

# Idea and Opera<sup>®</sup>

*Aluminium coated cars*

## INSTALLATION AND COMMISSIONING INSTRUCTIONS





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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**

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

### PROHIBITION SIGN

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

### MANDATORY SIGN

	OBLIGATORY 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.

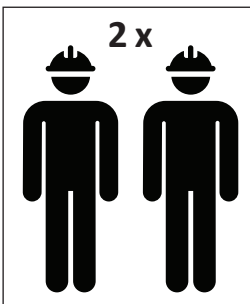
**NOTE:** In this manual, we will talk about "SHAFT" meaning for it the base slab, the slab of landing and the vertical wall that connects its slabs.



#### CAUTION

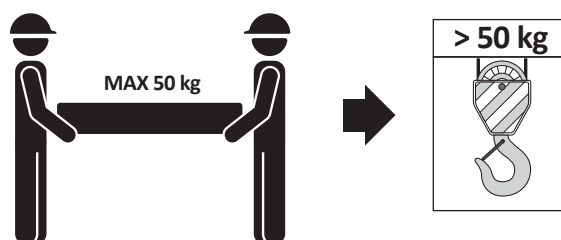
#### SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:

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.).



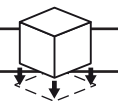
The assembly must be performed by a **MINIMUM 2** people;

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





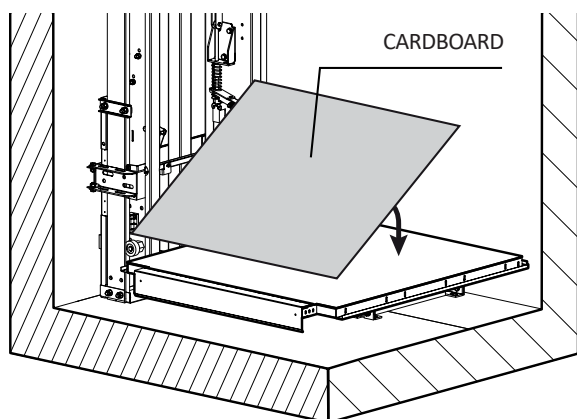
## 1.2. INSTALLATION SITE - COMPONENTS POSITIONING



### NOTICE

#### COMPONENTS POSITIONING:

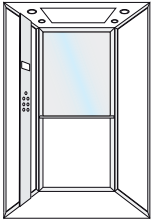
It is important to position the material correctly on the installation site since once the scaffolding has been assembled it could become difficult to move some components, with the risk of injury and damage to the materials.



- a. Protect the floor during assembly.

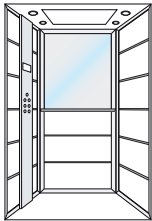
2. PRODUCT DESCRIPTION

2.1. GENERAL DESCRIPTION AND TERMINOLOGY



IDEA CAR

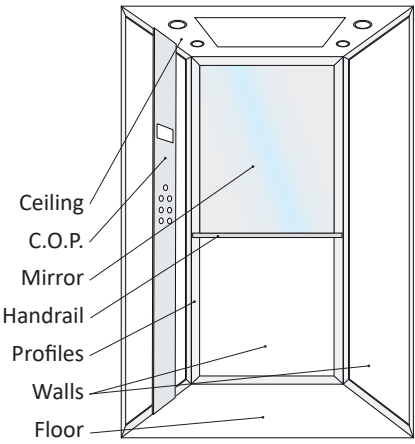
Aluminum car covered with laminate panels.



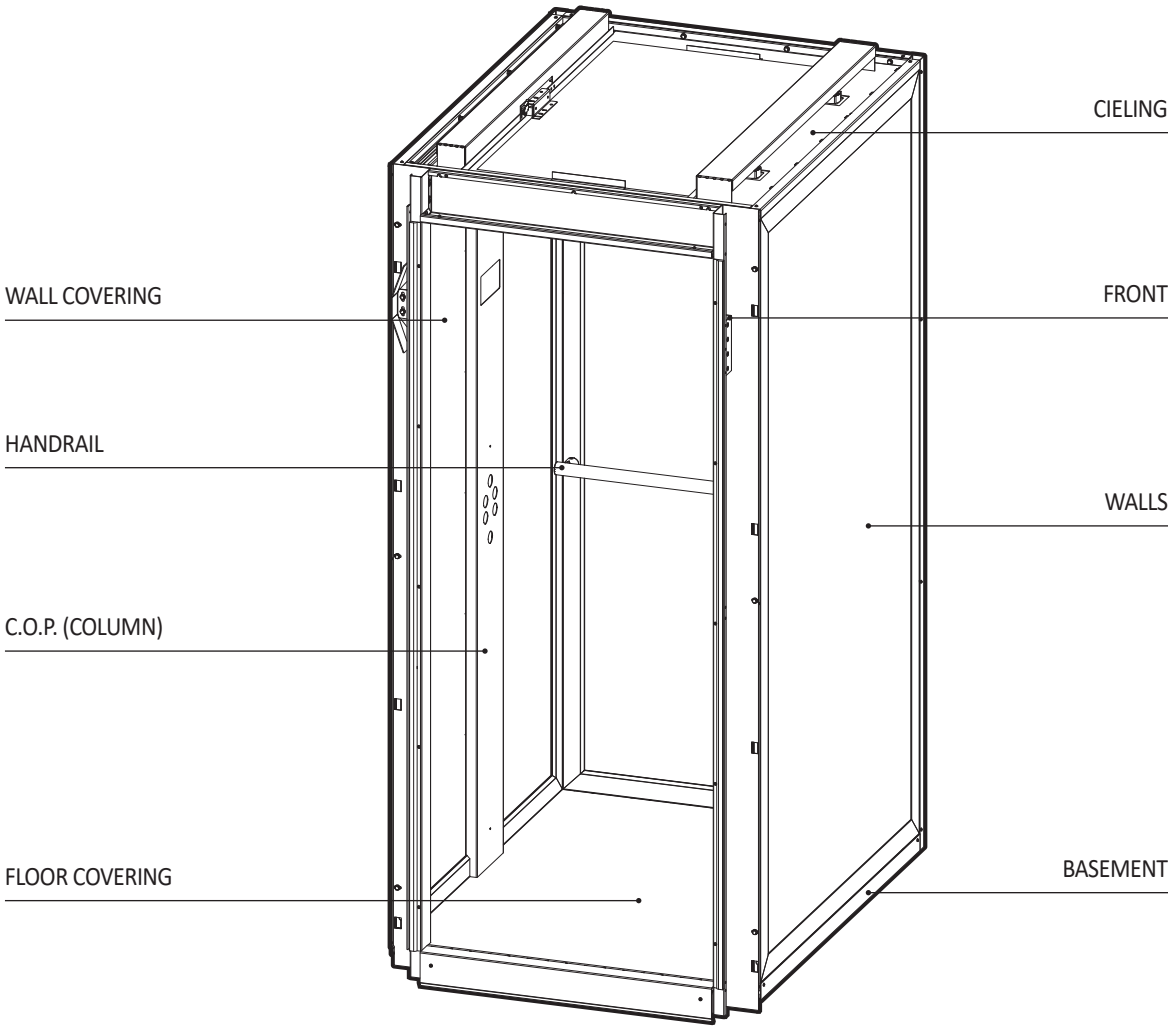
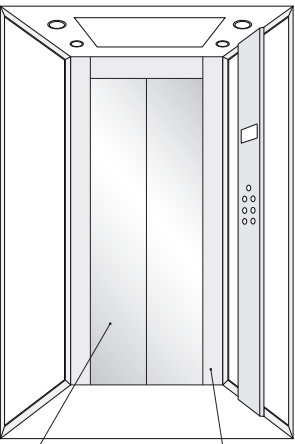
OPERA CAR

Aluminum car covered with laminate slats interspersed with metal strips.

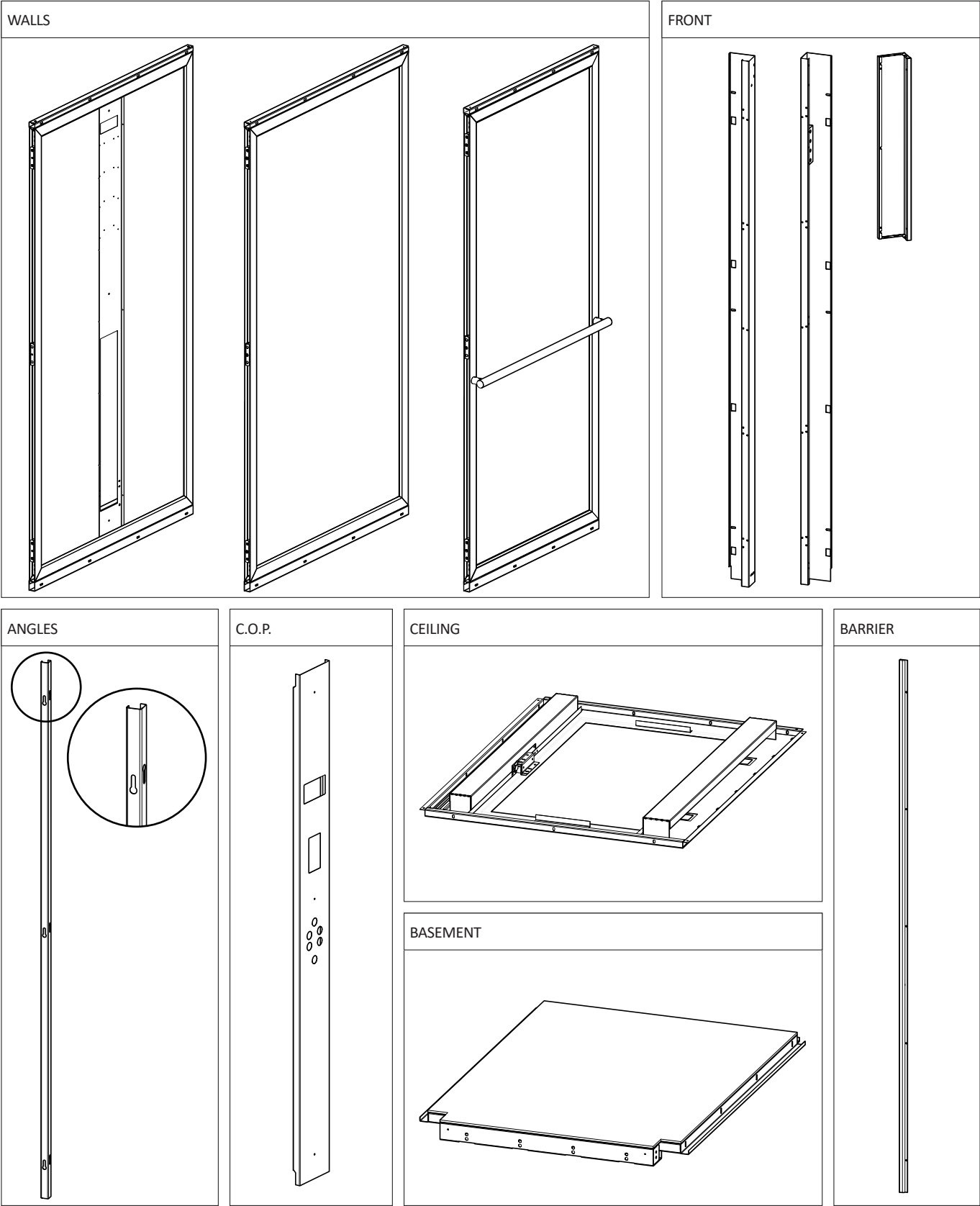
view from outside the cabin



view from inside the car



2.2. COMPONENTS IDENTIFICATION



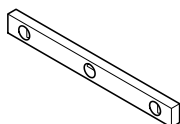


**INFORMATION****3. TOOLS AND MATERIALS REQUIRED FOR INSTALLATION**

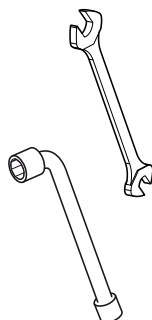
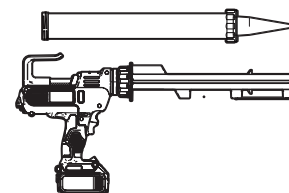
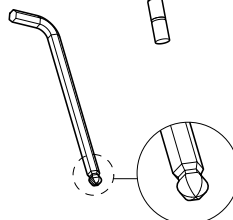
Tape measure



