on safety, liability and warranty conditions, receipt and storage of material on site, packaging, waste disposal, cleaning and storage of the product; refer to the "**SAFETY INSTRUCTIONS AND SITE MANAGEMENT**" manual.

**NOTICE**

**PRELIMINARY CHECKS:** Once the packaging has been opened, check that the product is intact and has not been damaged during transport. Should any anomalies or damage be found, please dispatch them in writing on the transport document to the transport company, giving written notice to LIFTINGITALIA S.r.l.

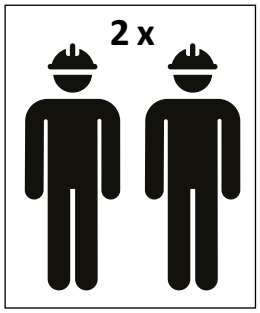
**NOTE:** In this manual, we will talk about "SHAFT" meaning for it the base slab, the slab of landing and the vertical wall that connects its slabs.

**⚠ CAUTION**

**SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:**

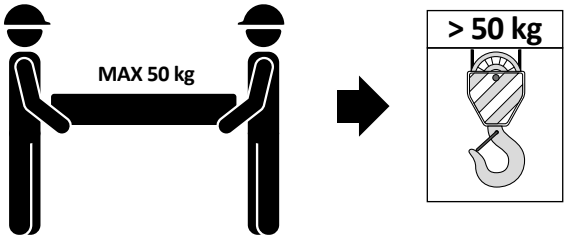
1. Always secure tools and any objects against falling;
2. Pay the utmost attention to all the steps described in this;
3. While assembling the parts making up the system or after installation, be careful of any sharp burrs (machining residues);

- Before proceeding with the installation, it is necessary to remove the rubble and the material deposited during the construction of the shaft.
- Only nuts and bolts included in the supply must be used.
- The bags containing the screws must be opened in correspondence with the respective operating phases indicated in this manual.
- The instructions described in this manual refer to a reinforced shaft, to a fastening with mechanical expansion plugs of the stud type. For the use of plugs in masonry other than the reinforced concrete see the attachment to this manual. For the shafts with metal framework, we proceed by replacing the plugs with normal screws.
- In these instructions and on the wiring diagram, the stops are indicated with 0, 1, 2, 3, meaning "0" the lowest stop: the numbers on the push-button panels may be different according to the user's needs (for example- 1, 0, etc.).




**The assembly must be performed by a MINIMUM 2 people;**

**If the load is greater than 50kg, use the hoist for handling.**

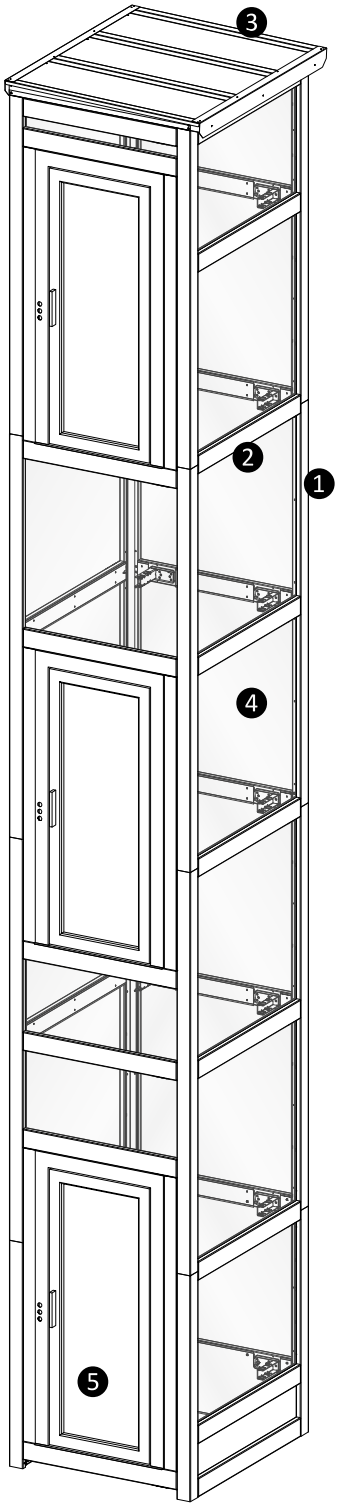


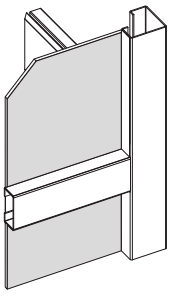
## 2. PRODUCT DESCRIPTION

### 2.1. GENERAL DESCRIPTION AND TERMINOLOGY

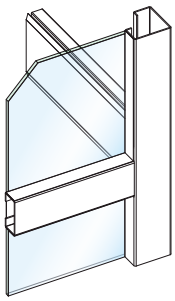
CROSS 50.2 2 is a steel structure for lift and lifting platform, suitable to be placed both inside and outside the building, consisting of bolted uprights and connecting crosspieces, bolted, prepared for fixing glasses or panels from inside the structure.
The CROSS 50.2 structures are tested according to the NTC2008 standards for installations in seismic zones.

1. Uprights
2. Crossbeams
3. Roof
4. Panels (blind o glasses)
5. Landing door



BL panel (blind)



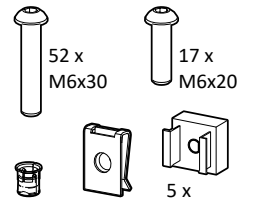
GLpanel (glass)

LIFTINGITALIA S.r.l. goal is to promote the continuous improvement of its products and consequently their technical specifications may be subject to change without notice or commitment.

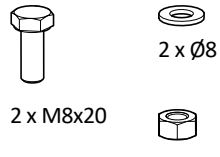
## INFORMATION 3. BOX CONTENT - SCREWS KIT

**NOTE:** Each "KIT" box with its identification code represents the packaging unit, i.e. how many pieces per type are contained in each package.

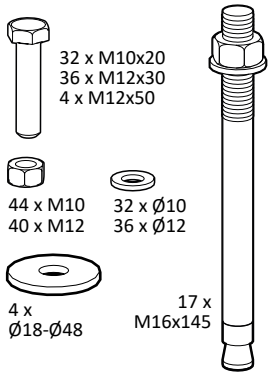
### KIT S001.23.0001
**COLUMNS AND BEAMS KIT**



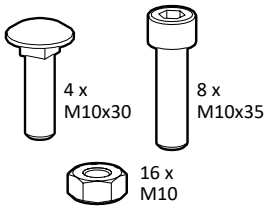

### KIT S001.23.0007
**< 100 PIT KIT**



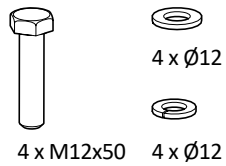

### KIT S001.23.0002
**ANCHORING KIT - PIT / HEAD ROOM**



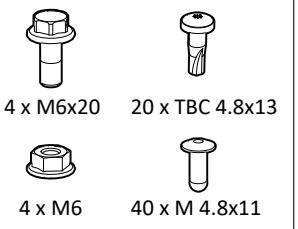

### KIT S001.23.0008
**SIDE CROSS BRACING KIT**



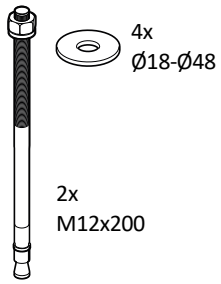

### KIT S001.23.0003
**GUIDE BRACKETS KIT**



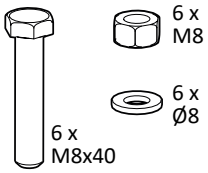

### KIT S001.23.0004
**CEILING KIT**



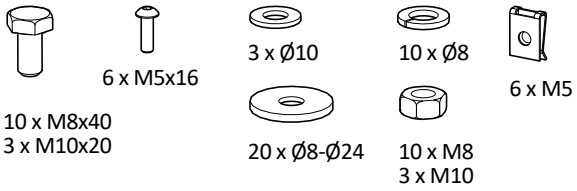

### KIT S000.23.0012
**STRUCTURE-TO-SIDE WALL FIXING KIT**



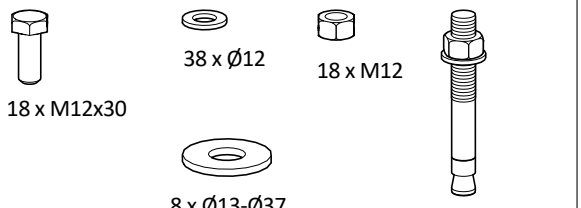

### KIT S001.23.0013
**CANOPY ROOF KIT**



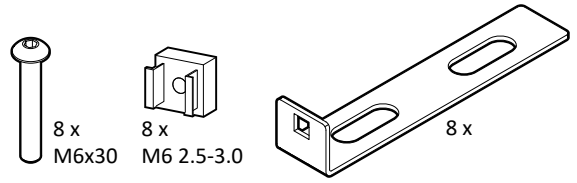

### KIT S001.23.0005
**DOOR SIDE PANELS KIT**




### KIT S000.23.0019
**STRUCTURE FIXING CLAMP KIT**




### KIT S001.23.0010
**DOMOFLEX OPEN UPRIGHT CLOSING KIT**



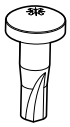
**KIT S000.23.0009**

**POP RIVETS KIT**

40 x M3,2x7

**KIT S000.23.0007**

**SELF DRILLING SCREWS KIT**



50 x M4.8x13

**KIT S000.23.0010**

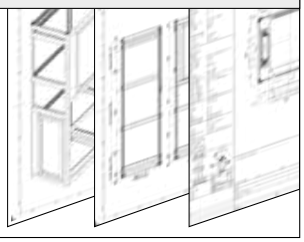
**PANELS JOINING KIT**

4 x M6x20

4 x M6

**ADHESIVE SEAL TAPE**

**LAYOUTS**

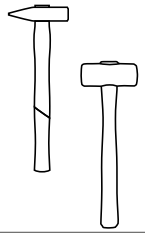


**CANOPY ROOF KIT**

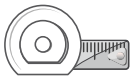
**INFORMATION** **4. EQUIPMENT AND MATERIALS REQUIRED FOR ASSEMBLY**

Hammer

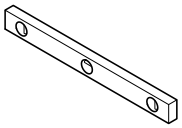
Rubber hammer



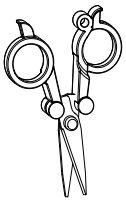
Tape measure



Spirit level

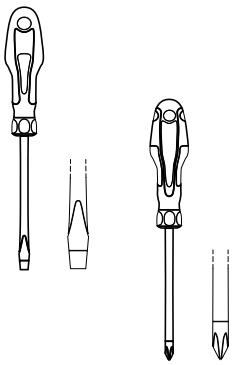


Scissors for electricians



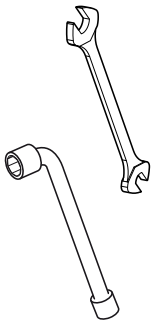
Flat-blade screwdriver

Phillips screwdriver



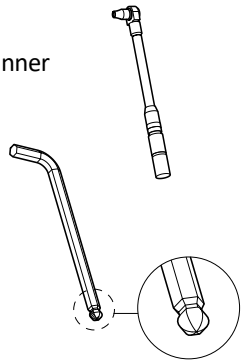
Spanner
8 ÷ 17 mm
2 each size

Socket wrench
8 to 24 mm



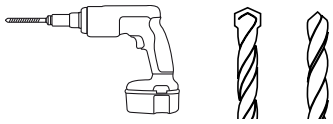
Ratcheting ring spanner
13 to 17 mm

Allen key
with ball end
3 to 6 mm

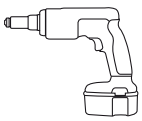


Drill
Ø 3 to 16 mm

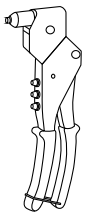
for Brickwork
Metal



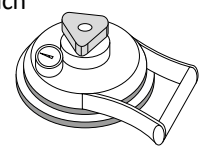
Screwdriver
6 to 10 mm



Riveter

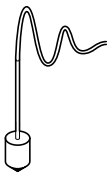


Suction cups
100 kg/each
2 x

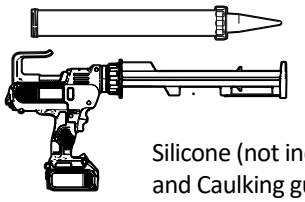


Hoist
150 kg

Plumb bob



Torque spanner



Silicone (not included)
and Caulking gun

### 4.1. TIGHTENING TORQUES VALUES (TORQUE SCREWS)

To tighten the screws, use the tightening torques as it is indicated in the following table:

| SCREWS | MAX TORQUE (Nm) | MIN TORQUE (Nm) |
|---|---|---|
| **M8** | 21 | 17 |
| **M10** | 42 | 34 |
| **M12** | 71 | 57 |

## 5. PRELIMINARY OPERATIONS

### 5.1. PRELIMINARY SAFETY CHECKS

**⚠ WARNING**

**BEFORE STARTING THE INSTALLATION, YOU NEED:**

- Check that the main electrical system is up to standard and provided with adequate grounding; **Otherwise, stop the installation until the Customer has made the system up-to-date.**
- Check the presence of an efficient lighting system at the place of installation;
- Check the cleanliness of the shaft and pit and that there are no liquids (water, oil, ...) on the bottom;
- Check that the entrances to the work areas are properly closed;
- Check that all the holes and the housings for the electric cables are free, inspectable, well finished and dry;
- Check that there is adequate ventilation for the smoke exhaust;

### 5.2. PRELIMINARY CHECKS OF THE INSTALLATION SITE

**NOTICE**

**BEFORE STARTING THE INSTALLATION CHECK THE FOLLOWING MEASURES AND COMPARE THEM WITH THOSE ON THE PROJECT DRAWING:**

- Width (distance between the side walls)
- Depth (distance between front and back wall)
- Pit depth
- Travel
- Headroom height
- Plumbing of the shaft and any plumb parts already installed
- Dimensions of any necessary arrangements (breaking down the landing doors, distance between the guides,
- Determine the finished floor level of each floor;

**Measure the width and length of the shaft at all levels. Perform the dimensional checks independently of the measurements taken by the building manufacturers.**

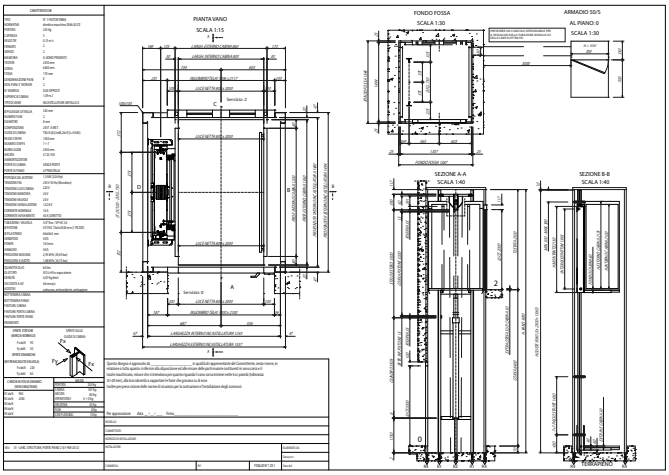
### 5.3. OBLIGATIONS OF THE INSTALLER

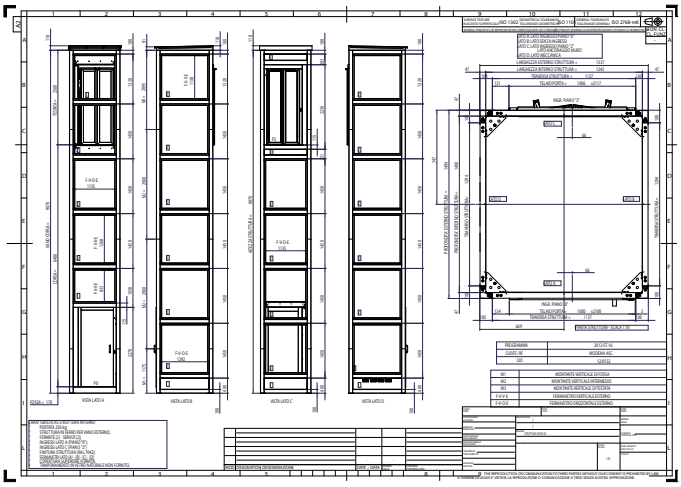
**BEFORE STARTING THE INSTALLATION, YOU NEED:**

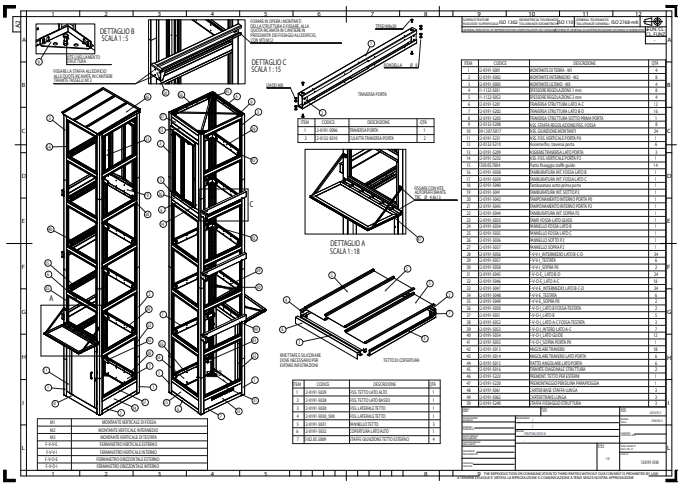
- Arrange a material deposit area near the work area, easily accessible and protected from the bad weather;
- Prepare any lifting equipment to be used;
- Check the presence of all materials, using the list;
- Check the state of all materials at the time of receipt on site and in case of damage or missing contact the supplier immediately;
- Periodically check the materials destined for long storage before installation to avoid possible deterioration caused by incorrect storage;
- Check the completeness of the attached documentation

## INFORMATION

- For the structure assembly, consult the project drawings.
- This manual shows different ways of component fixing.
- Every structure has its own sequence of steps, defined in the project drawings.
- In many cases, the project drawings must be consulted, for a correct project execution (crossbeams center to center distance, doors / roof / rain shelter positioning, etc.).







## NOTICE

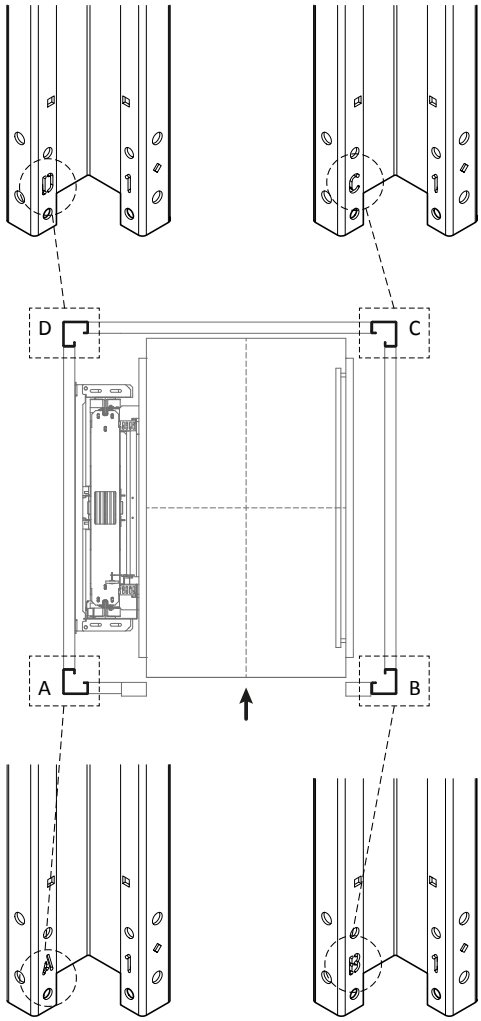
Before proceeding with the shaft installation make sure that THE SCAFFOLDING OUTSIDE THE STRUCTURE AREA HAS BEEN INSTALLED AND SAFELY.

## 6. HOW TO RECOGNISE THE JAMBS AND THE BEAMS

### 6.1. JAMB IDENTIFICATION

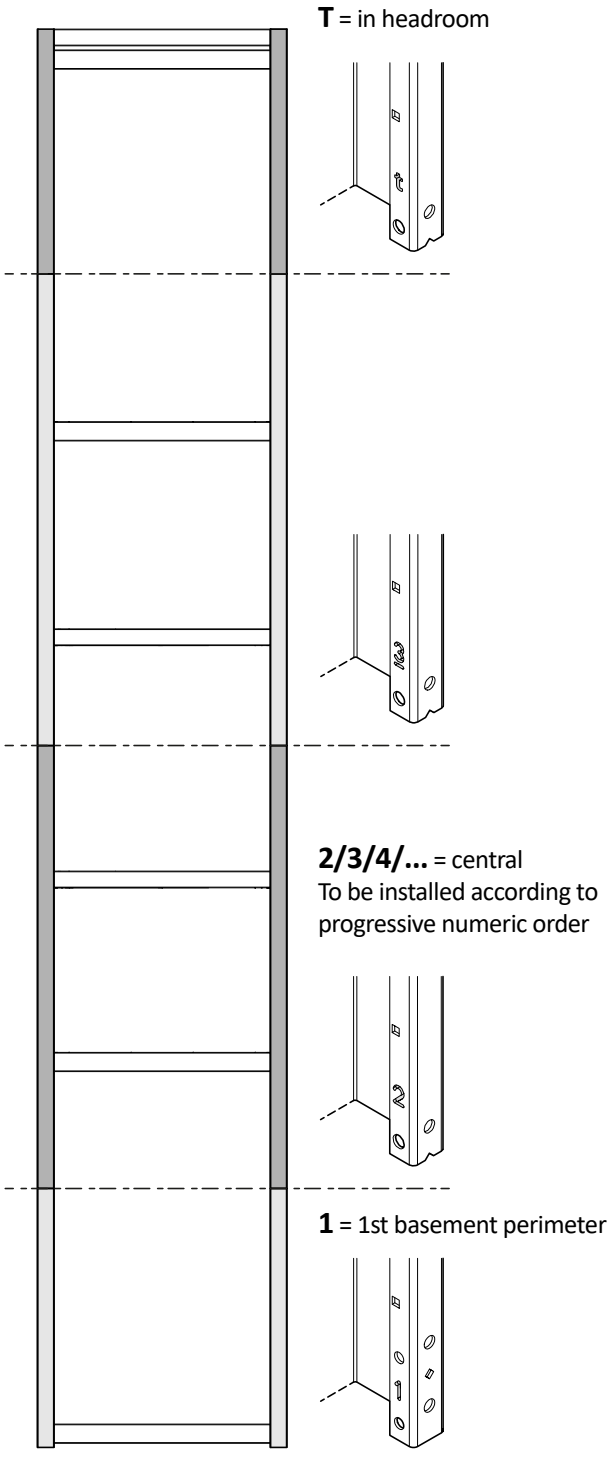
**INFORMATION**

EACH JAMB BEARS A LETTER ENGRAVED ON ITS SIDE.
The project drawing shows the correct positioning jambs by means of the location of these letters.



