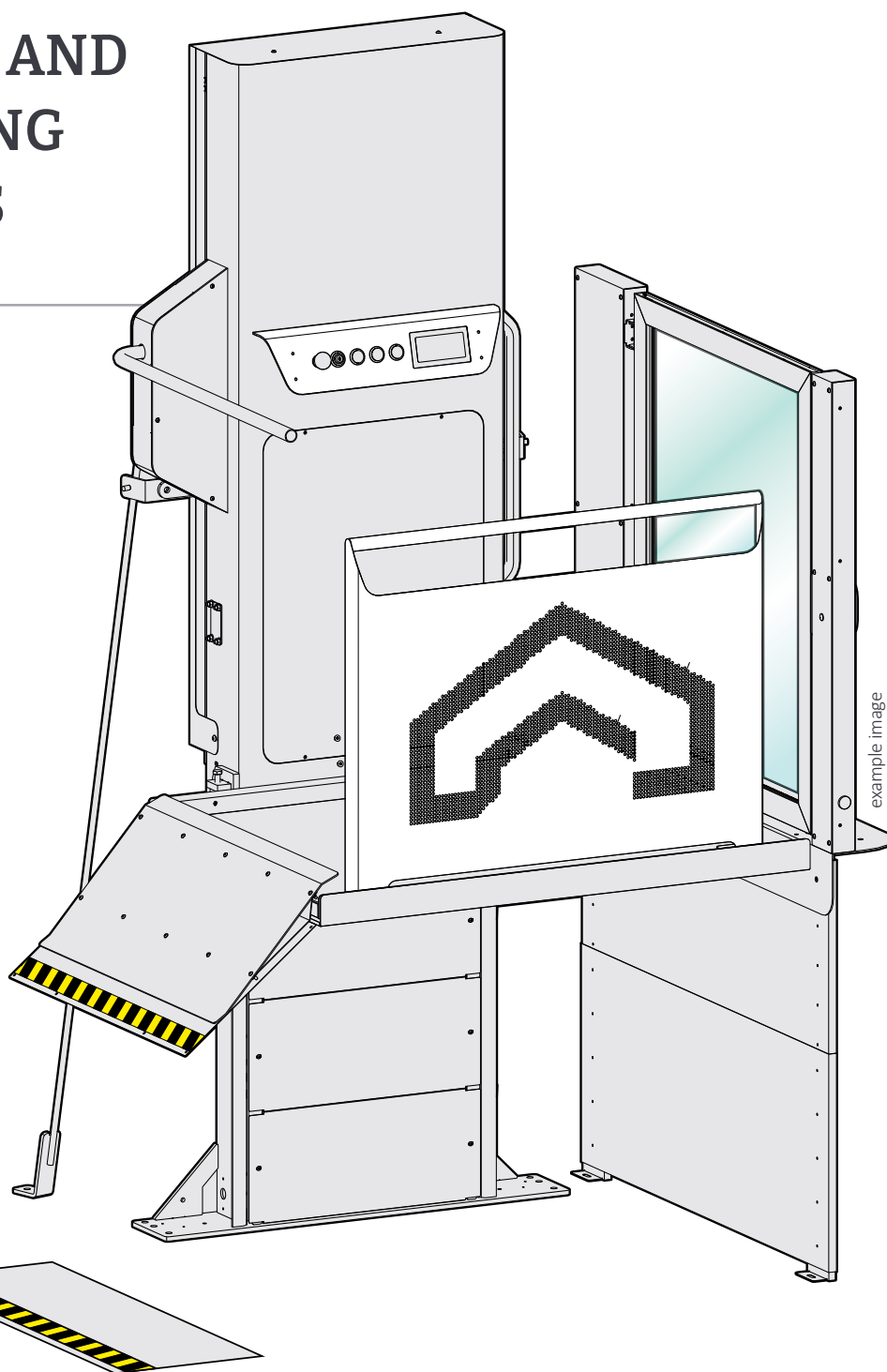


DomoStep[®] 130

*Electric screw driven platform lift for
small height differences*

INSTALLATION AND COMMISSIONING INSTRUCTIONS

(Rev.0)



AREALIFTING[®]

THE VERTICAL MOBILITY MANUFACTURER

WHITE PAGE

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WHITE PAGE

1. Manual reading guide

IMPORTANT!



EN: Translation of the original instructions

This product may only be commissioned if these instructions are available to you in an official EU language that you understand and you have understood the contents.
If this is not the case, please contact your Lifting Italia S.r.l. contact partner.

READ THIS MANUAL CAREFULLY

BEFORE INSTALLING AND USING THE PRODUCT

Retain the technical documentation near the lifting platform for the entire lifecycle of the product. In case of change of ownership, the technical documentation must be provided to the new user as an integral part of the product.

1.01. Preliminary information

NOTICE



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.



LEGAL NOTICE

AREALIFTING® is a commercial trademark owned by **LIFTING ITALIA S.R.L.**, VAT no. 02277680340, the sole legally responsible entity. All legal, fiscal, and administrative matters, including requests for assistance, spare parts, or complaints, must be addressed exclusively to **LIFTING ITALIA S.R.L.**



Technical specifications may be subject to change without notice due to product improvement development.

The drawings included in this manual are to be considered as indicative and are NOT an exact reference to the product concerned.


1.02. 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 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.

WARNING	
	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.

2. Safety and information Signs

2.01. DANGER Signs



GENERAL DANGER



ELECTRICITY DANGER



DANGER FLAMMABLE MATERIAL



DANGER OF FALL BY A LEVEL



DANGER SUSPENDED LOADS



DANGER OF CRUSHING

2.02. PROHIBITION Signs



GENERIC PROHIBITION



FORBIDDEN TO STEP ON



PROHIBITED TO WALK ON OR STOP IN THIS AREA

2.03. MANDATORY Signs



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

2.04. Information symbols and infographics



MARK



DRILL AND/OR SCREW



CUTTING AND/OR GRINDING



MEASURE



APPLY RIVETS



USE SUCTION CUPS



USE THE HAMMER



LEVELING



USE HOIST



INFORMATION

Symbol that identifies information that is useful to the installer but is not mandatory for the installation, nor does it pose a risk to the user.



IMPORTANT!


Symbol that identifies important information to be scrupulously observed.



ELECTRICAL CONNECTIONS

Symbol that identifies the connection of an electrical component.

3. Liability and warranty conditions

RESPONSIBILITY OF THE INSTALLER	
IMPORTANT!	
	<p>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.</p>
	<p>The persons authorized to carry out installation, maintenance, and rescue operations are those in possession of an elevator maintenance authorization certificate, issued according to the regulations in force in the country where the assembly is carried out.</p>

The elevator / platform (and each of its components) 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.

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.



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

3.01. Legal warranty and its free extension up to 60 months



The manufacturer warrants the lift under the condition that the instructions in the installation and current maintenance manual of the machine are strictly followed.

The lift has a legal warranty of 1 year and a free extension for a further 4 years according to the following conditions and exclusions:

- A. The period of legal warranty of the product is 12 months from the date of the 'Goods Ready' notice.

The warranty does not cover:

- ordinary maintenance and adjustment activities;
- normal wear and tear of items such as, but not limited to: shoe seals (arch, doors), hydraulic cylinder and valve unit seals, transmission belts, brakes, batteries, lamps, LED strips, rolling bearings, electric motors subject to belt pull, idler pulleys, push buttons (after 12 months from commissioning), oils and lubricants, dulling of paintwork, glass and mirrors arrived on site in undamaged packaging.

The warranty does not cover damage caused by:

- abnormal use, incorrect operation, improper service, alteration or removal of parts, use of the lift not in line with the recommended operation and work cycle, incorrect installation i.e. not in accordance with the installation manual; use of parts or accessories that are not original or authorised by AreaLifting; use of oils or lubricants other than those indicated by the manufacturer, installation in an environment or application not in line with the manufacturer's recommendations, incorrect maintenance or repair, failures due to insufficient power supply, fortuitous events or force majeure.

- B. The Warranty shall be effective if the defects are reported within 2 weeks of their actual discovery. The Seller reserves the right to repair or replace the defective part at their sole discretion. The Seller shall bear the transport costs of the defective part but reserves the right to charge for the same if it is found not to be defective or not subject to warranty. Excluded from Warranty and/or reimbursement are customs duties and any additional charges resulting from the uninstallation and subsequent restoration of the defective part on the lift.

- C. The Warranty on the machine will be extended free of charge, for a period of a further 48 months beyond the legal warranty period, when:
- the product is installed by a customer who is registered on the Seller's 'Warranty' portal;
 - the purchaser has carried out training provided by the Seller, or undertakes to do so within a period of 12 months from the purchase order;
 - the Sentinel module is continuously connected - wireless or GSM - once the lift has been put into service, if it is equipped as standard. If, on the other hand, it is not equipped, the Buyer must manually register it on the Warranty Portal. Should the Seller be requested to activate the GSM SIM card, the Seller shall only activate it upon payment of the relevant five-year fee.
 - the lift is regularly maintained according to the instructions in the Maintenance Manual.

4. General requirements and installation site management

4.01. General requirements

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.

WARNING



SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:

4. Always secure tools and any objects against falling;
 5. Pay the utmost attention to all the steps described in this;
 6. 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 any rubble and 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 etc.), 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.)..

CAUTION


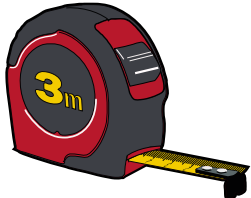

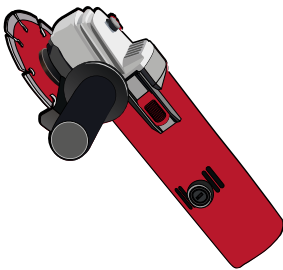


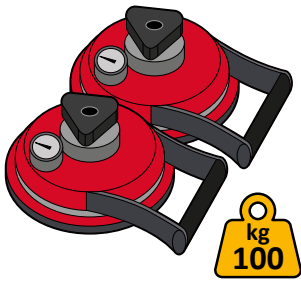
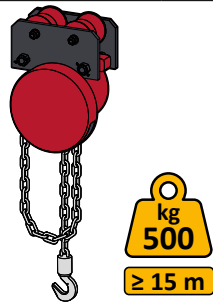
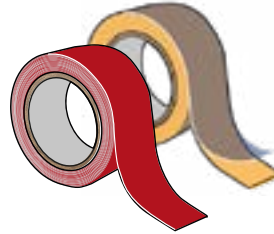
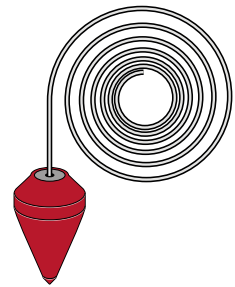
The assembly must be performed by a
MINIMUM 2 people

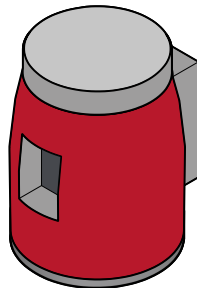
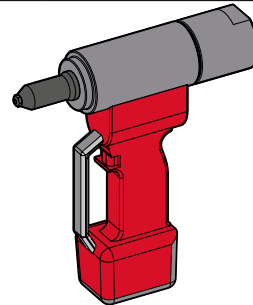


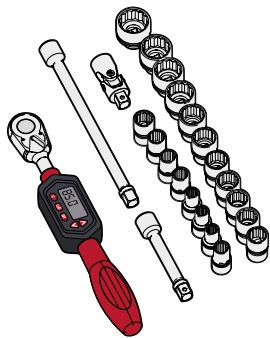
Use a suitable lifting equipment for handling
the components if the load is greater than
50kg

5. Tools required for installation

BALL POINT LONG HEX KEY WRENCH 	ELECTRICIAN SCREWDRIVER SET 	HAMMER + RUBBER HAMMER 	TAPE MEASURE 
SPIRIT LEVEL 	SCISSORS FOR ELETTRICIANS 	SPANNER + SOCKET WRENCH 	RACKETING RING SPANNER SET 
PLIERS WRENCH 	PORTABLE LAMP 	SAFETY LADDER 5 STEPS 	LIFTING BELTS 
DRILL + ELECTRIC SCREWDRIVER 	DRILL BITS 	CORNER GRINDER 	CUT-OFF AND GRINDING WHEELS 

**VACUUM LIFTER WITH
MANOMETER**

MANUAL HOIST

**INSULATING TAPE +
DOUBLE-SIDED ADHESIVE**

PLUMB BOB

DIGITAL MULTIMETER

LASER LEVEL

CORDLESS RIVETER GUN

HSS STEP DRILL BIT

**TORQUE WRENCH SET
WITH EXAGONAL INSERT**

HOLESAW FOR METAL


20÷40 mm

6. Box content - screws kit



Each box with its identification code represents how many pieces per item are contained in each package (KIT).

KIT F320.23.0001 4 x M12x90	KIT F330.23.0001 2 x M12x125	KIT F320.23.0010 2 x 2 x 4 x M10x30 4 x Ø10 4 x Ø14 4 x M10 4 x M14 2 x 4 x M10x90
KIT F320.23.0003 4 x M4x12 4 x M4	KIT F320.23.0007 7 x M4x30 4 x M6x16	
KIT F320.23.0004 7 x M4x30 7 x Ø6-Ø18	KIT D004.23.0001 8 x M6x25 8 x M6 7 x M8x90 4 x Ø6	KIT F320.23.0008 4 x M10x100 8 x M8x20 12 x 4.8x13 4 x M6x20 4 x Ø6 4 x Ø6 8 x M4x30
KIT F320.23.0013 7 x M6x30 7 x M6 14 x Ø6 14 x Ø6		KIT F330.23.0001 2 x M12x125
KIT F320.23.0005 8 x M8x30 8 x Ø8 8 x Ø8 8 x M8		

NOTICE




FOLLOW THE TIGHTENING TORQUES INDICATED FOR THREADED COUPLINGS.

In order to avoid the risk of bolt or component loosening or stress, with a deformation and breakage risk, please follow the screw tightening torques indicated in the table.


TIGHTENING TORQUE GUIDE		
SCREW	COUPLE MAX (Nm)	COUPLE MIN (Nm)
M3	1.2	1.0
M4	2.6	2.1
M5	5.1	4.1
M6	9.0	7.0
M8	21.0	17.0
M10	42.0	34.0
M12	71.0	57.0
M16	175.0	145.0

7. Preliminary Checks

7.01. Preliminary Security Checks

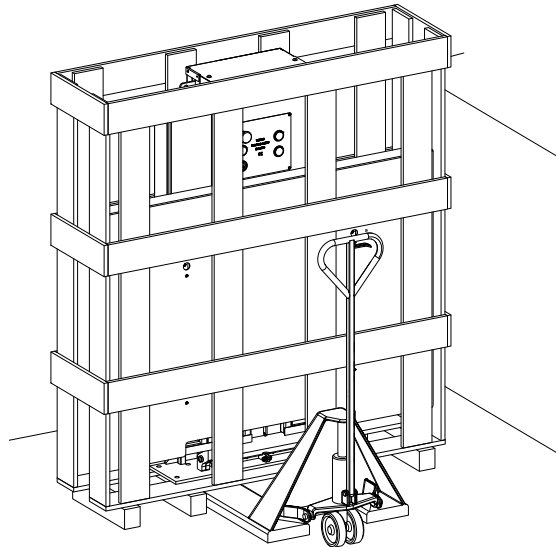
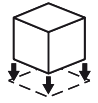
NOTES	
	BEFORE STARTING THE INSTALLATION : <ul style="list-style-type: none"> Verify that the mains electrical installation is compliant with standards and has been properly grounded;
	IF NOT, DISCONTINUE INSTALLATION UNTIL THE CUSTOMER'S INSTALLATION IS COMPLETED. <ul style="list-style-type: none"> Ensure the presence of an efficient lighting system at the installation site; Check that the Shaft and Pit are clean and that no liquids (water, Oil, ...) are present at the bottom; Ensure that entrances to work areas are properly closed; Check that all holes and housings for electrical cables are free, inspectable, well finished and dry; Check that there is adequate ventilation for the smoke exhaust;

7.02. Preliminary Checks of the Installation Site

IMPORTANT!	
	BEFORE COMMENCING INSTALLATION, CHECK THE MEASUREMENTS AND COMPARE THEM WITH THOSE ON THE PROJECT DRAWING:
	General Lift shaft Checks. <ul style="list-style-type: none"> The Lift shaft structure must comply with national building regulations and must be able to withstand the forces produced by the Platform lift during its use. Maximum loads acting on the Shaft are indicated on the design drawing.
	The Lift shaft must have the following characteristics: <ul style="list-style-type: none"> Plastered walls smooth and continuous up to the Pit; Temperature range -5°C to +40°C; Area in front of the accesses cleared and accessible according to the project drawing; Presence of passages and conduits for electrical and hydraulic lines;
	Check the following vertical measurements of the Shaft: <ul style="list-style-type: none"> Running Headroom Pit (in case of bellows) Gate opening (if present on the upper floor) Plumbing Ensure that the measurements correspond to the same measurements as those on the project drawing of the Shaft section.
	Check the following top view measurements of the Shaft: <ul style="list-style-type: none"> Width Depth Quadratura Gate position (if present on the upper floor) correspond to the same measurements as on the project drawing of the top view of the Shaft.