Spirit level

Hoist  
150 kg

Double-sided adhesive

Spanner  
8 to 17 mm  
2 each sizeSocket wrench  
8 to 17 mmRatcheting ring spanner  
13 to 17 mmAllen key  
with ball end  
3 to 6 mmSilicone (not included)  
and Caulking gun

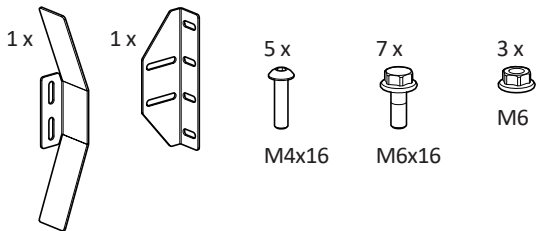
INFORMAZIONI

4. BOX CONTENT - SCREWS KIT

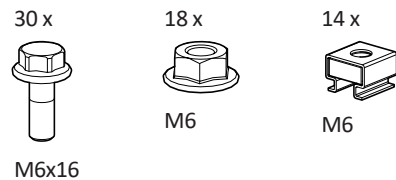


**NOTE:** Each “KIT” box with its identification code represents the packaging unit, i.e. how many pieces per type are contained in each package..

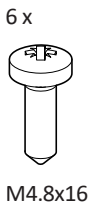
KIT C002.23.0002



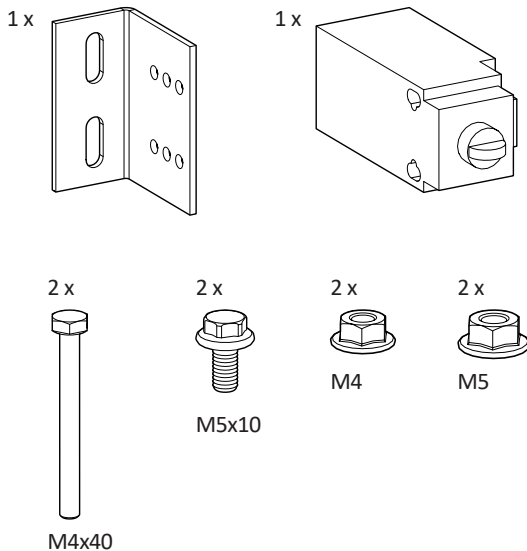
KIT C002.23.0010



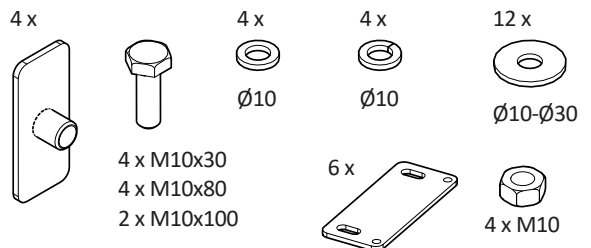
KIT C002.23.0011



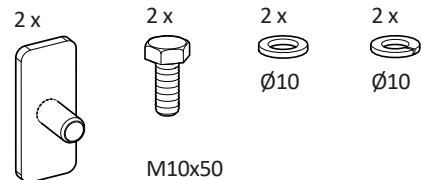
KIT C002.23.0004



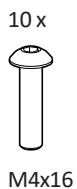
KIT F350.23.0004



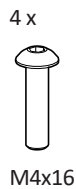
KIT F350.23.0005V01



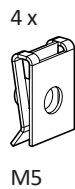
KIT C002.23.0008



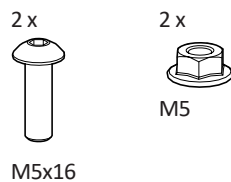
KIT C002.23.0012



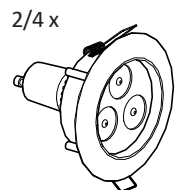
KIT C002.23.0014



KIT C002.23.0007



KIT E303.05.9009V01





**KIT D003.23.0001**



2X  
TCEI M6X20

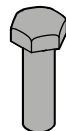


2 x



2X  
M8X10

**KIT C002.23.0023**



17X  
M8X20



7X  
M8



3X  
M5



3X  
M5X10



6X  
M6X16



4X  
Ø8

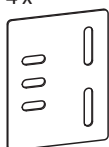


6X  
M6

Optional

**KIT C002.23.0009 - C002.23.0015**

4 x



8 x



M10x20

8 x



Ø10

8 x



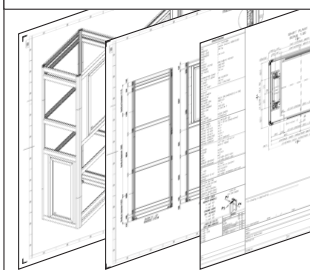
Ø10-Ø30

8 x



M10

**LAYOUTS**





## 5. BASEMENT ASSEMBLY

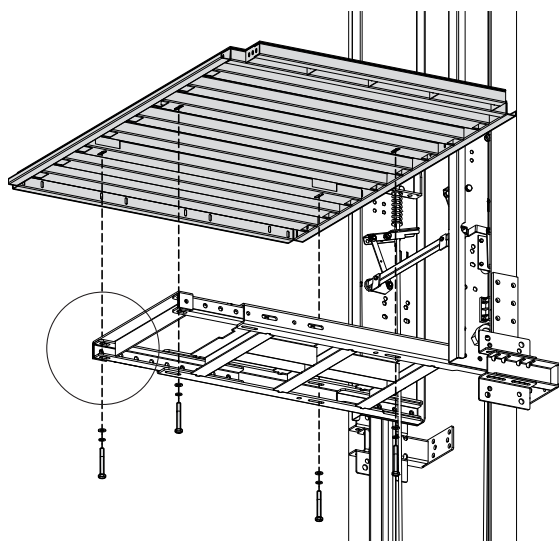


### NOTICE

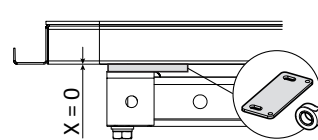
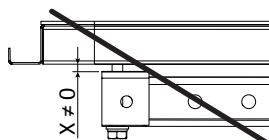
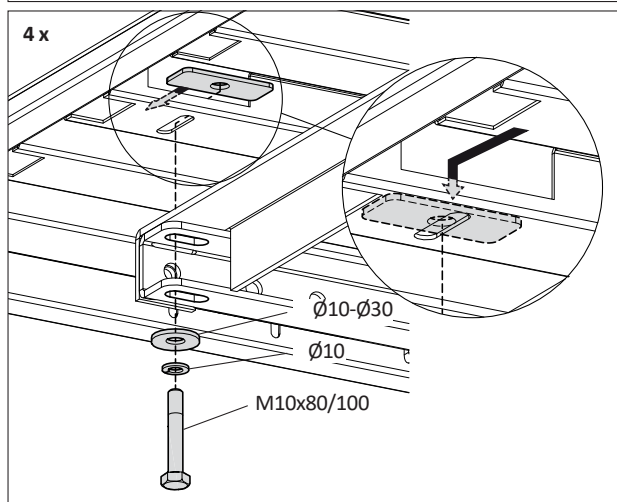
The car BASEMENT must be completely installed, before proceeding with the car assembly.

#### BASEMENT ASSEMBLY WITH PIT $\geq 140$ mm

- a. Install the basement using the pre-arranged holes.

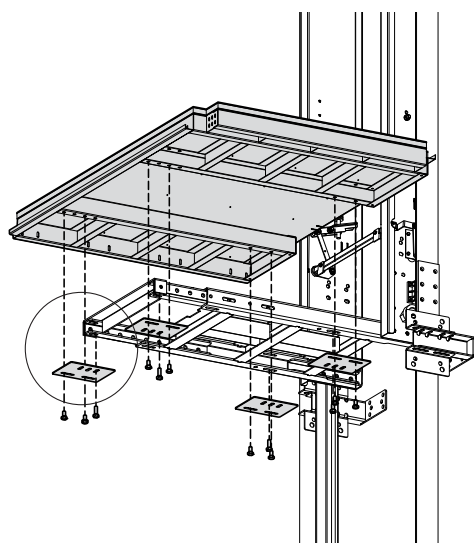


#### KIT F350.23.0004

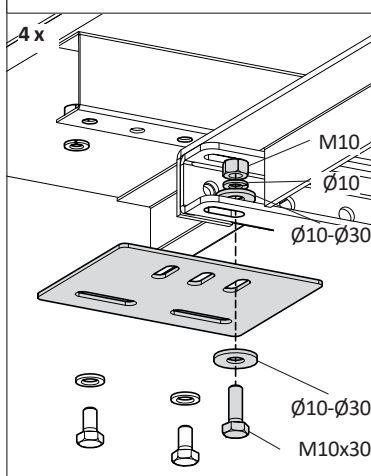


#### BASEMENT ASSEMBLY WITH 100 mm $\leq$ PIT < 140 mm

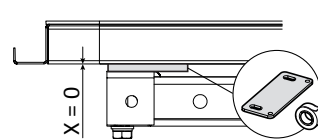
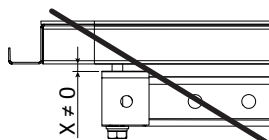
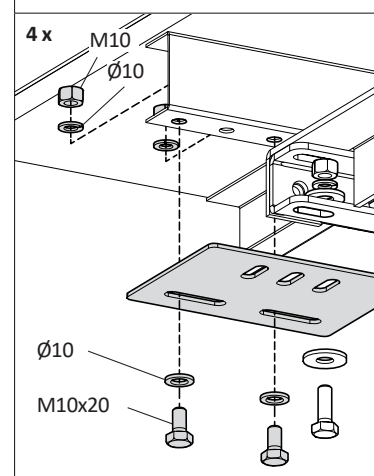
- a. Install the basement using the pre-arranged holes.