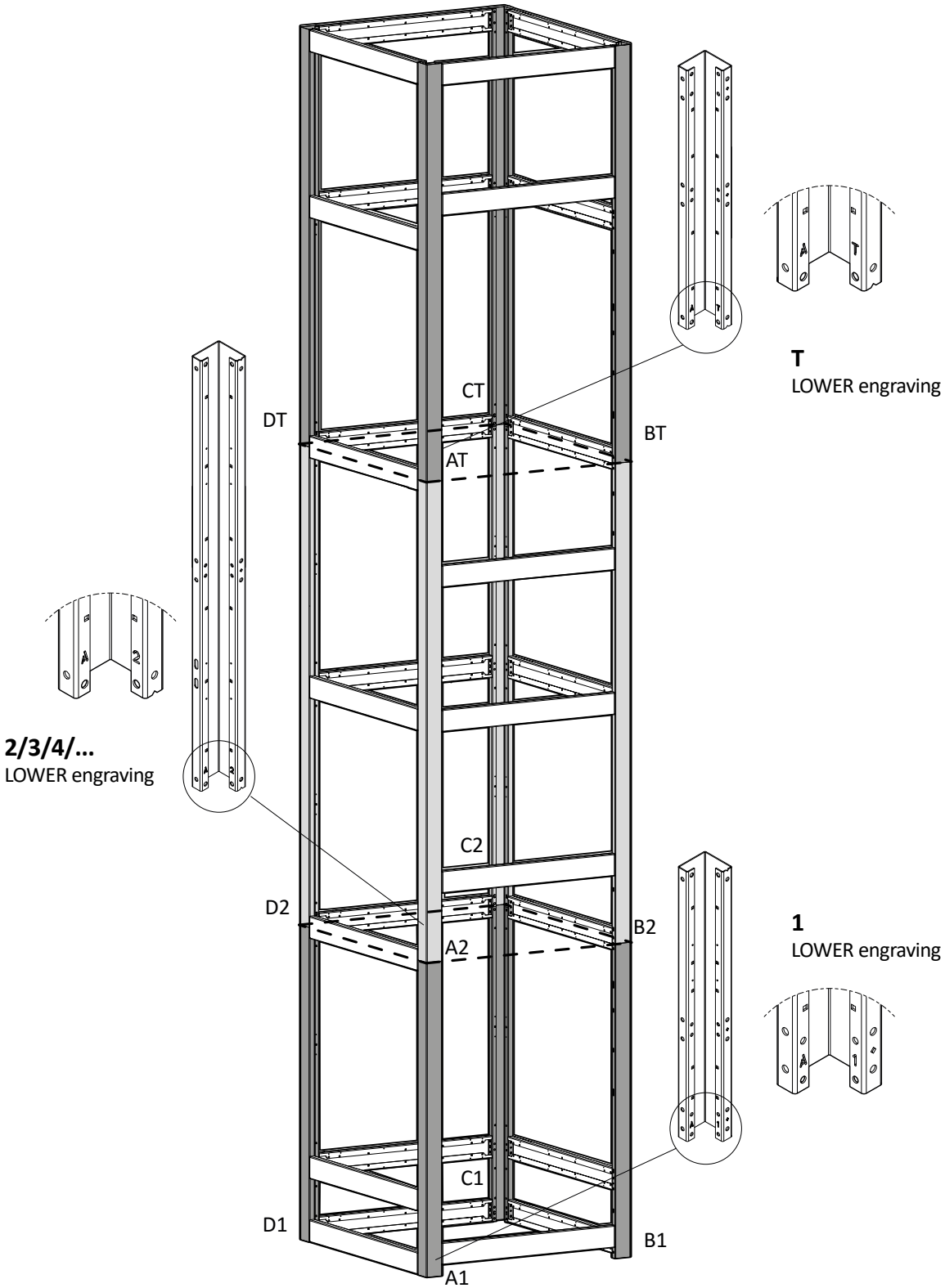

**INFORMATION**

EACH JAMB BEARS A NUMBER ENGRAVED ON ITS SIDE to determine the correct installation sequence.



## INFORMATION

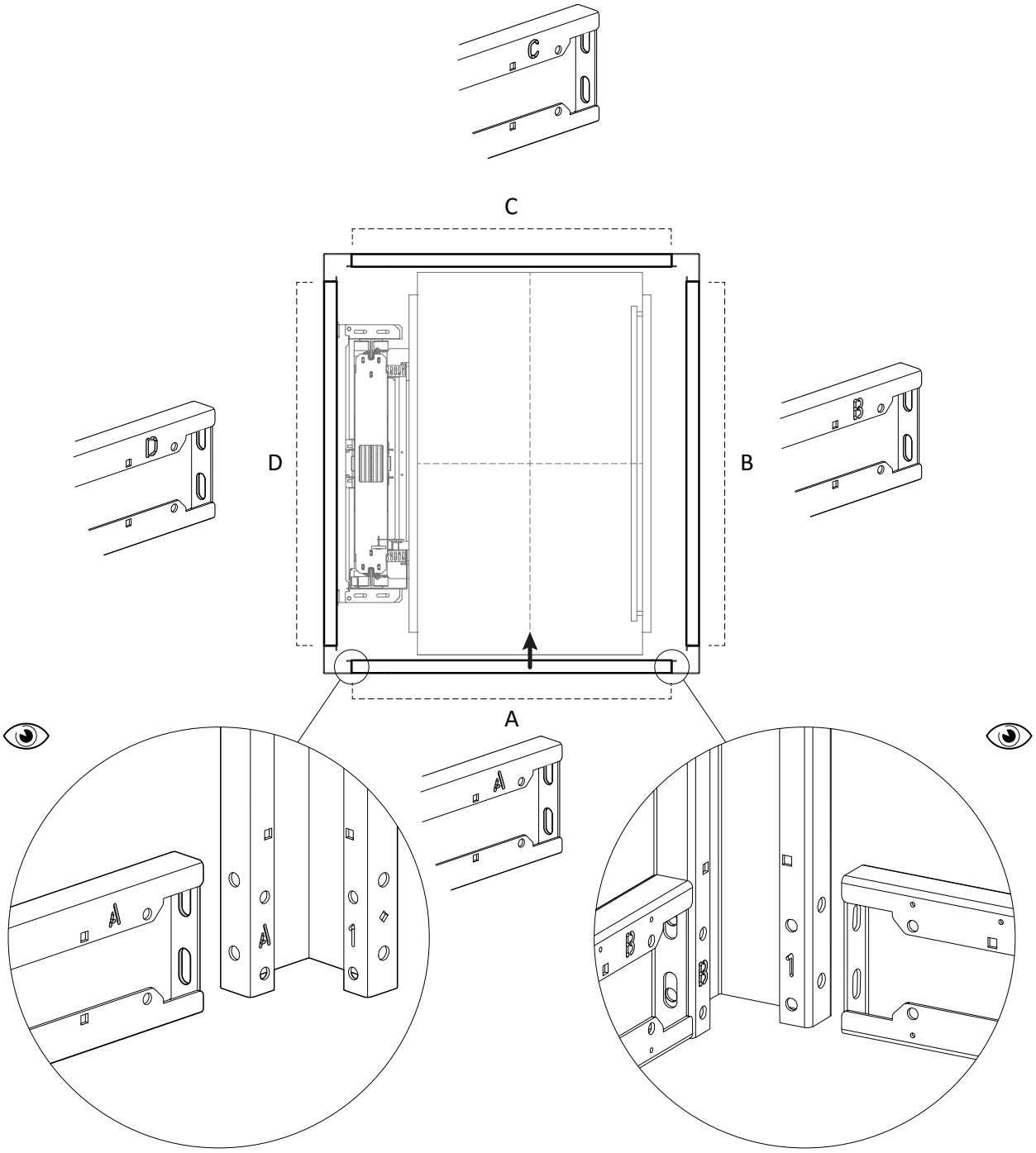
Orientate the jambs to have THE ENGRAVINGS READABLE FROM BELOW.



## 6.2. BEAM IDENTIFICATION

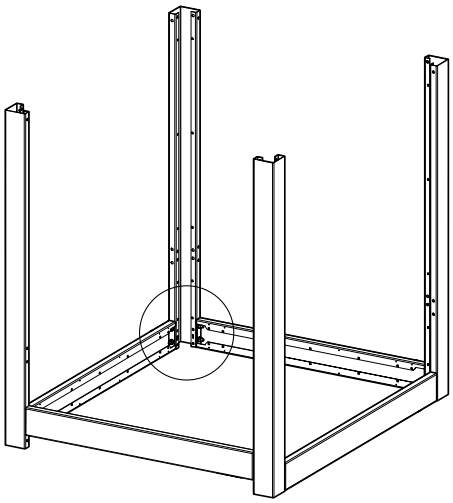
**INFORMATION**

EACH BEAM BEARS A LETTER ENGRAVED ON ITS SIDE. The project drawing shows the correct positioning jambs by means of the location of these letters.



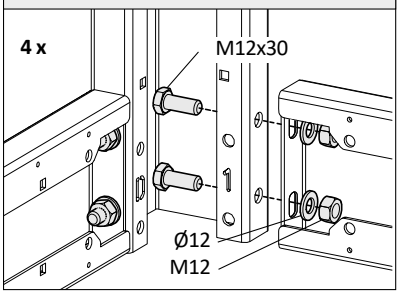
## 7. STEEL STRUCTURE INSTALLATION

### 7.1. BASEMENT PERIMETER ASSEMBLY

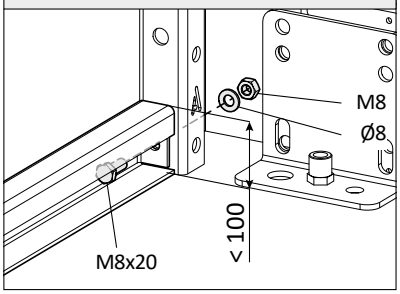


- Refer to the project drawing enclosed with the structure, to assembly the first perimeter. Then fix the jambs and the crossbeams.

**KIT S001.23.0001**

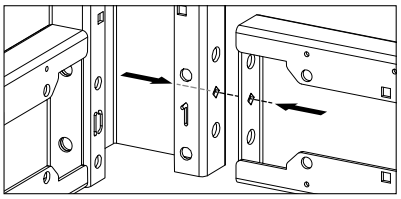



**KIT S001.23.0007**

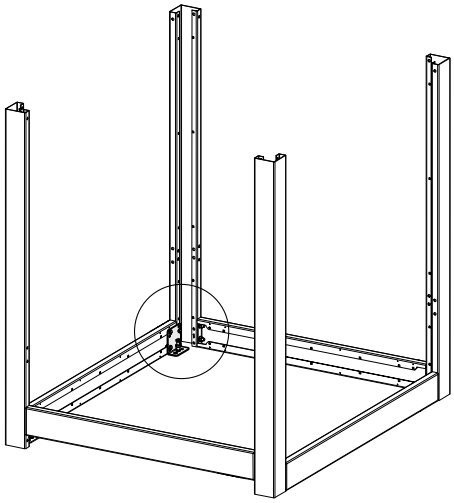



**INFORMATION**

Check the right position of the crossbeams using the rumble positioned on the left side of the crossbeam (looking from the inside).

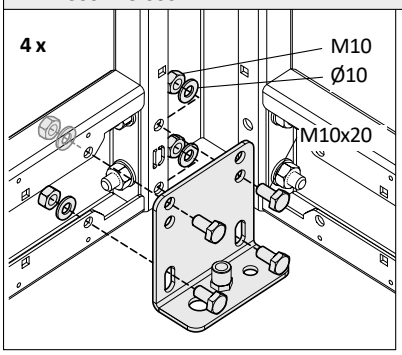


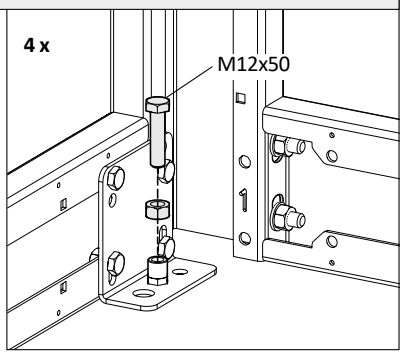
### 7.2. CORNER BRACKETS FIXING



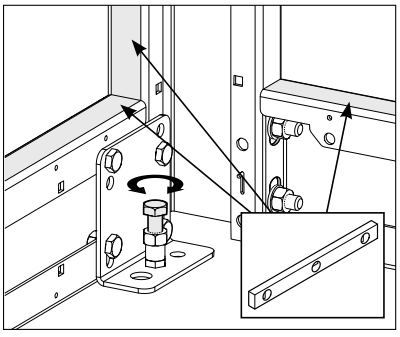
- Position the corner brackets on each jamb on the pit bottom.
- Insert the push screws in the pre-arranged threaded inserts.

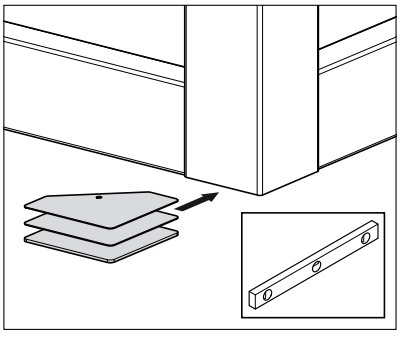
**KIT S001.23.0002**



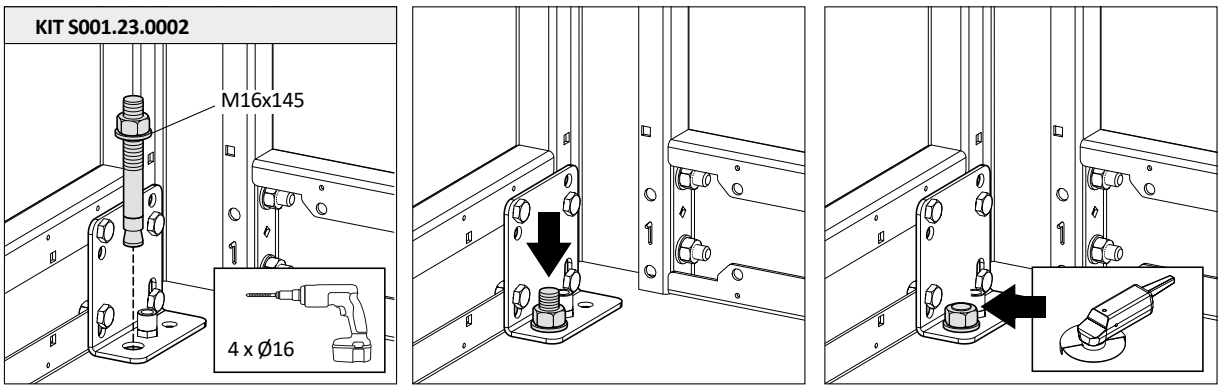




- Level the structure tightening or loosening push screws.
- Fill any slot between the jambs and the floor (1 and 3 mm shims are enclosed with the structure).

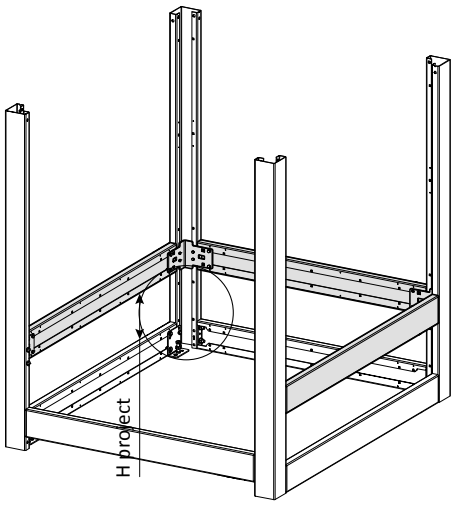




- Drill the floor in accordance with the prearranged holes in the corners.
- Insert the plugs in the holes and fix them.
- Remove the 4 push screws.
- Cut any protrusion of the screw with an angle grinder.



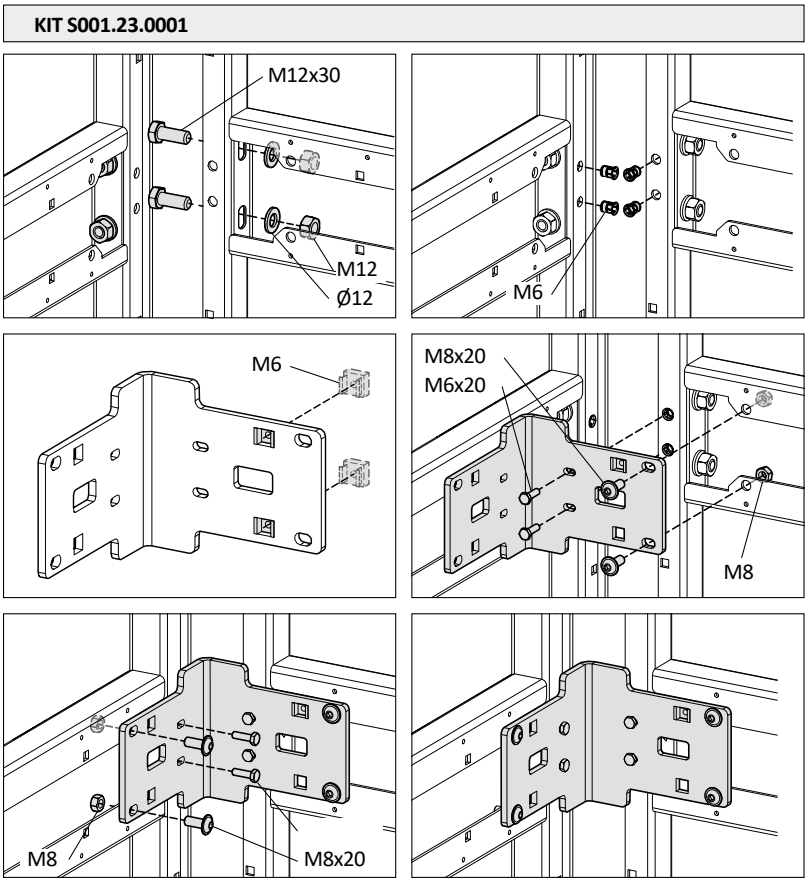

## 7.3. JAMB 107X107 - POSITIONING OF THE BEAMS WITHOUT THE CROSS JUNCTION



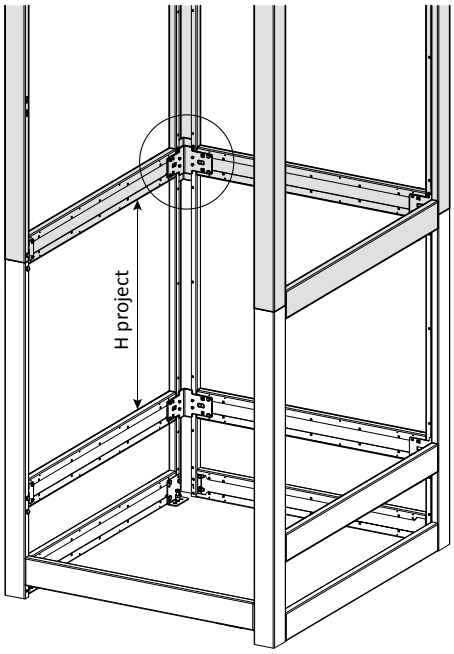

- Fix the beams directly on the cross
- Insert the nuts in the holes on the cross
- Fix the reinforcing plate

**INFORMATION**

Insert the nuts in the reinforcing plate which will be positioned on the side of the guides

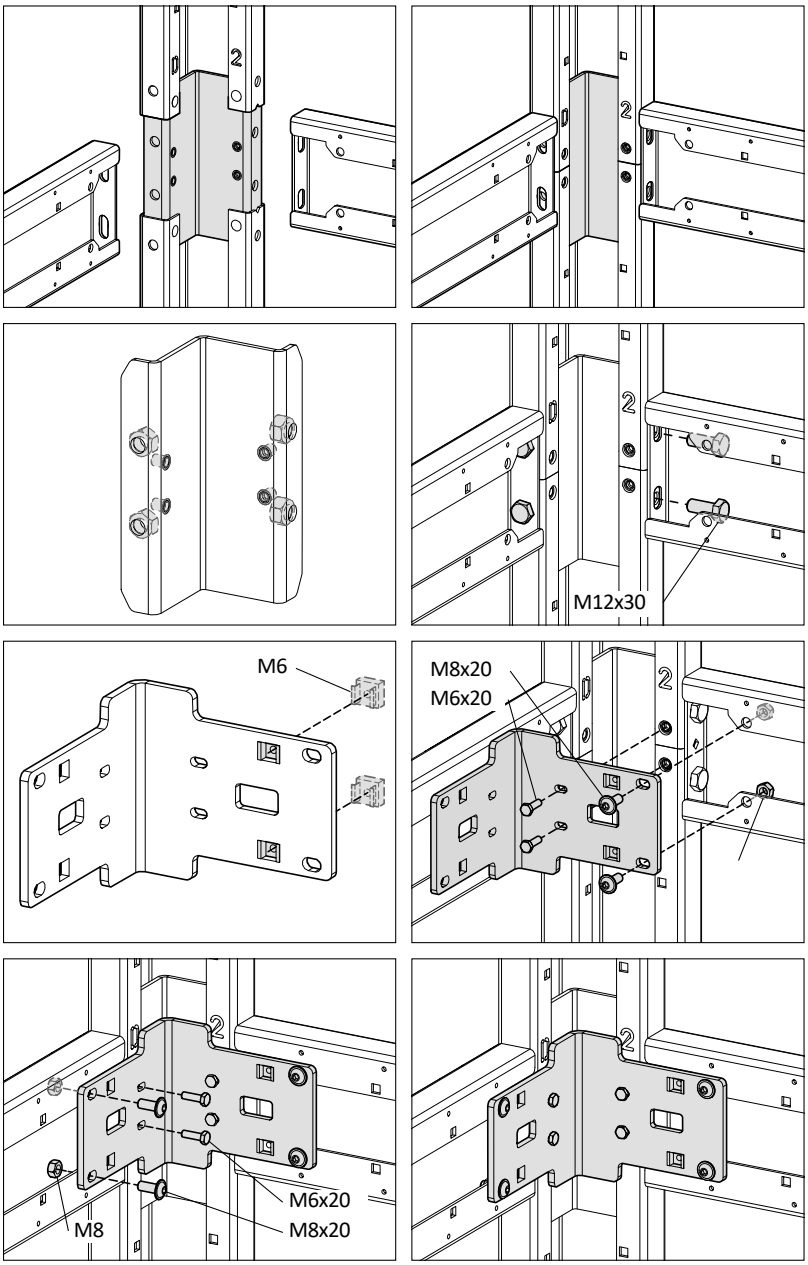


## 7.4. JAMB 107X107 - POSITIONING OF THE BEAMS WITH THE CROSS JUNCTION




- Insert the junction plate inside the cross and fix it with necessary screws. The plate has the prewelded components to simplify the commisioning.
- Fix the reinforcing plate

**KIT S001.23.0001**

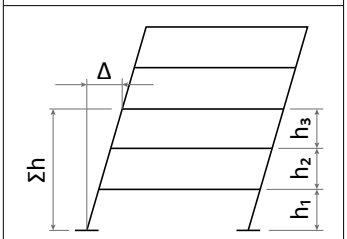
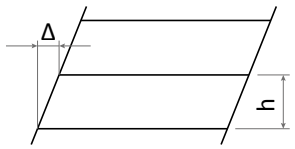
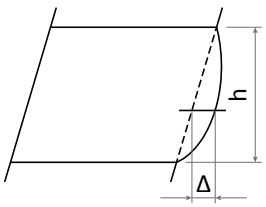
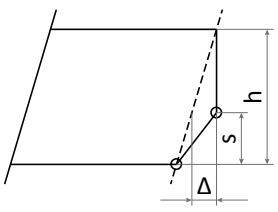



### INFORMATION

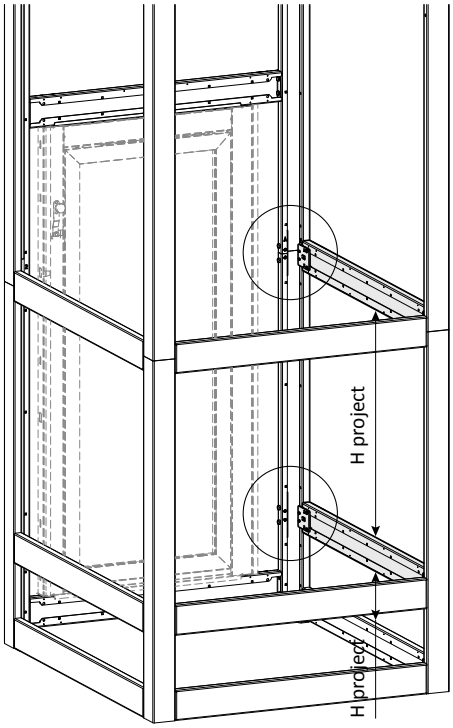
Insert the nuts in the reinforcing plate which will be positioned on the side of the guides

## 7.5. TOLERANCE

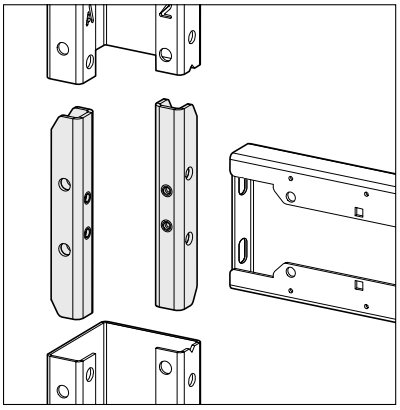
- Check the installation tolerances using the following table.