8. Preliminary Operations

8.01. Positioning of material on site



NOTICE



MATERIAL PLACEMENT:

it is important to position the material correctly at the installation site in order to facilitate the Handling of components and to minimise the risk of injury and damage to materials.

All material must be placed near the lowemost floor. Handling of material up to the point of installation is recommended using a pallet truck or Stairlift.

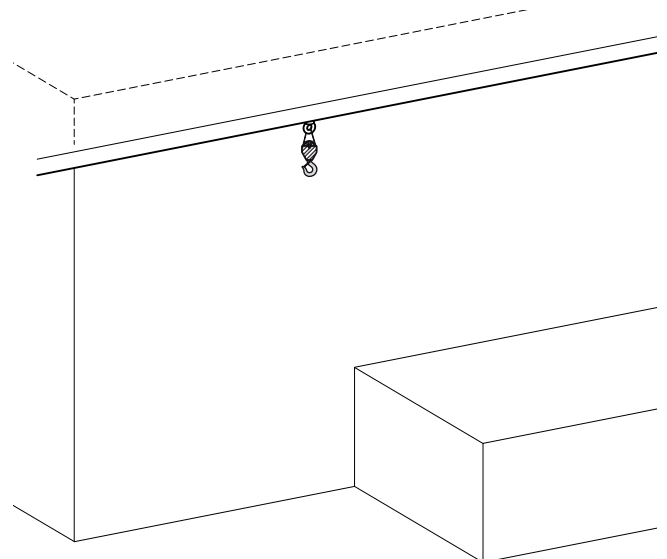
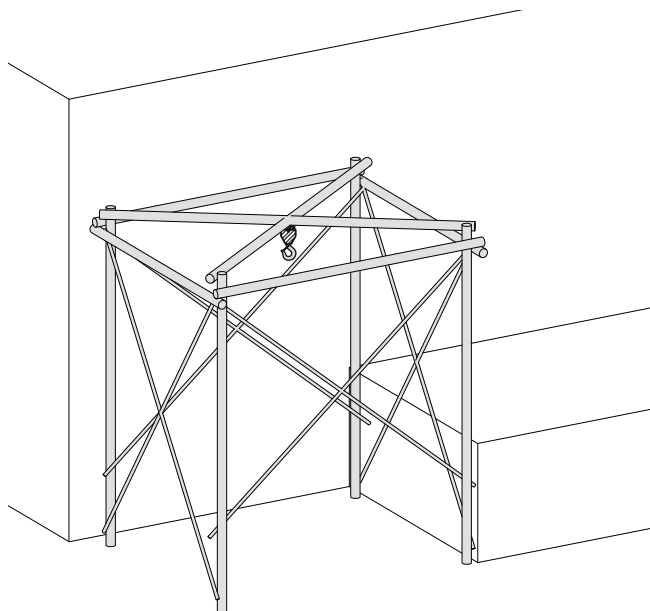


LIFTING PACKAGES:

Lift crates and parcels only from below so as not to damage the product.

8.02. Preparation of the installation site

In order to position the Platform at the place of operation, a special lifting hook with a load capacity of 400 k, attached to an anchor stud fastened to the ceiling or to a trestle frame (temporary scaffold) with mechanical strength suitable for lifting the load, must be provided on the vertical of the Shaft.



8.03. Preparing the electrical system upstream of the Platform



ELECTRICAL CONNECTIONS.

The DomoStep Platform is powered through a connection of the platform's Electrical panel to a common 230Vac, 50Hz, 10A civil socket.

IT IS ADVISABLE TO SET UP A DEDICATED POWER LINE FOR THIS SOCKET, PROTECTED BY A 6 - 10 A CIRCUIT BREAKER.

8.04. Obligations of the installer

IMPORTANT!

BEFORE STARTING THE INSTALLATION:



- Provide a material storage area close to the work area, easily accessible and protected from the weather;
- Prepare any Lifting devices to be used;
- Check the presence of all materials, using the bill of materials;
- Check the condition of all materials upon receipt at the site and contact the supplier immediately if any damage or deficiencies are found;
- Check materials intended for long-term storage periodically before installation to avoid possible deterioration caused by incorrect storage;
- Check the completeness of the attached documentation.

8.05. Checks on masonry for Platform with Bellows

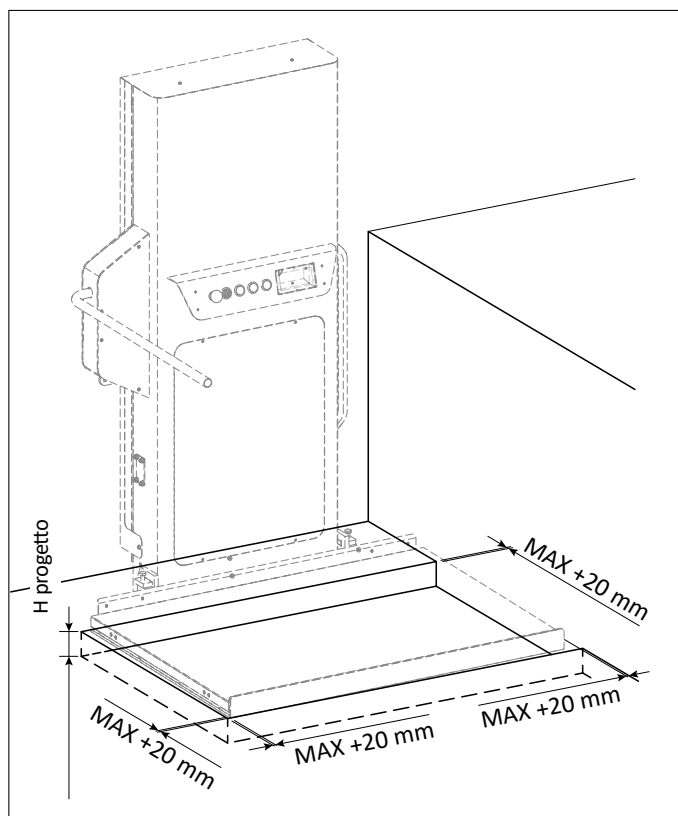
All the masonry Checks listed above (Section 5.2) are required:

Checks of VERTICAL AND TOP VIEW measurements of the Pit.

Check that the Pit has a depth = 110 mm.

Surface Checks:

The surface must have a tolerance of MAX + 20 mm in relation to the platform area, on all sides.



9. Platform and component recognition

The domoSTEP Platform lift is a platform for lifting persons or persons and goods, reserved for installations with a maximum stroke of:

- 1 m, for domoSTEP 100 installations;
- 1.60 m, for domoSTEP 160 systems.

Handling of the **(A)** platform is done by means of a worm screw **(B)** positioned on axis with the metal guides integrated in the fixed part.

The Platform is driven by an electric drive assembly **(C)** and controlled by the Electrical panel **(D)**, both housed inside the fixed part.

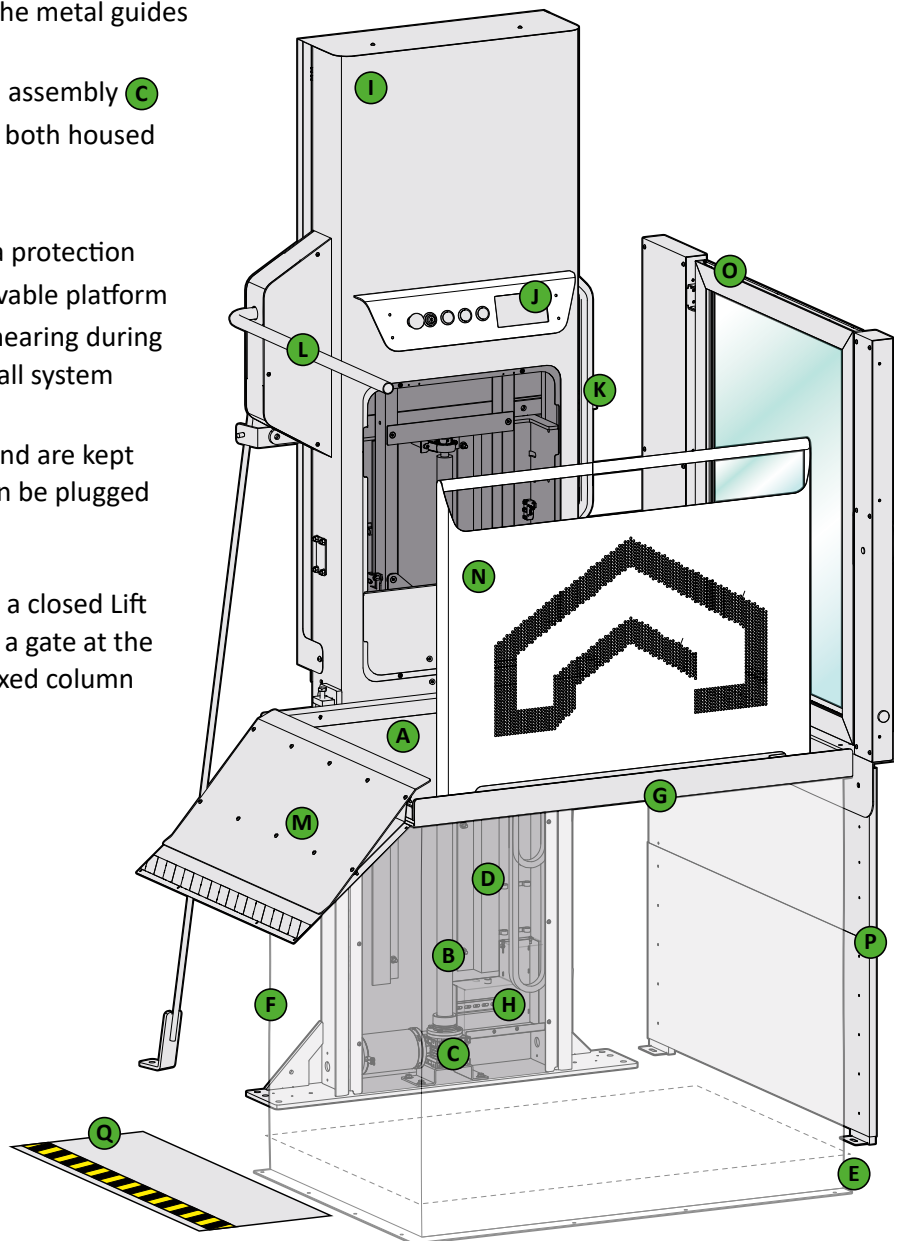
In the case of installations with a Pit **(E)**, a protection bellows **(F)** is required in place of the movable platform bottom **(G)**, to prevent crushing and/or shearing during travel. The Electrical panel also manages all system controls and manoeuvres.

Batteries **(H)**, power the Electrical panel and are kept charged by the power supply unit that can be plugged into any ten-amp civil socket.

The domoSTEP Platform does not require a closed Lift shaft. In the case of strokes over 500mm, a gate at the upper Landing floor is required and the fixed column must be fixed to a wall.

Other parts of the Platform:

- (I)** Camera body
- (J)** Push-button panel
- (K)** Fixed handle
- (L)** Automatic fall prevention bar
- (M)** Gravity fall chute
- (N)** Parapet/balustrade
- (O)** Floor gate
- (P)** Anti-skid leaves
- (Q)** Floor slide



The DomoStep Platform
complies with the Machine Directive 2006/42/
EC.

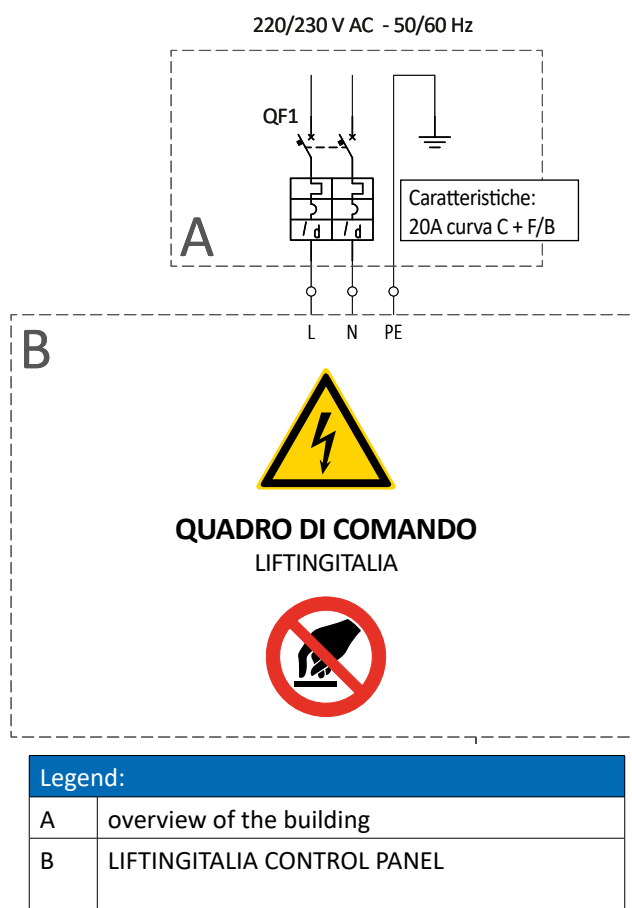
10. Electrical installation - preliminary checks

10.01. Platform upstream electrical system - preparation

- The client shall guarantee for the Power Supply Board the protections appropriate to the power distribution system and the relevant short-circuit current, in accordance with CEI 64-8 et seq. (thermal-magnetic circuit breaker of suitable size and 30mA differential locking device).
- The main switch for disconnecting the motive power, also supplied by LiftingItalia, is installed inside the Platform's control panel.



After installation of the Power Supply Board, record the control as indicated in the manual: **"IM.TEC.149 - DOMOSTEP 130 - FINAL CONTROLS"**.



NOTES



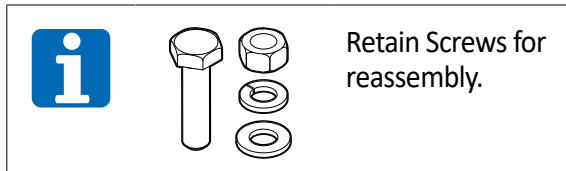
RISK OF ELECTROCUTION:

The lighting and power supply systems must correspond to the requirements of the installation and the laws and standards in force. Verify their effective grounding. In the event that they do not meet all requirements, interrupt the installation until the system has been made compliant by the customer.

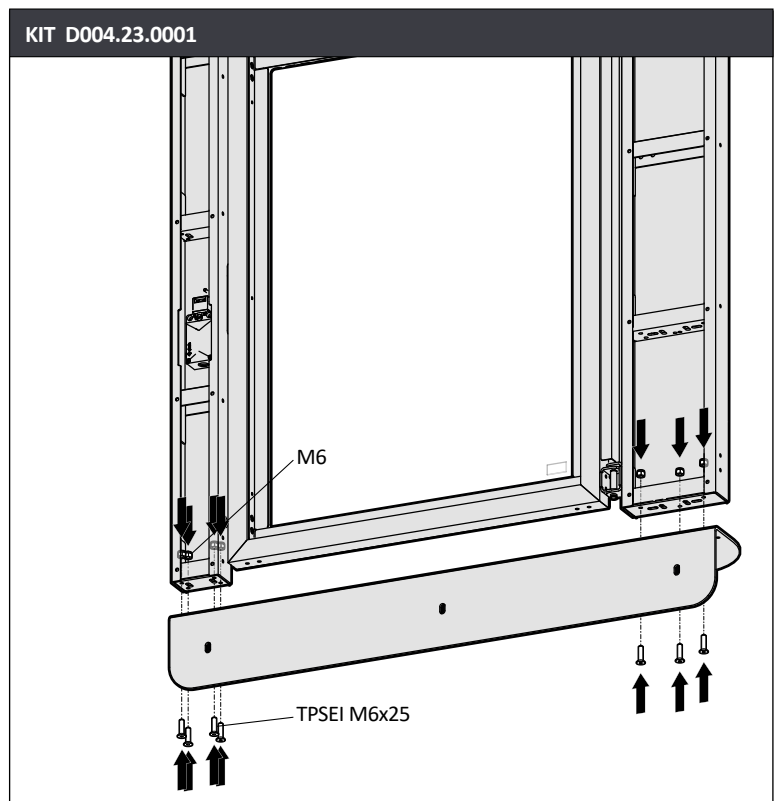
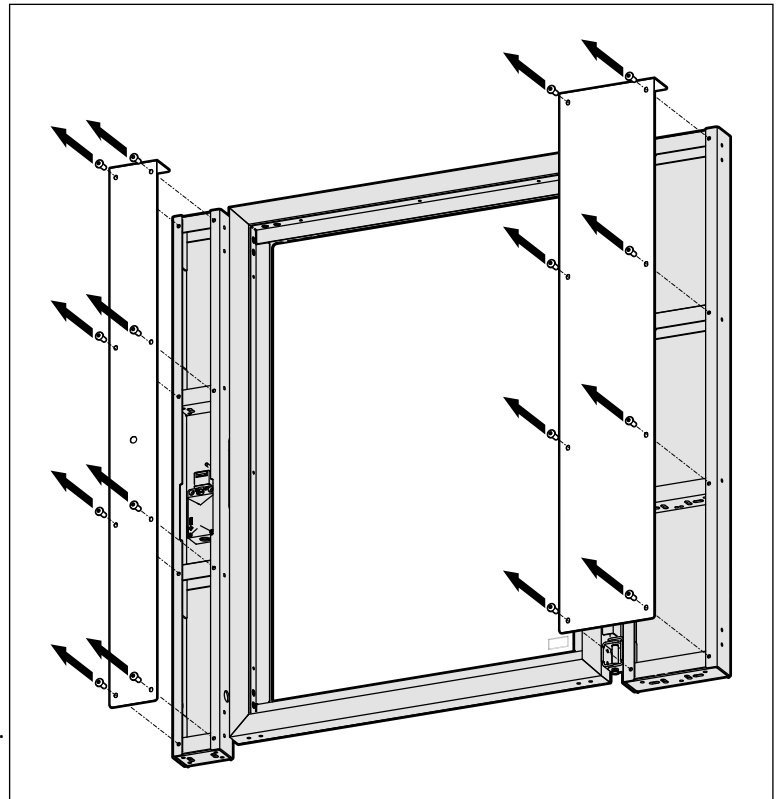
11. Installation