#### KIT F350.23.0004



#### KIT C002.23.0009 / 0015





## 6. CAR ASSEMBLY

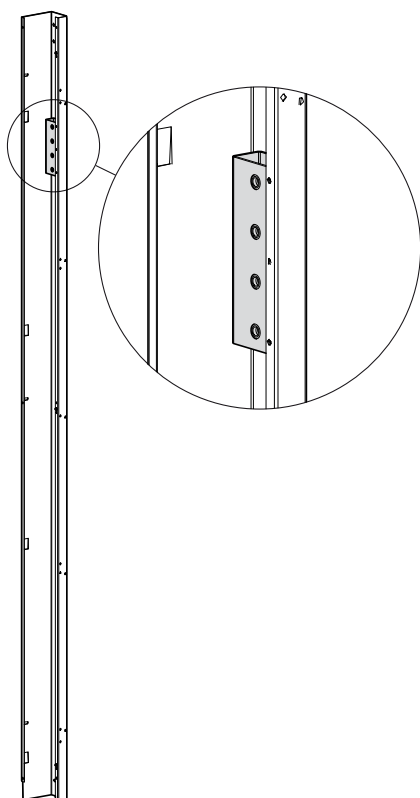


### NOTICE

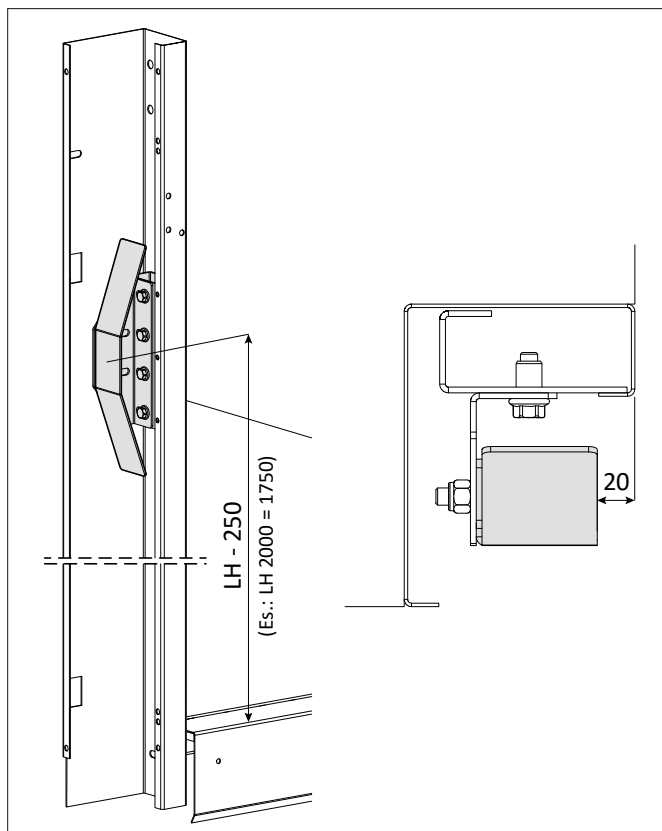
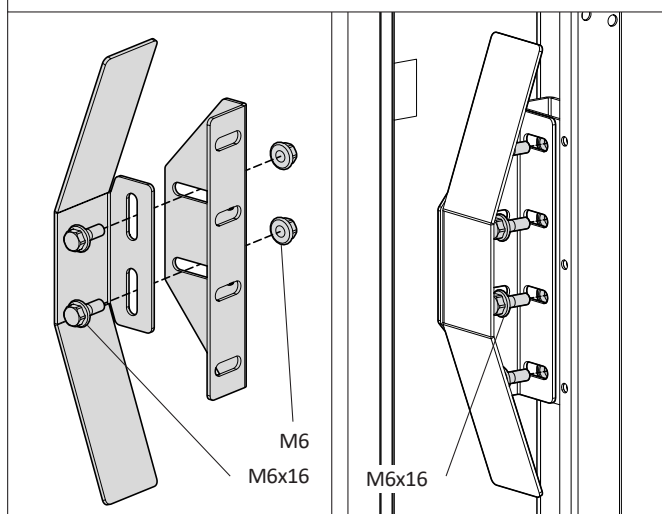
Before proceeding with the car assembly, make sure **the BASEMENT is perfectly leveled.**

#### 6.1. UPRIGHT PREPARATION

- a. Install the slide on the upright using the pre-arranged bracket

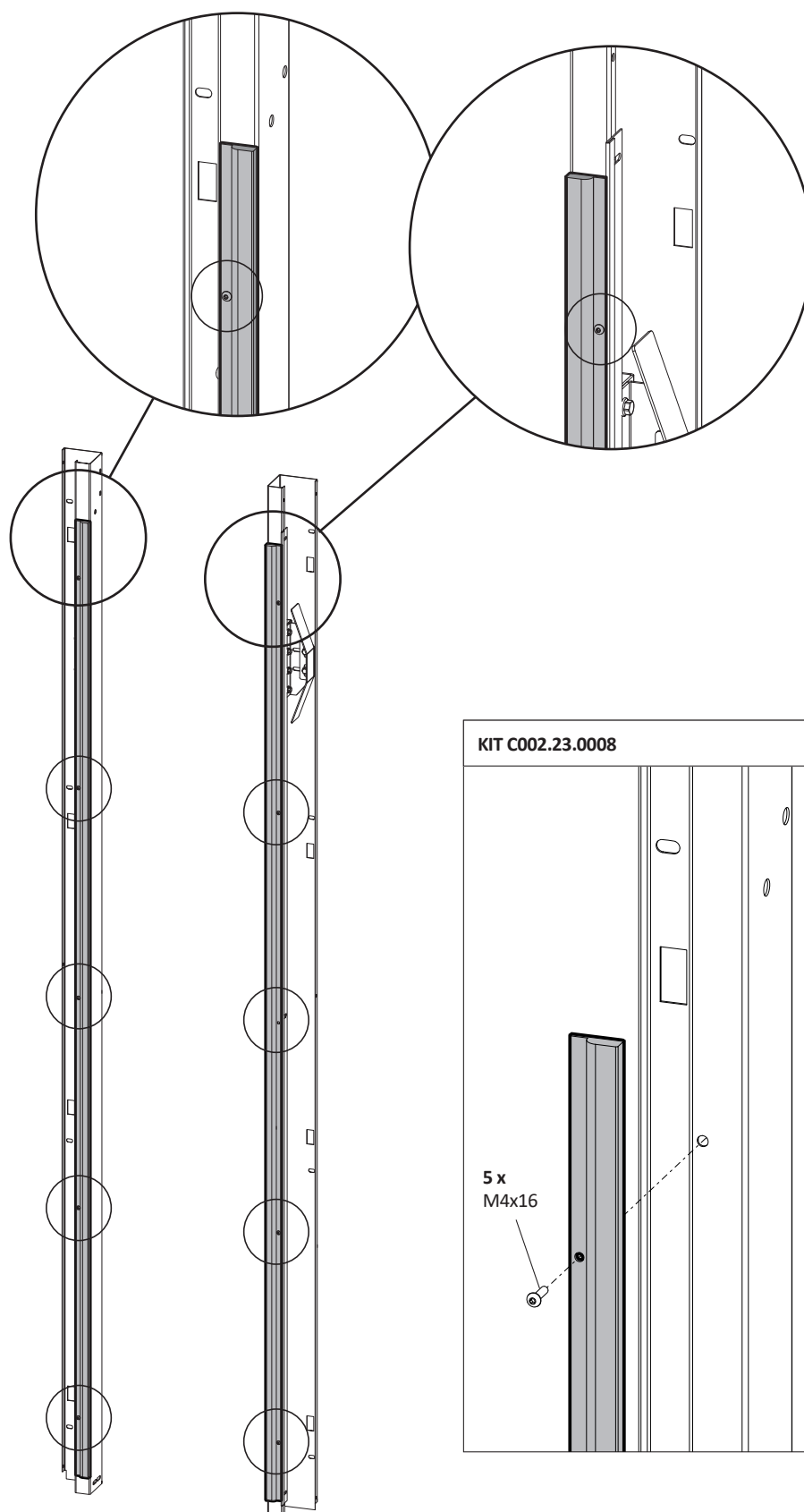


KIT C002.23.0002

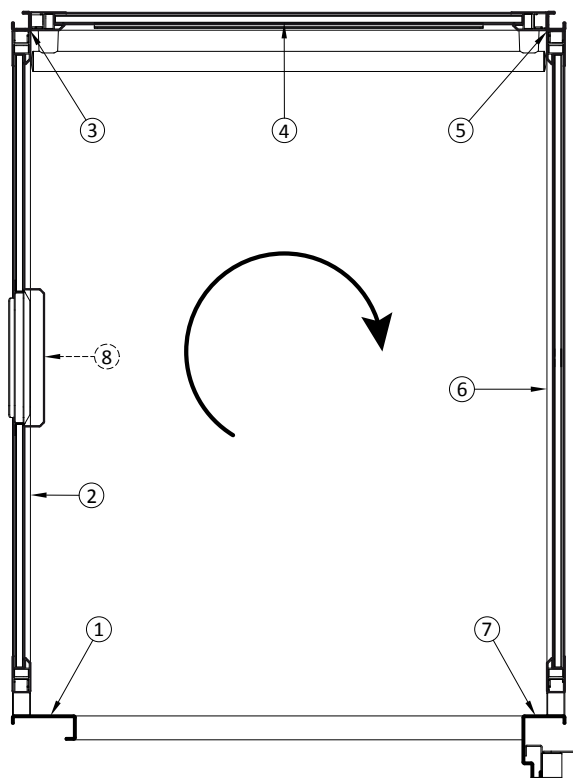




a. Install the barrier on the pre-arranged upright



- Follow the assembly drawing to install the FRONTS, the WALLS, and the ANGLES.



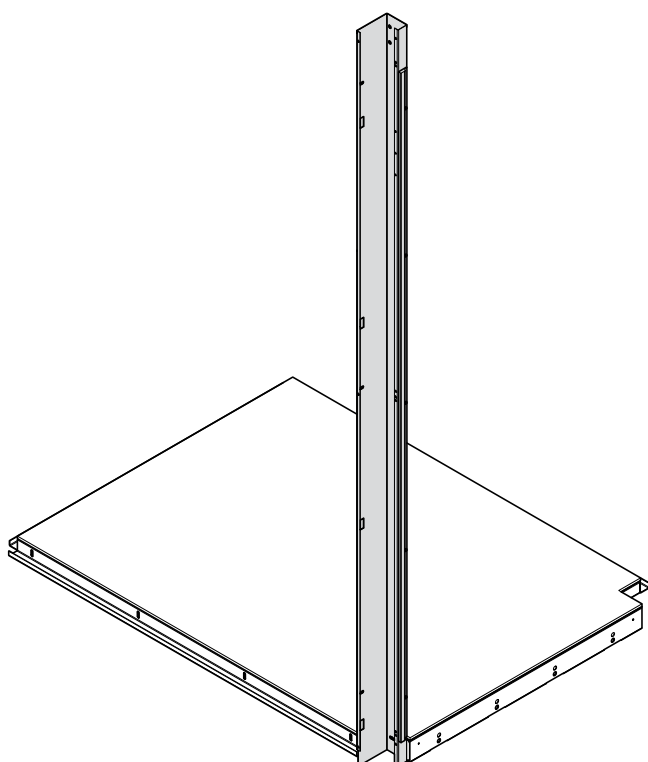
#### INFORMATION

This manual applies to a single entrance car. To check the installation steps, please consult the project drawings enclosed with the scope of the supply.

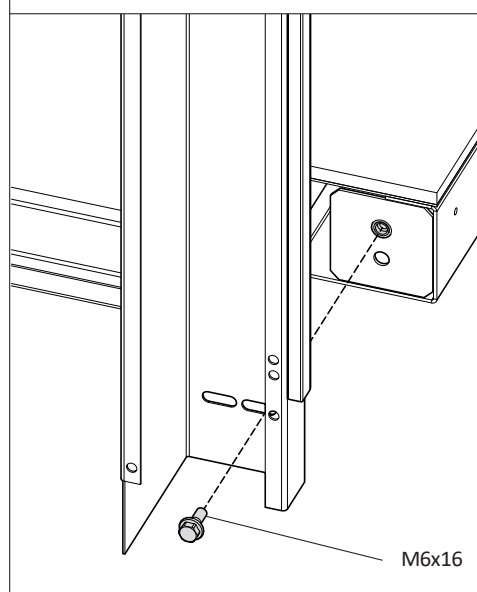
The installation is to be started from the front left upright, following clockwise.

If the floor is supplied by the client, it is necessary to verify that the thickness of the floor is in accordance to the indicated information in the final drawing and in the project documentation.