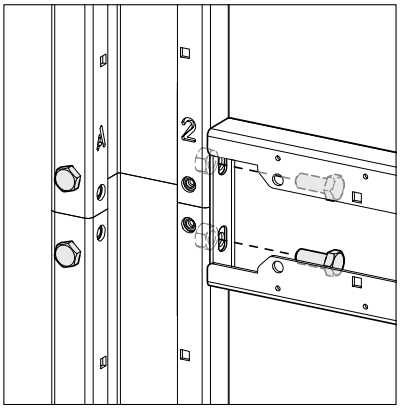
| N° | Measure | Parametres | Admissible deviation Δ | |
|---|---|---|---|---|
| | | | Category 1 | Category 2 |
| 1 | The position of any level of the floor in correspondence to the basic one:<br>  | The position of the column in the plan, relative to the vertical line which crosses its center on the basic level. | \|Δ\| = ∑h/(300√n) | \|Δ\| = ∑h/(500√n) |
| 2 | The inclination of one column between two levels of the adjoining floors:<br>  | The position of the column in the plan, relative to the vertical line which crosses its center of the lower floor. | Δ = ± h/500 | Δ = ± h/1000 |
| 3 | Rectilinearity of one continuous column between two levels of the adjoining floors:<br>  | The position of the column in the plan, related to the straight line between the adjoining points of the position of levels of the floor. | Δ = ± h/750 | Δ = ± h/1000 |
| 4 | Rectilinearity of one combined column between two levels of the adjoining floors:<br>  | The position of the column in the plan of the joining, related to the straight line between the adjoining points of the position of levels of the floor. | Δ = ± s/750<br>with s ≤ h/2 | Δ = ± s/1000<br>with s ≤ h/2 |

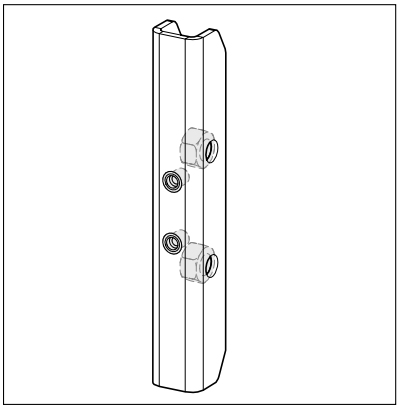
## 7.6. JAMB ≠ 107 - POSITIONING OF THE BEAMS WITHOUT THE CROSS JUNCTION AND BEAMS ON THE DOORS SIDE

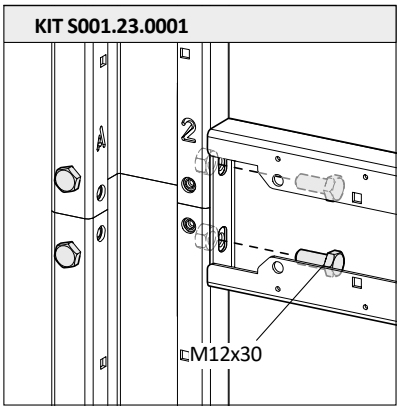



- Insert the junction plate inside the cross and fix it with necessary screws. The plate has the prewelded components to simplify the commisioning.



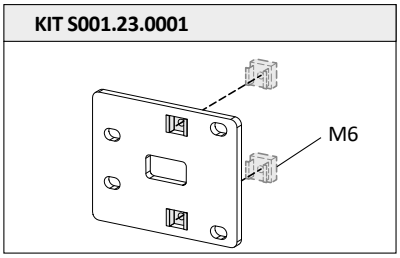




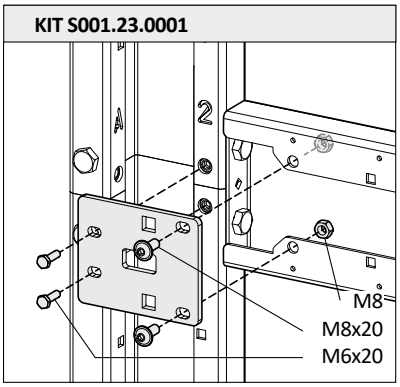


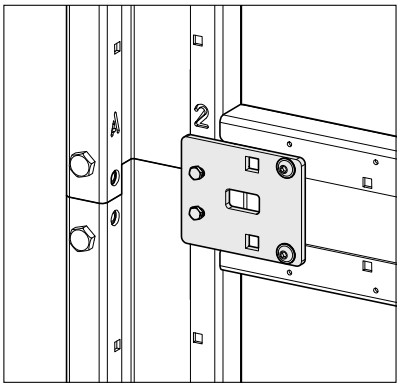

### INFORMATION

Insert the nuts in the reinforcing plate which will be positioned on the side of the guides

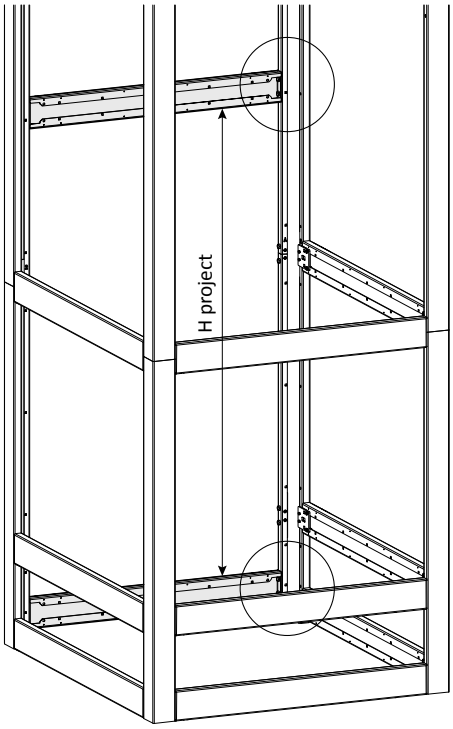



- Fix the reinforcing plate

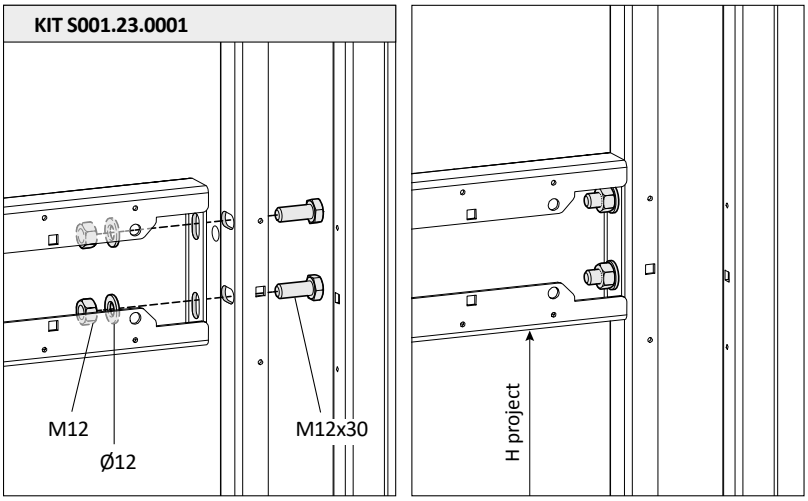


## 7.7. POSITIONING OF THE BEAMS ABOVE/UNDER THE DOOR

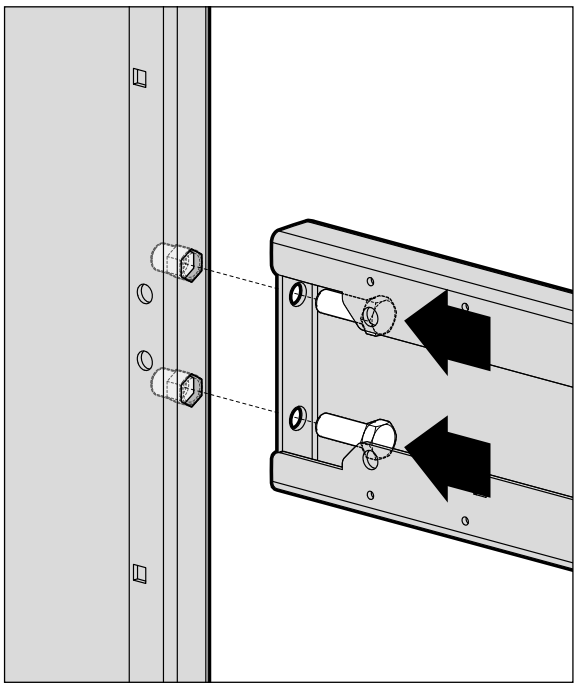



- Check the right position using the project documentation
- Fix the beam using the assigned holes on the cross




**FIXING ON THE UPRIGHTS**

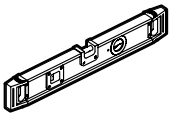
| INFORMATION |
| --- |
| In case of narrow-width upright, please use the threaded rivets |



## 7.8. ANCHORING the structure TO BRICKWALL

- If possible, it is recommended to fix the structure to the supporting wall.
- Check the fixing distances, using the project drawings.

**INFORMATION**

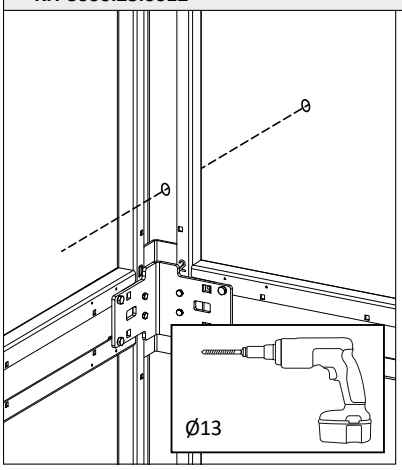


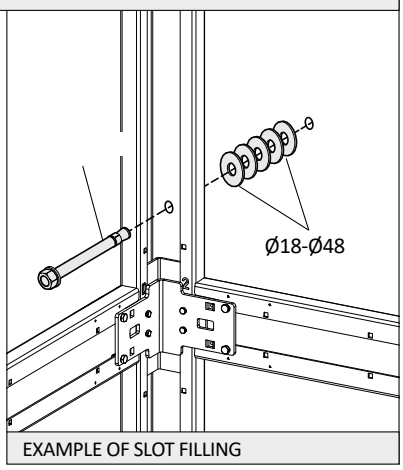
Before starting to fix the structure permanently, **check the level of the structure using the spirit level.**

**FIXING TO JAMBS**

- Drill the jamb and the wall at the hight advised on the assembly drawing
- Fill any slot between the structure and the floor.
- Fix the structure using the plugs supplied together with the components.

**KIT S000.23.0012**



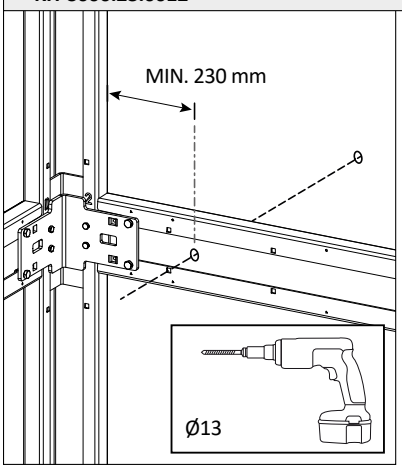



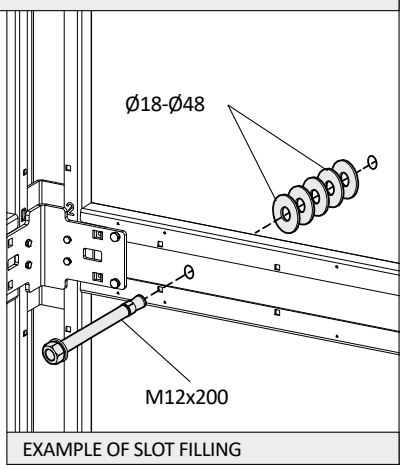

EXAMPLE OF SLOT FILLING

**FIXING TO CROSSBEAMS**

- Drill the jamb and the wall at the hight advised in the assembly drawing
- Fill any slot between the structure and the floor.
- Fix the structure using the plugs supplied with all the components.

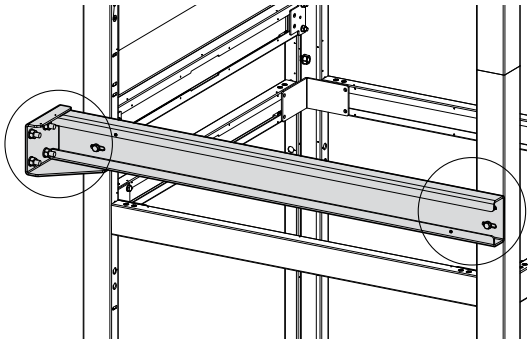
**KIT S000.23.0012**



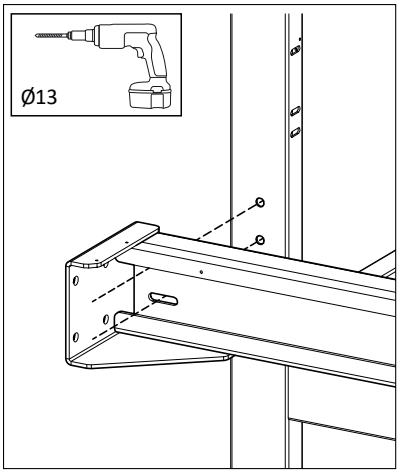



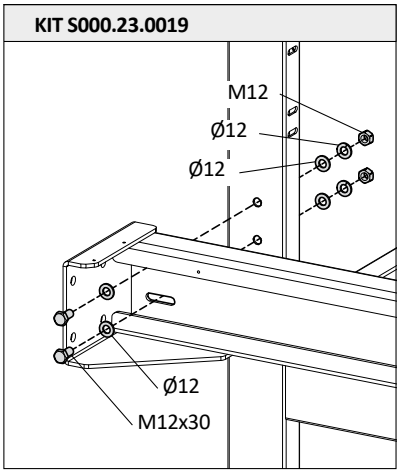

EXAMPLE OF SLOT FILLING

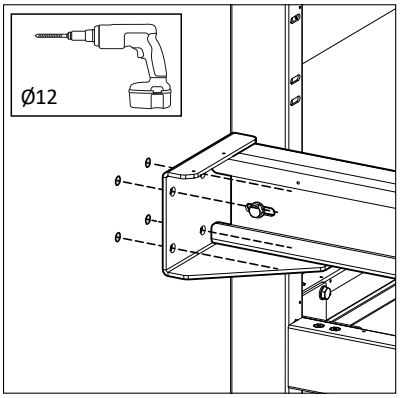
**FIXING BY MEANS OF EXTERNAL BRACKETS**

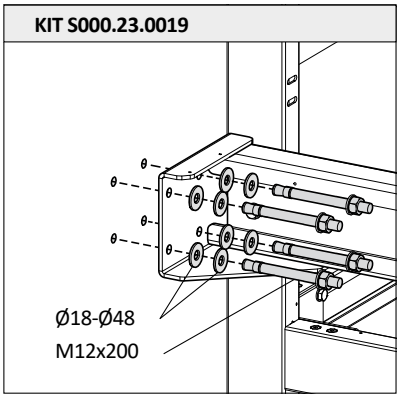


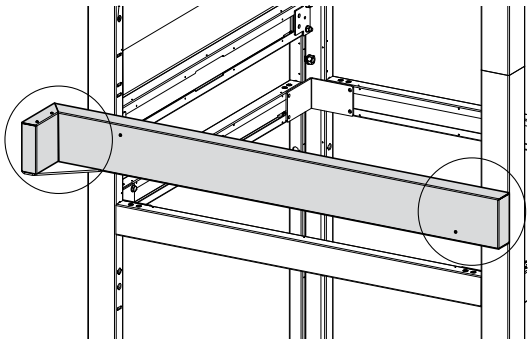
- Take reference marks leaning the bracket against the structure and the wall.
- Drill the structure in accordance with the anchoring point.
- Fix the brackets to the structure.
- Drill the wall to match the holes pre-arranged in the bracket.
- Fix the bracket to the wall using plugs.



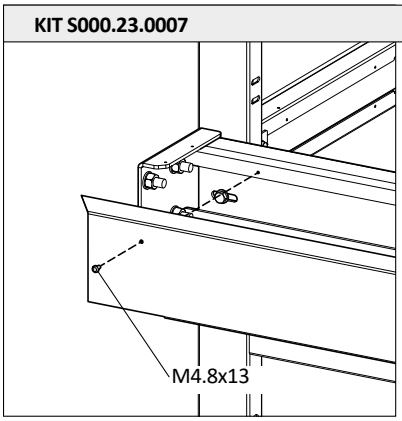



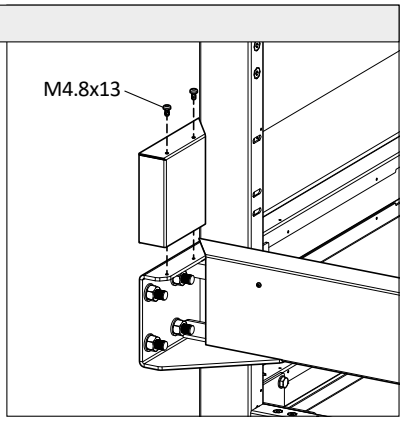



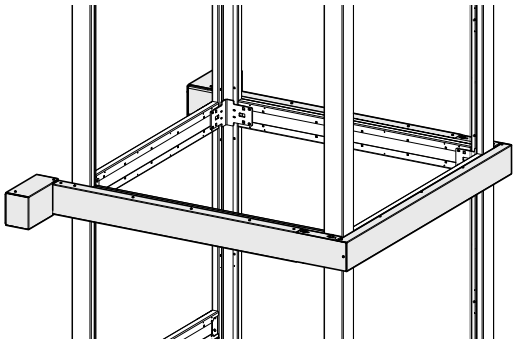



- If foreseen, position the cover of the bracket.



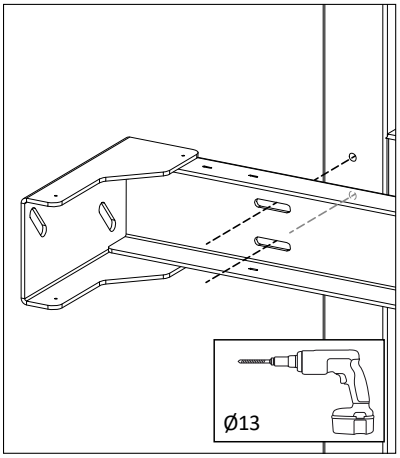



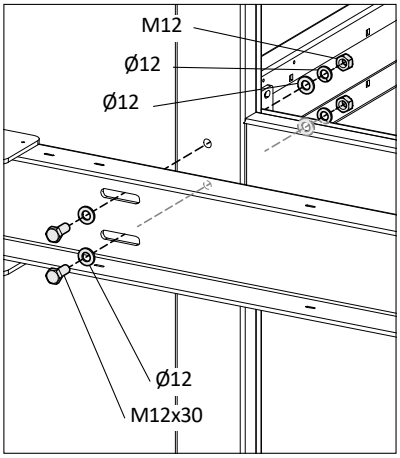
**FIXING WITH THE CLAMPING FIXTURES**

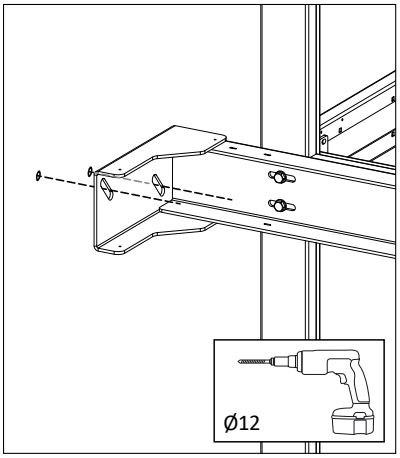


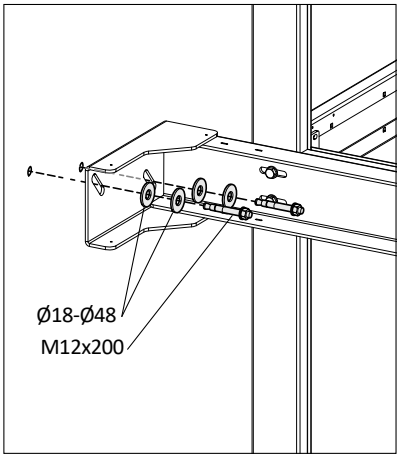
- Take the clamping fixtures, leaning the bracket agaist the structure and the masonry.
- Drill holes in the structure at the sling anchorage point.
- Fix the brackets to the structure.
- Drill holes in the masonry in correspondance with the holes in the bracket.
- Fix the bracket to the masonry with the dowels.

**KIT S000.23.0019**

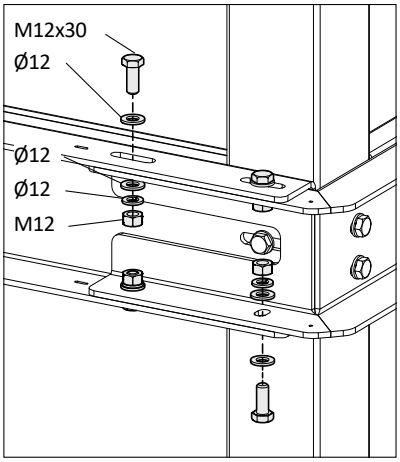


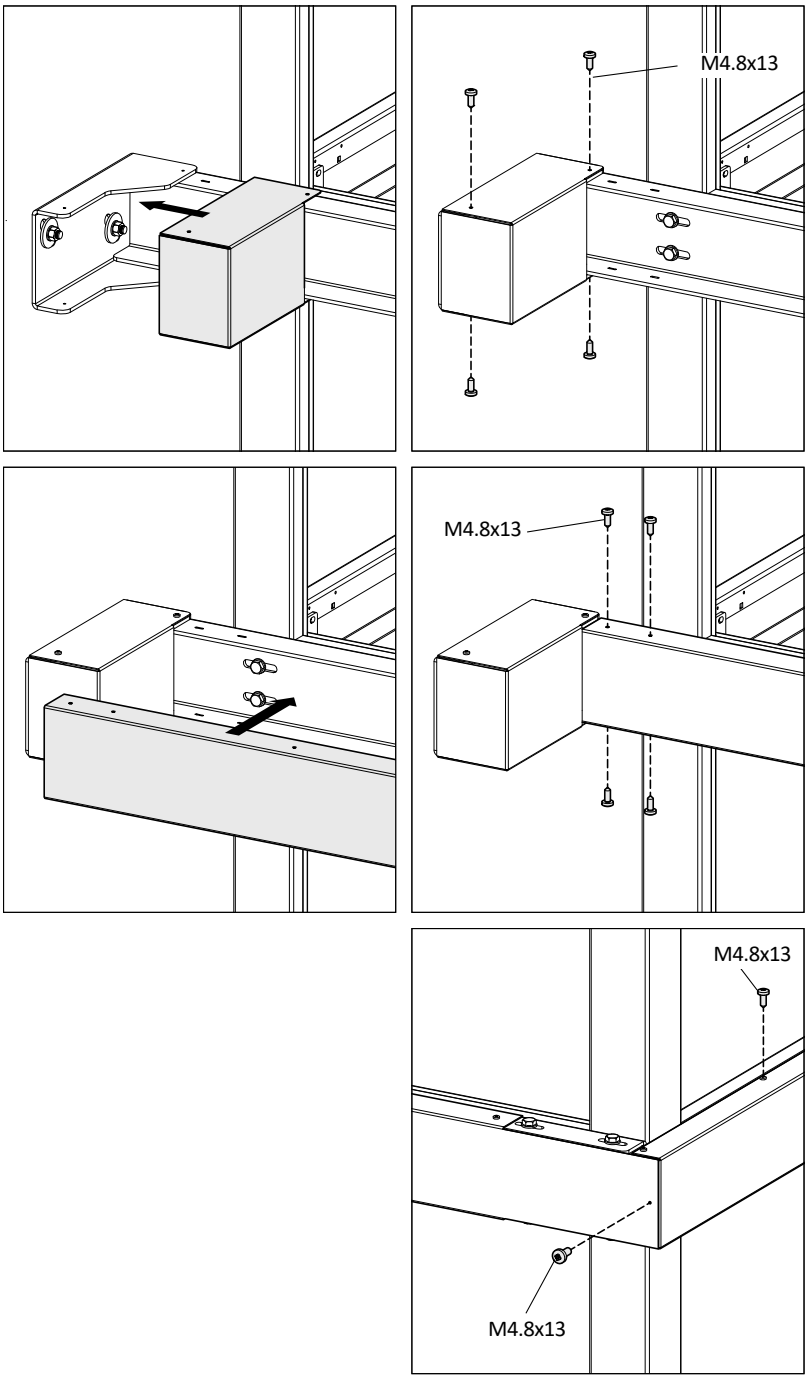




- Fix the brackets among themselves.

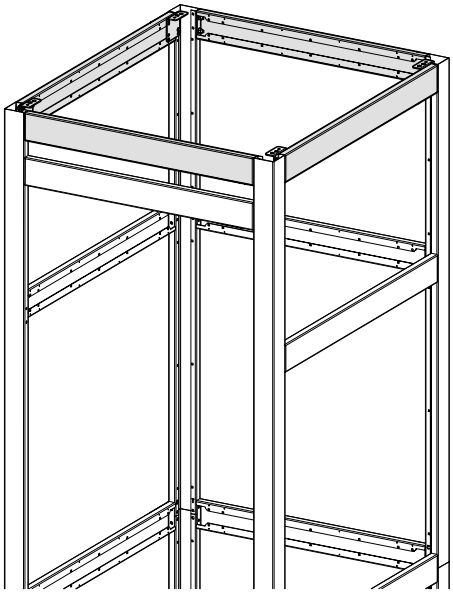


- Assembly the cladding of the bracket.