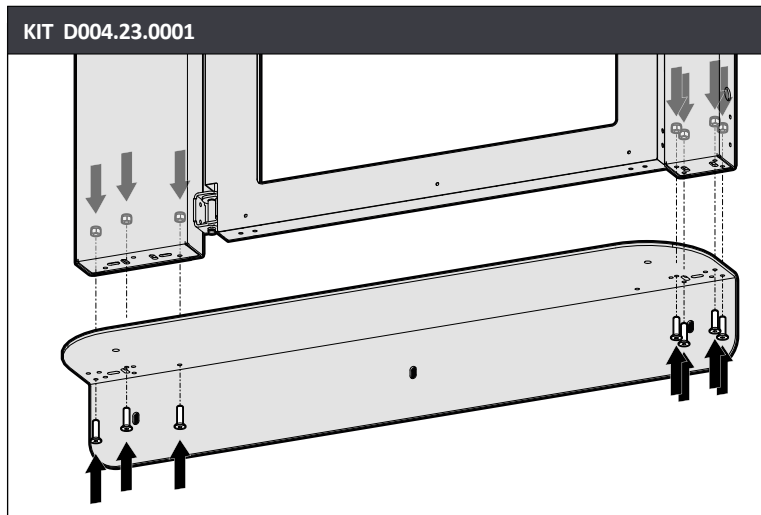
11.01. Pre-assembly of floor gates

- Removing the casings from the Gate pillars



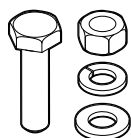
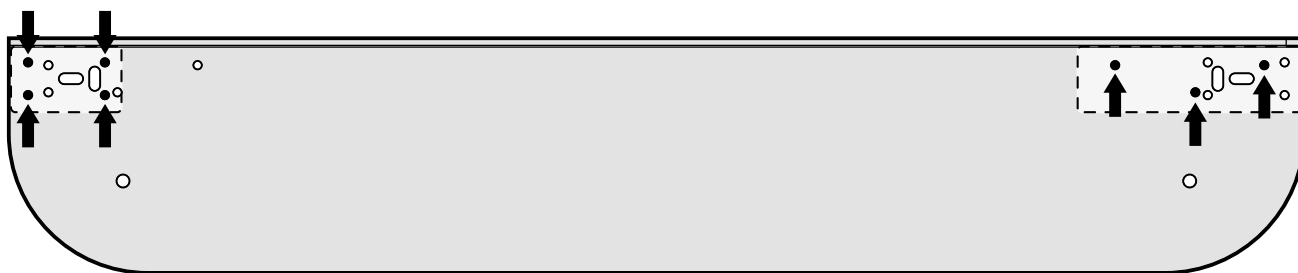
- Fasten the pillars using the screws supplied in the kit.



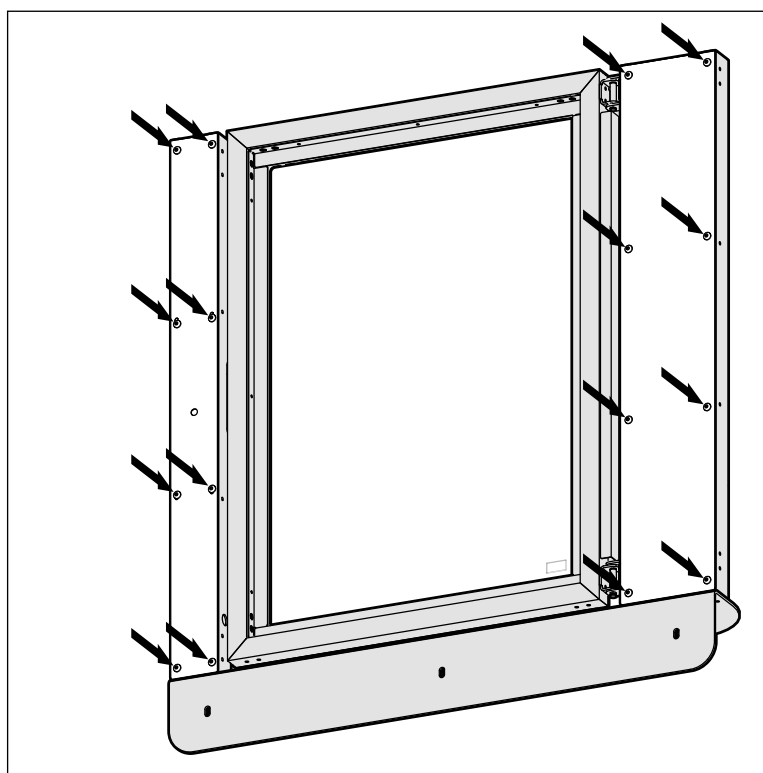


INFORMATION

Screw positions for Fastening the Gate posts (KIT D004.23.0001).

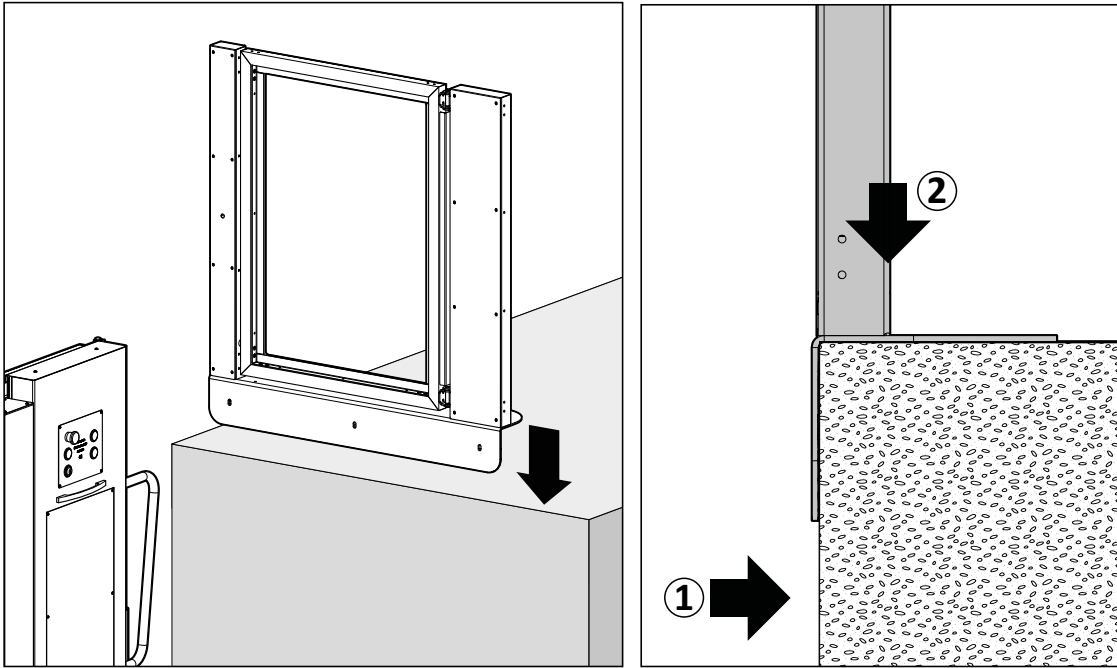


Fasten the covers with the Screws previously stored.

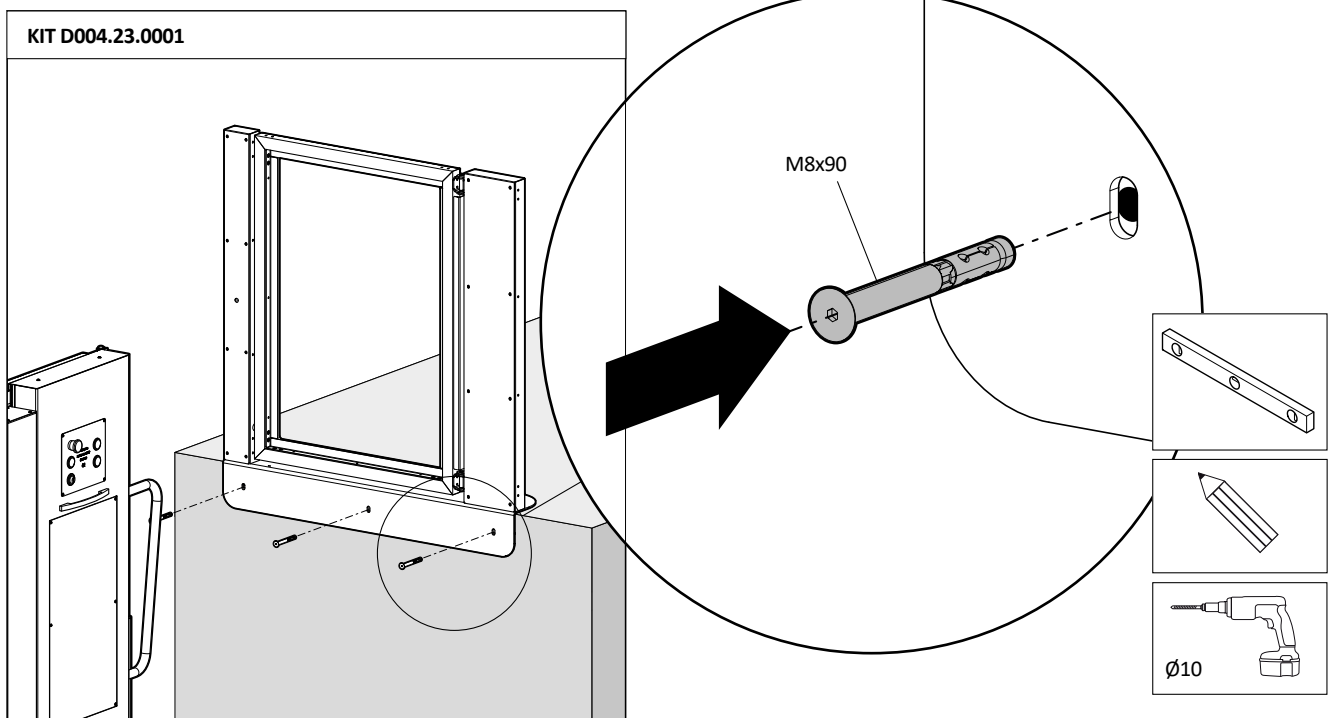


11.02. Installation of floor gates (if provided)

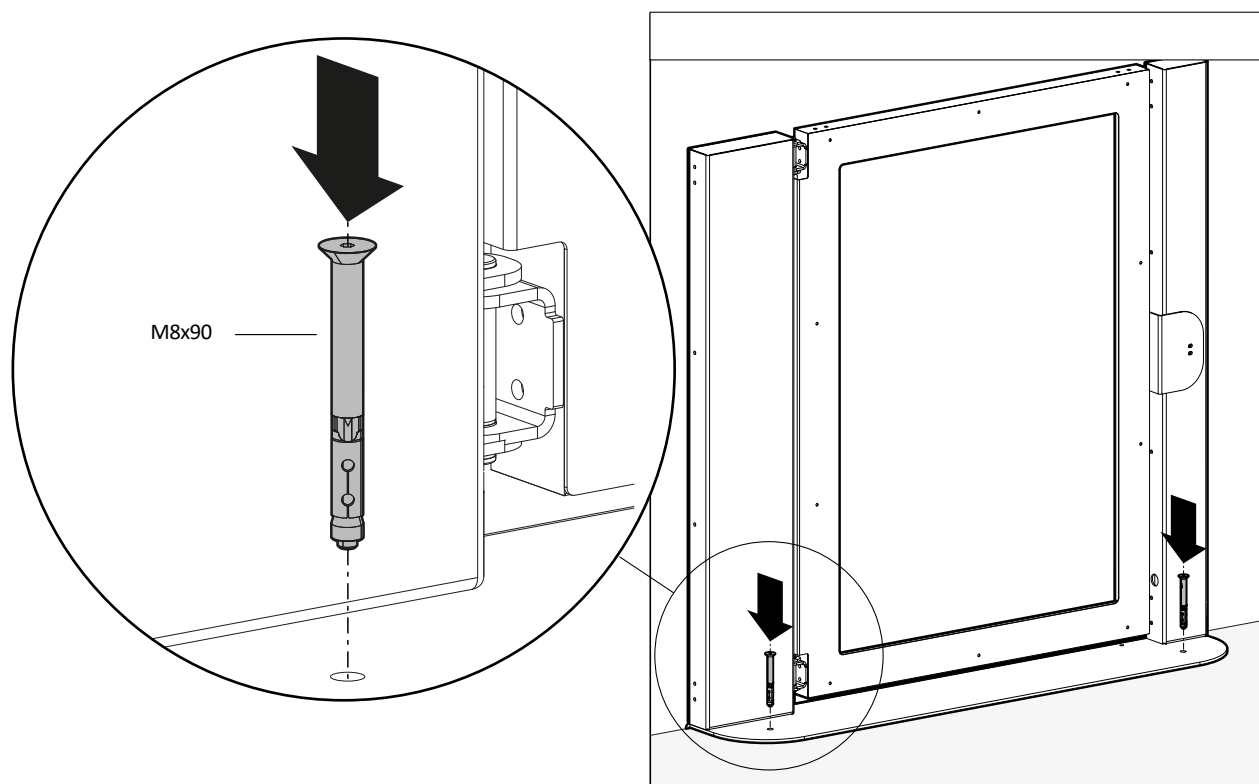
- Position the Gate flush with the existing wall, following the plan.



- Position the pre-assembled Gate according to the project drawing the dimensions for positioning.
- Check that the gate is level.
- Anchor the gate at the front with the appropriate countersunk anchor studs.

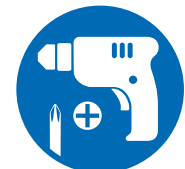
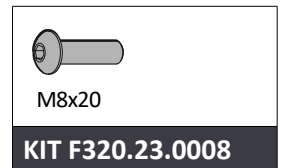
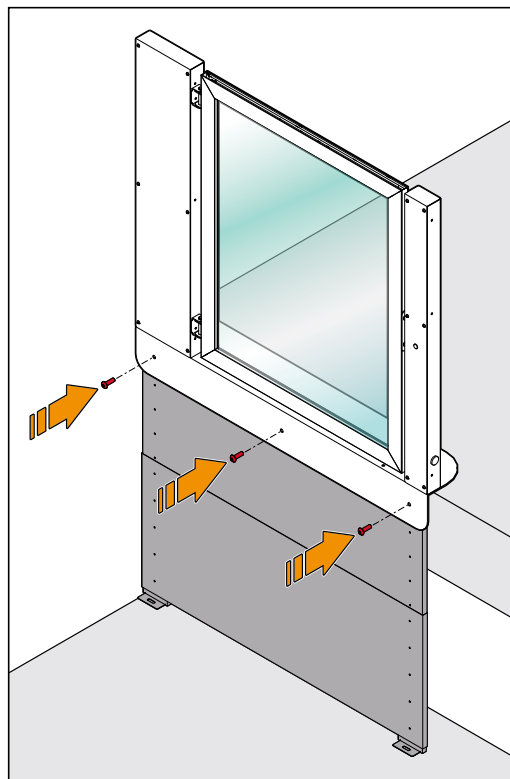
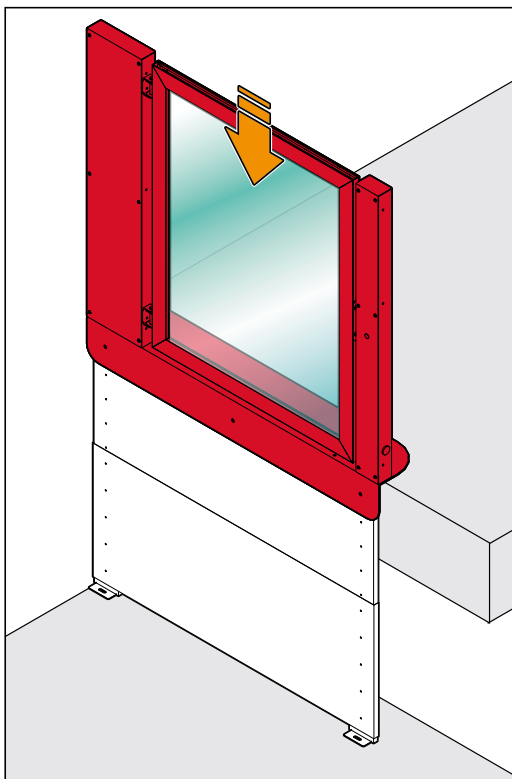
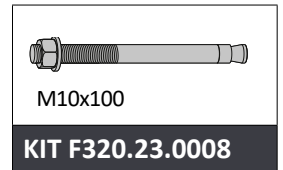
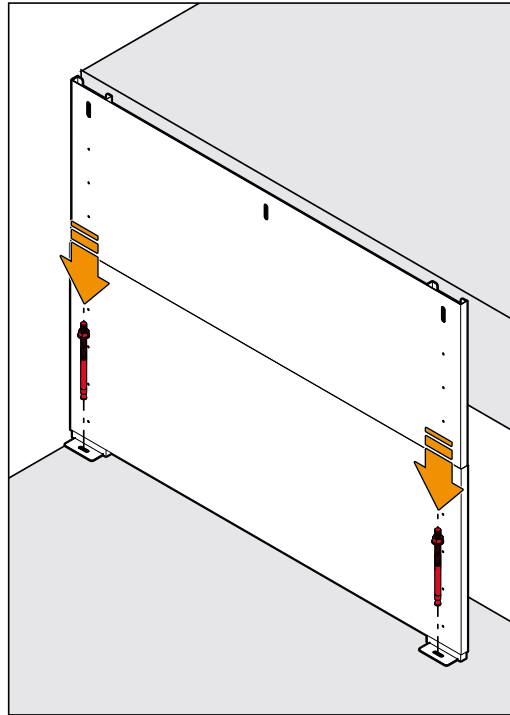
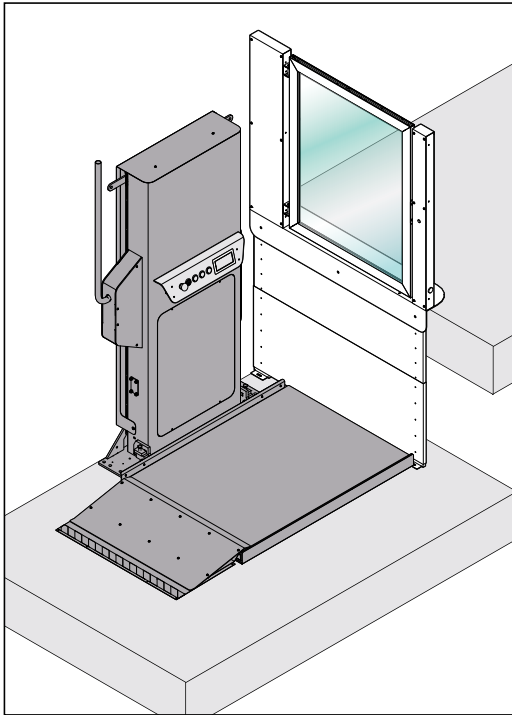