#### 6.2. UPRIGHTS FIXING TO THE BASEMENT



KIT C002.23.0010

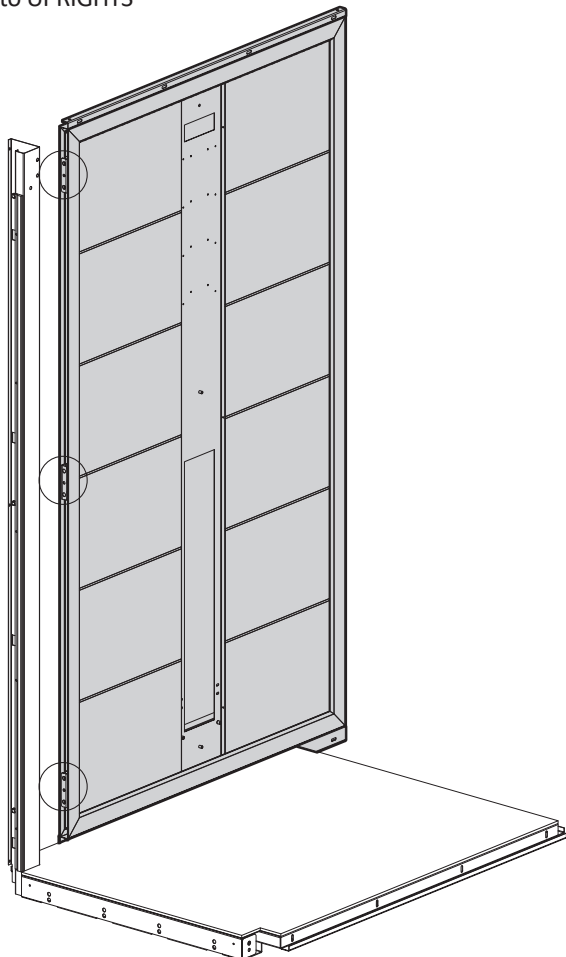


Follow the below sequence of steps to install the uprights.

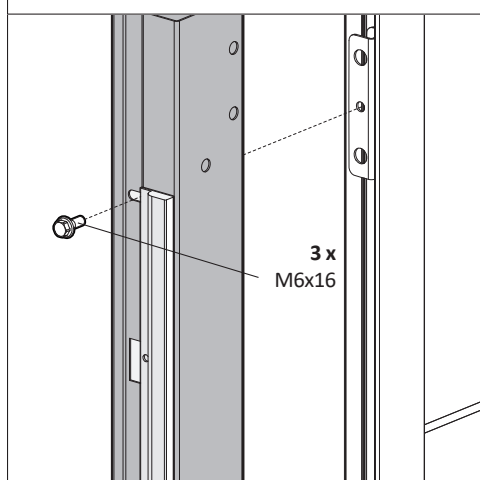


### 6.3. WALL FIXING

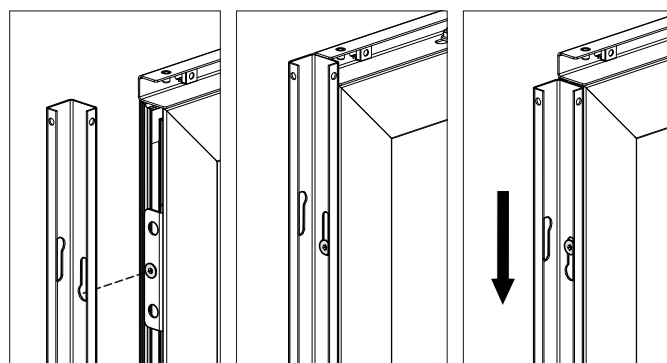
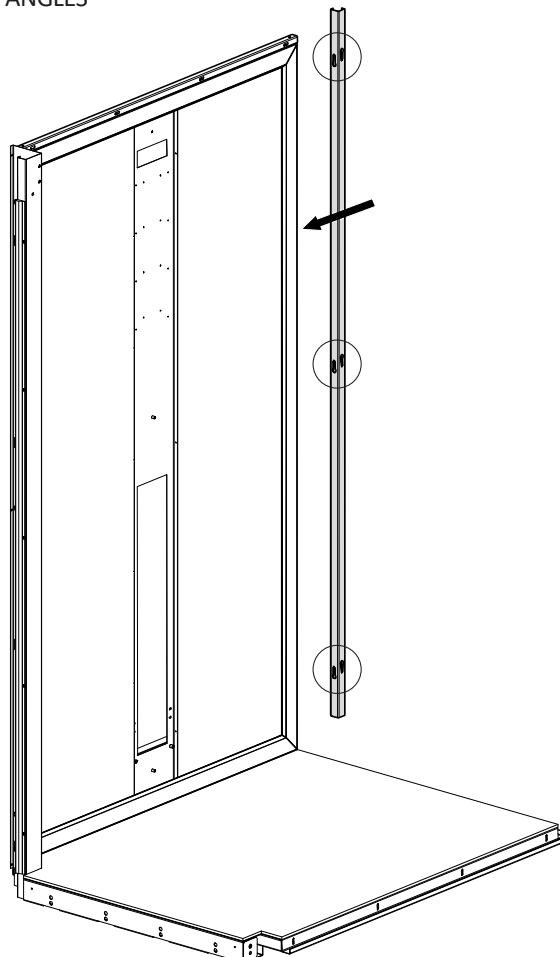
#### a. to UPRIGHTS



**KIT C002.23.0010**



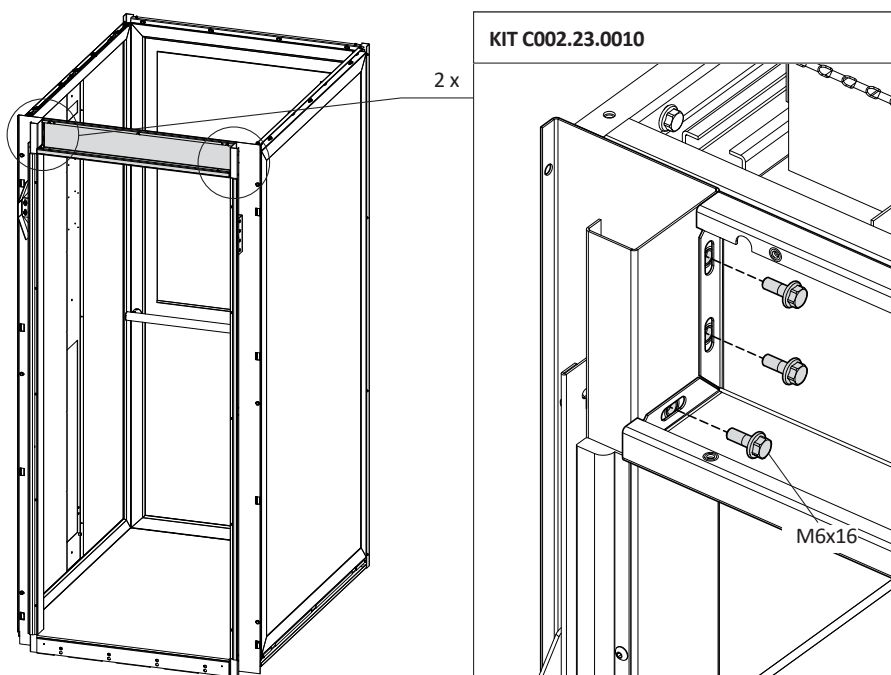
#### a. to ANGLES



It is possible to preassembly the front uprights and the angles onto the walls, especially in case of limited shaft dimensions.



- Install the front CROSSBEAM (KIT C002.23.0010).

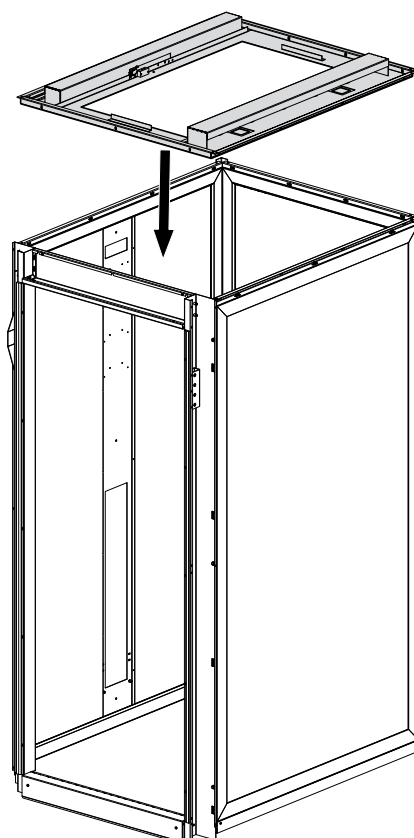
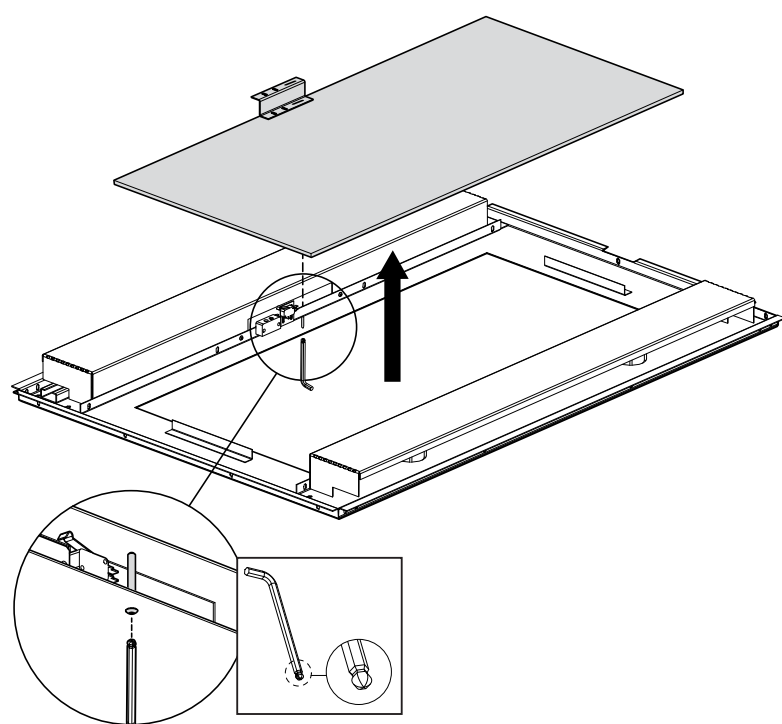


#### 6.4. CEILING - MOUNTING

- Position the CEILING.