**KIT S000.23.0007**

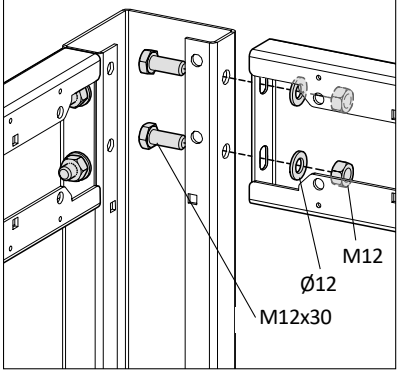


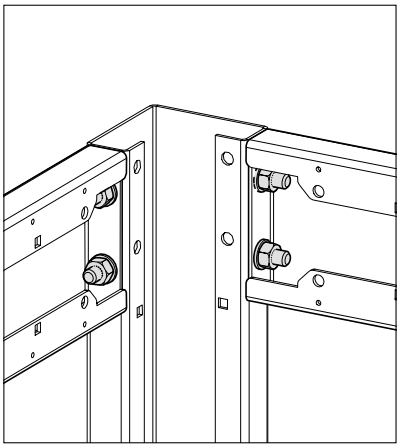
## 7.9. LAST PERIMETER IN HEADROOM



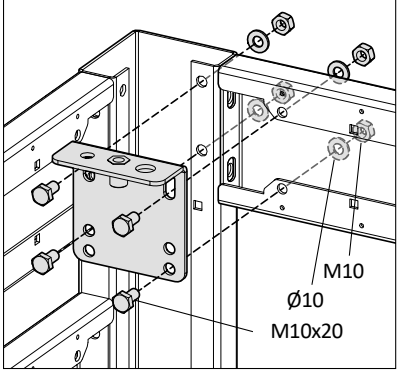
- Assembly the last perimeter in the headroom
- Assembly 4 angles

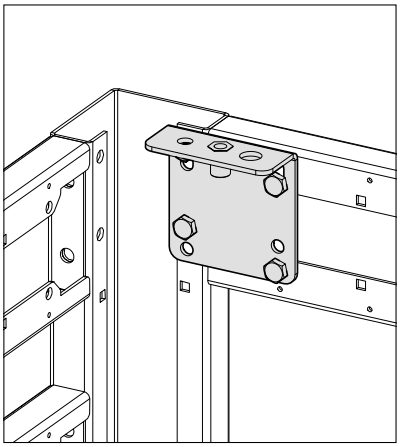
**KIT S001.23.0001**



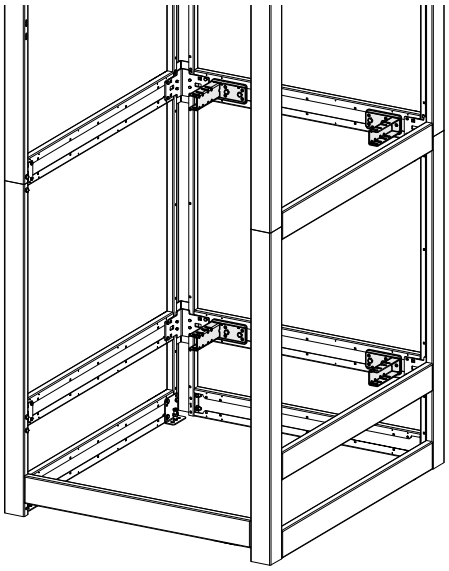



**KIT S001.23.0002**



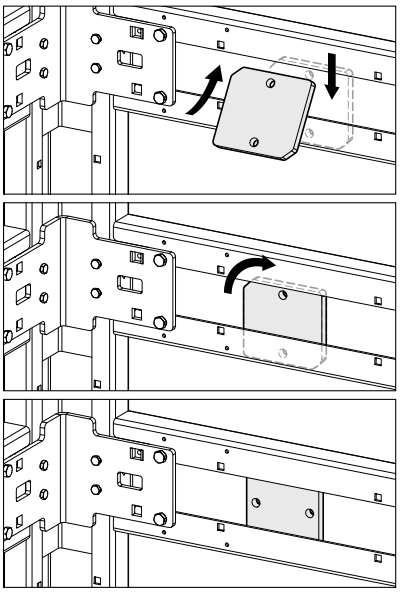
## 7.10. FIXING OF THE PLATES OF THE GUIDES

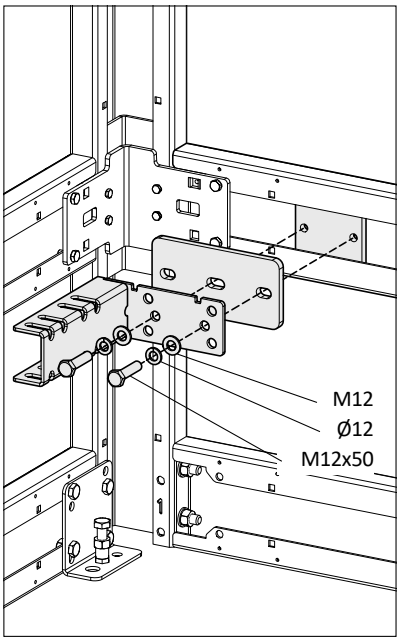


- Fix the support plates of the guides with screws kit supplied.

**CASE 1 - ASSEMBLING DISTANT FROM THE CORNER**

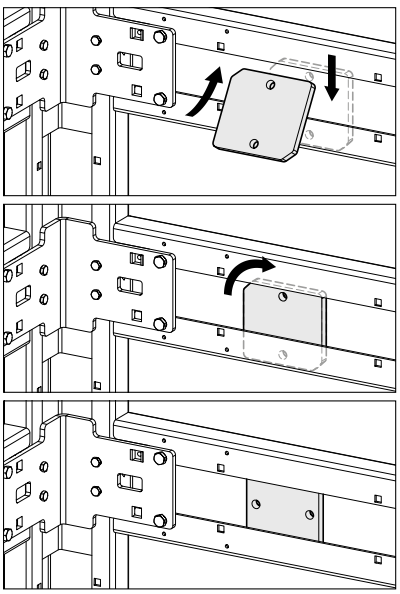
**KIT S001.23.0003**

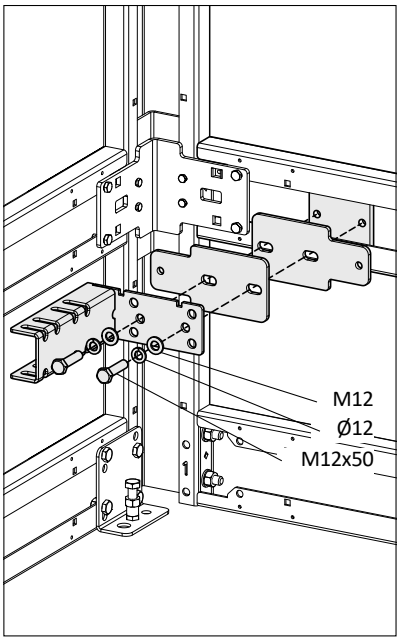




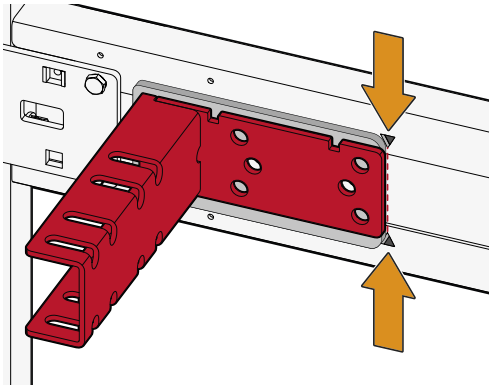

**CASE 2 - ASSEMBLING BY THE CORNER**

**KIT S001.23.0003**





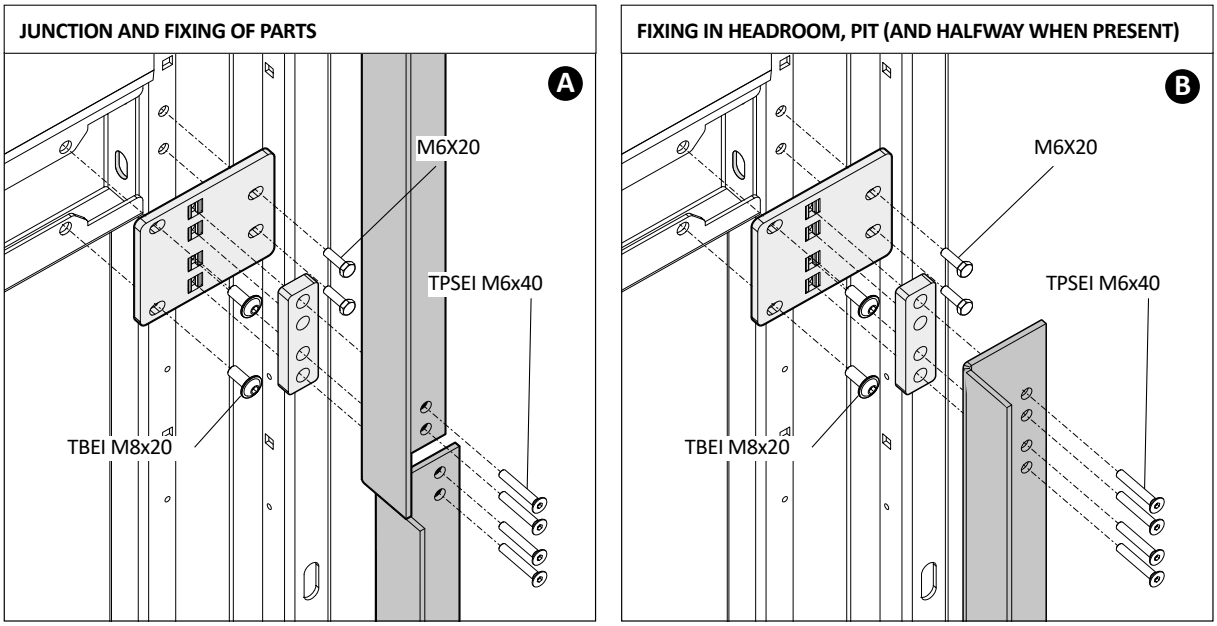

### INFORMAZIONI

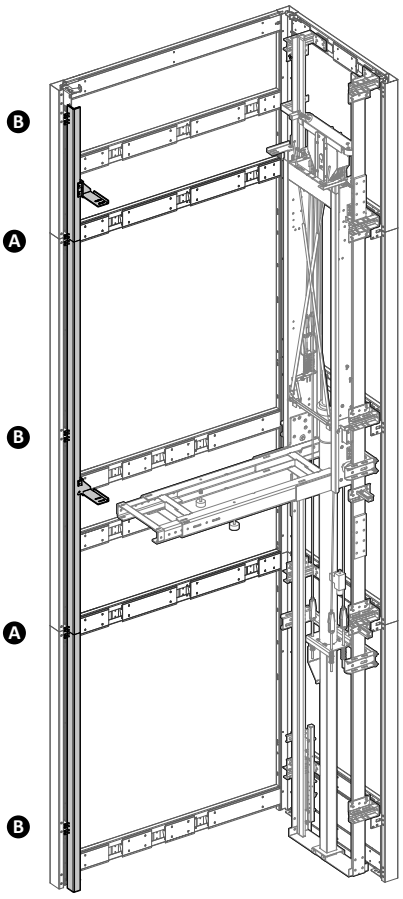


Per installate correttamente le staffe, allinerare con i triangoli di riferimento sui montanti (**fig. 1**)

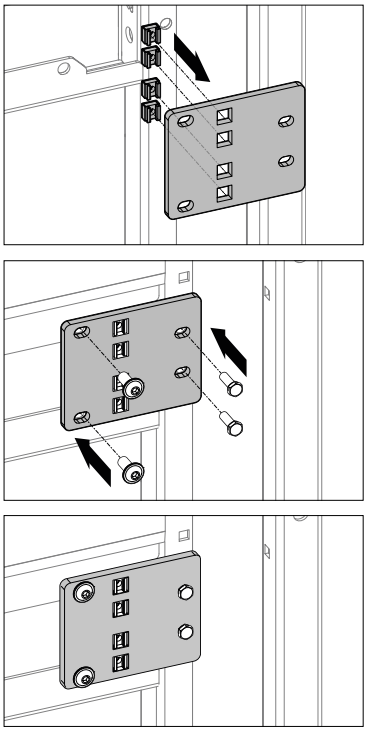
## 7.11. FIXING OF BRACKETS OF THE THIRD GUIDE RAIL (if present)

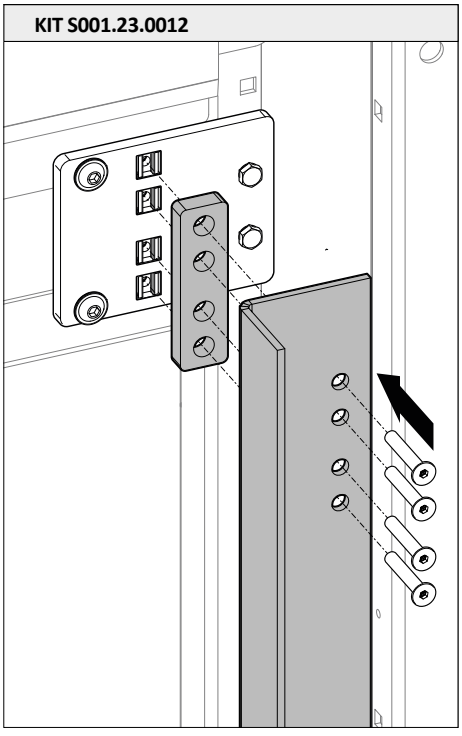
- Fix the reinforce pad, the spacer, and the guide rail by using the screws supplied according to the project drawing



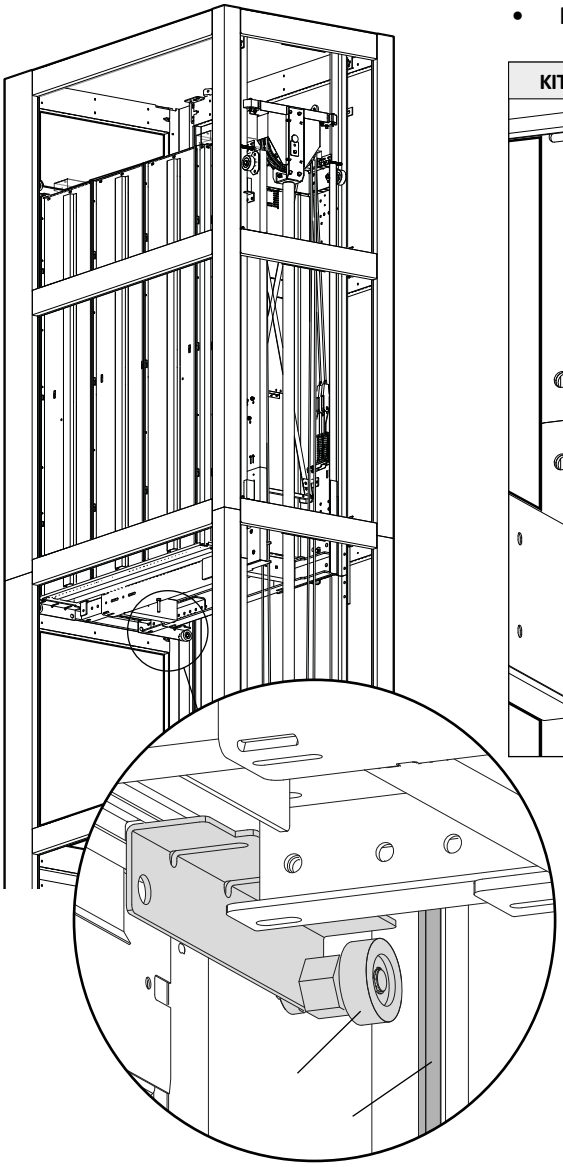




- Insert the nuts into the plates and fix them to the upright as shown (fig.1).
- Fix the plate to the upright using the appropriate screws (fig. 2-3).
- Position the spacer and fix the third guide to the plate using the screws contained in the kit (fig. 4).

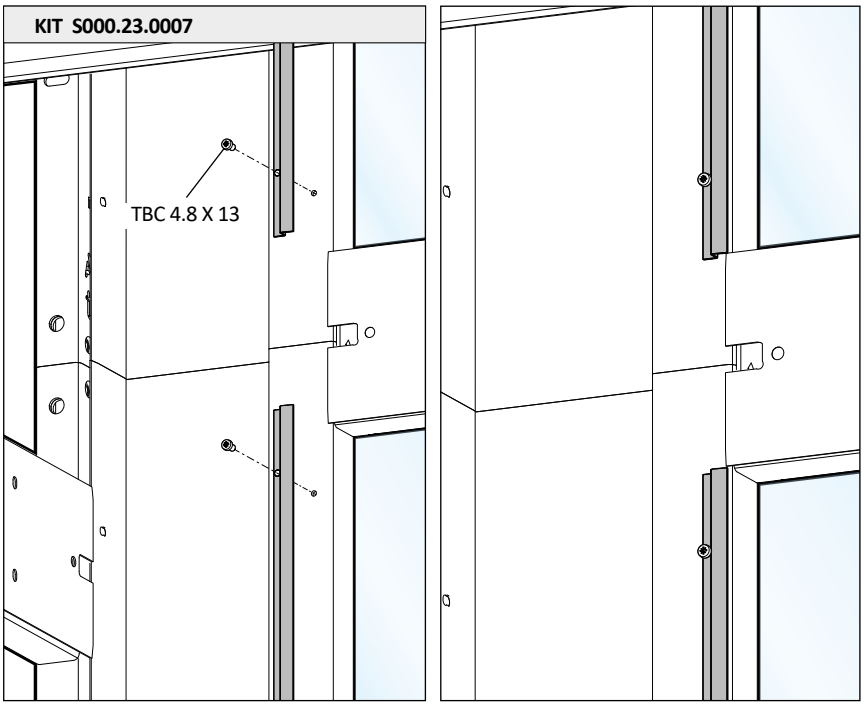




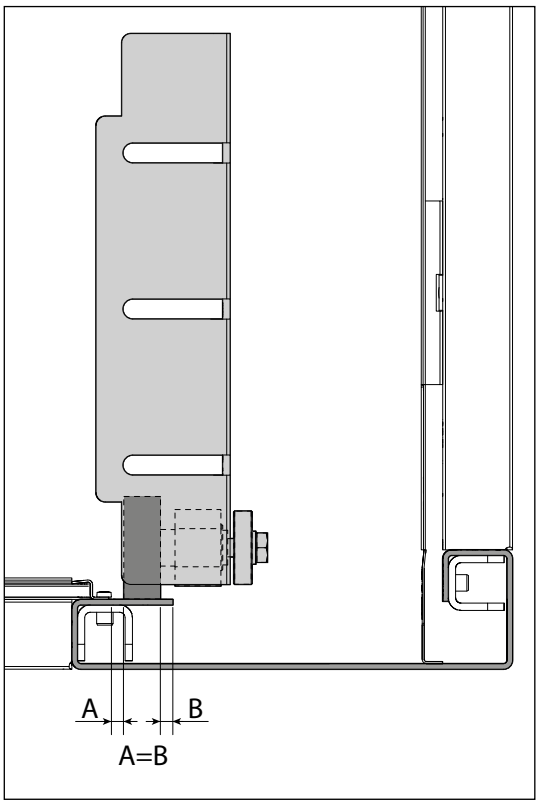
## 7.12. STRUCTURE SET UP FOR THE INSERTION OF GUIDE ROLLERS (IF PRESENT)



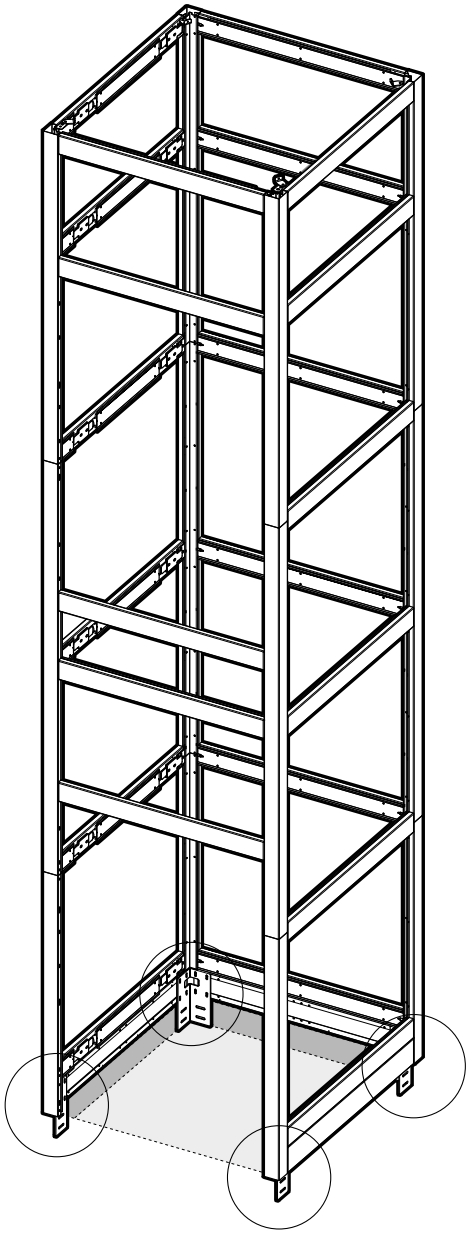
- Fix the glazing beads by means of the specific self-piercing screws.