- Superiorly anchor the gate to the slab with the anchor studs.



11.03. Shear wall with floor gate (if provided)

- Position the Fastening Bracket, mark and drill the slab.
- Anchor the Bracket using the anchor studs supplied in the kit.

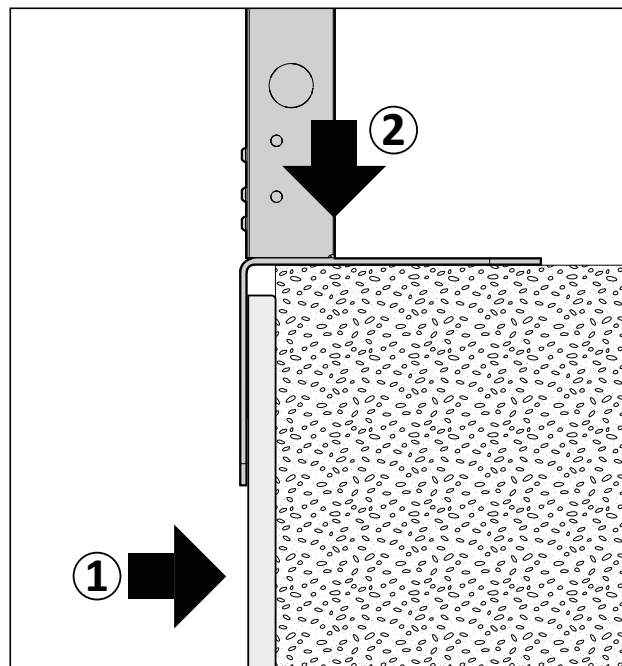


- Place the pre-assembled Gate on the anti-shear wall and support it at the point of installation.

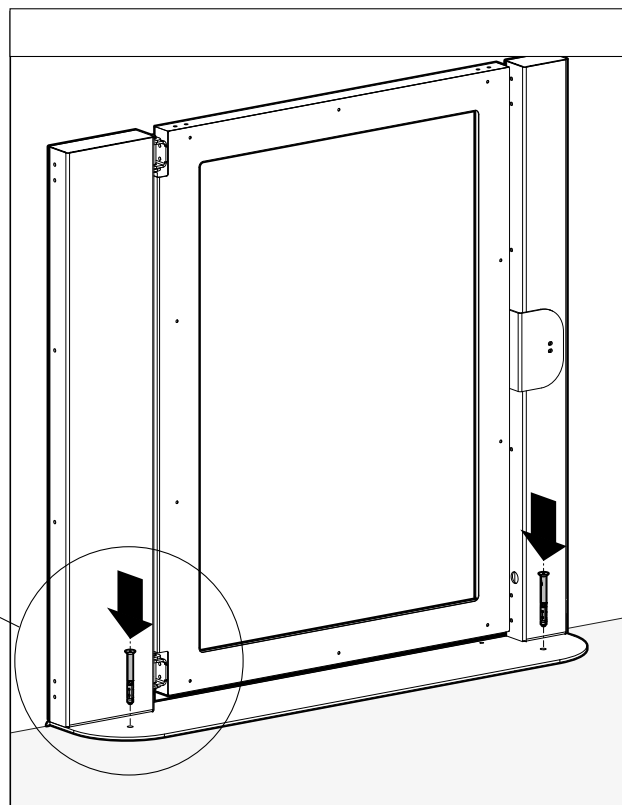
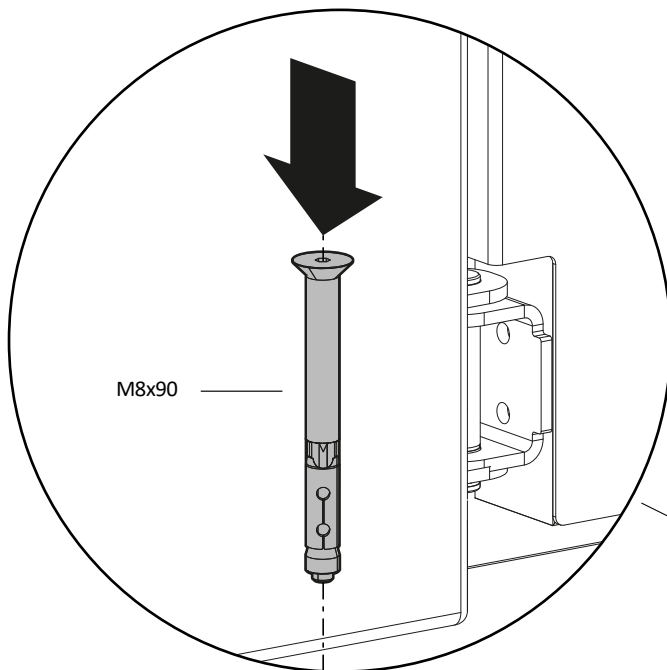


Check the dimensions for positioning the Gate on the project drawing.

- Check that the gate is level.



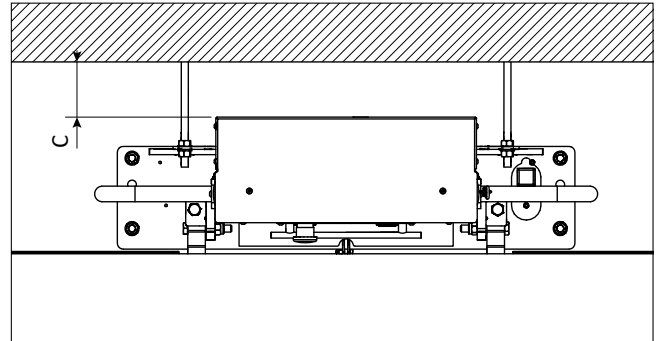
- Superiorly anchor the gate to the slab with the anchor studs.



- anchored to walls against shearing

11.04. Preliminary Checks for Platform Installation

- Check distance 'C' from the project drawing
MAX 20 mm.



NOTES



DANGER OF CRUSHING:

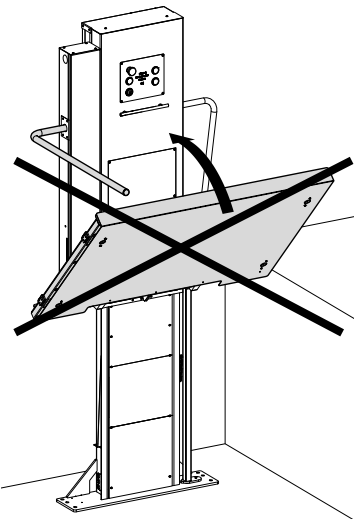
Before performing any manoeuvres or proceeding with the installation, **THE PLATFORM MUST BE ANCHORED ON THE GROUND AND ON THE WALL** (when provided) according to the design drawing, in order to ensure the safety of the operator and avoid damage to the Platform.

HANDLING OF COMPONENTS:

everything over 50kg must be handled with appropriate and compliant means.

For more information, please refer to the "Safety instructions and site management" manual.

NOTICE



RISK OF PLANT DAMAGE:

Do not close the footplate when the automatic fall prevention bar is lowered!

Do not lower the automatic fall prevention bar when the platform is closed.



An 'EXAMPLE' version will be presented below, images are purely indicative.
Unless otherwise indicated, what is presented fits all configurations.

11.05. Platform positioning and anchoring

11.05.01 ANCHORAGE WITH WALL DISTANCE ≤ 20 mm

NOTICE



In order to avoid damage to the product, it is recommended to handle the platform with care and using suitable lifting devices (hoist, etc.).

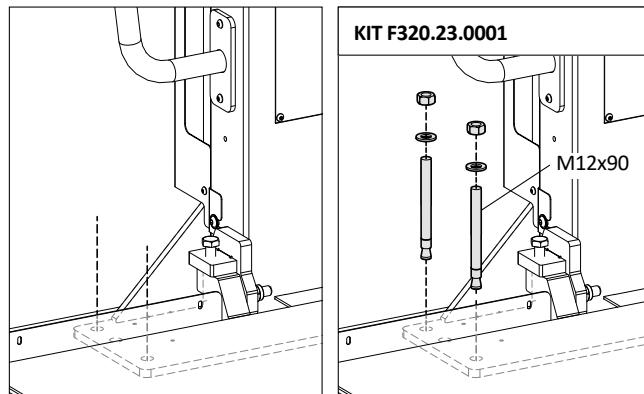
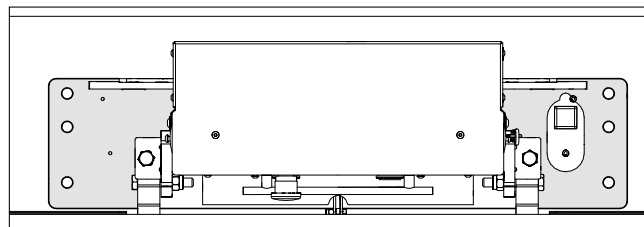
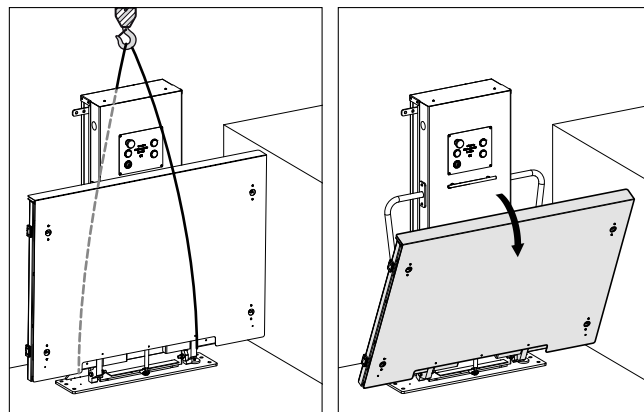
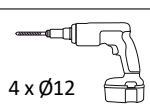
- Position the Platform as planned, using the hoist;
- Undo the catches holding the footplate in place and open it;



FASTENING TO THE GROUND:

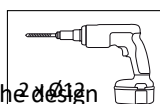
Fastening base has 6 holes: the 4 holes in the corners are to be used, but if those cannot be used, the 2 additional holes in the base can be used.

- Drilling into Pit through the Fastening Base;
- Insert anchor studs and secure Platform.

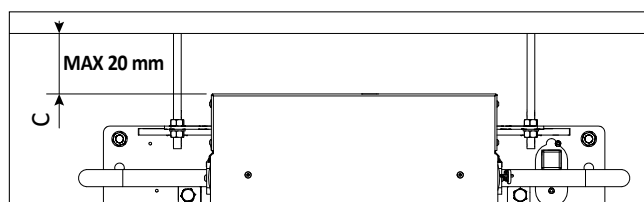
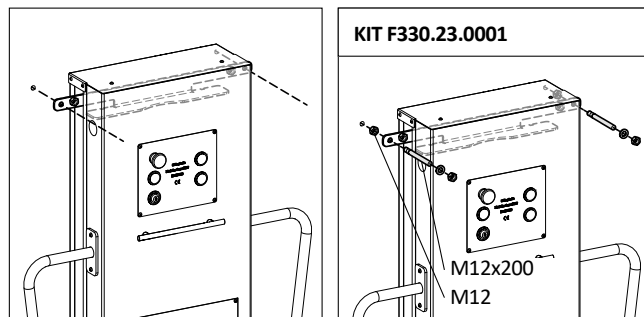


IN CASE OF INSTALLATIONS WITH COURSE > 500 mm

- Drill the wall through the Bracket;
- Insert the anchor stud with the lock nut;
- Stop the anchor stud;

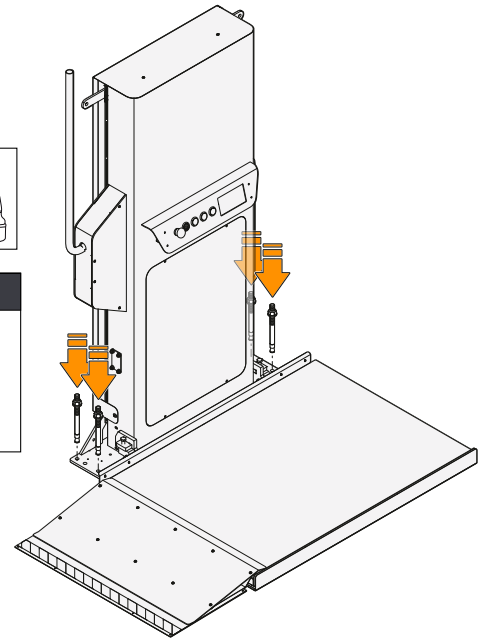
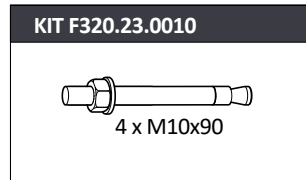
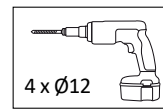


- Adjust the distance so that it is as indicated on the design drawing, acting on the nut and lock nut.