##### INFORMATION

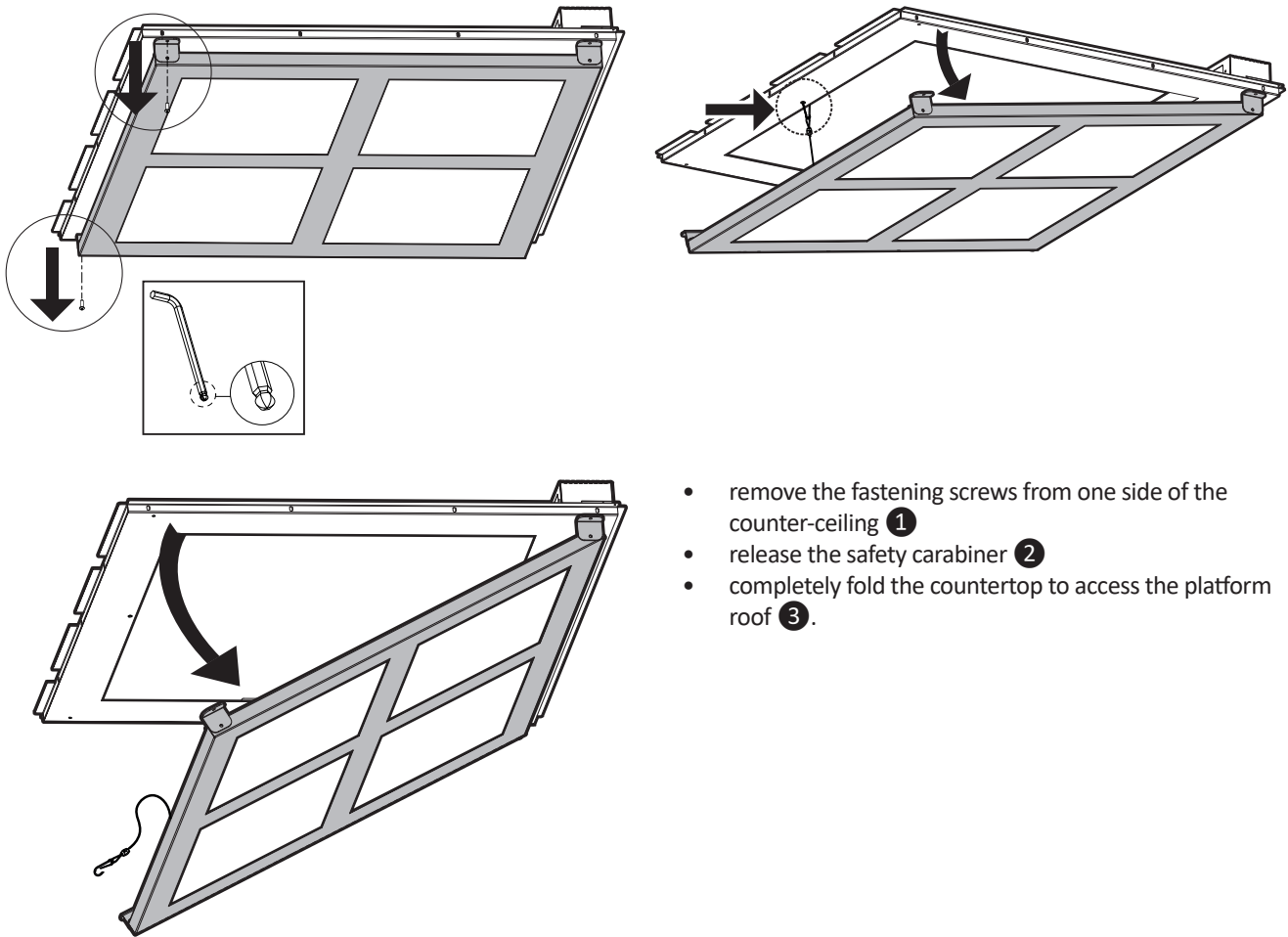
Remove the central panel from the ceiling before the installation.



#### 6.5. ACCESS TO THE SHAFT IN THE PRESENCE OF SUSPENDED CEILING

##### INFORMATION

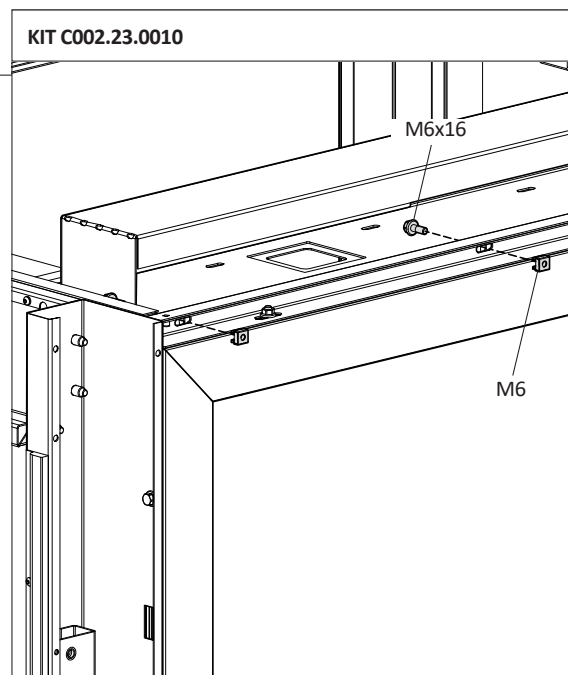
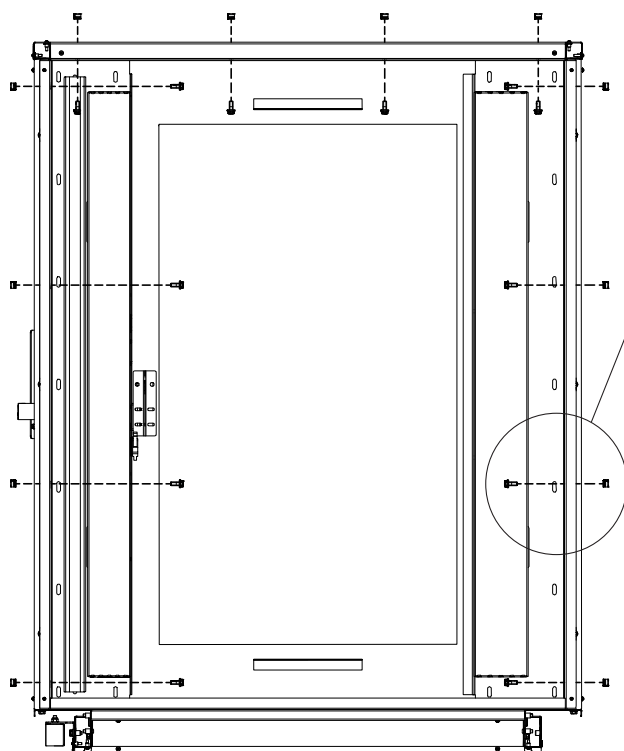
The counter ceiling is supplied pre-installed and pre-wired.



- remove the fastening screws from one side of the counter-ceiling ①
- release the safety carabiner ②
- completely fold the countertop to access the platform roof ③.



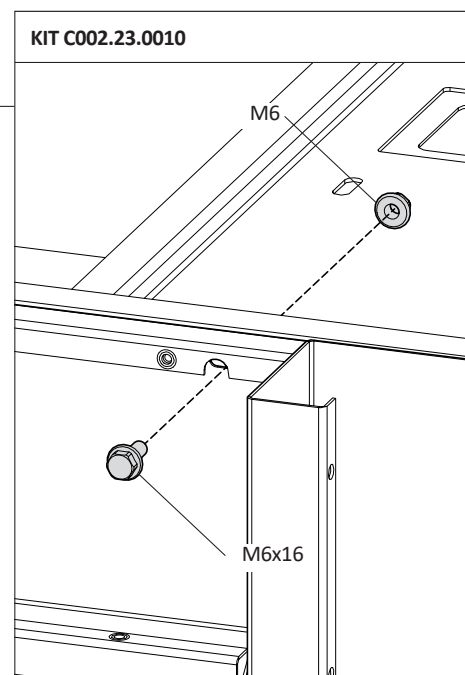
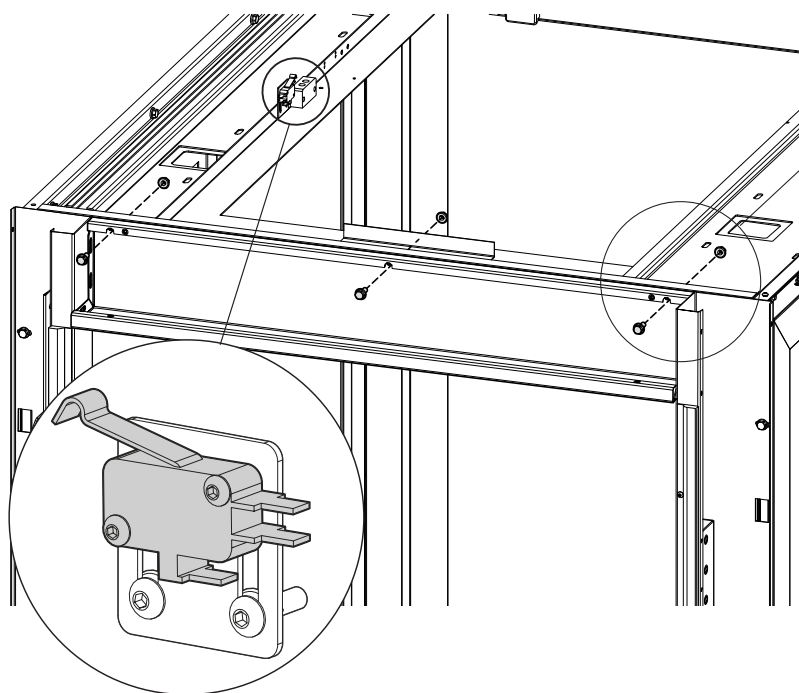
- Fix the ceiling onto the walls.



#### INFORMATION

It is possible to preassembly the cage nuts in the wall holes.

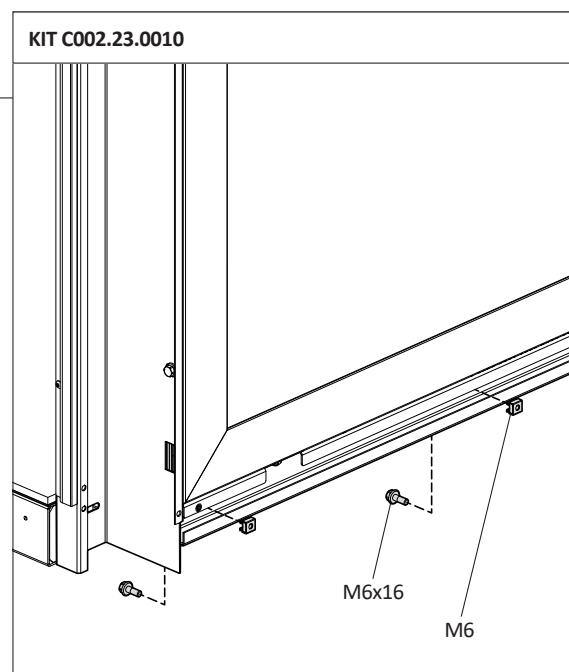
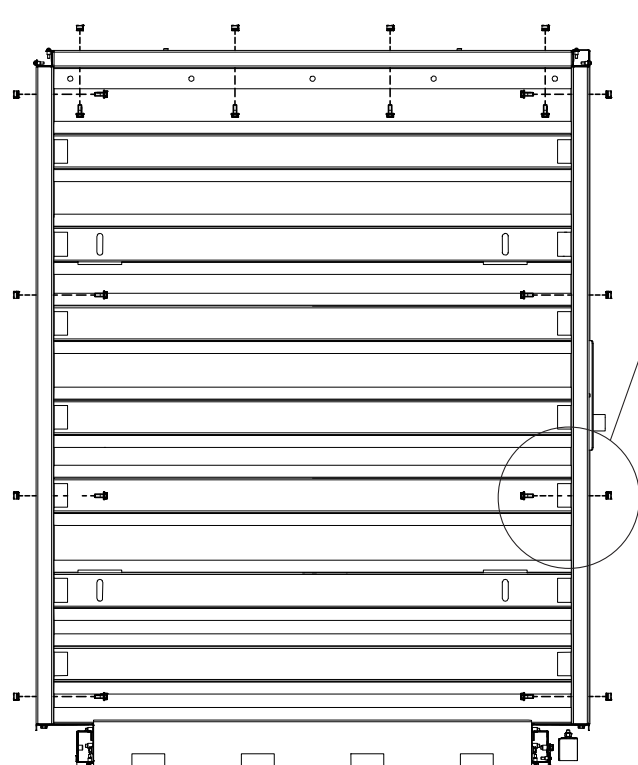
- Fix the ceiling to the front crossbeam.