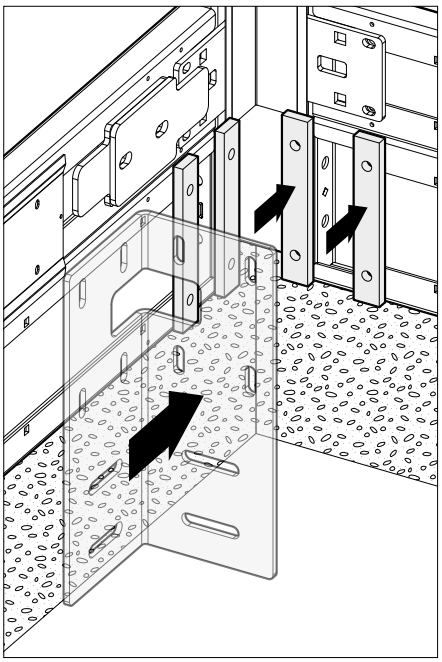

- Position the roller halfway on the upright, so to guarantee a margin of error while scrolling

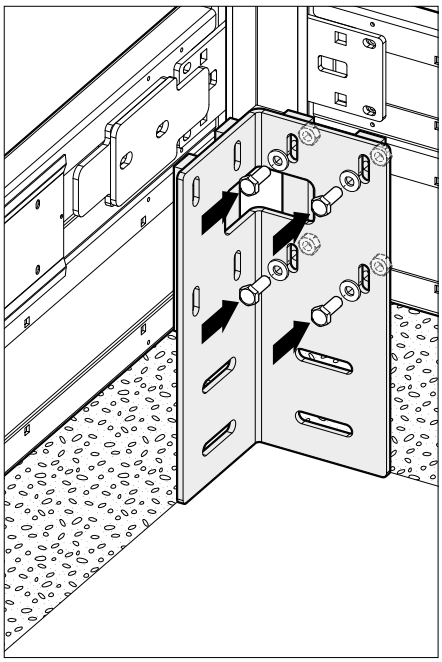


## 7.13. FLOOR-MOUNTED STRUCTURE

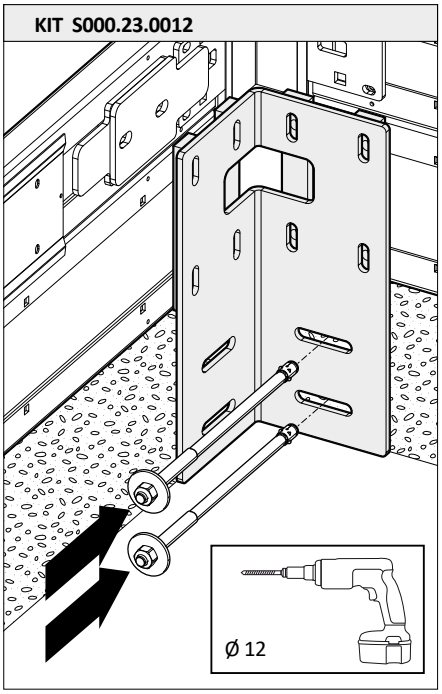


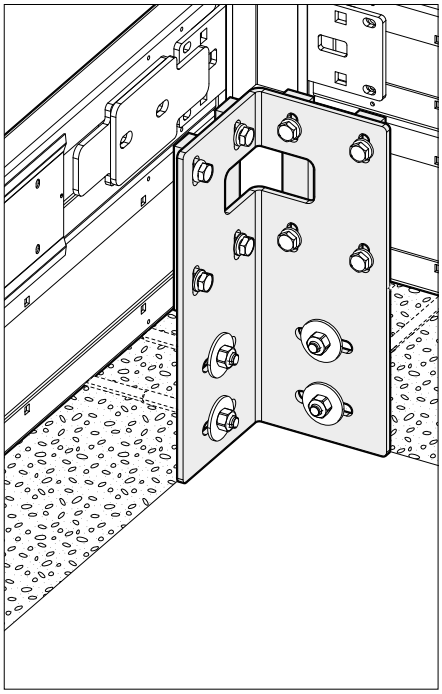
- Position the specific spacers and place the fixing plates on the structure by means of the supplied screws





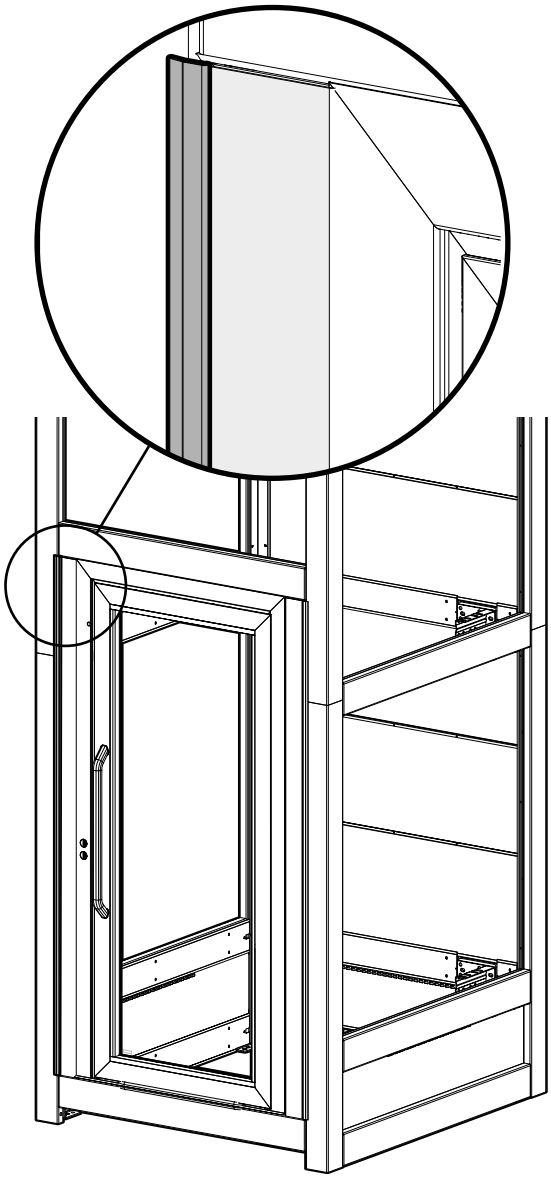
- Fasten the structure to the pit by using the specific kit



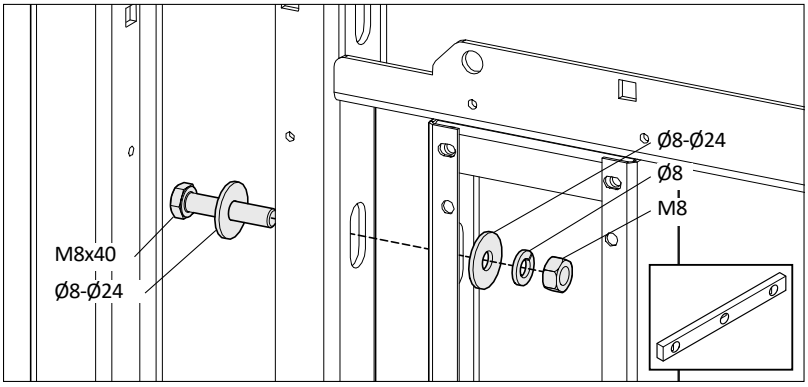
## 7.14. DOOR SIDE CLADDING

**FIXING OF THE DOOR TO THE PANEL AND POSITIONING OF THE JOINT COVER**



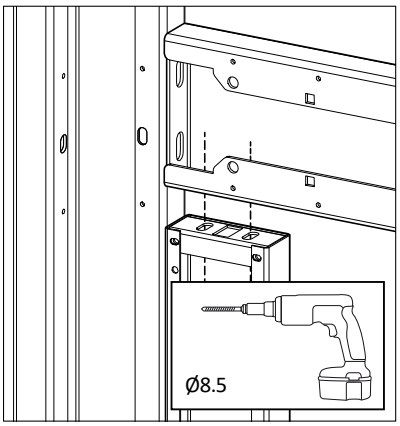
- Fix the cladding panels directly onto the structure jambs.
- Make sure the structure is perfectly leveled, for a correct door adjustment.

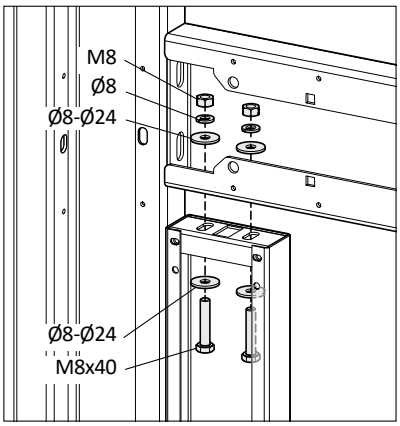
**KIT S001.23.0005**



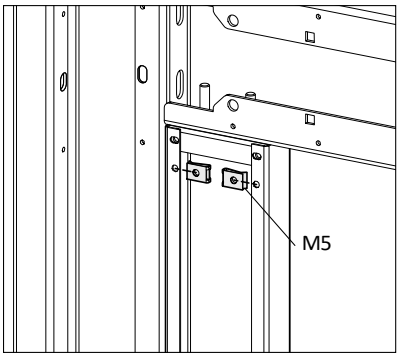

**INFORMATION**

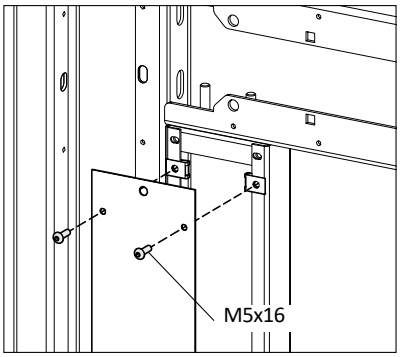
Should the cladding be > 150 mm, provide extra UPPER and LOWER fixing (2 up and 2 down).




- Upon the door installation completed (see the reference manuals), install the casing of the door side cladding.



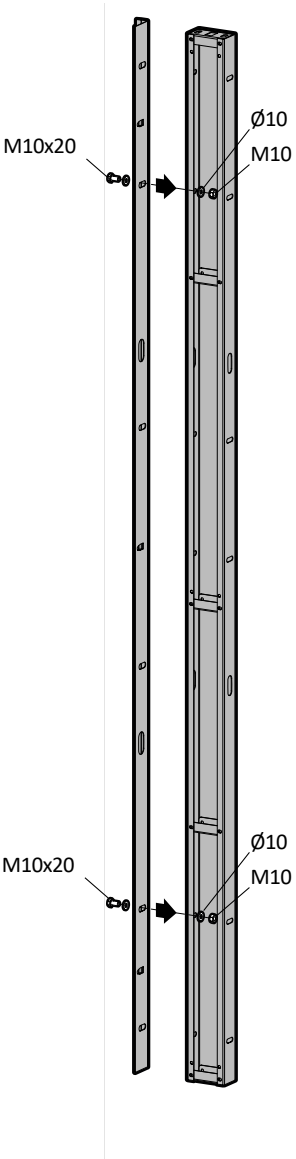



**FIXING OF THE DOOR TO THE PANELS**

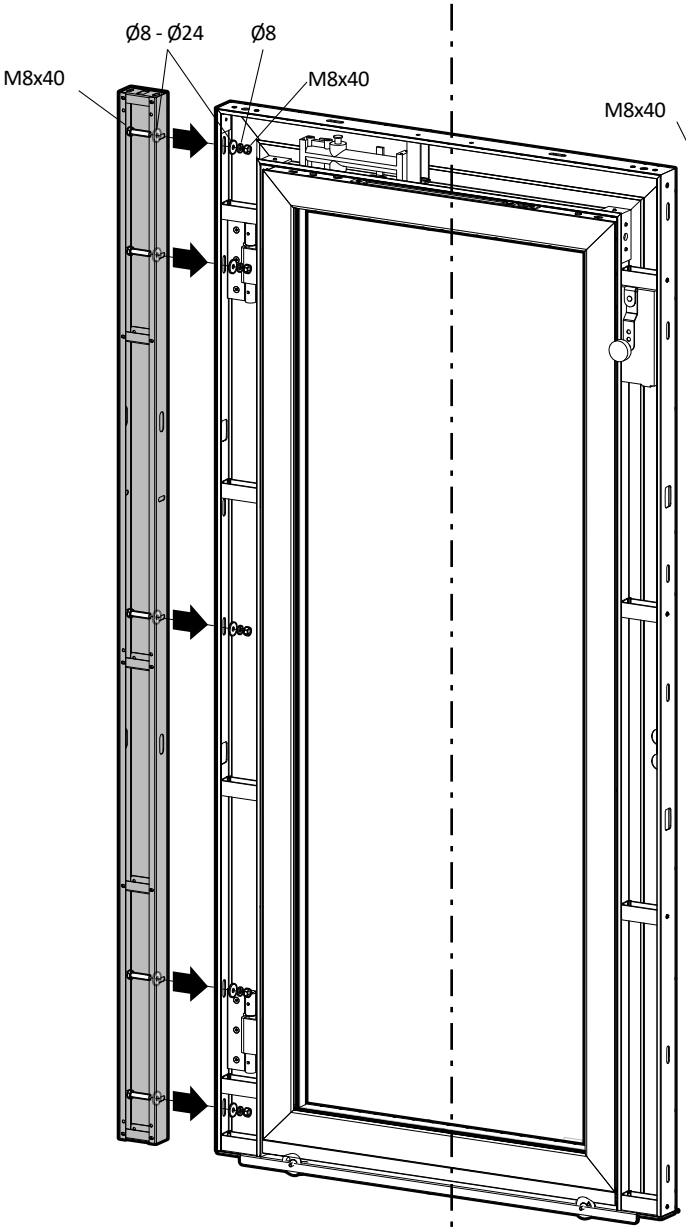
- Mount the infill panel directly on the door (on one or both sides according to the project) or, alternatively, fix the infill panel directly to the uprights. Use the slots that are suitable depending on the type of door (3 each side).
- Put the door in its seat and fix it according to the appropriate instruction manual.

**KIT S001.23.0005**

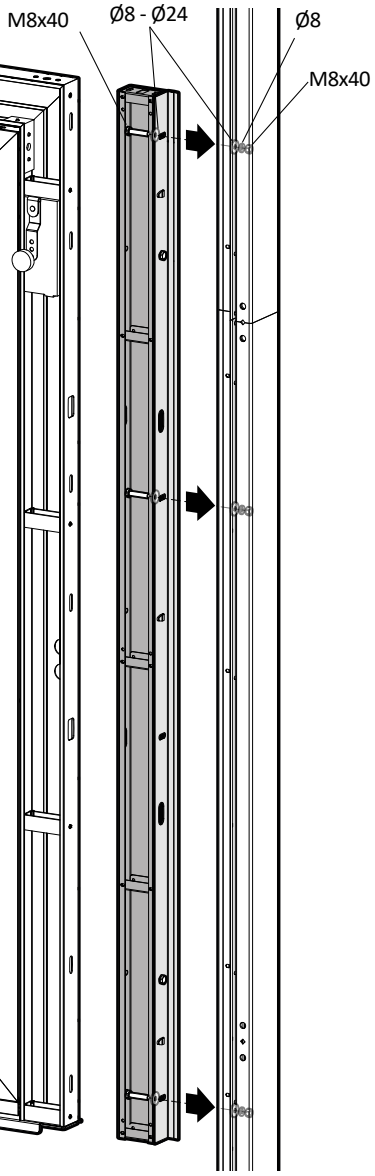
**FIXING OF THE COVER STRIP TO THE CLADDING PANEL**



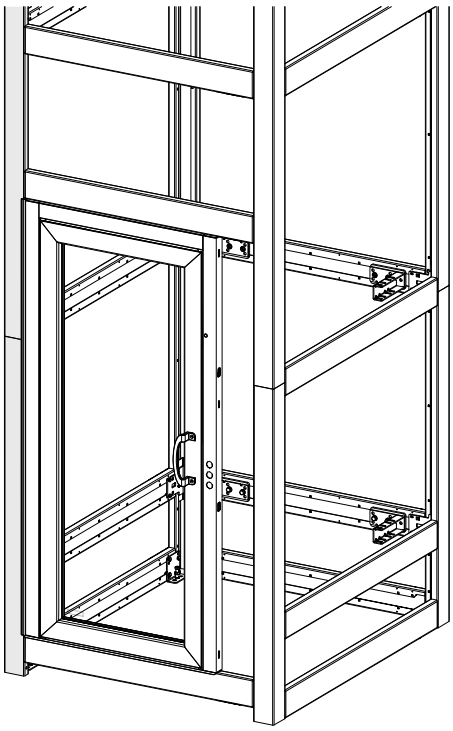

**FIXING OF THE CLADDING PANEL TO THE LUMIERE DOOR**



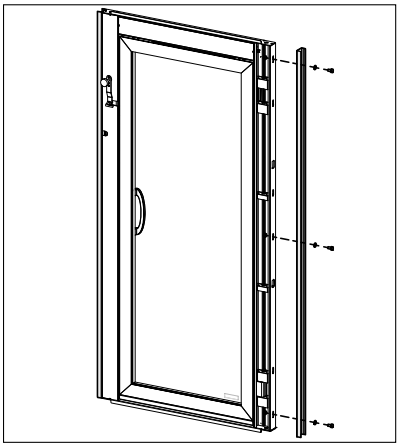

**FIXING OF THE CLADDING PANEL TO THE UPRIGHT**

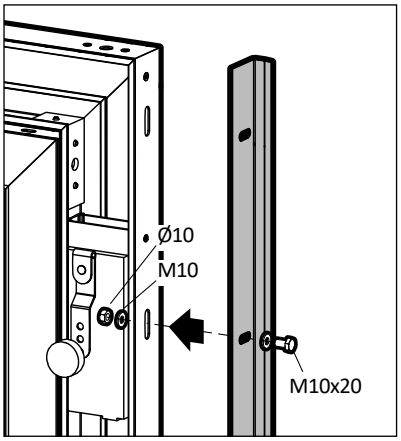


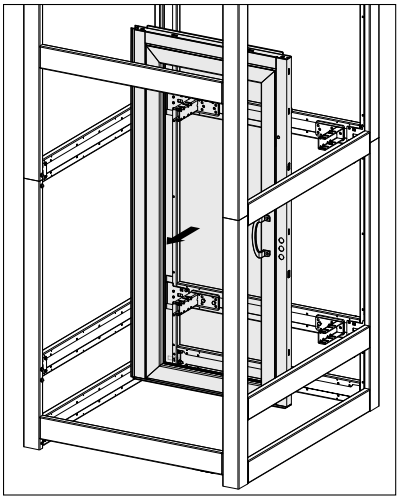
**Fixing of the DOOR ON THE CROSS**

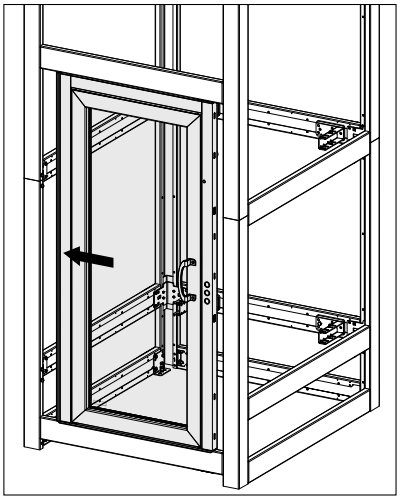


- Assembly the fixing profile directly on the door (on one or both sides using the project drawing). Use the holes which are reachable depending on the type of the door (3 on each side)
- Insert the door in the assigned place and fix it using the commissioning instruction.





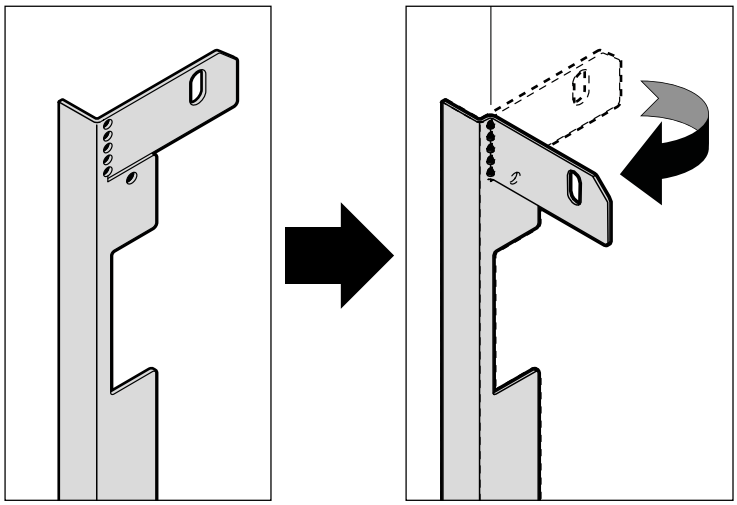





**INFORMATION**

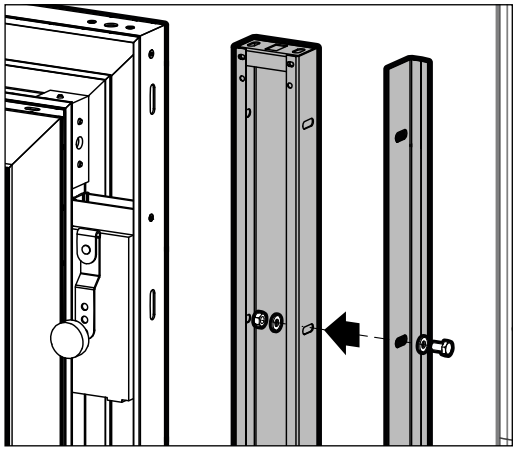
The kit needed to fix the door to the upright is supplied with the door

PREPARATION OF INTERNAL JOINT COVER



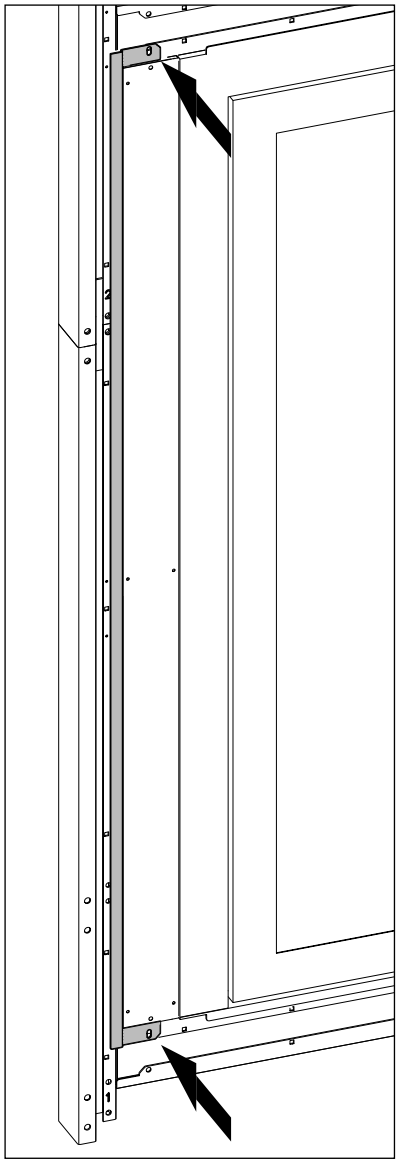
- Fold the indicated part at 90 ° along the pre-drilled line.

## FIXING OF THE JOINT COVER TO THE CLADDING PANEL

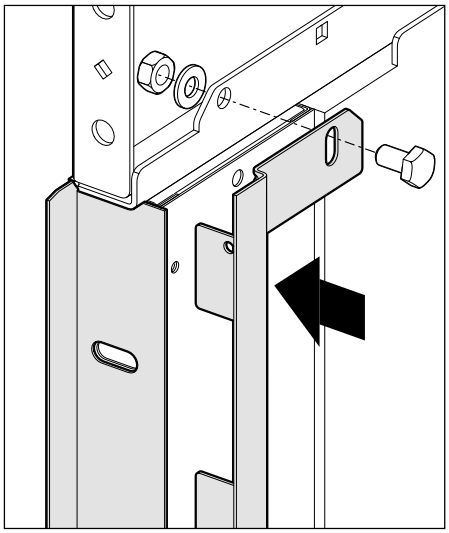


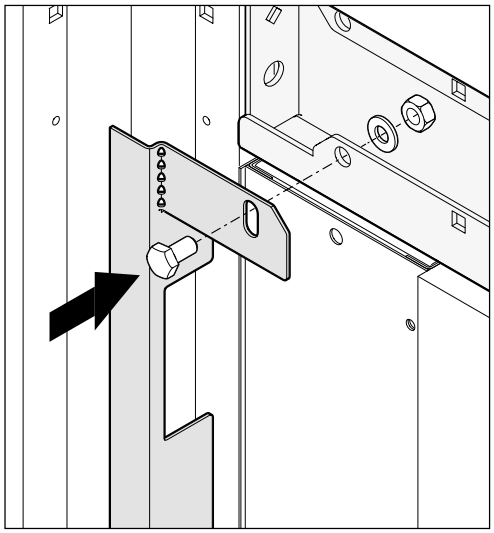
- Fix the infill panel to the door using the supplied screws
- Fix the external joint cover on the infill panel.

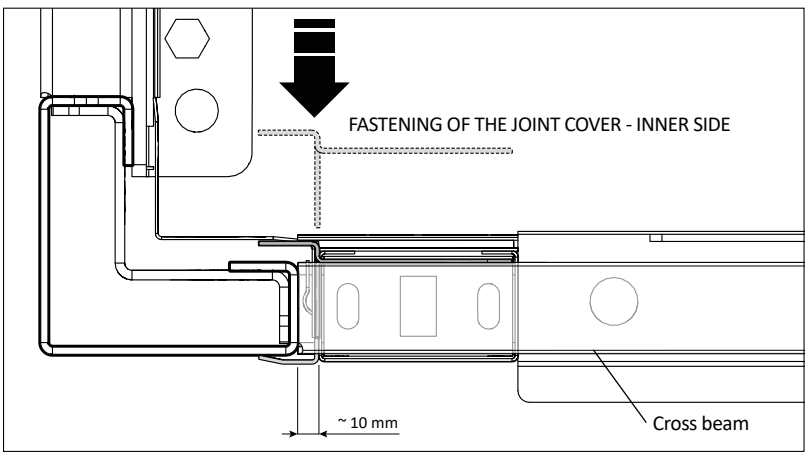
## FASTENING OF THE JOINT COVER - INNER SIDE



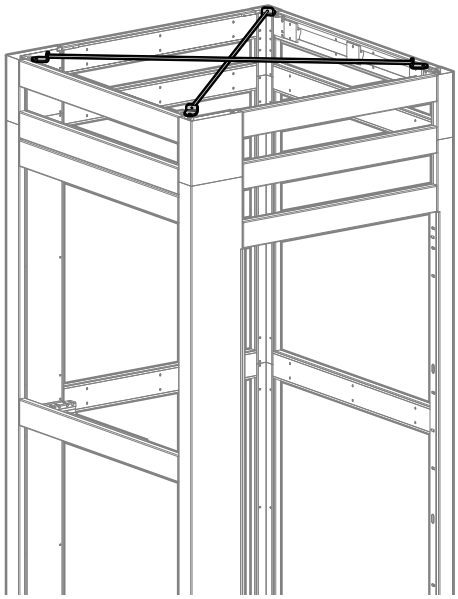
- Put side cover on the inner side and fix it to the upper and lower crossbars of the door, using the provided screws.