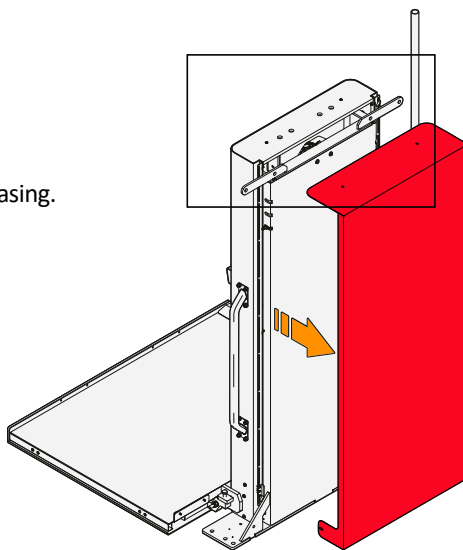


11.05.02 ANCHORAGE WITH WALL DISTANCE > 20 MM

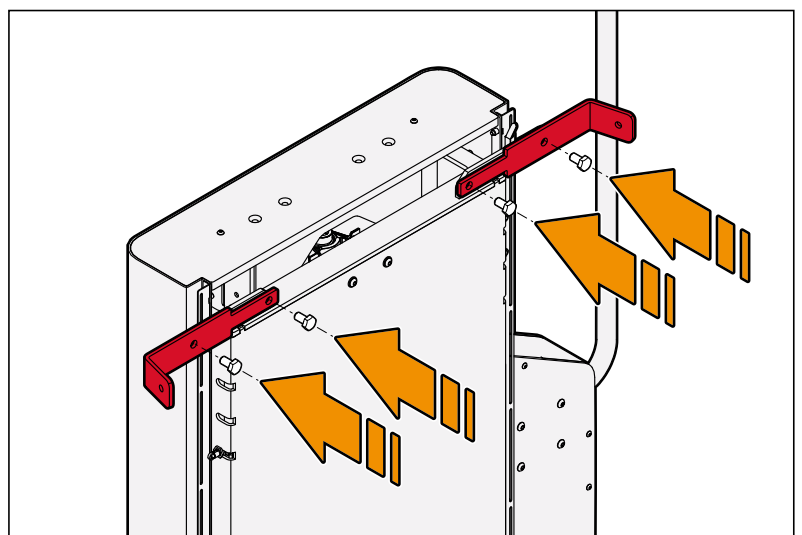
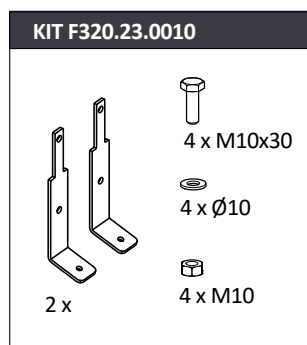
- Drill the floor/pit using the Fastening Base as a Template.
- Insert anchor studs and secure the Platform on the ground



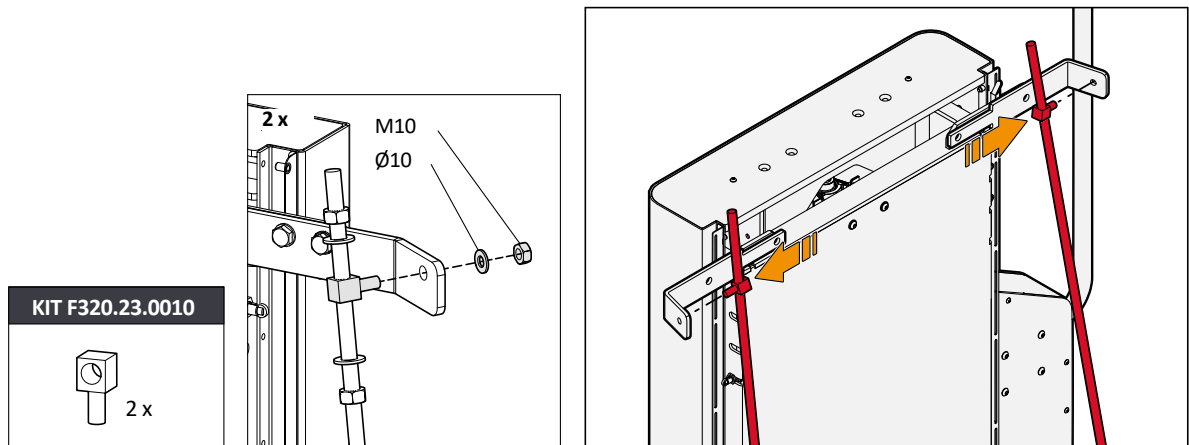
- Remove the rear casing.



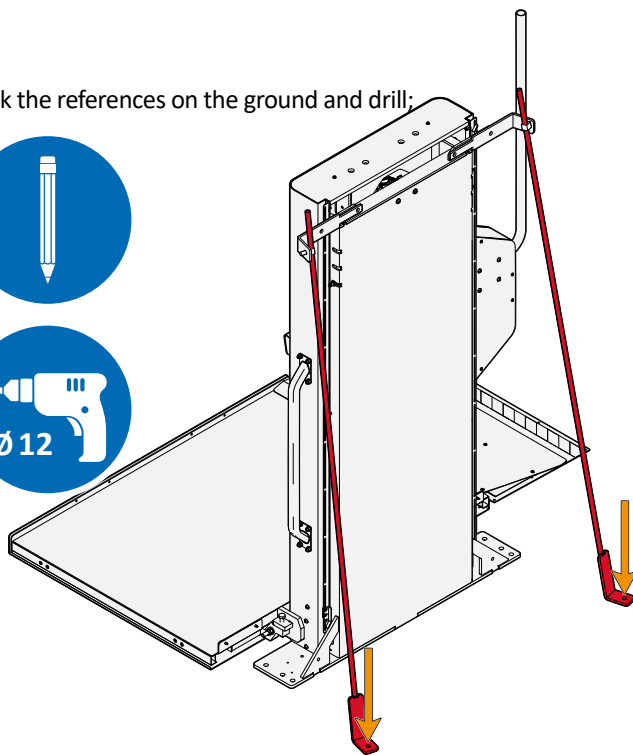
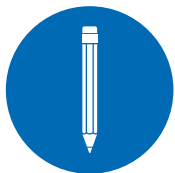
- Secure the support bar with the Screws supplied.



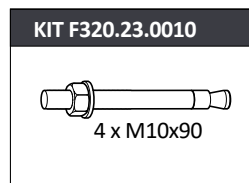
- Pre-mount the threaded pins in the kit on the tie rods.
- Insert the pre-mounted threaded pins into the support bar.



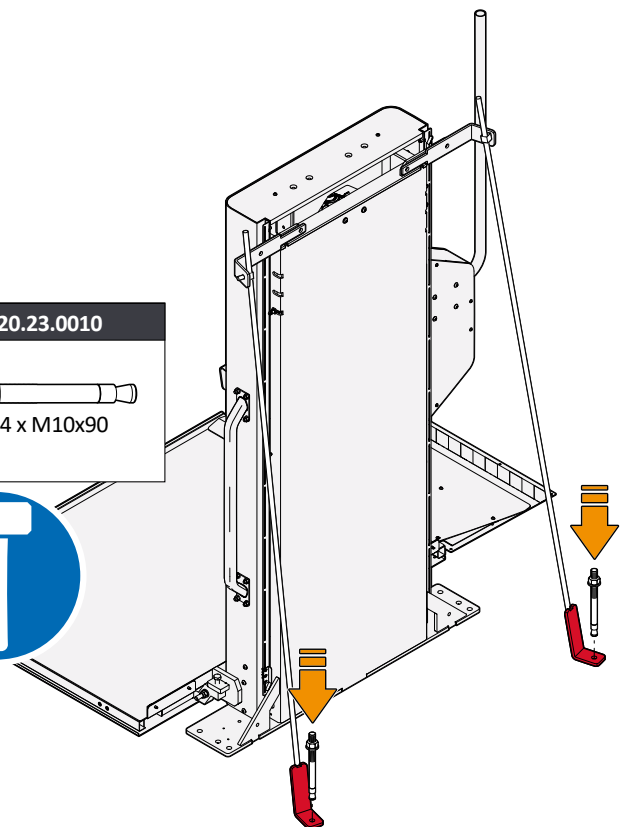
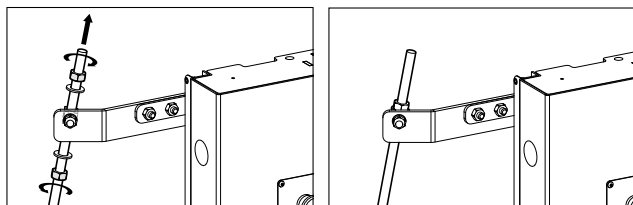
- Mark the references on the ground and drill;



- Anchor studs provided on the ground.



- Tension the tie rods.



12. Electrical Components

INFORMATION

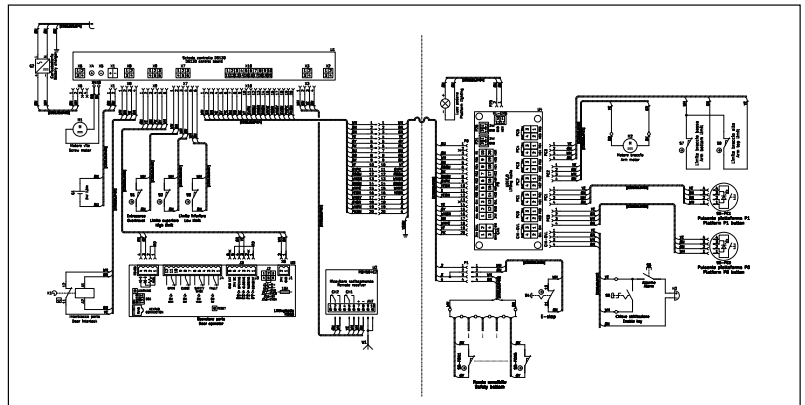
The manual shows how to mechanically install devices with electronic controls; for electrical connections, please refer to the wiring diagrams of the individual components in their packaging.

12.01. Electrical diagram

IMPORTANT!



Check that the electrical connections are as shown in the electrical diagrams supplied with the system. Refer to '**IM.TEC.147 - DOMOSTEP 130 - Electrical equipment**' manual



12.02. Upper and lower overtravel contacts


- Check the correct functioning of the contacts of **upper extra-stroke ①** and **lower extra-stroke ②** inside the guide rails.
- Adjust their position according to the stopping positions.

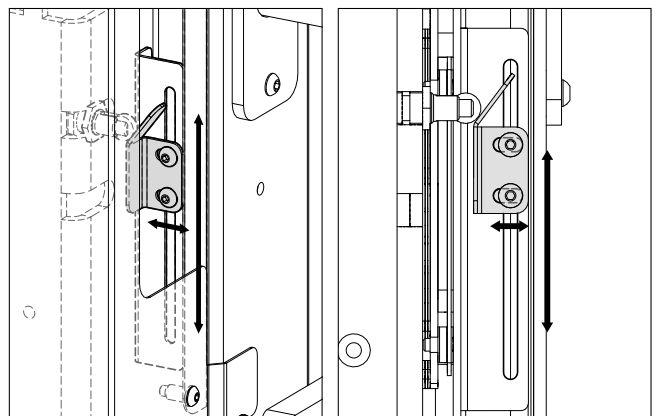
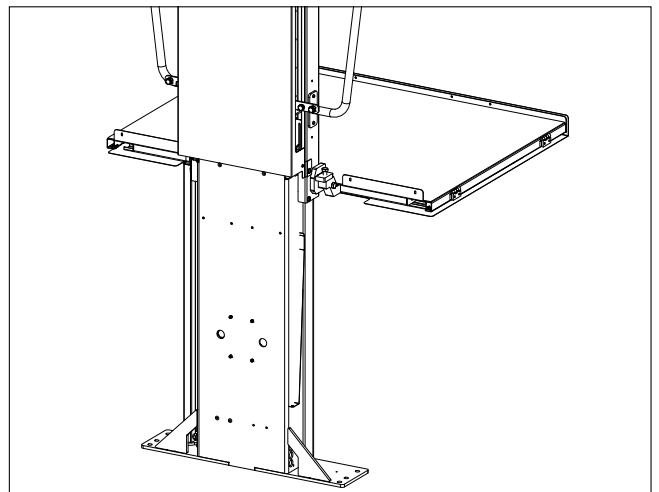


IN CASE OF INSTALLATIONS WITH COURSE < 600 mm

In the manual, you will be asked to bring the platform approximately 600 mm above the ground; for systems with shorter strokes, it will be necessary to act on the extra-stroke contacts:

Move the ascending limit switch **①** so as to achieve this height difference. Return the footplate to the lower level and reposition the ascending limit switch **①** to its original position.

 Before moving the upstroke limit switch **①**, it is a good idea to mark the reference of its position, otherwise the upstroke contact will have to be readjusted.



NOTES



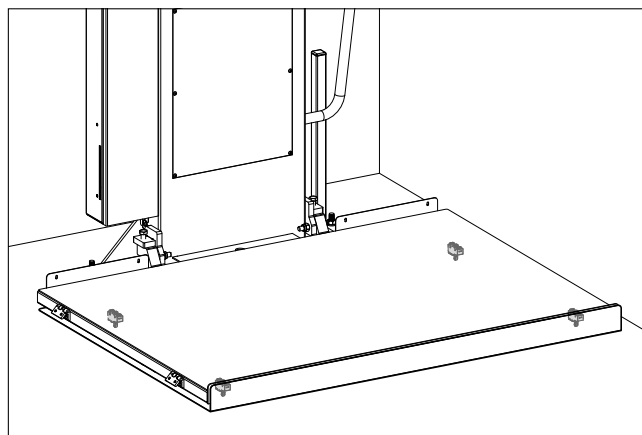
DANGER OF CRUSHING

The activation of the Platform's electrical Handling Control poses a danger of injury to the fitters as not all components and safeties are yet installed.



12.03. Mobile bottom contacts (if applicable)

- Check the correct functioning of the contacts under the footplate.



13. Safety devices

13.01. Pit Protection Device (Safe-Pit)

- Check the correct functioning of the Pit Protection Device:
- Raise the platform approximately 600 mm off the ground;



IN CASE OF INSTALLATIONS WITH COURSE < 600 mm

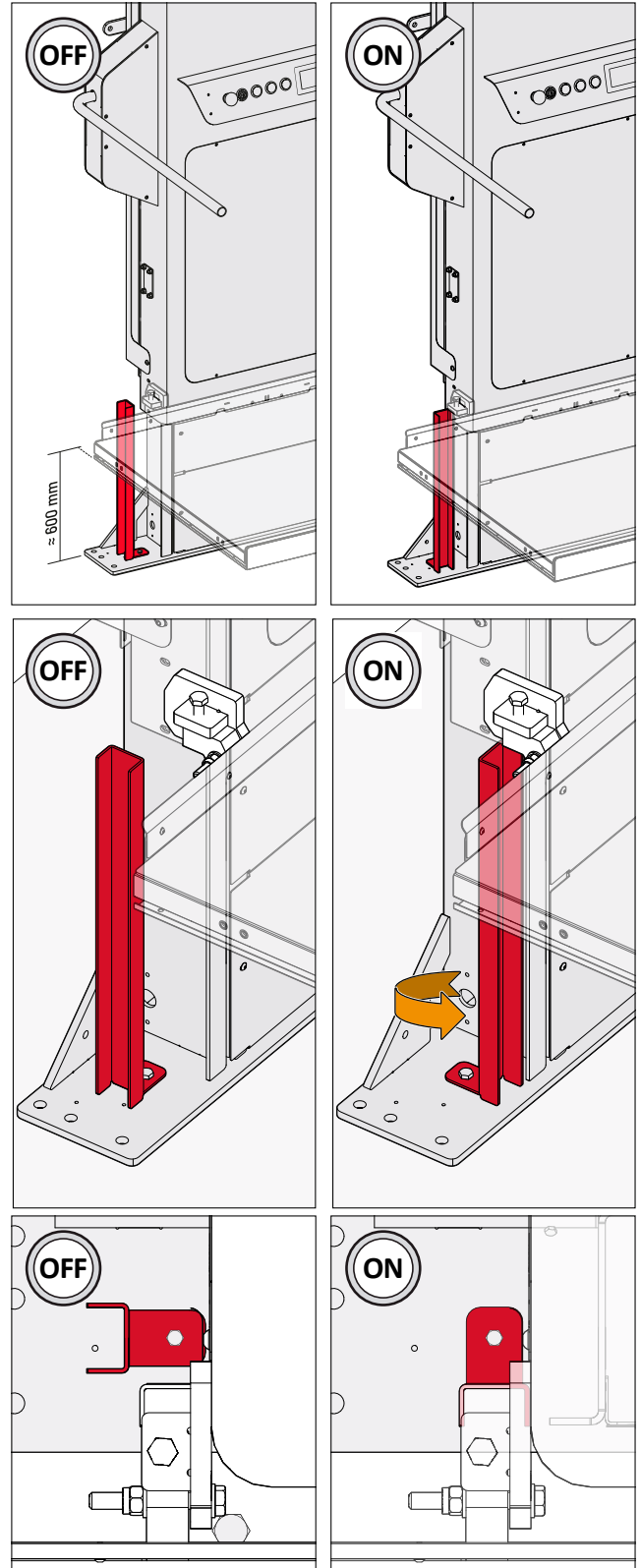
check the procedure in section 8.2. "EXTRA-CURRENT UPPER and LOWER CONTACTS".

- Set the device to the ON position;



The device must be rotated by pivoting the screw so that its projection is under the Bracket.

- Lowering the footplate: the tube must rest on the footplate release bracket
- When maintenance is complete, lift the footplate and place the device in the OFF position, bringing it up against the set screw.