#### NOTICE

When the “OVERHEAD PROTECTION DEVICE” is present, the safety microcontact must also be installed on the car roof (connected to the roof opening alarm siren).

- Fix the walls to the basement.



#### INFORMATION

It is possible to pre-assemble the cage nuts on the slots of the walls.

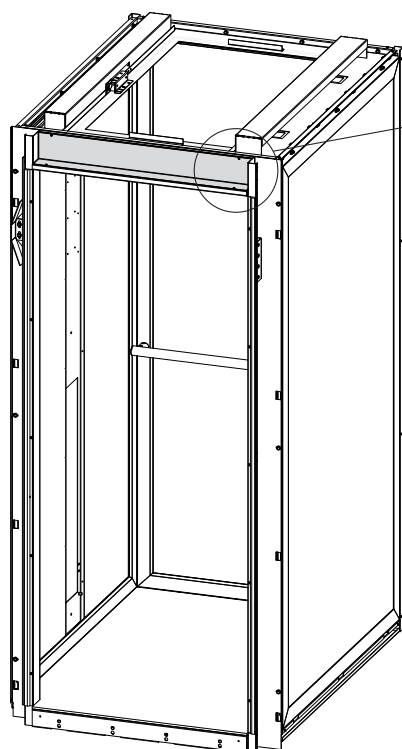
#### NOTICE

**Any split between the components is to be eliminated.**

Check the joints and tighten them, if necessary.



- Fix the cover to the crossbeam.

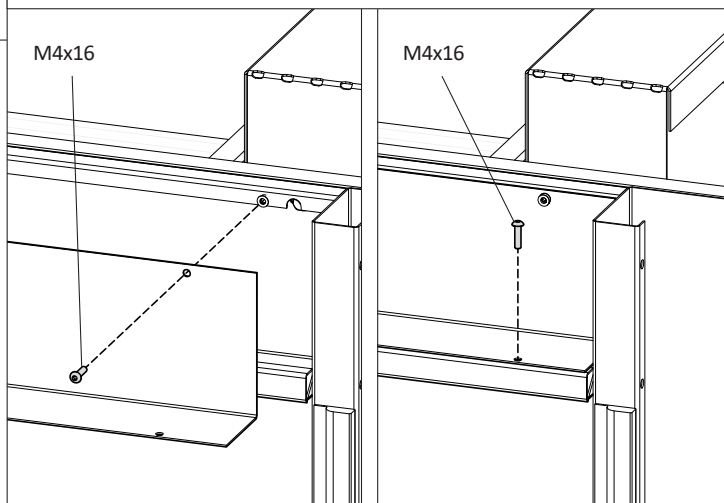


2 x

**KIT C002.23.0012**

M4x16

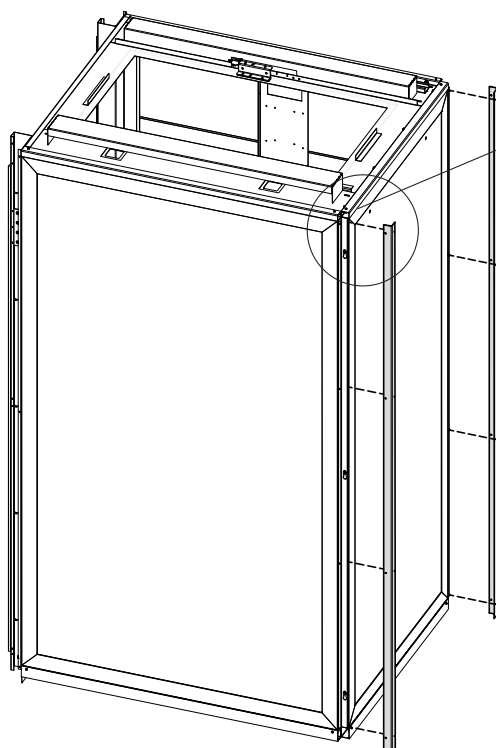
M4x16



The cover is not foreseen in case of automatic doors.

### FOR GLASS WALL FINISHED CAR

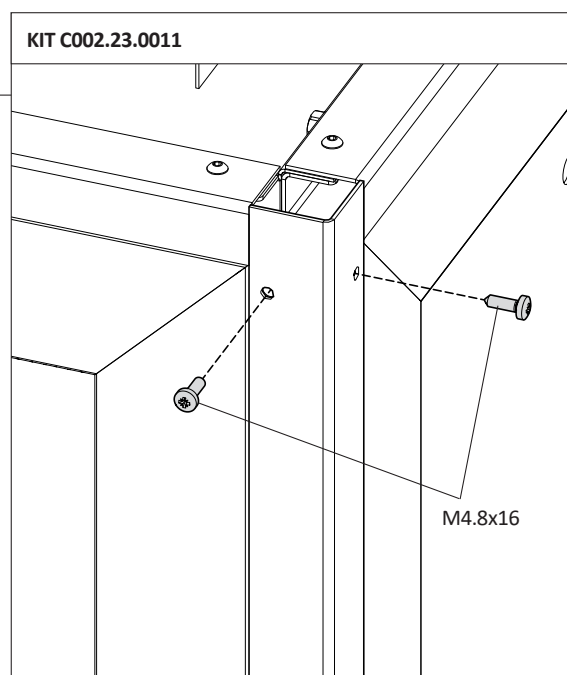
- Fix the cover to the angles.



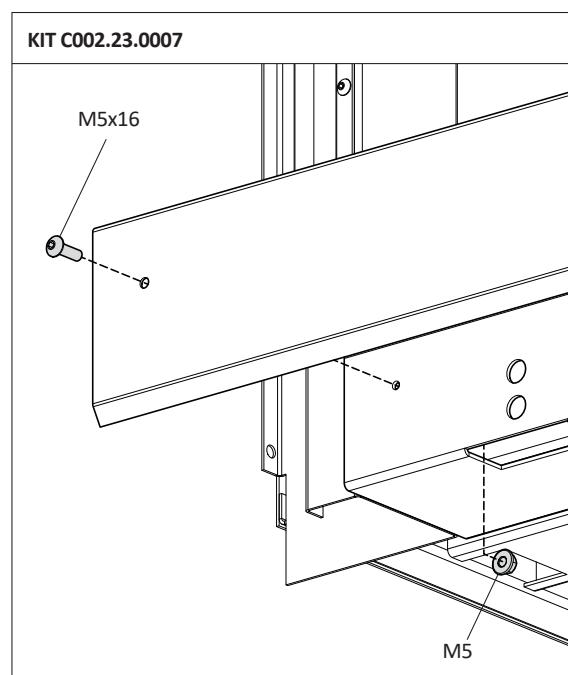
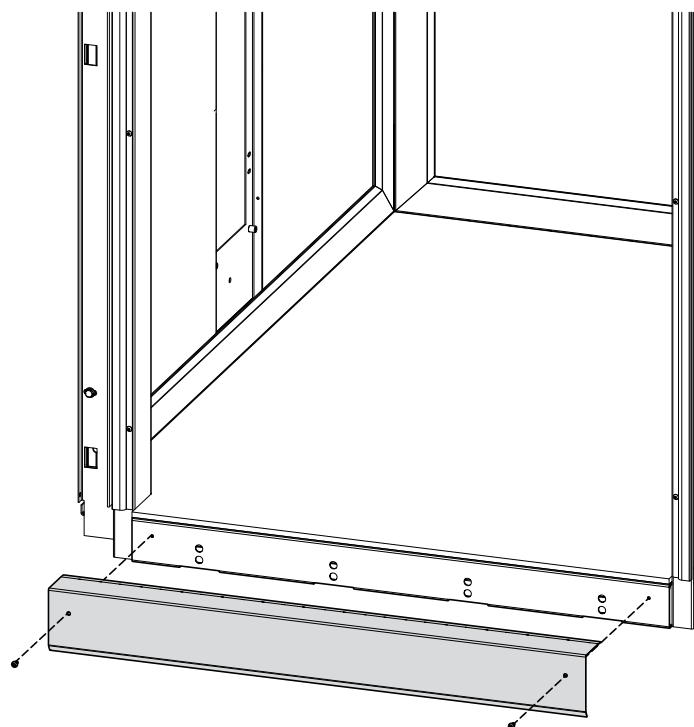
4 x

**KIT C002.23.0011**

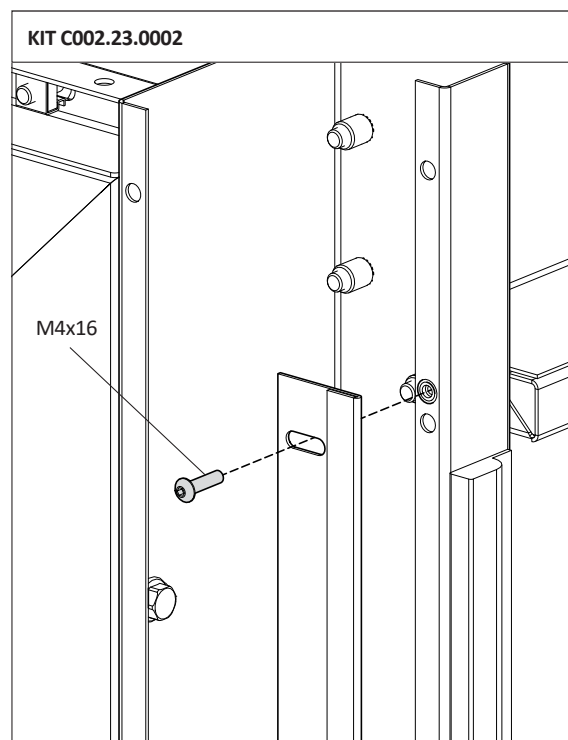
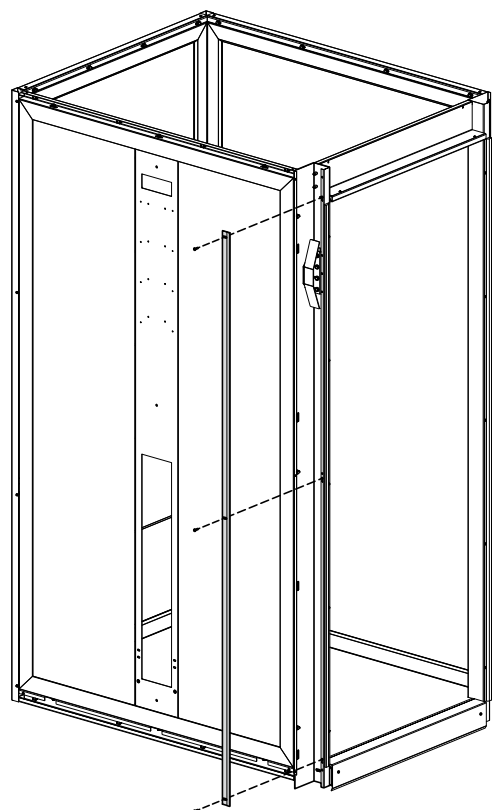
M4.8x16



- Fix the protection panel on the access sides.

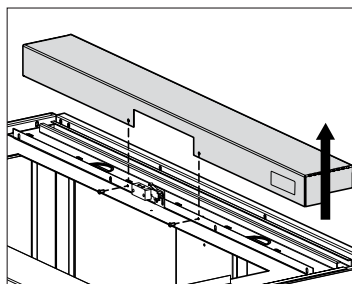


- Fix the vertical protection on the slide side.