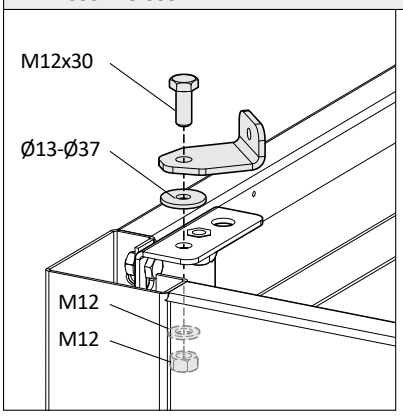


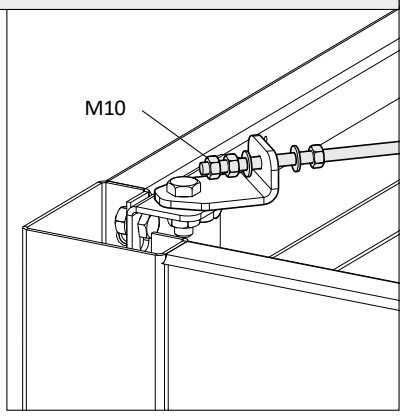
## 7.15. CROSS



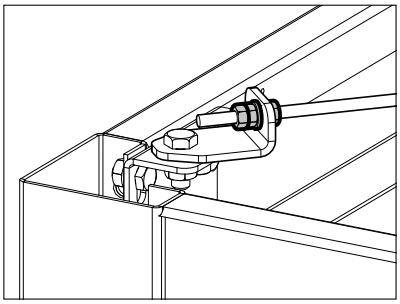
- Fix the brackets of the crosses to he angular plates
- Insert the rod and screw it in with the bolts

**KIT S001.23.0002**



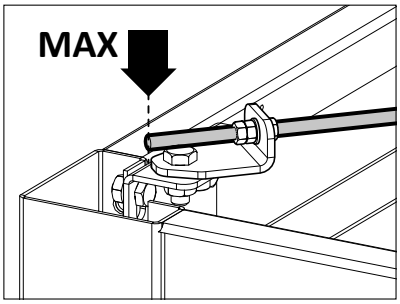




- Screw in the bolts leaving the rod in the tension



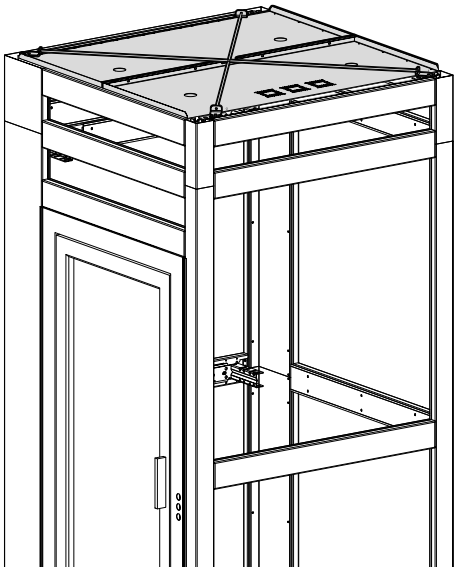
**INFORMATION**

The bar shall not protrude from the inside of the structure; if needed , trim it.



## 7.16. ROOF (if supply)

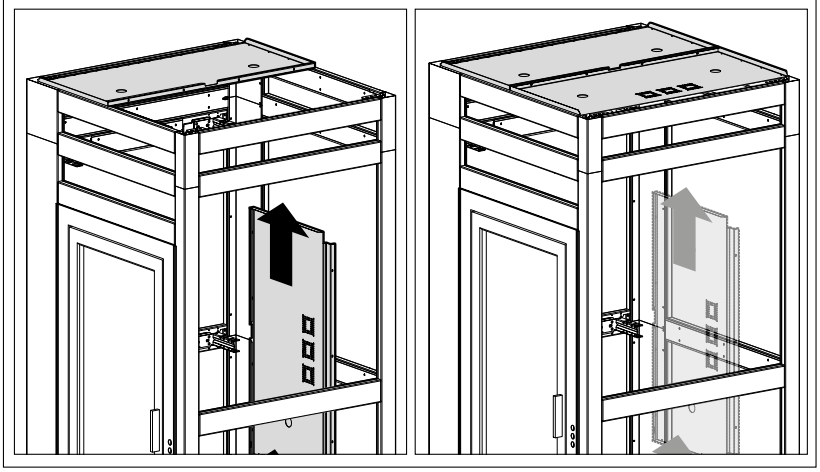
**INDOOR STRUCTURE ROOF**



**SHOULD BE INSTALLED FROM INSIDE of the structure.**

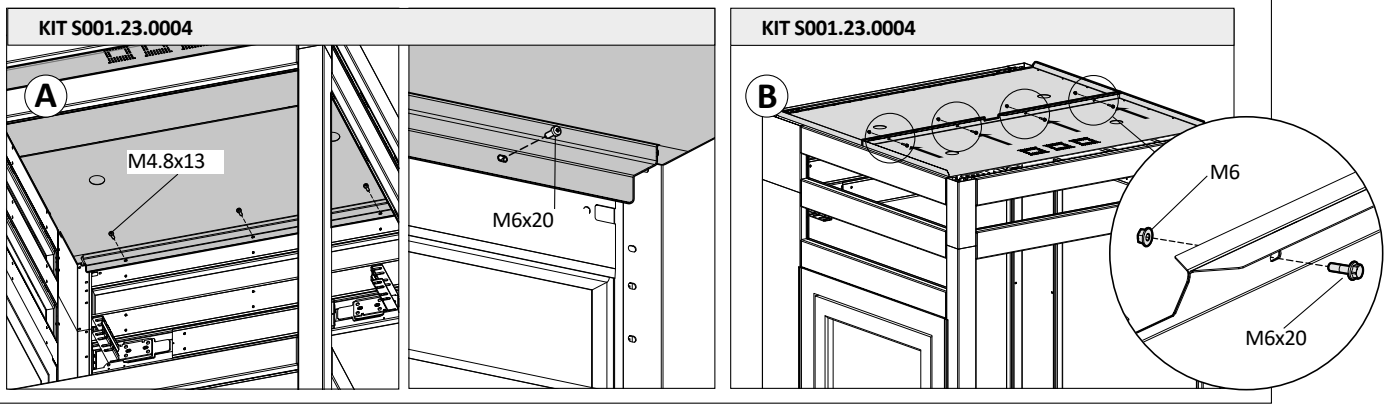
1. Insert the roof panels from inside and position them as shown on the project drawing.

**fig. 01a**



2. Fix the panels to the structure by using the supplied self-piercing screws.
3. Fasten the panels together from the outside by means of a scaffold.

**fig. 01b**




**FRONT INSTALLATION (FROM THE OUTSIDE OF THE STRUCTURE)**

1. Preassemble the panels making up the roof. Pic. (B)
2. Fit the roof frontally into the designated area. Pic. (C)
3. Fasten the roof to the structure as shown in. Pic. (A)

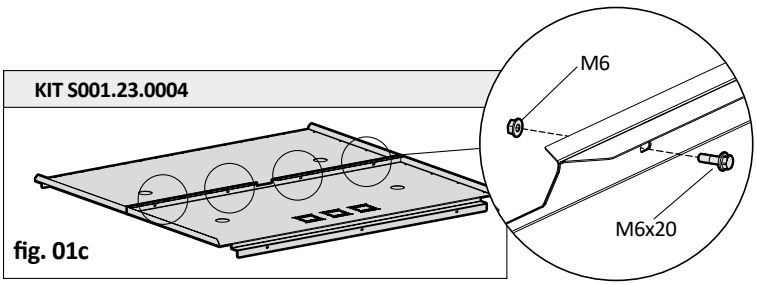



**fig. 01c**

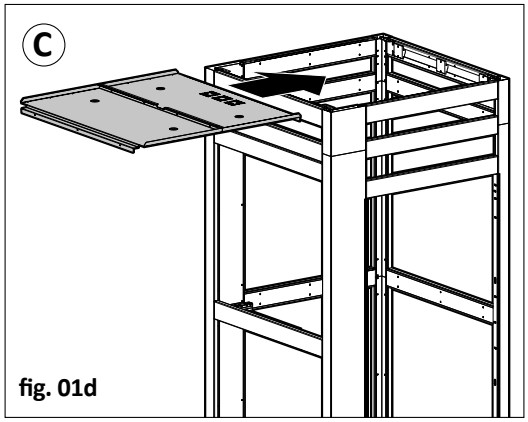
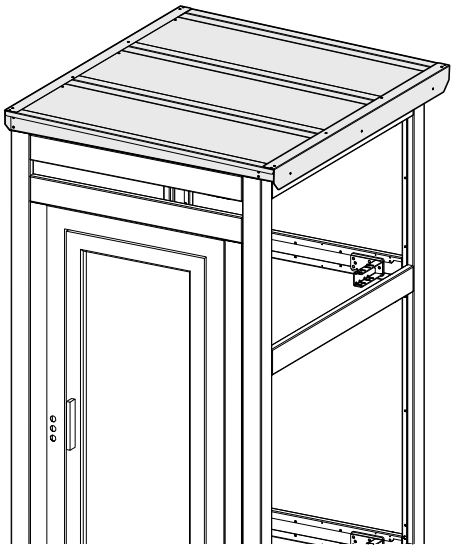
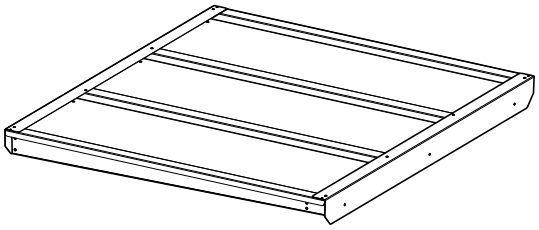



**fig. 01d**

## 7.17. OUTDOOR STRUCTURE ROOF (optional)





### INFORMATION

The outer roof is designed to be mounted from the inside of the structure.

- Assemble the roof frame on 4 corners.

**KIT S001.23.0004**

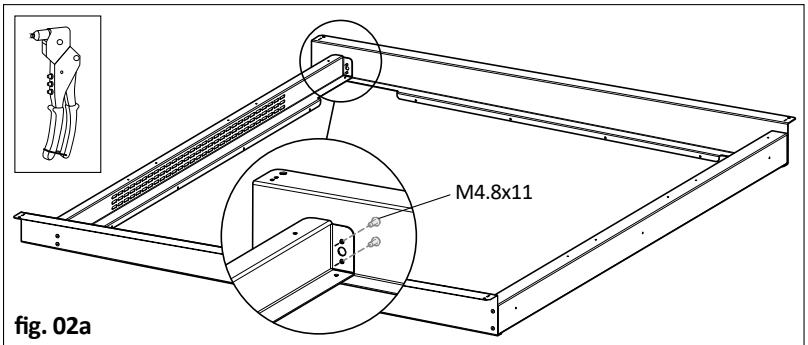
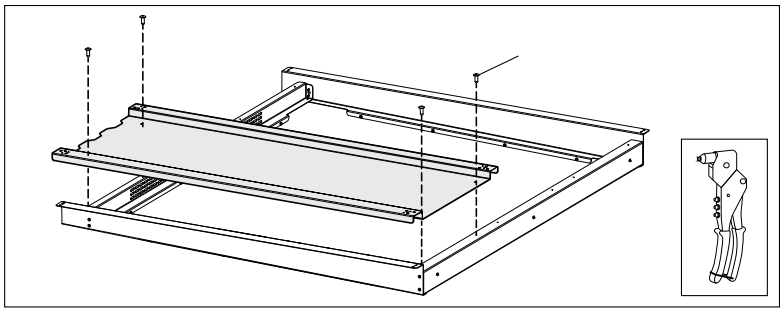
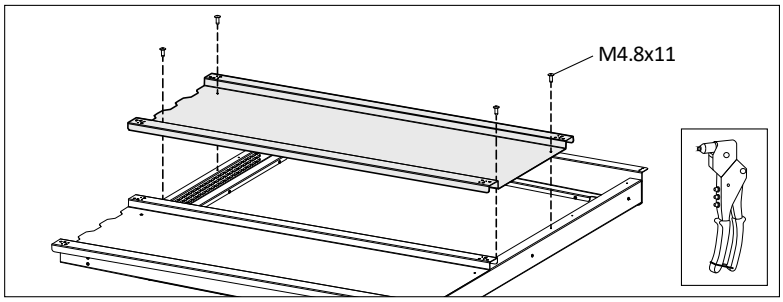


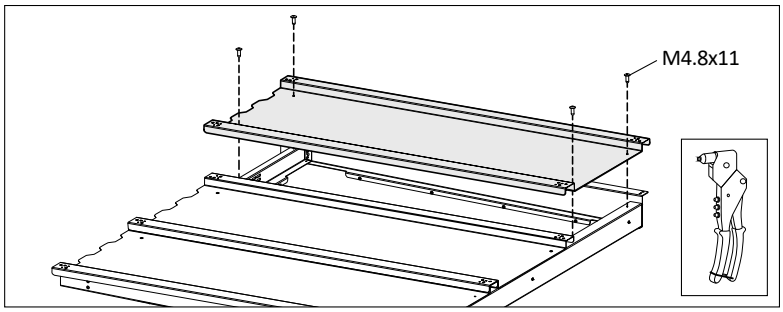

**fig. 02a**

- Assemble the panels in the indicated order.
- Assemble the panels to the roof structure with the rivets.

**fig. 02b**





- Assemble the panels of the roof's cover side with the rivets, in the both sides of the panels.

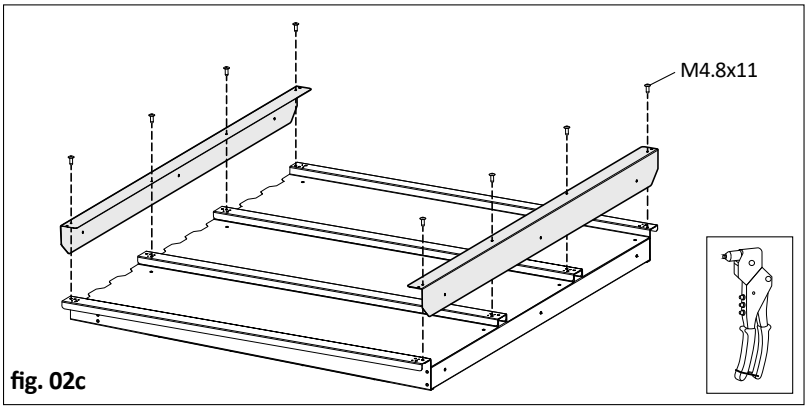



**fig. 02c**

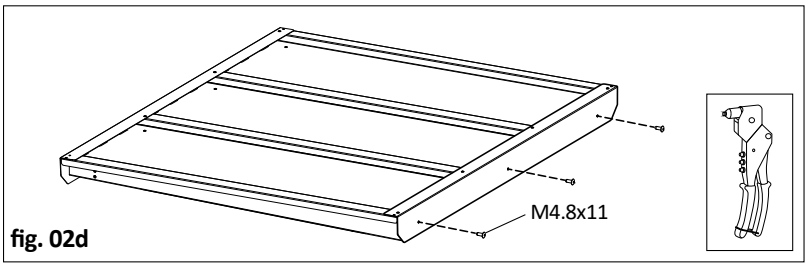



**fig. 02d**

- Place the roof frontally (from the outside of the structure)

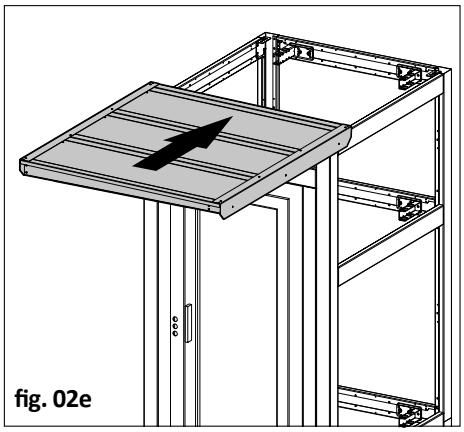
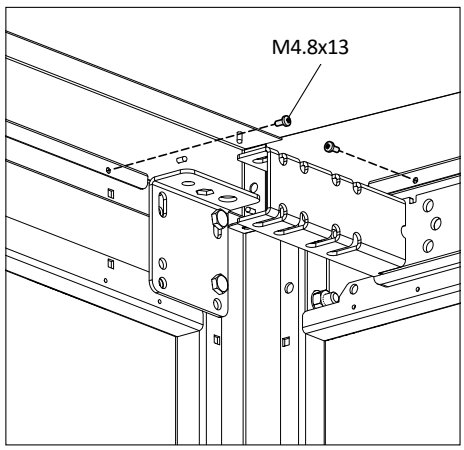


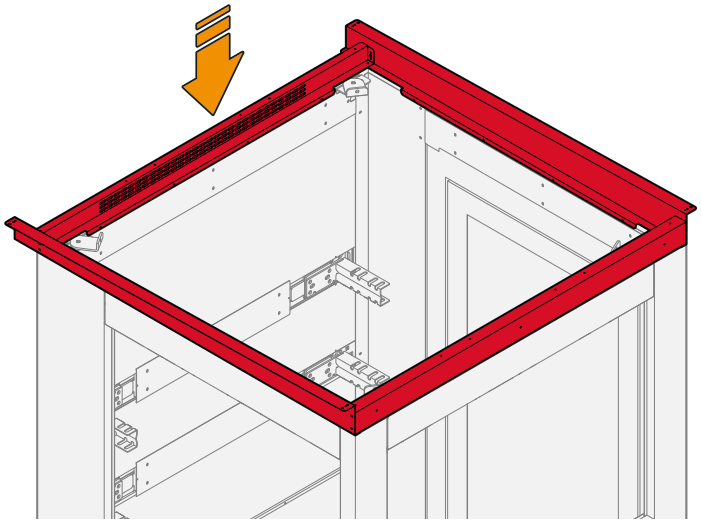
**fig. 02e**

- Fasten it to the structure on all sides

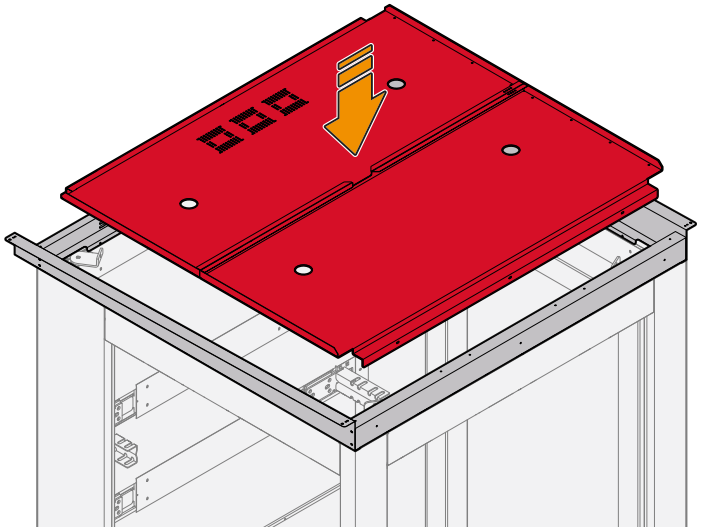



| **INFORMATION** |
| --- |
| Check the inclination using the assembly drawing. |

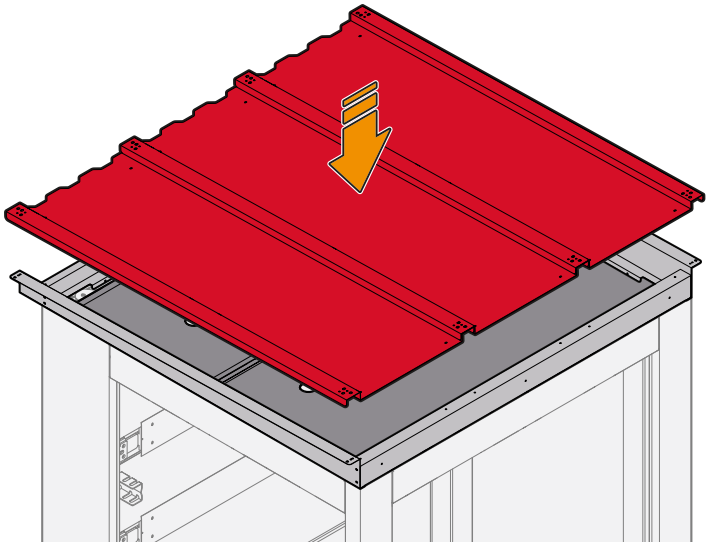
## 7.18. DOMOFLEX - OUTDOOR STRUCTURE ROOF (optional)



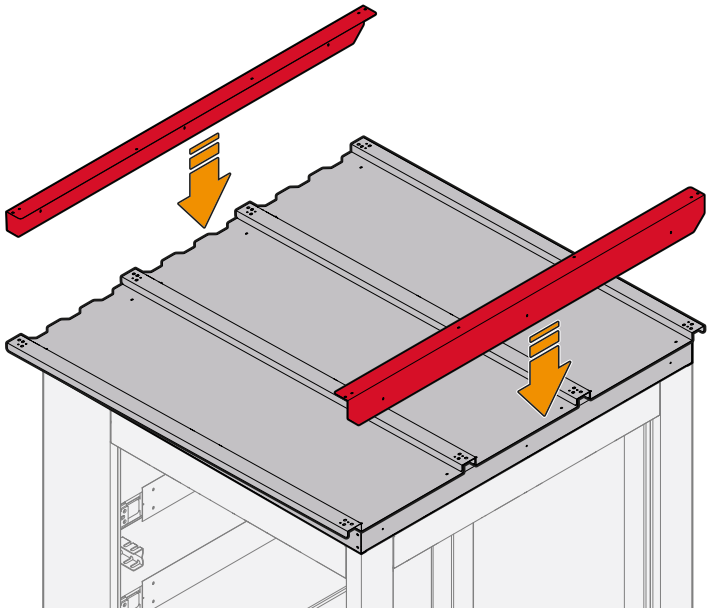
- Install the oudoor roof frame
  as indicated in **§ 7.17 OUTDOOR STRUCTURE ROOF (fig. 02a).**



- Install the indoor roof
  as indicated in **§ 7.16 ROOF.**



- Install the oudoor roof infill metal sheet
  as indicated in **§ 7.17 OUTDOOR STRUCTURE ROOF (fig. 02b).**



- Install the oudoor roof protection corner as indicated in **§ 7.17 OUTDOOR STRUCTURE ROOF (fig. 02c).**
  fasten them as indicated in **(fig. 02d).**

## 7.19. STRUCTURE STIFFENING

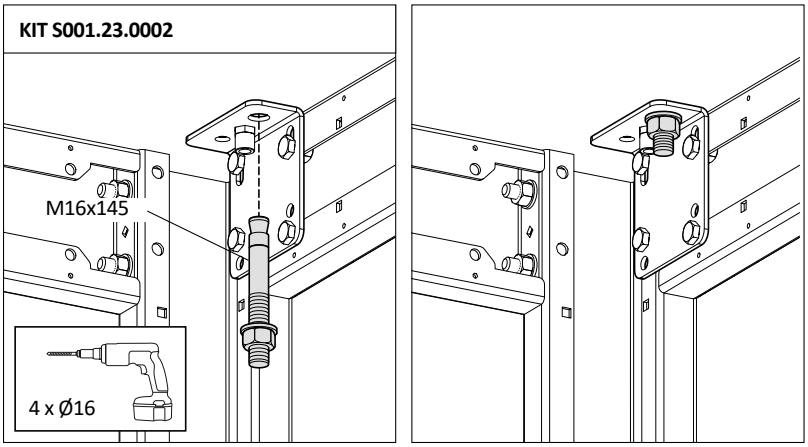
### CASE 1 - WALLING ANCHORAGES

- Drill the ceiling (or the base) to match the hole already made in the corner bracket.
- Insert the plugs in the holes and fix them.

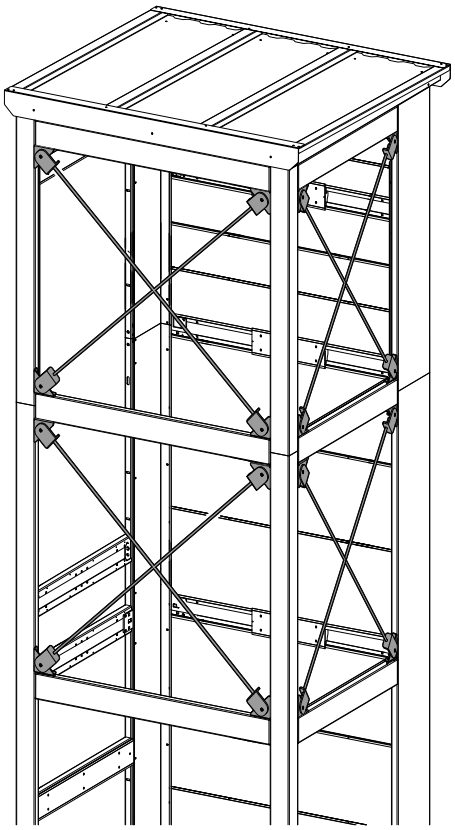
**INFORMATION**

Whenever impossible to anchor the structure to the ceiling, proceed fixing the jamb of the last crossbeam to the wall.