13.02. Installation of platform railing (if provided)

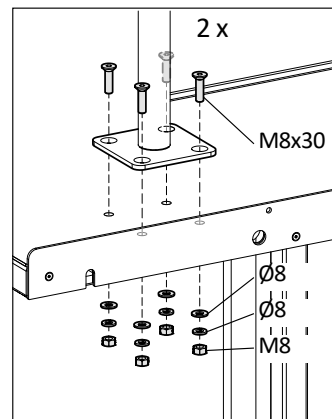
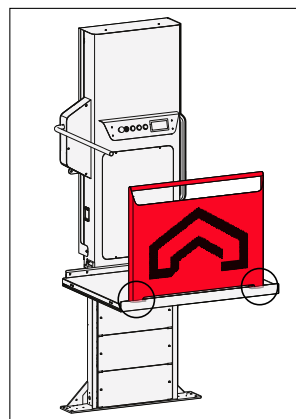
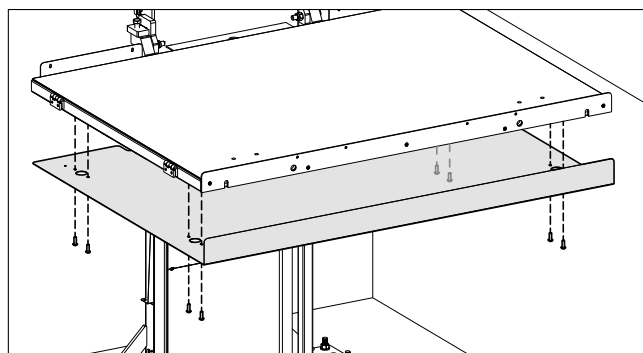
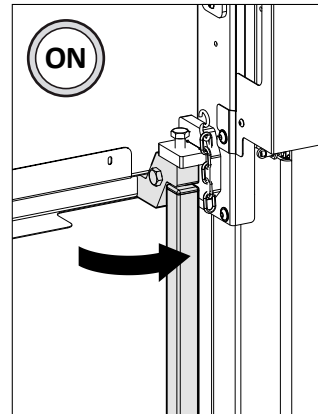
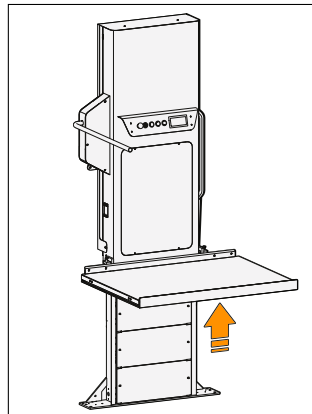
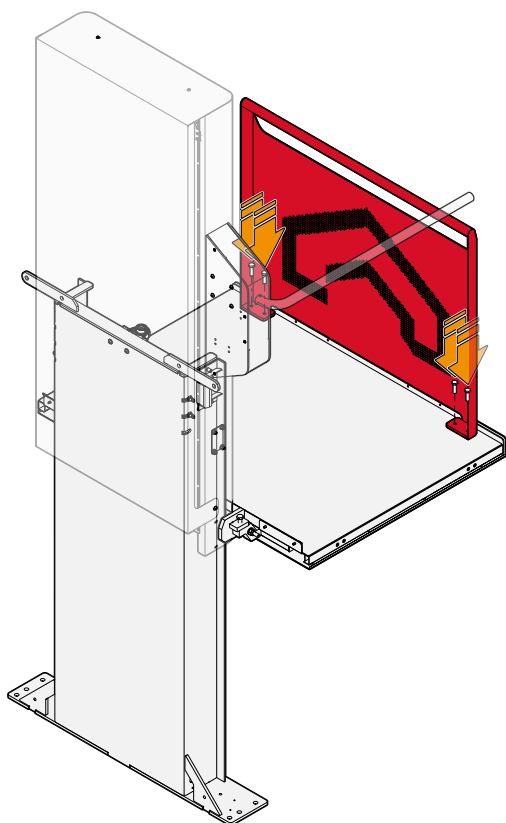
NOTES






DANGER OF CRUSHING

Activate the Pit Protection Device (ON position);

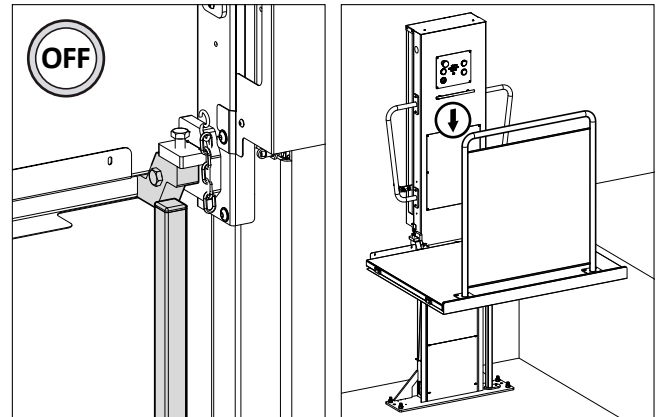
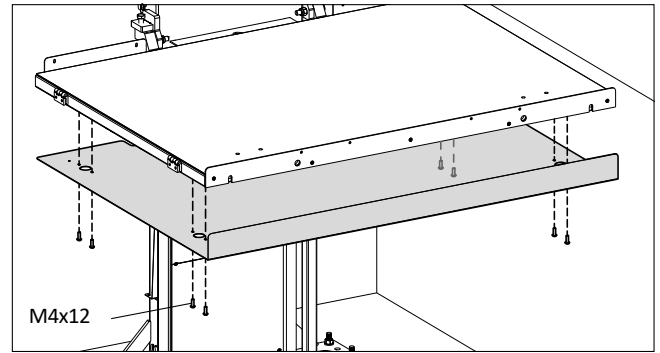
- Lift the machine;
- Insert the safety device (Safe-Pit device).
- Remove the movable bottom (if present);
- Position the railing on the Platform
- Secure it with the screws of the special kit.



KIT F320.23.0005

- | | |
|---|--|
|  | 8 x Ø8 |
|  | 8 x Ø8 |
| 8 x M8x30 |  8 x M8 |

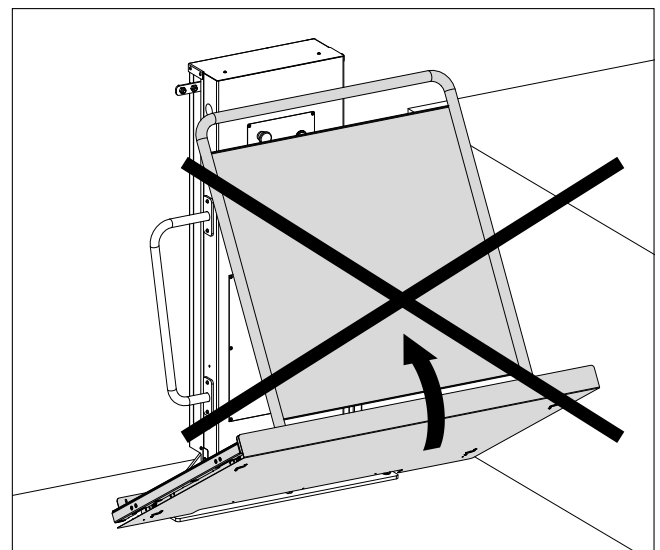
- Reassemble the movable bottom;
- Lift the machine and set the Pit Protection device to OFF.



NOTICE



Once the guardrail has been installed, it will no longer be possible to fold/tilt the platform onto the guide rails.



13.03. Protection bellows - installation

ATTENTION



ENSURE THAT THE BELLOWS ARE INSTALLED CORRECTLY:

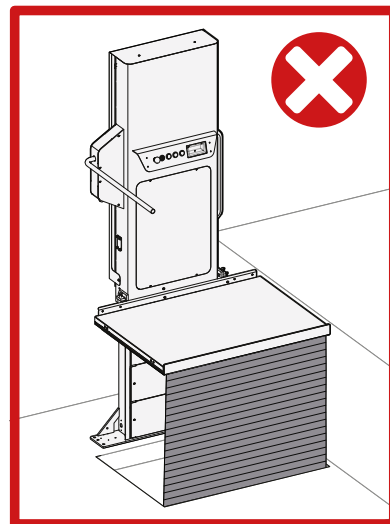
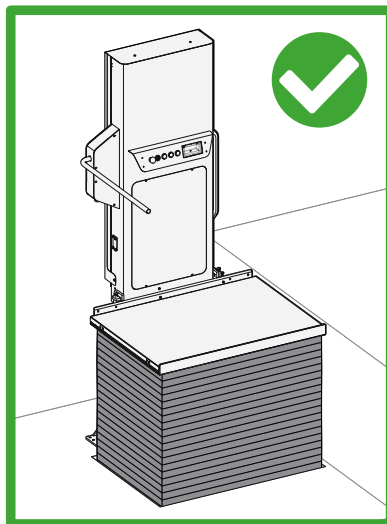
The bellows must cover the two sides of the footboard NOT adjoining the Brickwall in order to prevent access under the footboard. In case of incorrect installation of the bellows and careless use, injury to persons and damage to property may occur.

NOTES

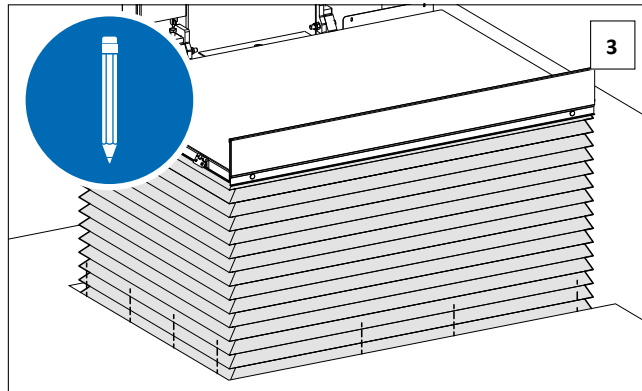
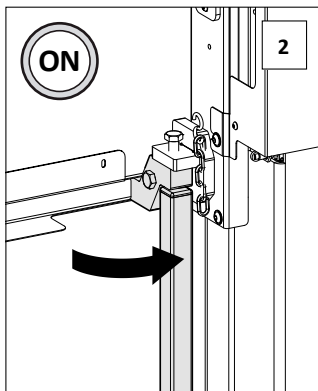
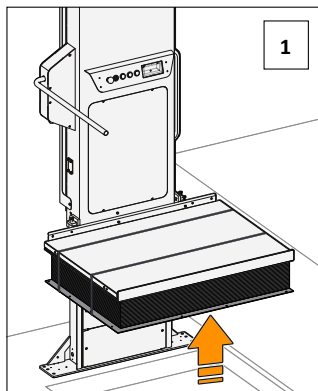


DANGER OF CRUSHING

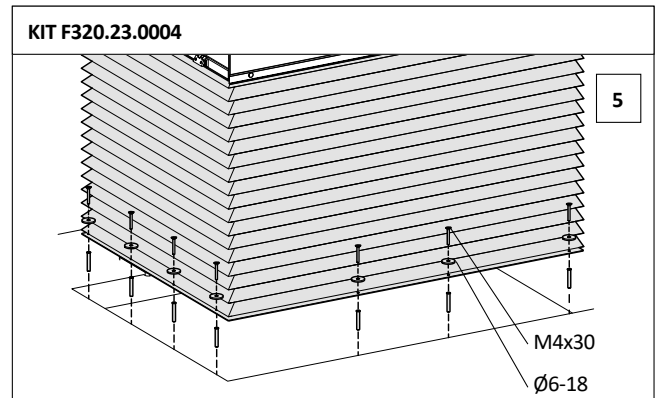
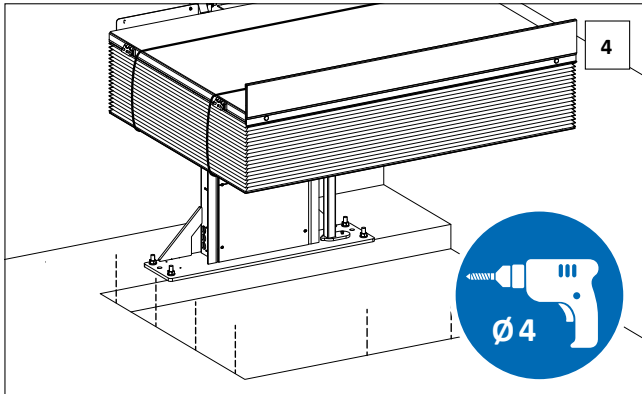
Activate the Pit Protection Device (ON position);



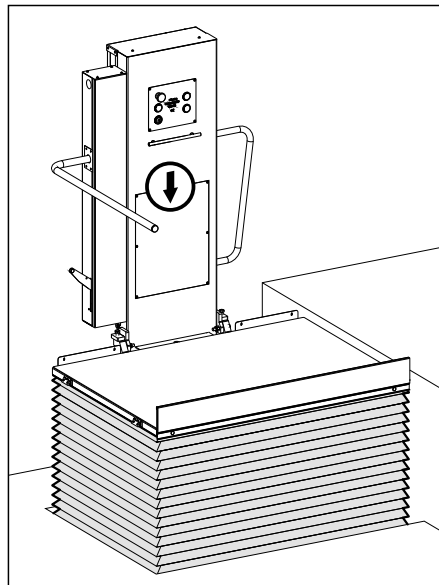
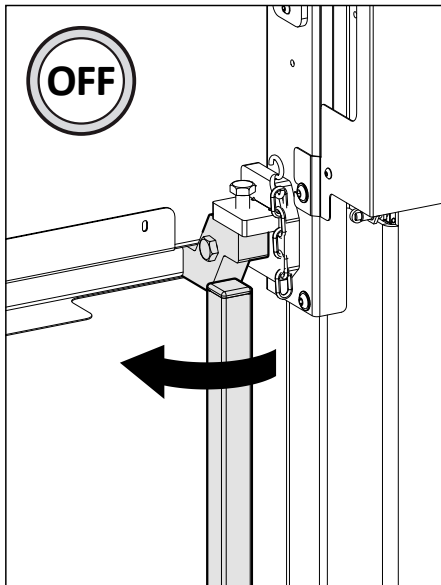
- Raise the platform and engage the Pit Protection device (ON position);
- Mark references for Pit drilling;



- Raise the bellows by temporarily stopping it and drill into the Pit.
- Drill at the marks made.
- Lower the bellows into the Pit and secure it with the anchor studs provided.

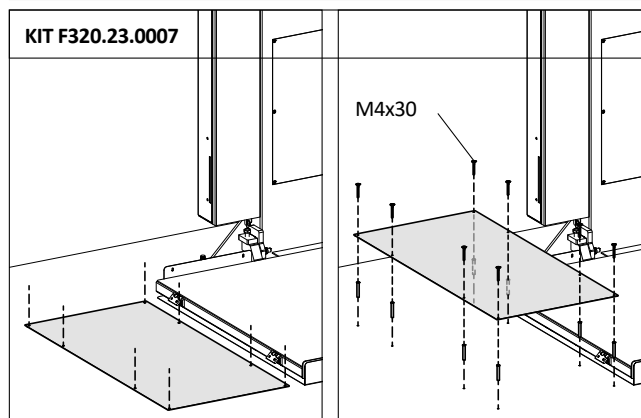
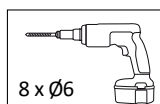
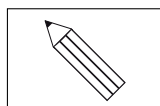
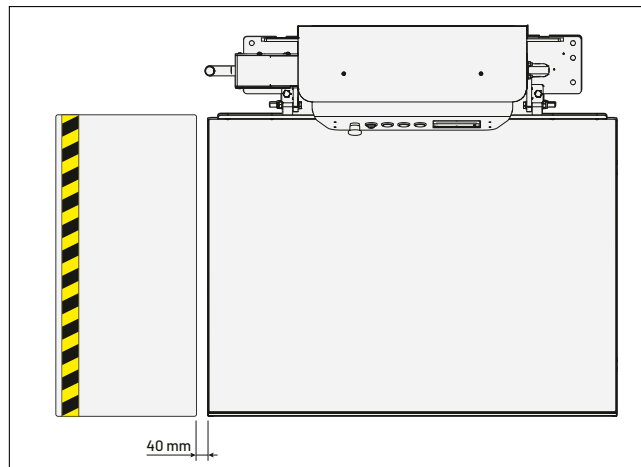


- Lift the machine and switch off the Pit Protection device (OFF position).