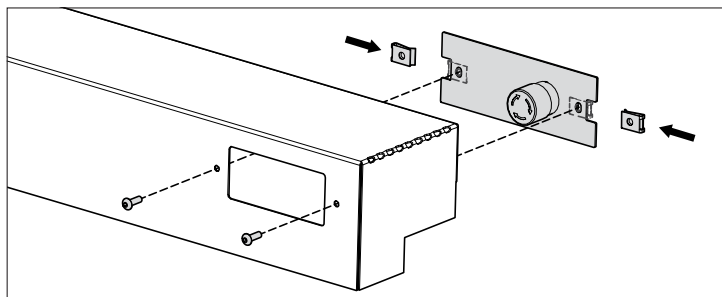




- Remove the protection panel from the lamps on the COP side (if foreseen);



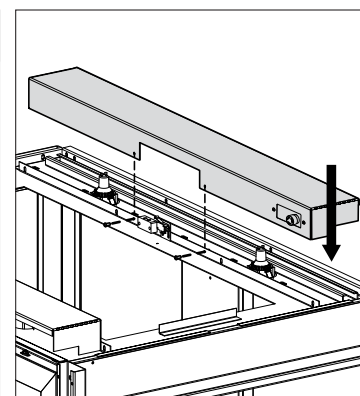
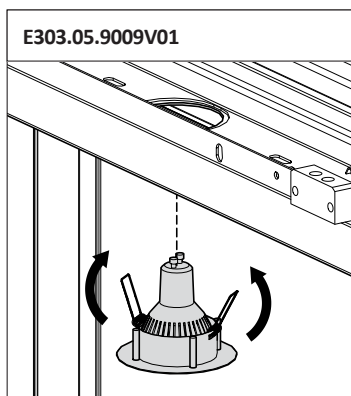
- Install the plate with the pre-installed components onto the panel;



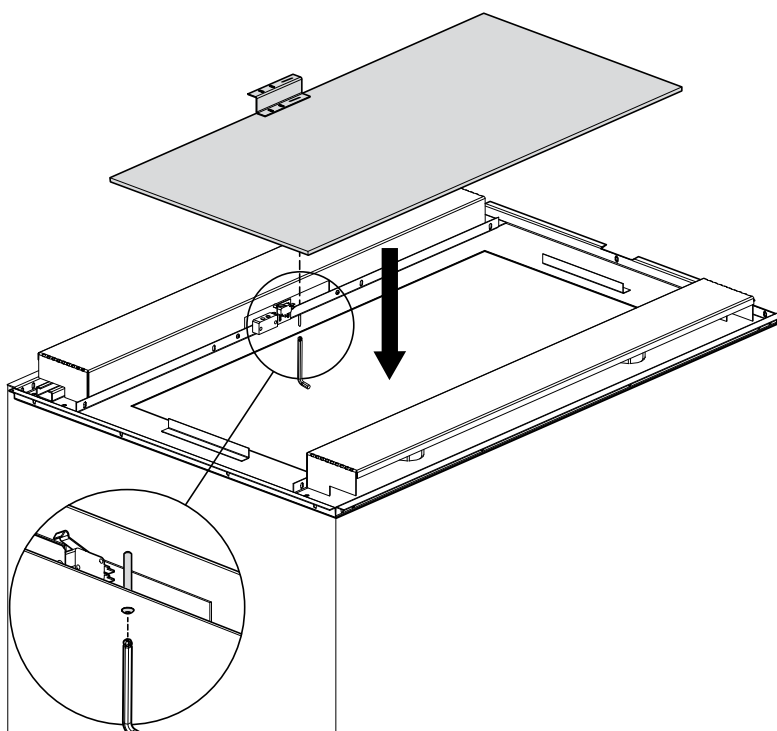
- Install the lamps from inside the car;
- Put the protection panel back in its housing.

### INFORMATION

Follow the electrical scheme.



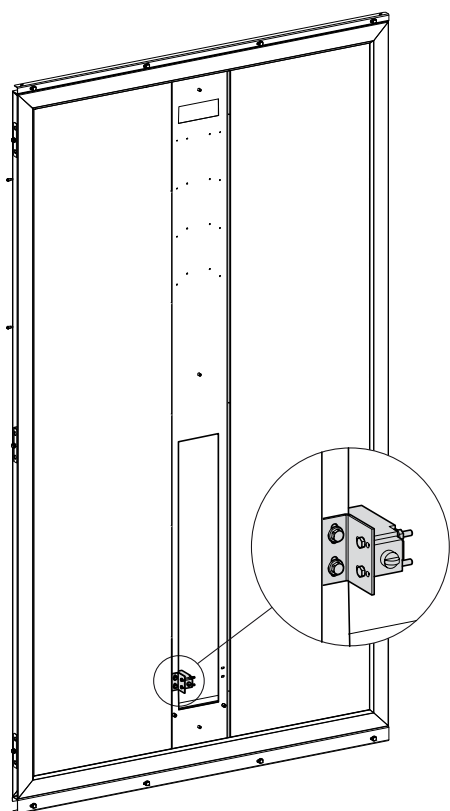
- Replace the central panel of the ceiling.



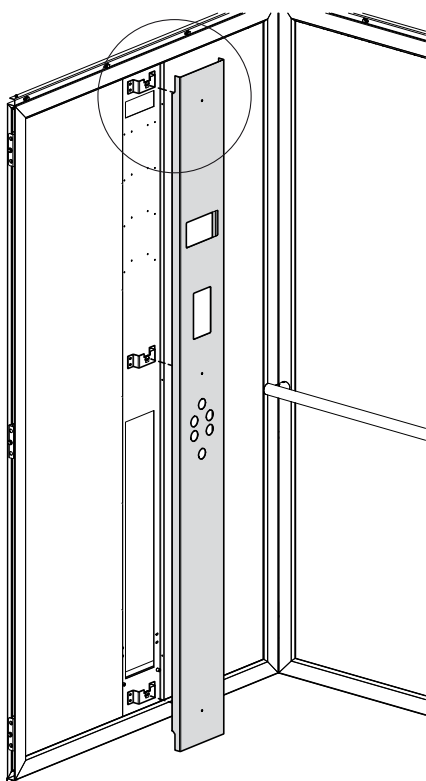
### INFORMATION

For safety contacts connection, consult the electrical scheme.

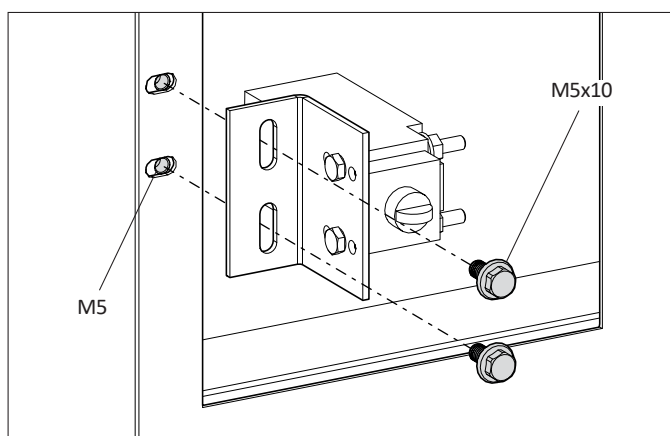
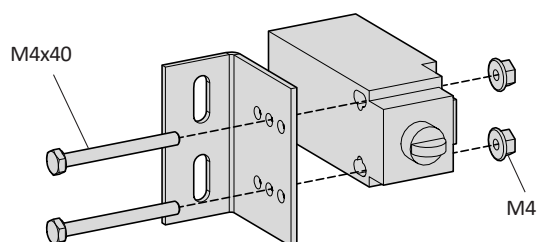
- Install the C.O.P. contact.



- Fix the C.O.P. in the car.



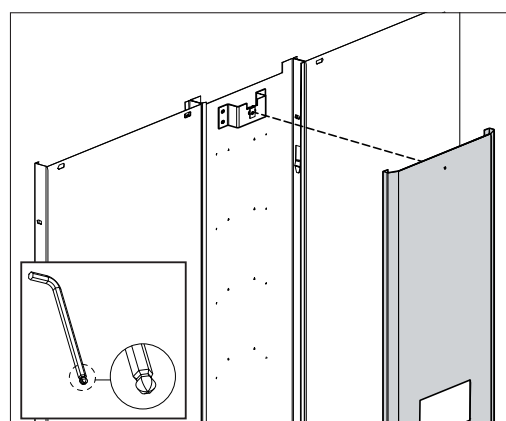
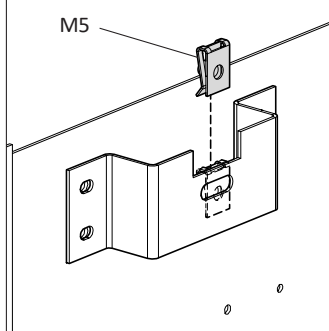
**KIT C002.23.0004**



### INFORMATION

For safety contacts connection, consult the electrical scheme.

**KIT C002.23.0014**



### INFORMATION

Pay attention when handling the C.O.P. to avoid damaging the ceiling.

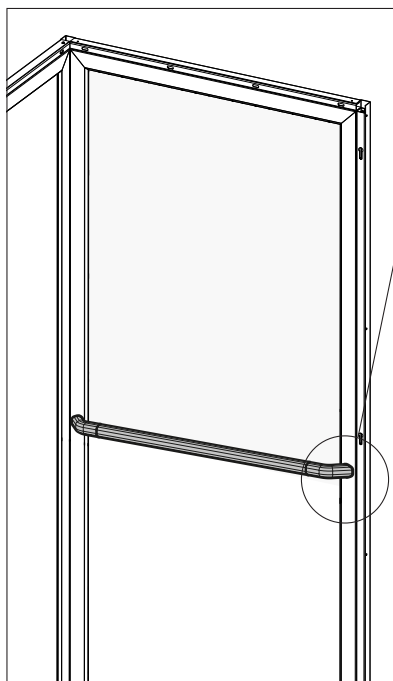
For electrical components connection, consult the electrical scheme.



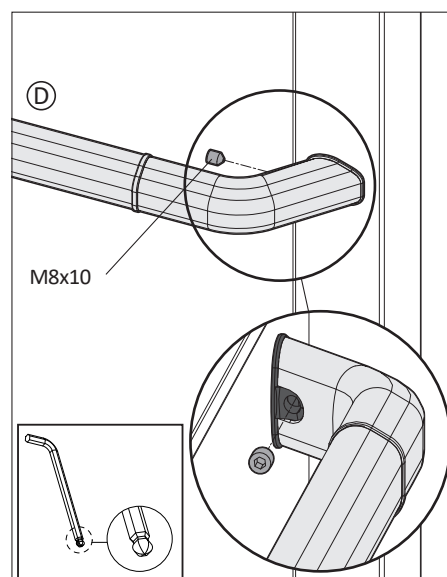
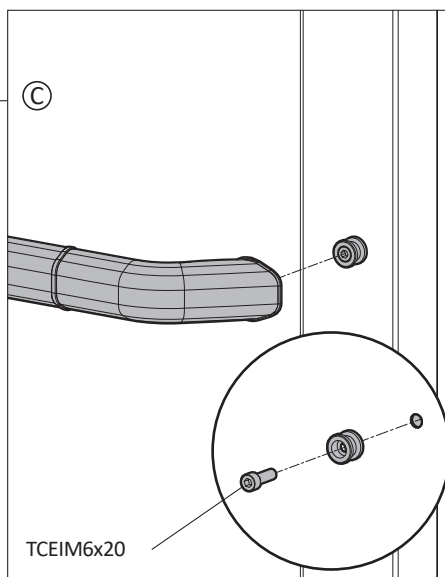


## 6.6. HANDRAIL - INSTALLATION

### ALUMINUM HANDRAIL - INSTALLATION



- Fix the inserts to the wall using the supplied screws (C).
- Insert the handrail and fix it using the grub screws provided inside the KIT (D).