**KIT S001.23.0002**

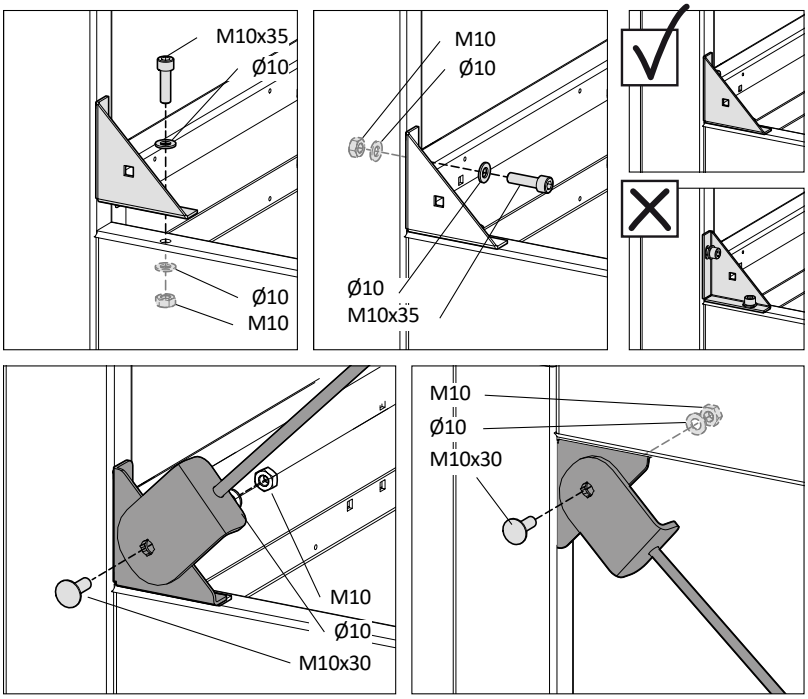



### CASE 2 - LATERAL UPWINDS

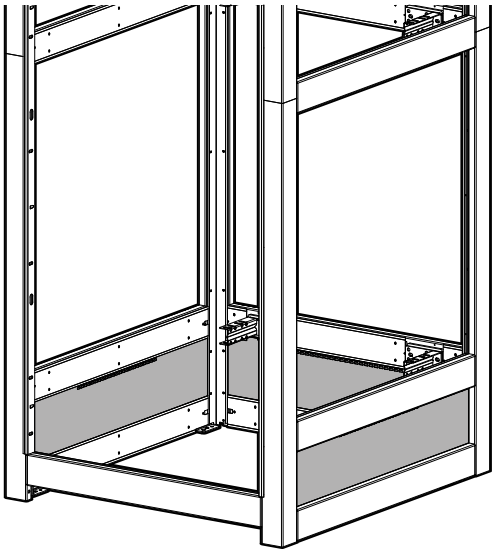


- Fix angles paying attention to the direction;
- Fix the first upwind;
- Fix the second upwind (outside) including thins.

**KIT S001.23.0008**



## 7.20. BASEMENT CLADDING

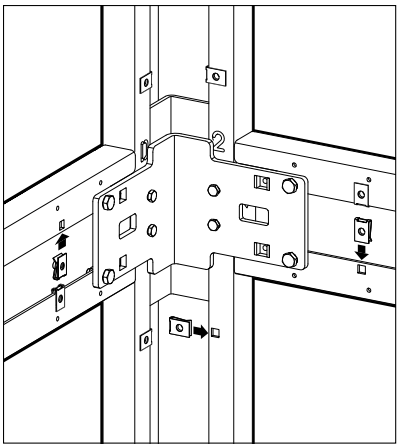


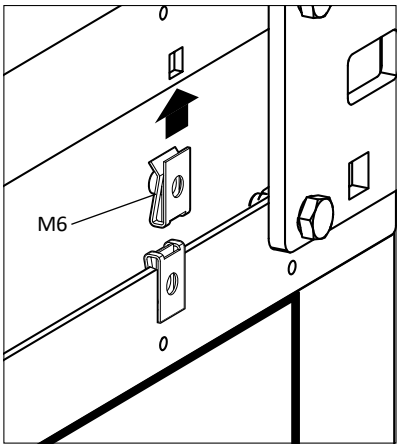
**INFORMATION**

The basement cladding is ALWAYS blind.

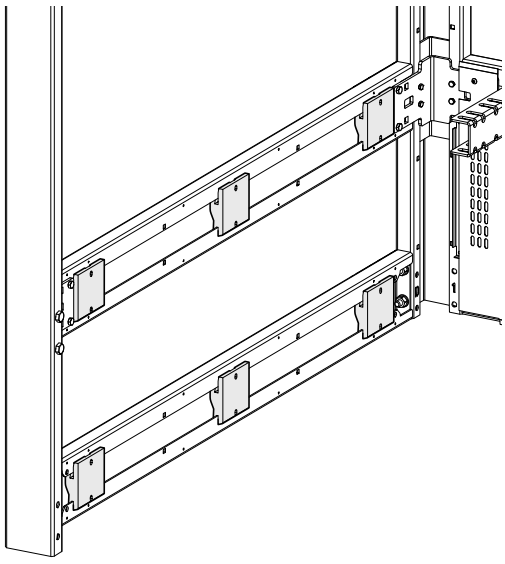
**KIT S001.23.0001**

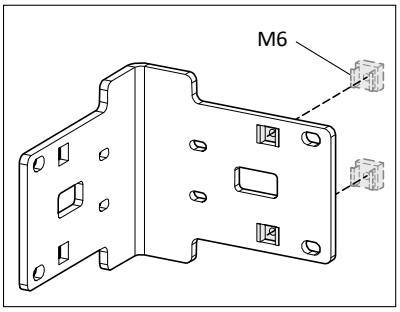
- Insert the nuts in the beam where it is required. See the right position looking the holes of the panels of the internal cladding.
  In the pit bottom the nuts are required in:
  - the beam of the floor > the bottom strip
  - the high beam > the top strip

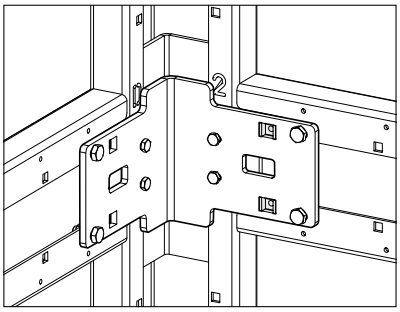




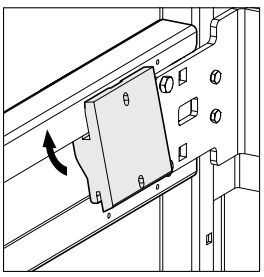

Check that the nuts are inserted to the fixing plates on the guides side. If they weren't assembled it is necessary to disassemble the plate and insert them.

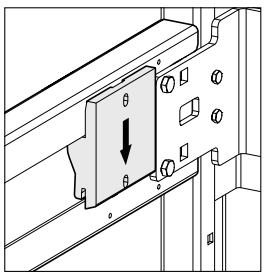


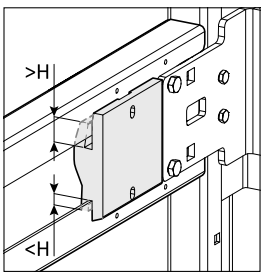


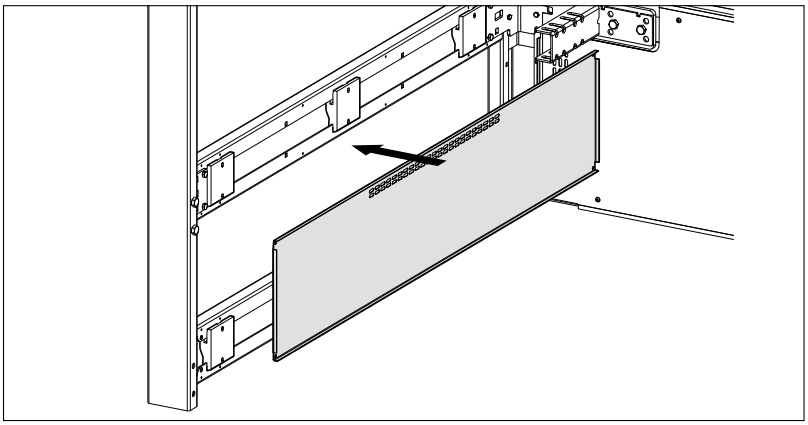
- Insert the glass supports in correspondence with the nuts

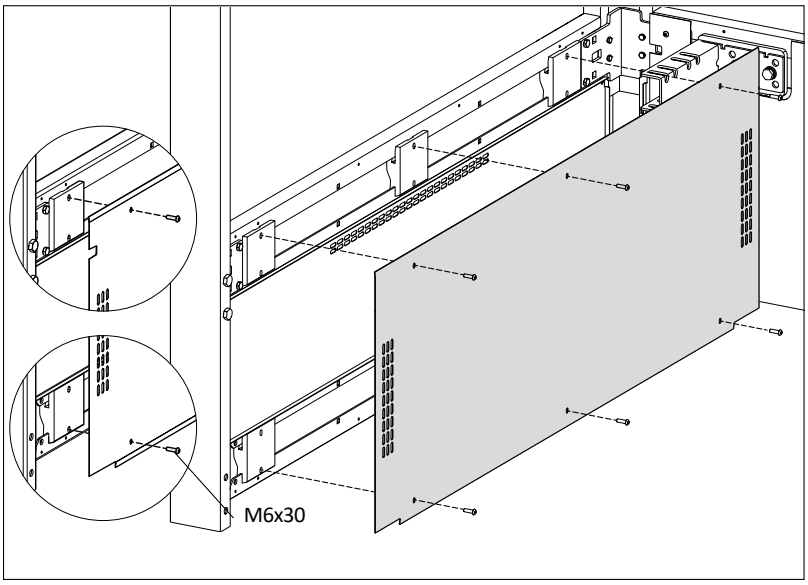






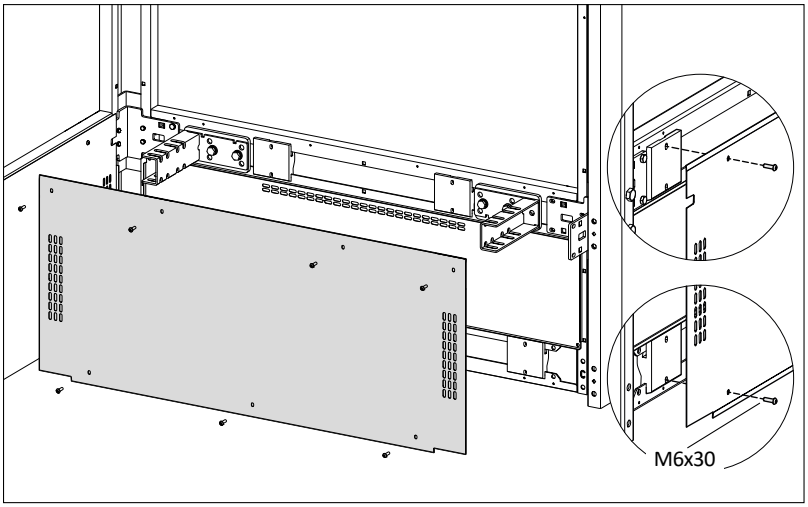
- Position the blind cladding
- Fix the pannel of the internal cladding






**INFORMATION**

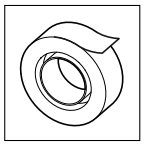
For the positioning of the glass supports and cladding on the guides side, use the project drawins or/and check the assigned holes of the internal cladding.

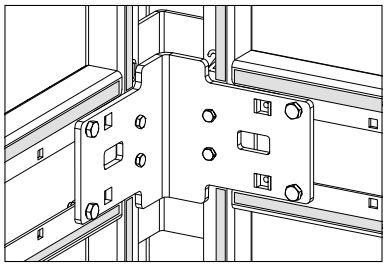


## 7.21. CLADDING

### NOTICE

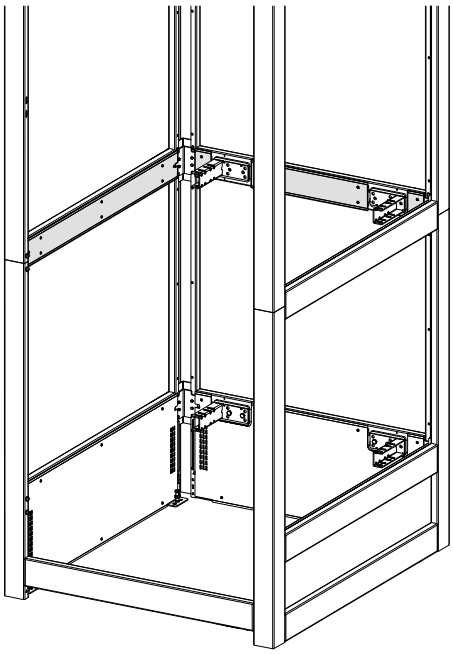
In outside structures, put the adhesive steal or some silicon on inner face of cross and beams before assembling the cladding

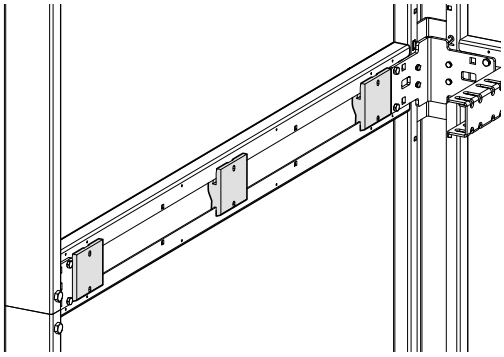




**Assemble the cladding on all the sides before starting the installation of the lift**

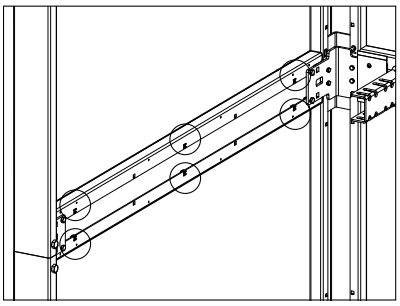
**HORIZONTAL GLAZING BEAM**

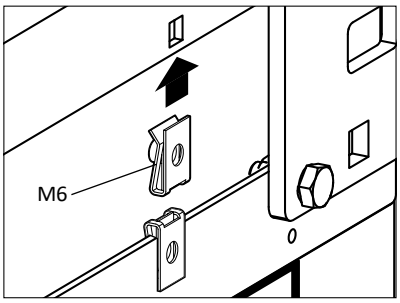




**KIT S001.23.0001**

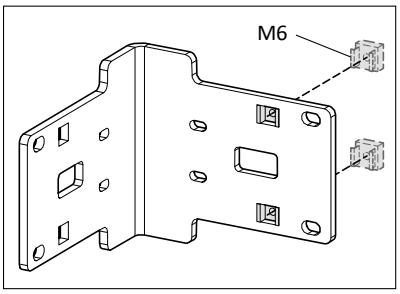
- Insert the nuts and the crosses where it is requested.
  The necessary position is notable from the drilling of the panels of internal cladding.

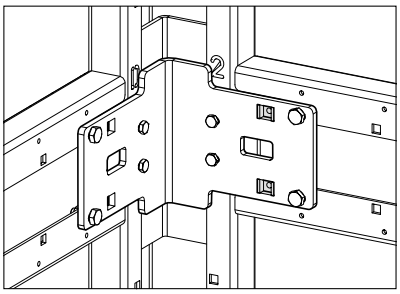




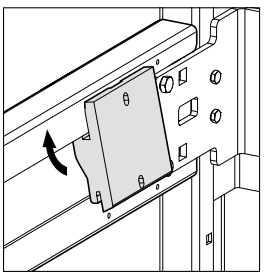

### INFORMATION

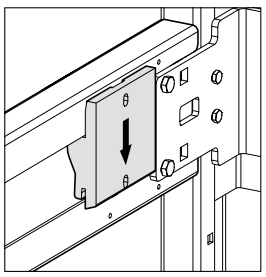
Check that the nuts are inserted to the fixing plates (guides side). If they weren't assembled it is necessary to disassemble the plate and insert them.

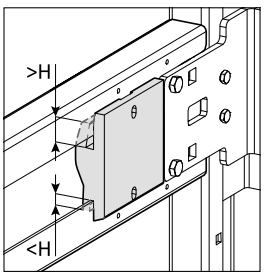


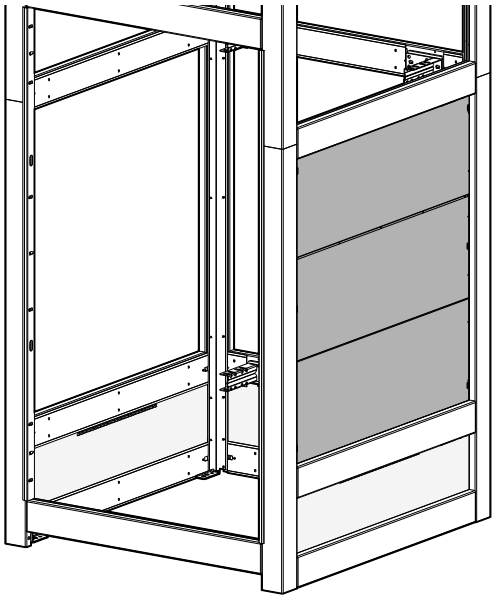
- Insert the glass supports in correspondence with the nuts



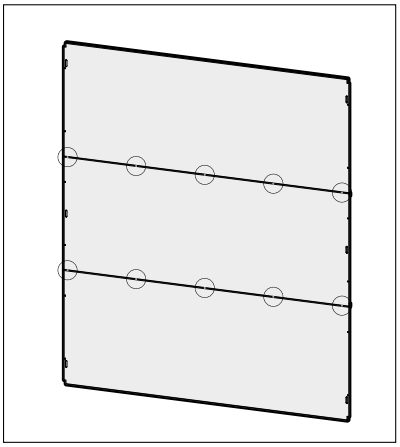


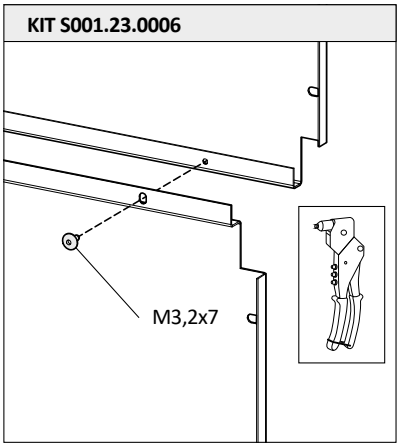


## STANDARD BLIND PANELS - PRE-ASSEMBLY



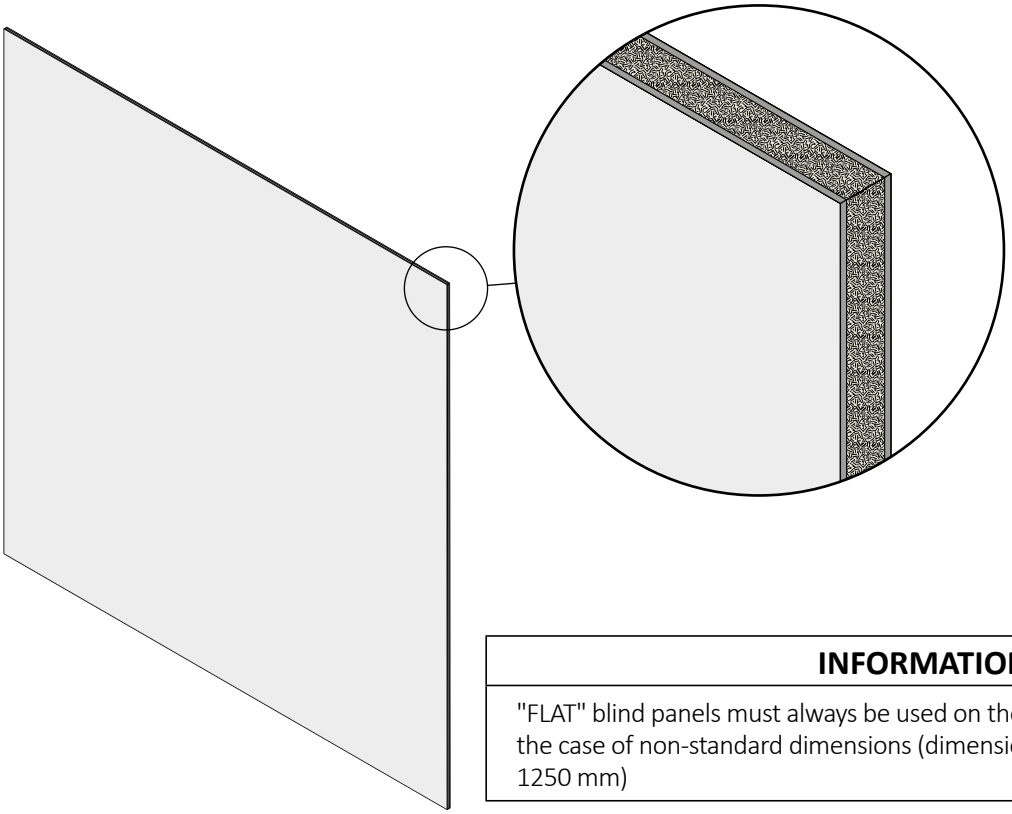
- Assemble the blind cladding with the rivets.






- Position the cladding with the suction cup.
- Fix the internal cladding plate.

## SPECIAL BLIND PANELS "FLAT" - PRE-ASSEMBLY

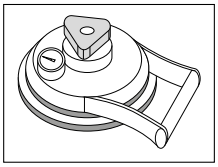


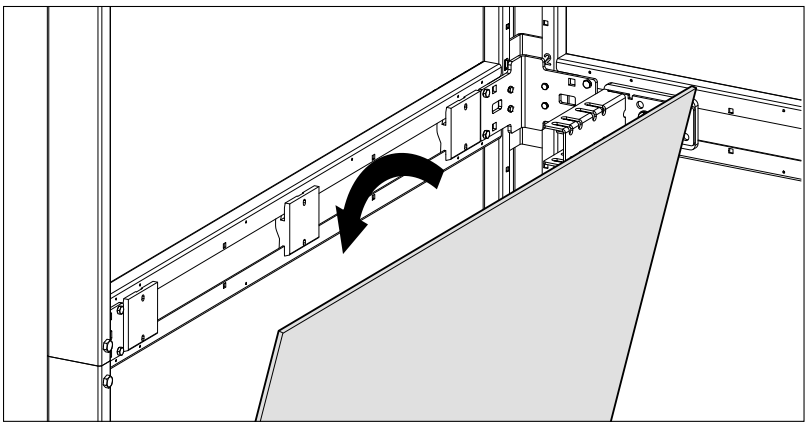
### INFORMATION

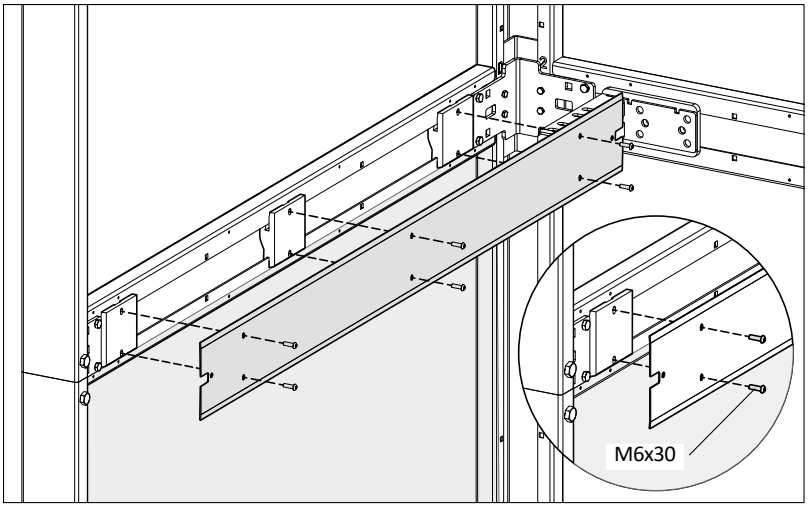
"FLAT" blind panels must always be used on the landing / door side and in the case of non-standard dimensions (dimensions from cross beam to ≠ 1250 mm)

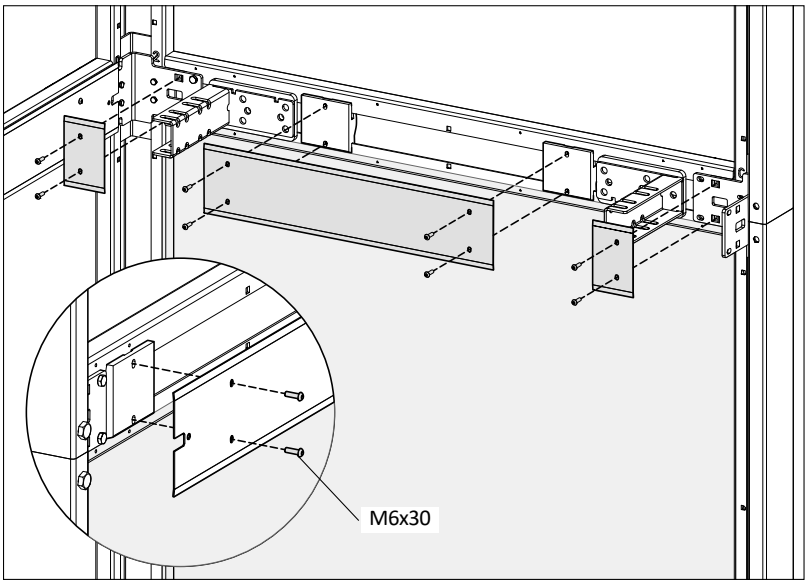
## GLASS AND BLIND "FLAT" PANELS - INSTALLATION

- Position the infill panels (for glass panels use the appropriate suction cups).