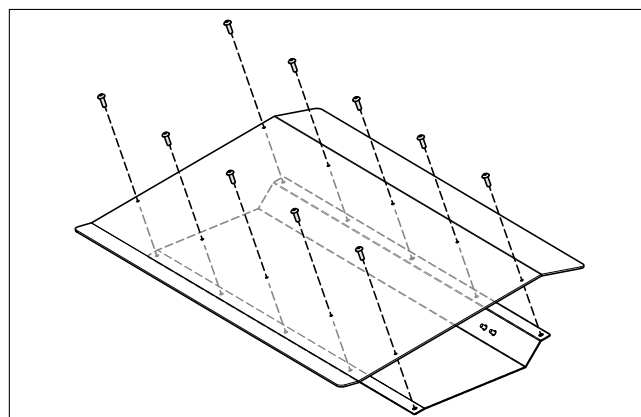
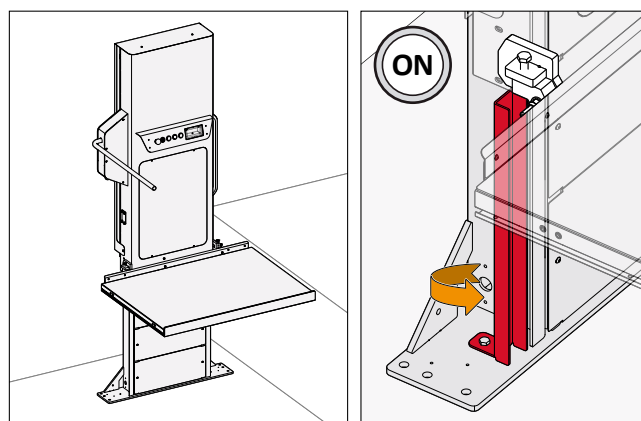
13.04. Gravity slide - installation

- Fix the slide protection plate to the ground, positioning it approximately 40 mm from the footplate footprint;

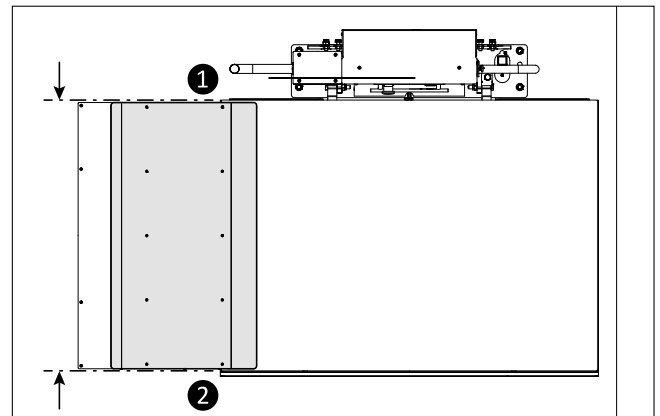
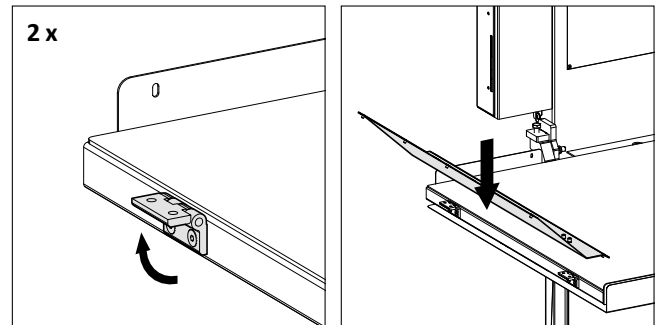


NOTES	
	DANGER OF CRUSHING Activate the Pit Protection Device (ON position);

- Remove the aluminium cover from the chute and keep the screws aside;

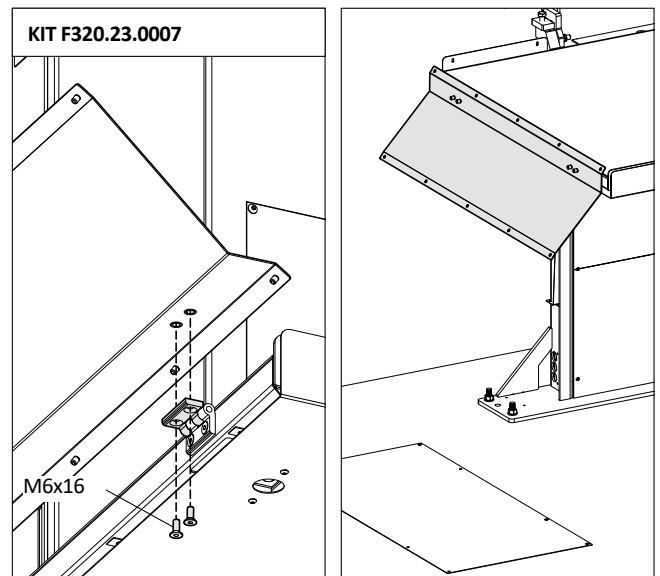


- Open the pre-mounted hinges on the platform and position the slide;

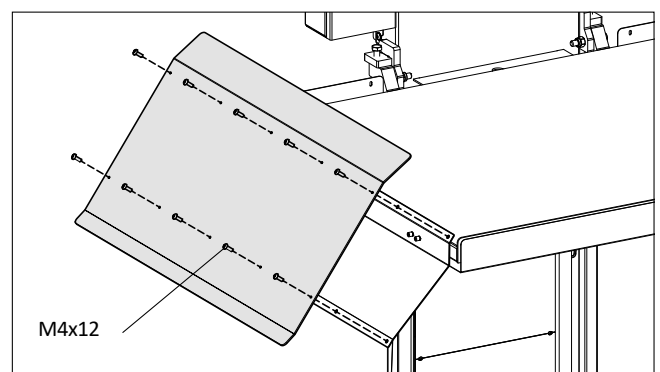


CHECK THE POSITIONING OF THE CHUTE:
The slide must be CENTRAL to the platform,
equidistant from the sides ① and ②.

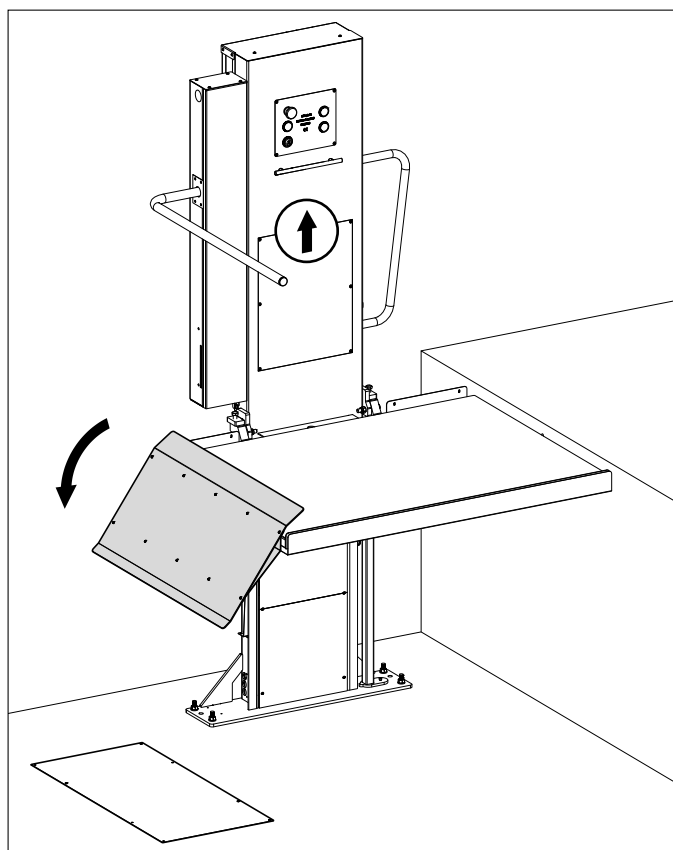
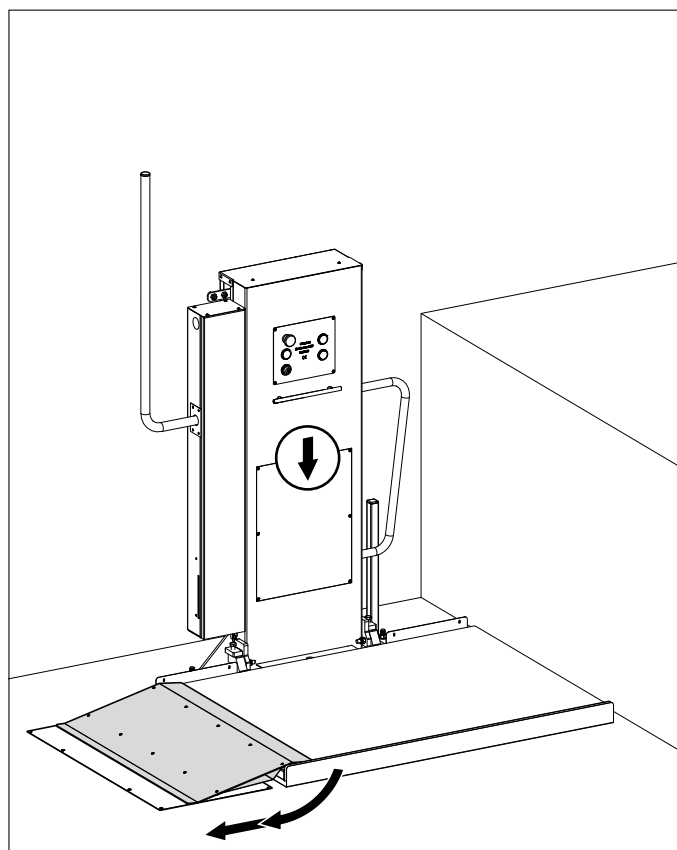
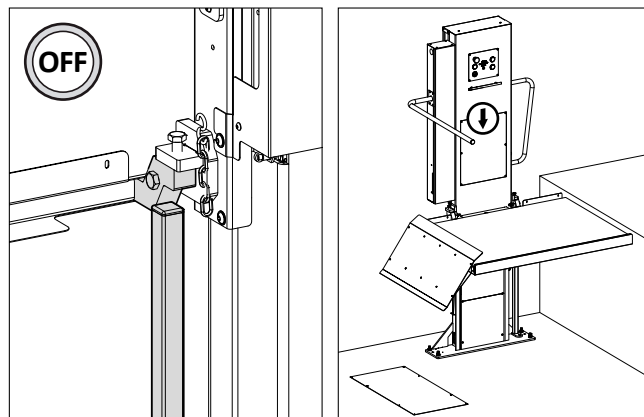
- Fasten the hinges to the slide;



- Refit the cover with the screws removed earlier;

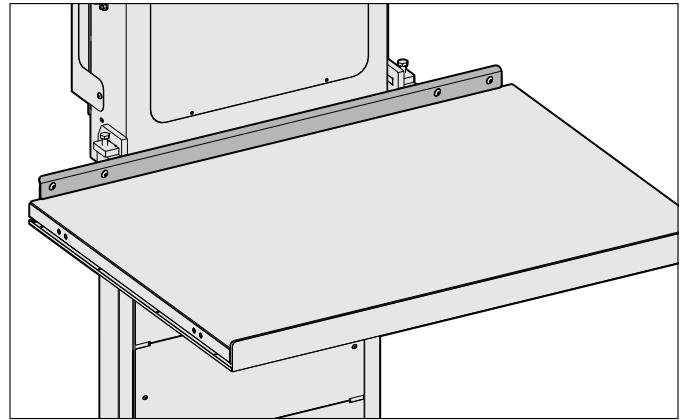
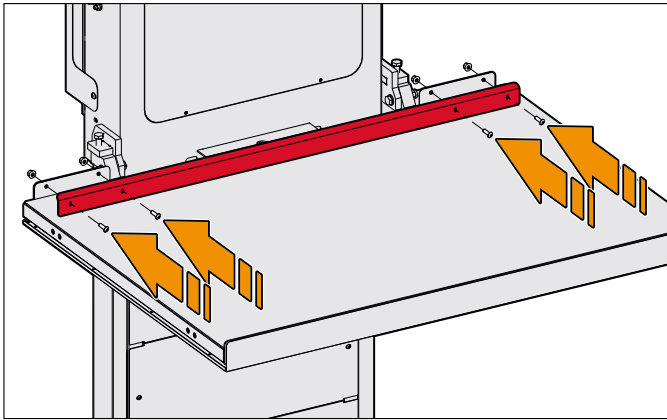


- Lift the machine and set the Pit Protection device to the OFF position;
- Check the proper functioning of the chute.

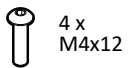


13.05. Footband - installation (if applicable)

- Mount the foot guard strip on the guide rail side.



KIT F320.23.0003



4 x
M4x12



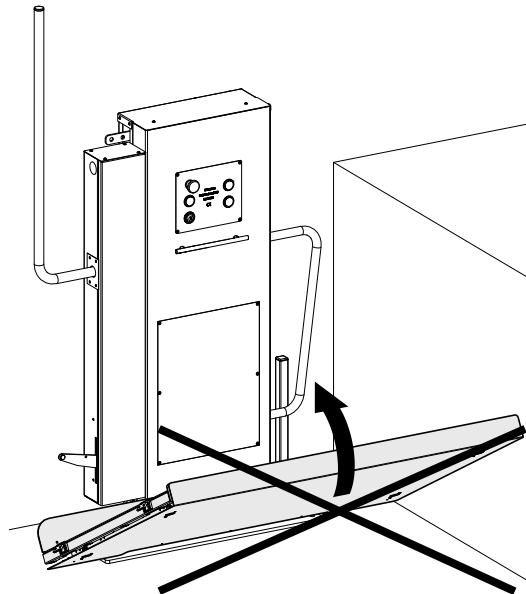
4 x
M4

NOTICE



RISK OF PLANT DAMAGE:

Once the footplate is installed, it will no longer be possible to tilt the footplate onto the guide rails.



14. Landing operation panels

14.01. Button fixtures - installation

- Attach the Landing operation panels as instructed by the supplier (instructions can be found in the panel packaging).

15. Controls and final adjustments

- At this point we can proceed with the general final checks of the entire system, in order to ensure good Travel comfort for the system, and then carry out the Commissioning tests required by the standards (see point 2 of the "Final Checks" manual).

IMPORTANT!



Carry out the checks and adjustments in the IM.TEC.149 - FINAL CHECKS manual to consider the installation of the system completed.

NOTE: The operations described in this chapter may only be carried out by suitably qualified personnel.

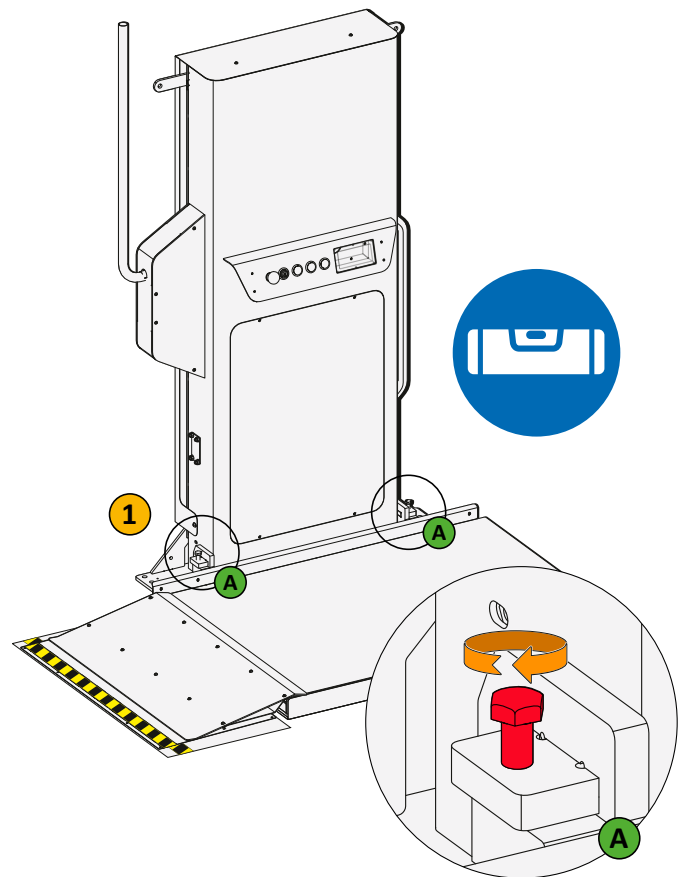
15.01. General checks and platform adjustment

Check that the installation corresponds to the contract data, the project drawing and the electrical diagram.

In particular:

- value of the supply voltage and the voltage at the ends of the various electrical devices;
- load capacity of the system;
- speed of the system;
- difference in height between empty car and full car when at stops;
- safety chain;
- safety distances;
- electrical insulation to ground between control circuit and motive power.

- To correct minor inclinations of the footplate, use the screws **A** to bring the footplate perfectly level.



16. Platform Noise Emission

The Platform's noise sources are the Motor, Brake and Shoes crawling on the Guide rails, particularly during full load (including maximum permissible overloading).

Motor is located at the bottom of the column, behind the Protection cover.

The manoeuvring position (user/operator) is located above the Platform, and therefore not directly subject to noise emissions.

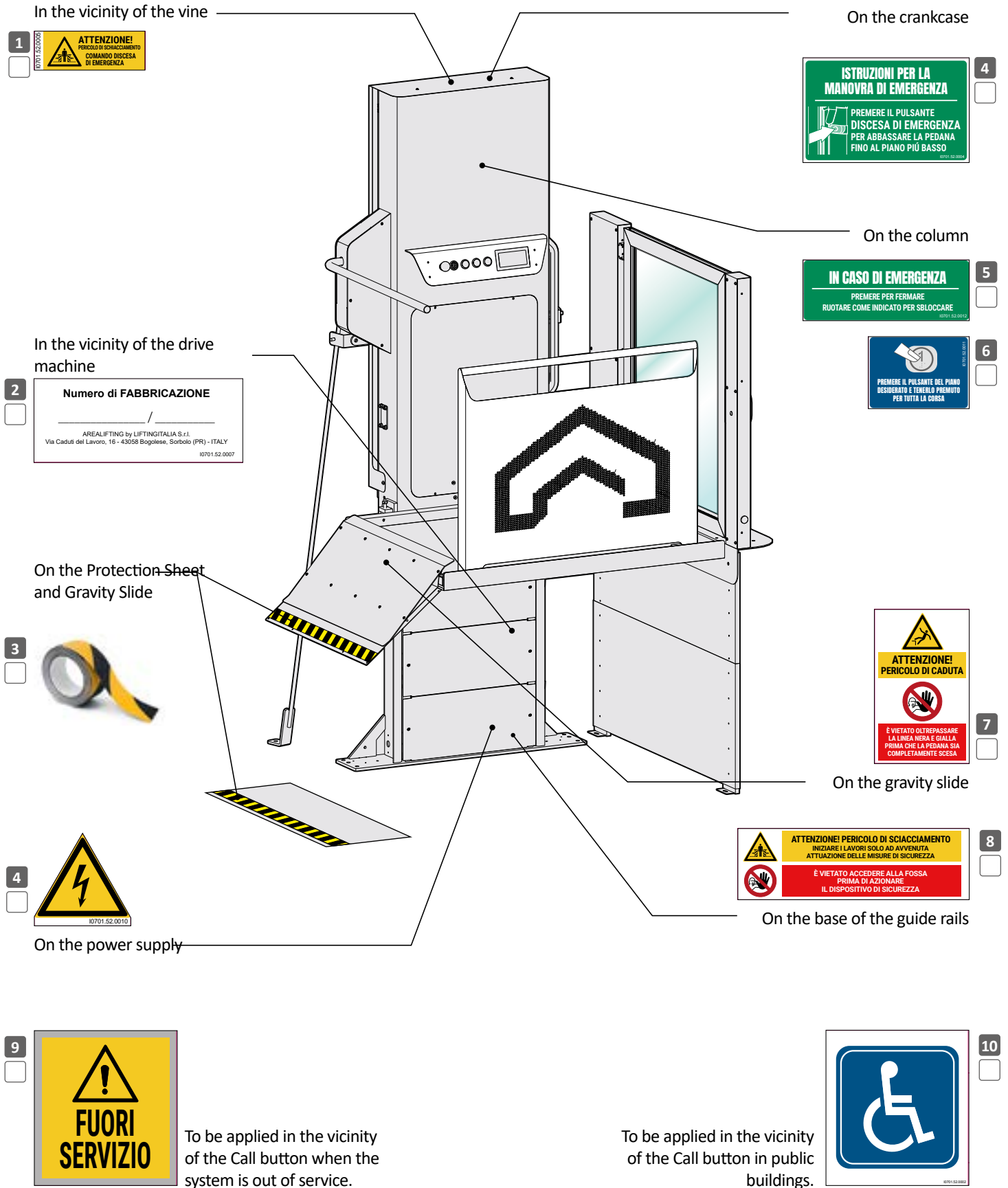
Despite this assumption, measurements were cautiously carried out directly around these sources, in an industrial environment with no other machines in operation.