#### KIT D003.23.0001



2X  
TCEI M6X20

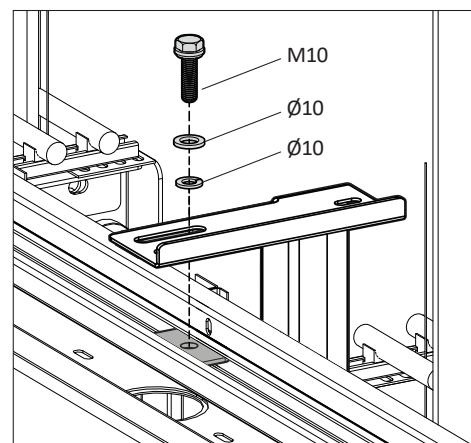
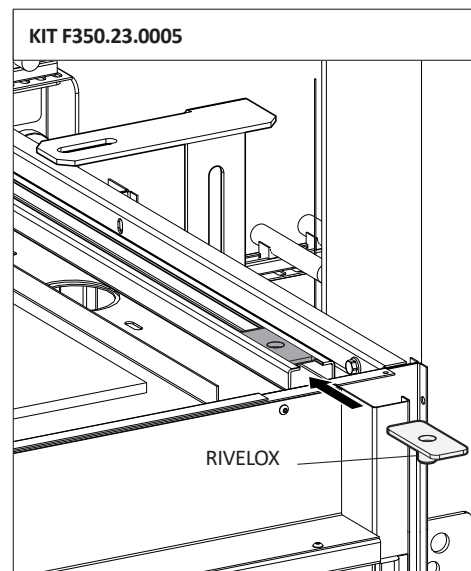
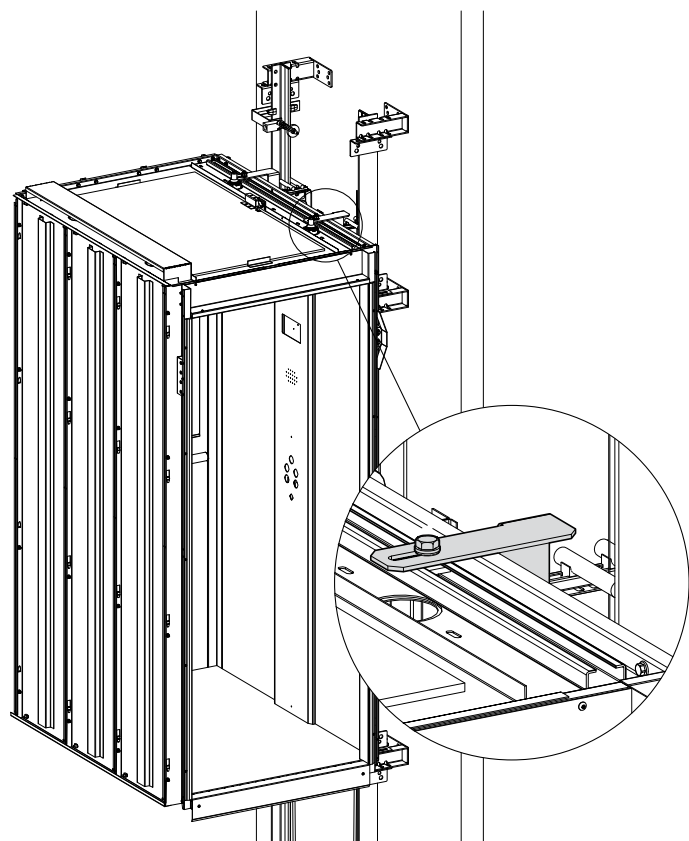


2 x



2X  
M8X10

- Adjust the car holding brackets (already fitted – see the manual) and fix them inside the slots on the car ceiling.





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Via Caduti del Lavoro, 16 - 43058 Bogolese, Sorbolo (PR) - Italy  
Phone +39 0521.695311 - Fax +39 0521.695313



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COMFORTABLE HOMELIFTS



## 7. CAR DOOR DRIVE SPECIAL FIXING



**FERMATOR - 40/10 DC 24 V - CAR DOOR DRIVE**

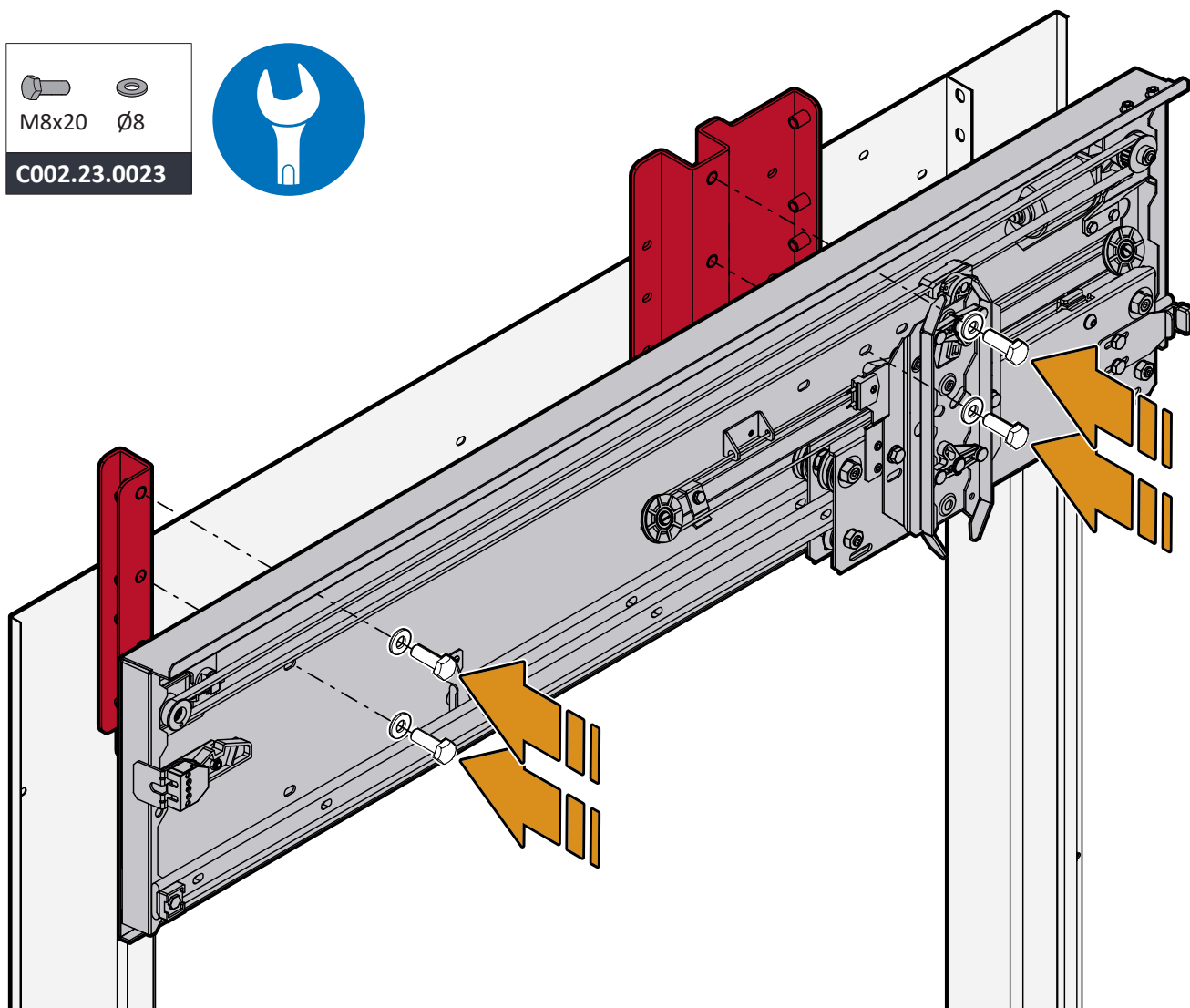


M8x20



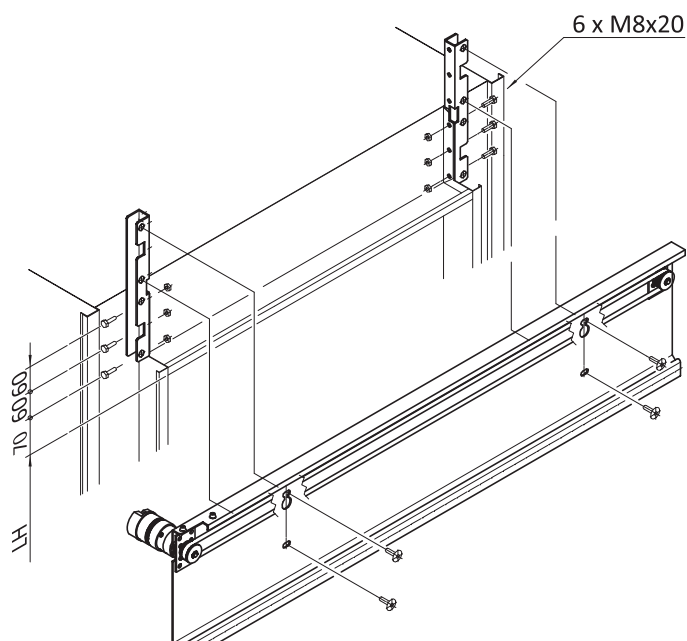
Ø8

**C002.23.0023**

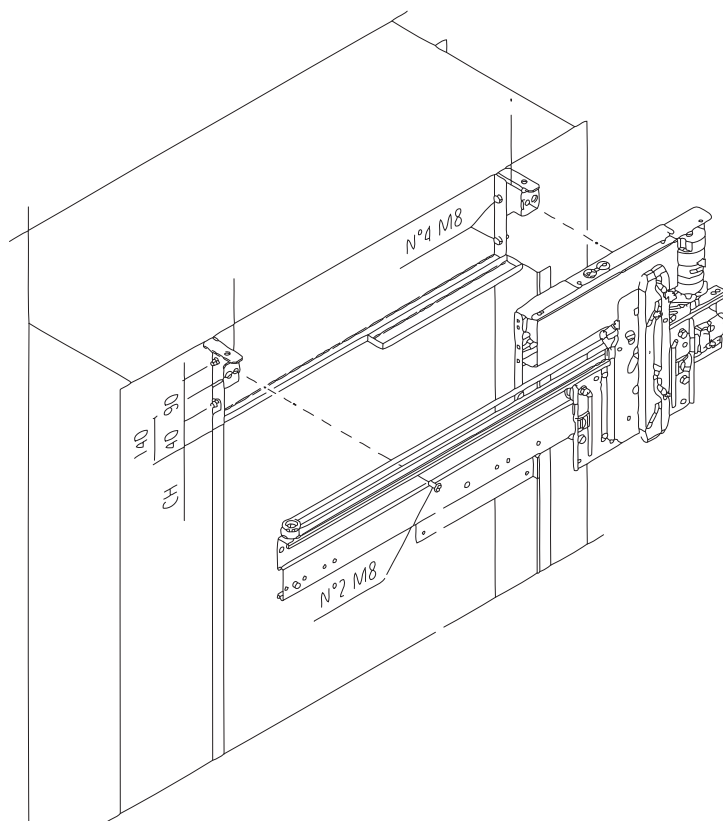




WITTUR HYDRA 3000 CAR DOOR DRIVE



WITTUR MDS1 CAR DOOR DRIVE





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**AREALIFT S.r.l.**

Via Caduti del Lavoro, 22  
43058 Bogolese di Sorbolo - Parma, Italy  
Tel. +39 0521 695311

[www.arealift.com](http://www.arealift.com)

[info@arealift.com](mailto:info@arealift.com)



**TECHNICAL SUPPORT**

Tel. +39 0521 695328

[support@liftingitalia.com](mailto:support@liftingitalia.com)