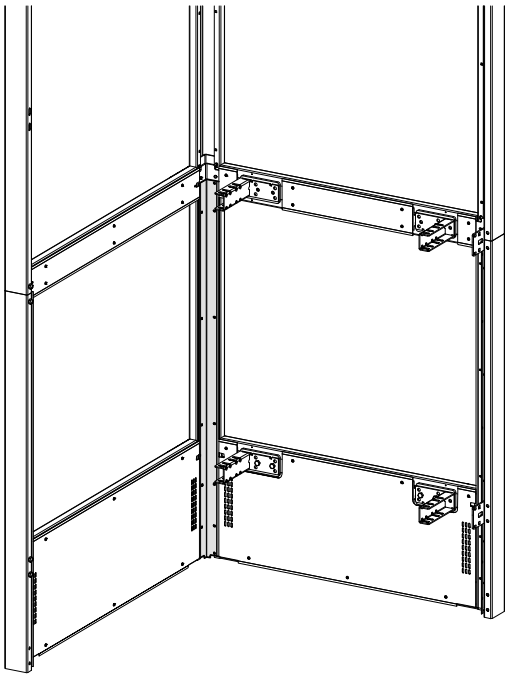




### INFORMATION

In the absence of doors in the car and / or domoFLEX PLATFORM use sandwich infill panels.

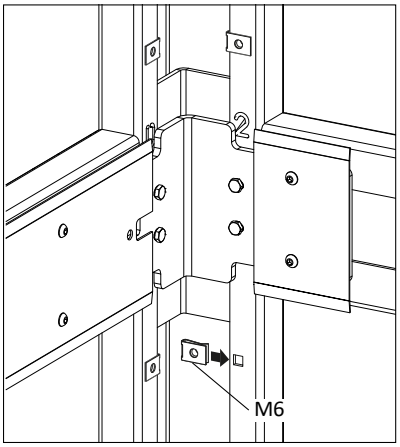
For the positioning of the glass supports and of the infill panels on the guide side, refer to the project drawing and / or to the holes on the internal infills panels.

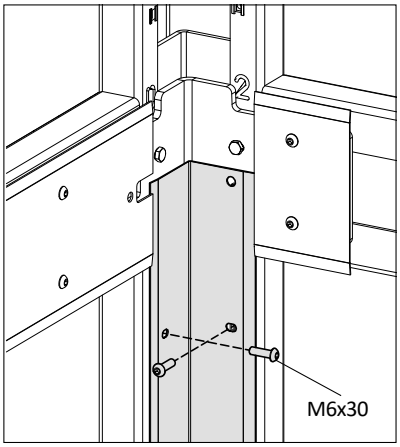
## VERTICAL GLAZING BEAM

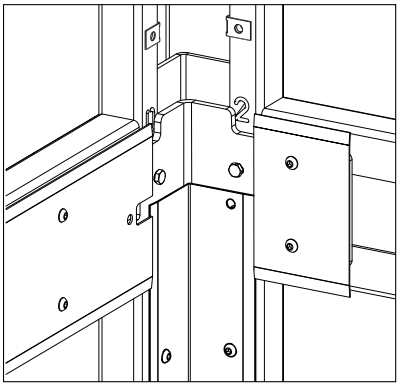


**KIT S001.23.0001**

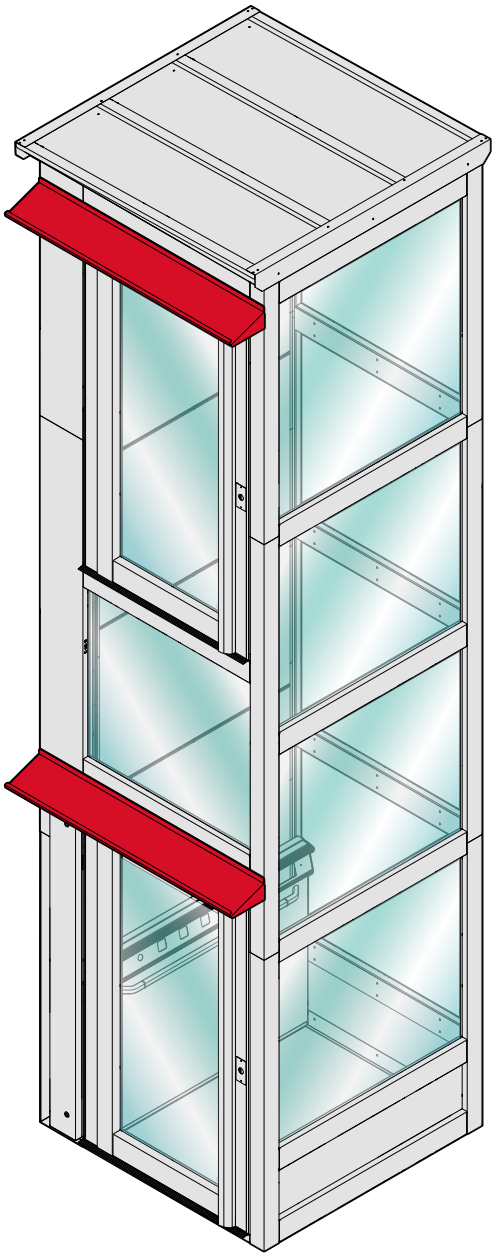
- Insert the nuts in the crosses.
- Position the vertical glazing beam and fix it.

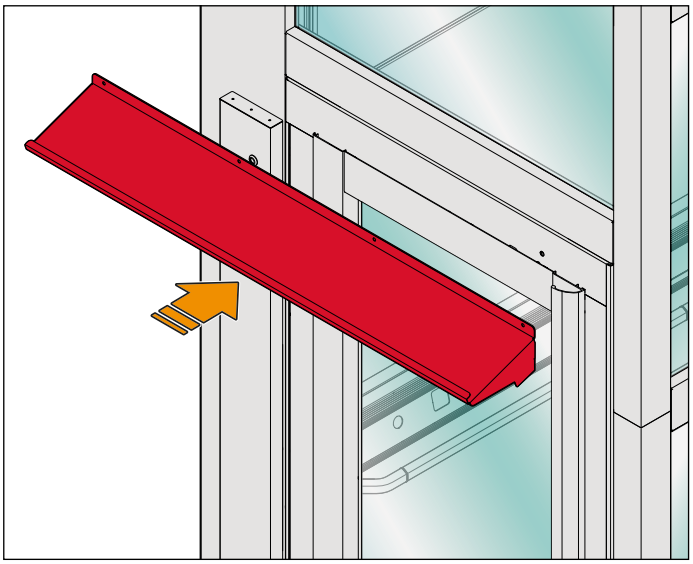


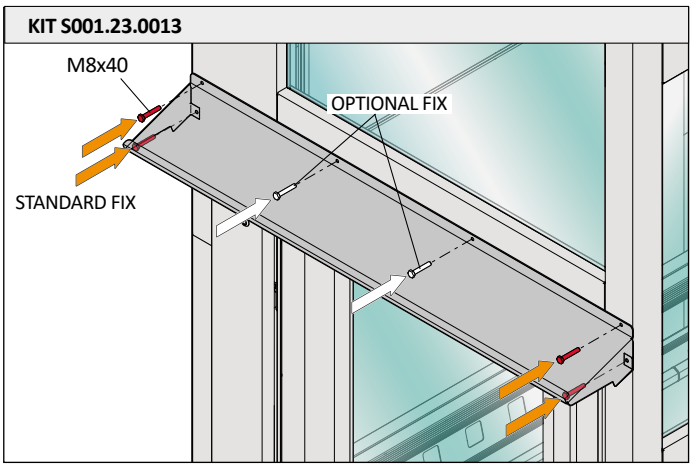



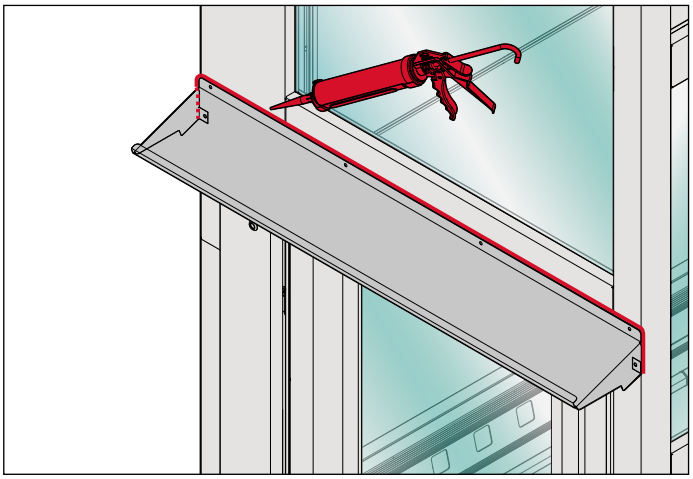



## 7.22. RAIN SHELTER (if supply)







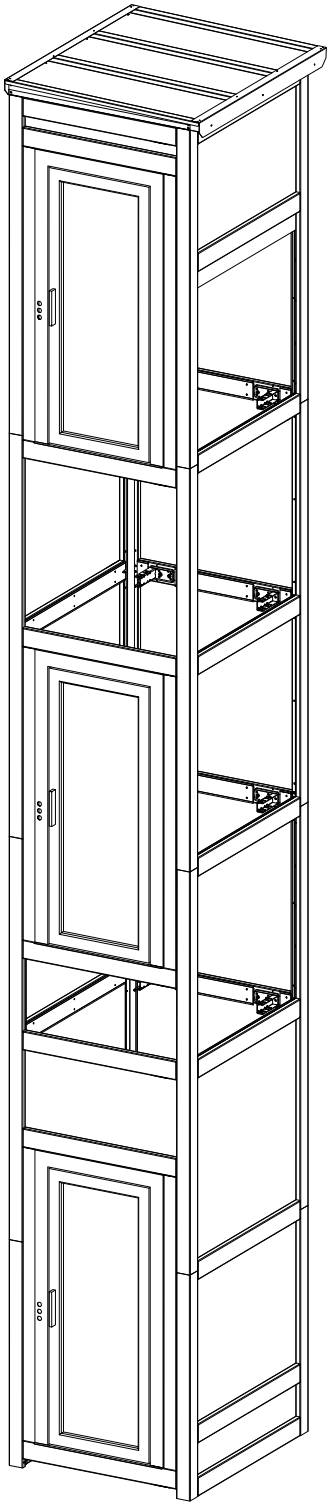
### INFORMATION

Put silicone carefully on three sides to avoid infiltration.

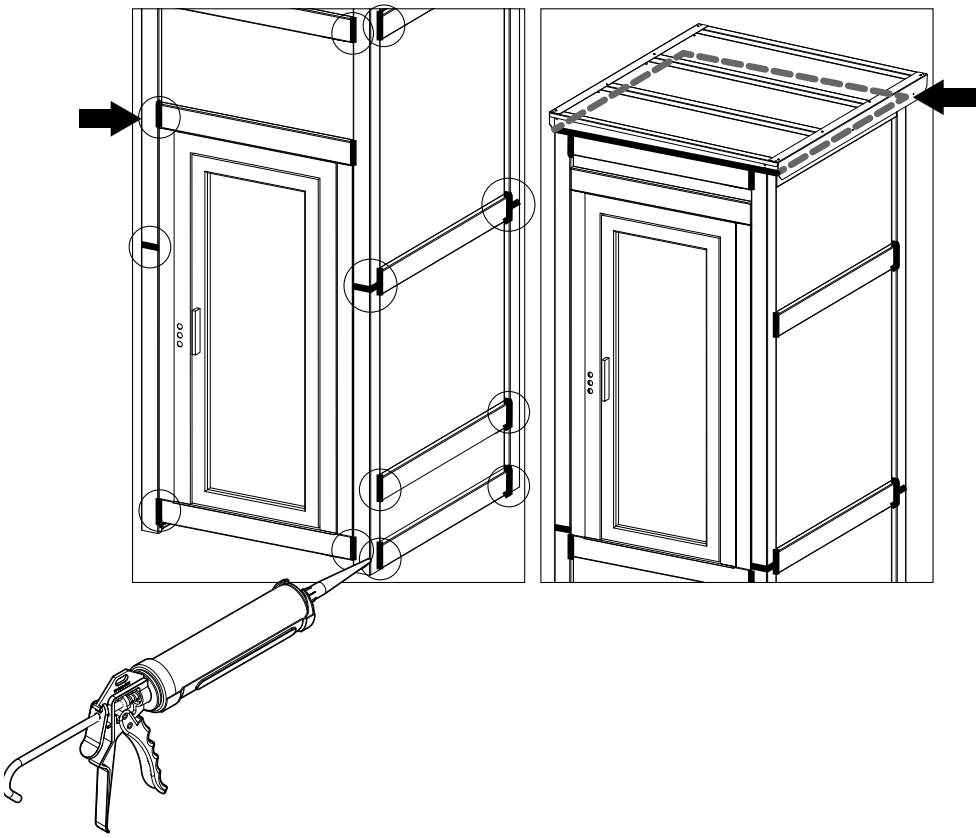
### 7.23. OUTDOOR SILICONE SEAL

**NOTICE**

In case of outer structureit is necessary to carefully silicone the marked areas (both in case of glass and blind panels), in order to prevent possible infiltrations with consequent damage to the structure.



- If the structure is for EXTERNAL it is necessary to siliconize all the junctions between cross and beams.
- Put the silicone also between the interface of the structure–roof.

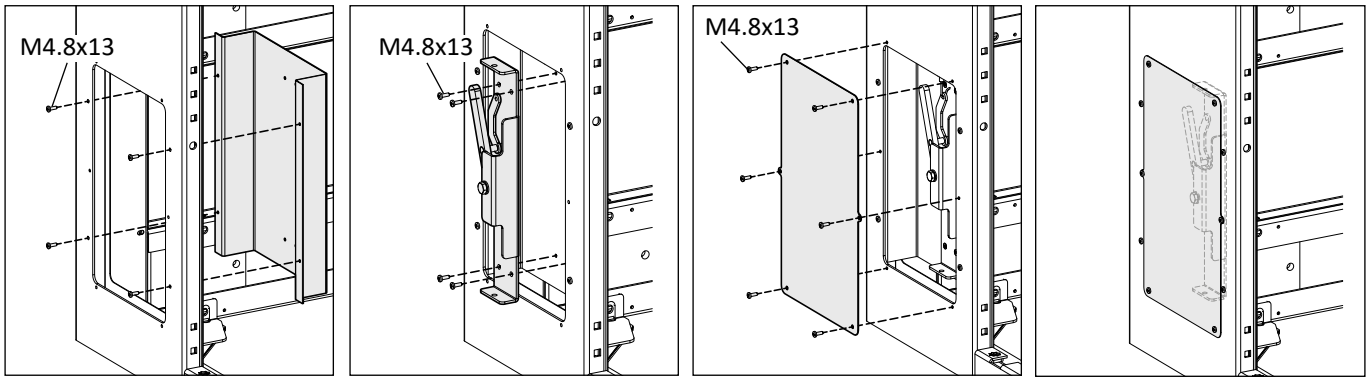


## 8. SPECIAL CASES

### 8.1. INSTALLATION OF THE BOX FOR THE ACTUATION LEVER OF THE PIT PROT DEVICE (domoFLEX)

- Place the lever support (supplied with the structure)
- Place the lever.
- Once the opening mechanism is implemented, close the shaft.

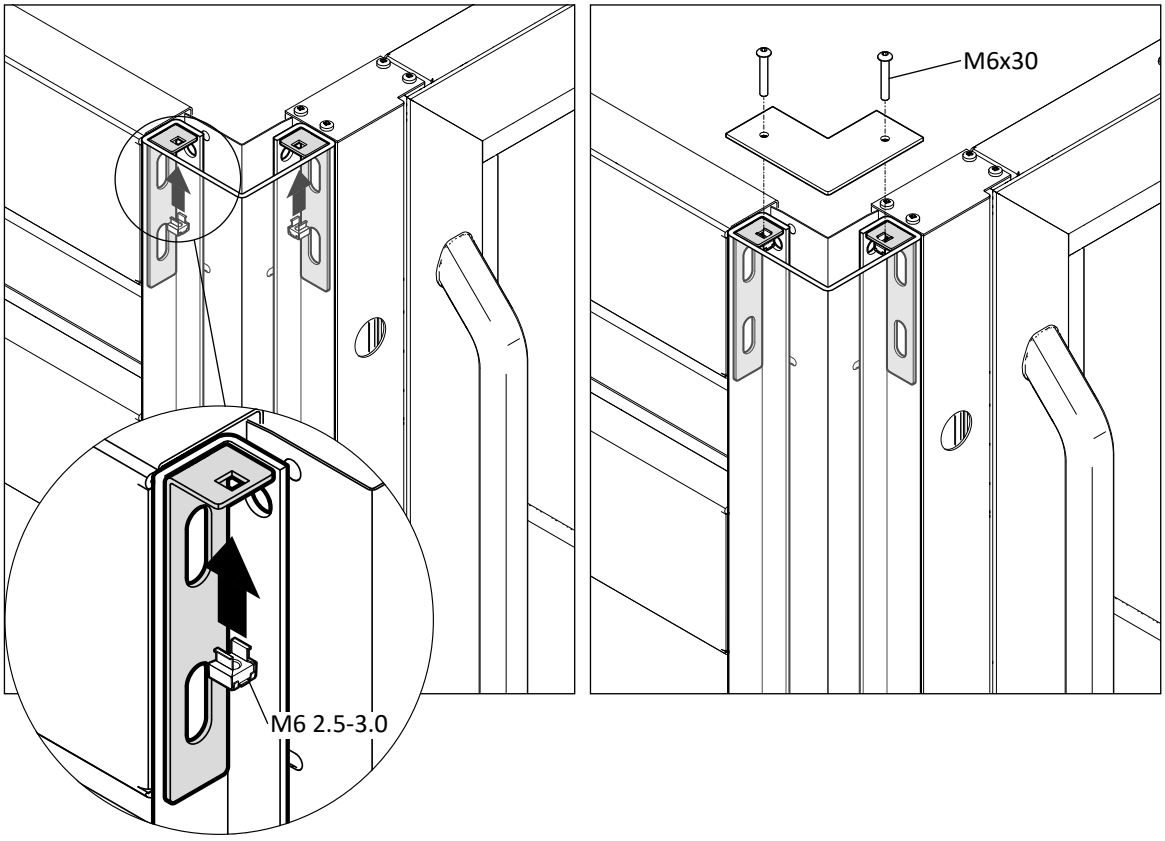
**KIT S000.23.0007**



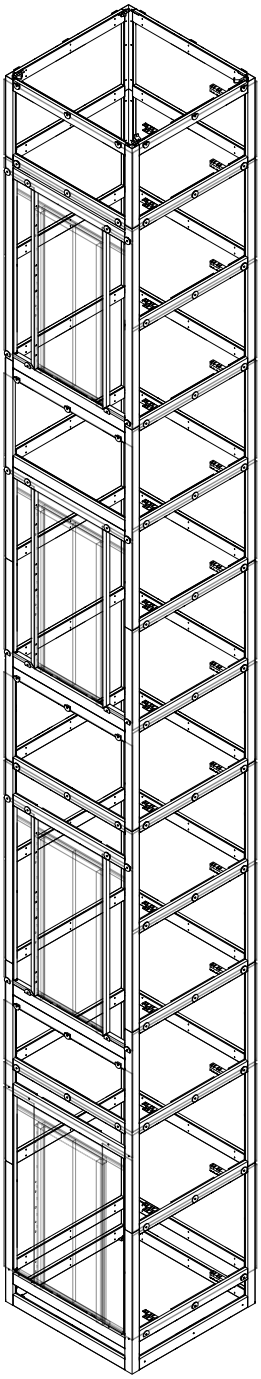

### 8.2. UPPER PROTECTION CAPS (domoFLEX OPEN)

- Fit the cage nuts into the square holes of the brackets located in the headroom uprights.
- Place the upper cap
- Fix the cap by means of the supplied screws

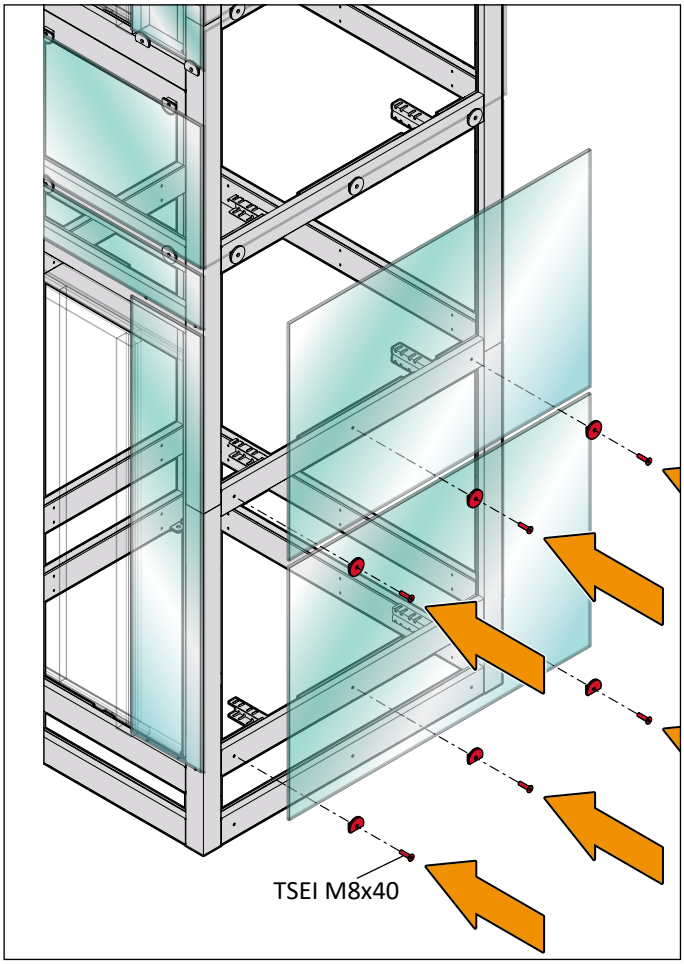
**KIT S001.23.0010**

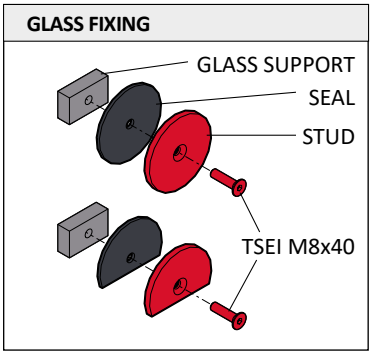


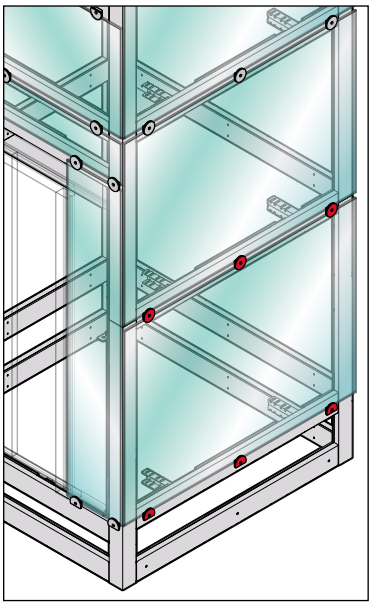
## 8.3. GLASS ASSEMBLY ON FGL STRUCTURE (PANORANIC/FULL-GLASS)



- To fix the glass, use the glass holder studs with the appropriate screws, as indicated in the drawings.



## 9. MAINTENANCE

### 9.1. MECHANICAL CHECKUP

In occasion of the periodic checks of the elevator or of the platform, check the fixing of screws and bolts.
Verify the correct position of the plugs and the wiring covers.
Check the cladding seals and replace them in case of cracks or cuts.
Verify the fixing to the wall.

### 9.2. CLEANING

To avoid damaging the structure during cleaning, we recommend to use neutral detergent water solution. Acid based detergents, ammonia, alcohol are to be strictly avoided, since these aggressive substances might damage the surface. NEVER use products containing soda.
The way to keep mirrored aluminum profiles bright is to clean them by means of a blend of oil and denatured alcohol, equal parts.

For glass cladding, use warm water with a teaspoonful of denatured alcohol or ammonia. Be careful and do not touch the aluminum surfaces which might be damaged. Do not clean glass surfaces when exposed to direct sun rays, to avoid stains.
For painted or anodized aluminum cladding, use a neutral detergent solution . Acid based detergents, ammonia, alcohol are to be strictly avoided, since there aggressive substances might damage the surface. NEVER use products containing soda.