In the various configurations examined, all measurements resulted in sound pressure levels below 70dB(A).

17. Safety signs to be applied on the system

INSIDE THE GUIDE RAILS

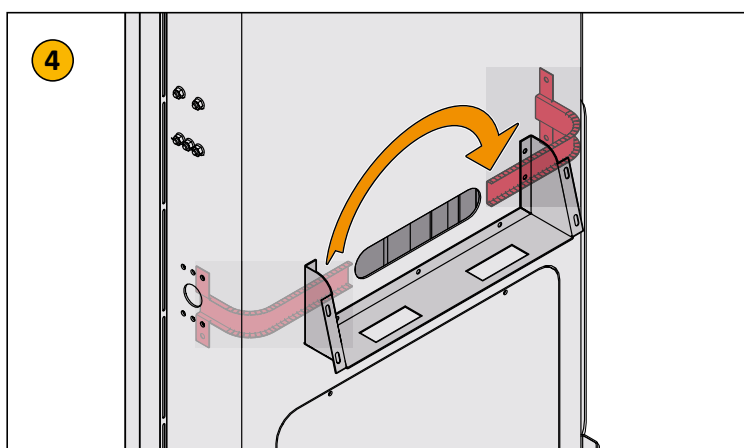
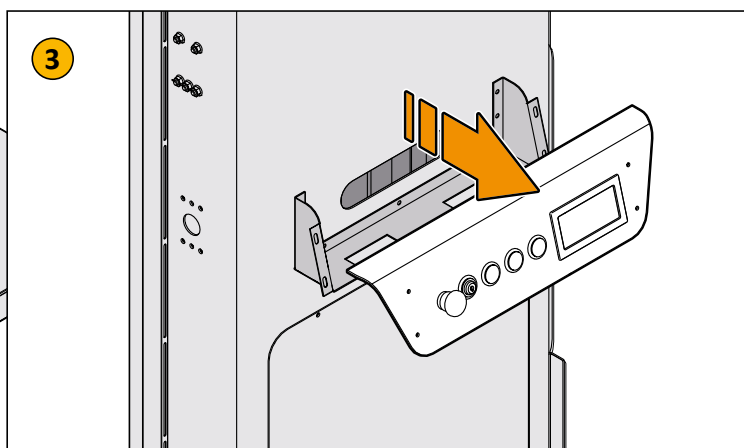
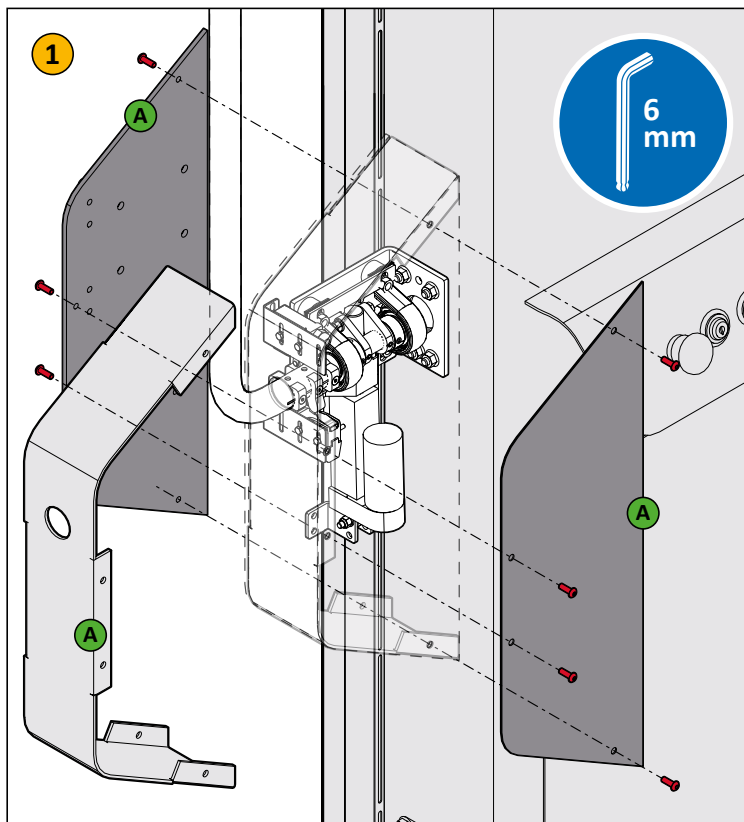
OUTSIDE THE GUIDE RAILS



18. Changing hands of the automatic fall arrest bar

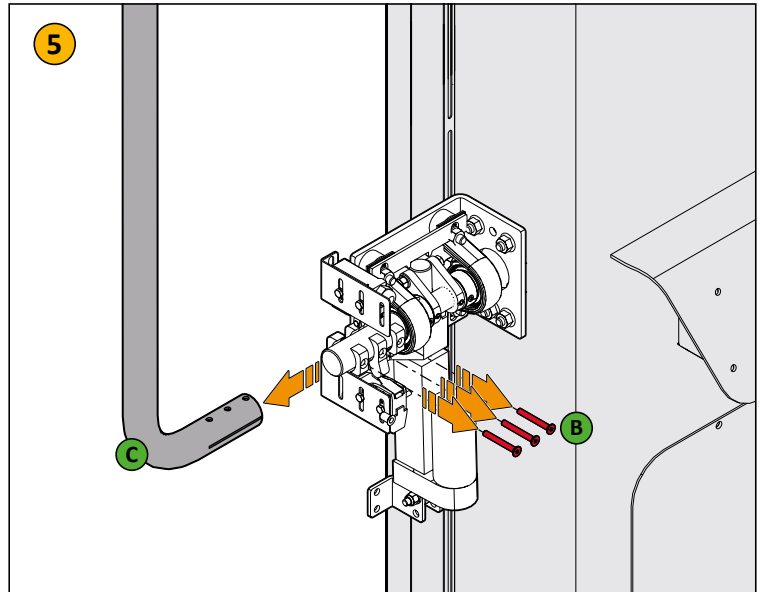
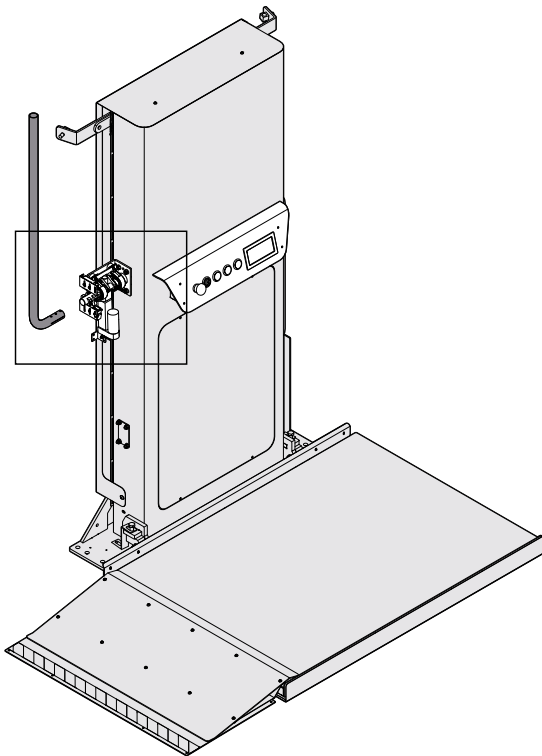
If it is necessary to move the automatic fall-prevention bar to the other side of the machine, carry out the following steps:

- 1 Remove the covers of the 'mechanical box' **A** of the automatic fall-prevention bar.
- 2 Disconnect the cables and remove the wiring harness from its current location.

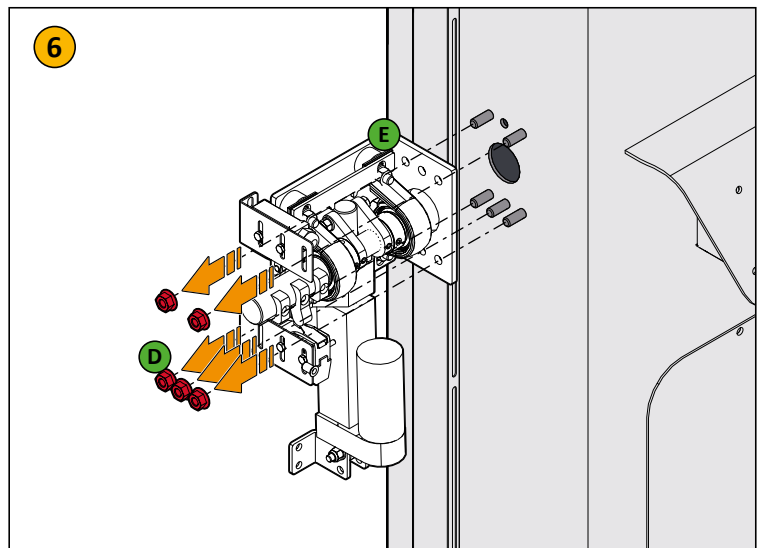
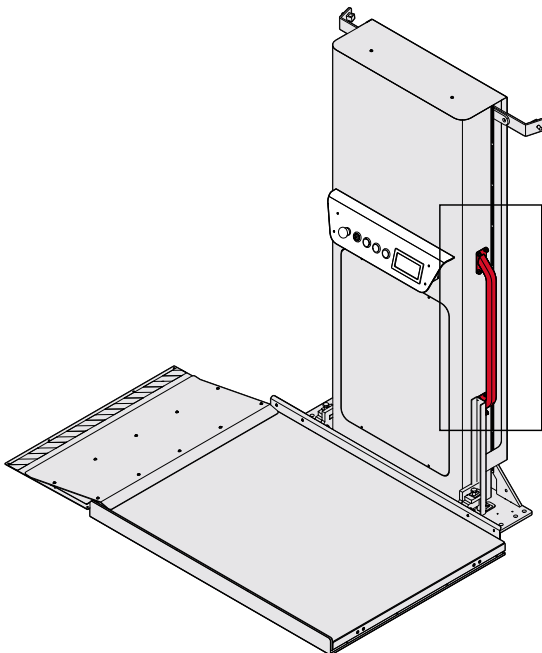


- 3 Remove the Push-button panel from the column.
- 4 Reverse the direction of the cable duct and its cables, placing it on the opposite side.

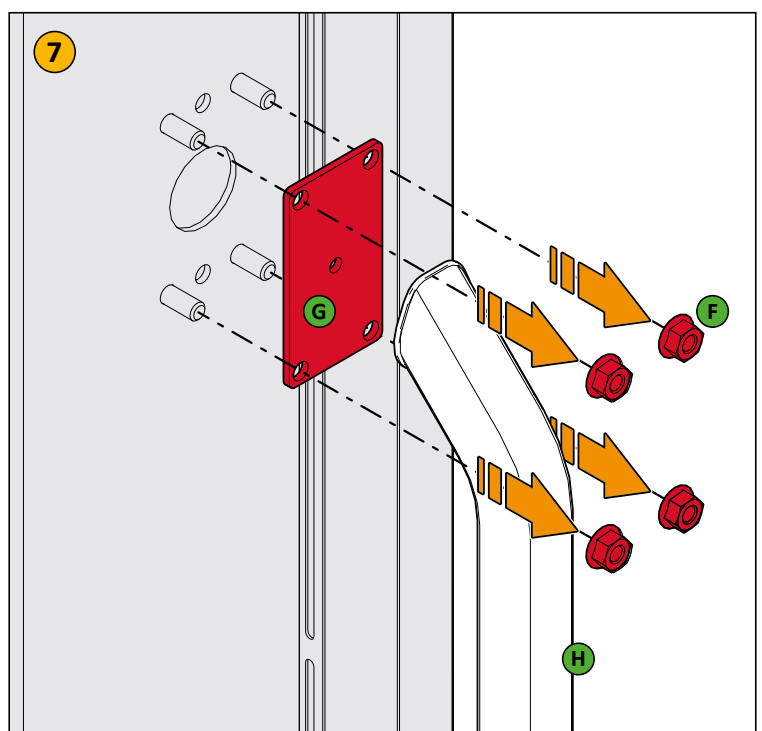
- 5 Remove the fastening screws **B** and the Lever **C** of the automatic fall arrest bar.



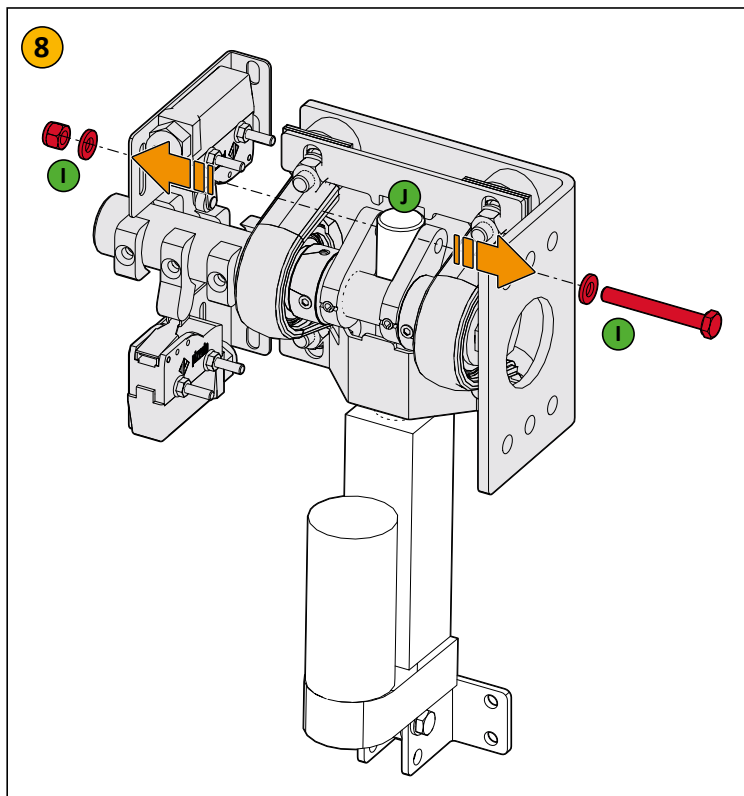
- 6 Remove the fastening screws **D** of the cam mechanism **E** and remove it from the housing



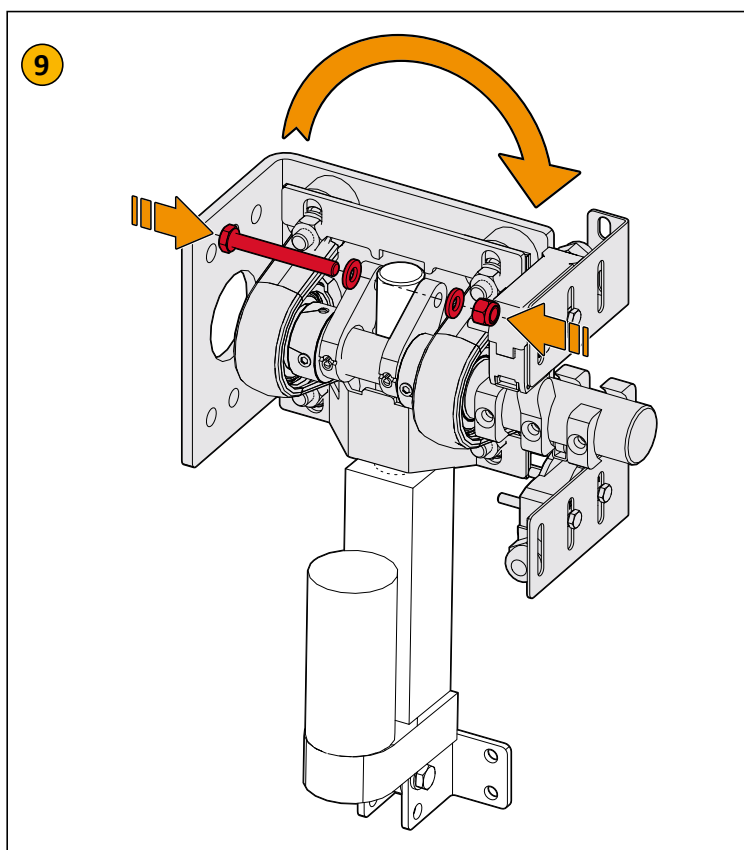
- 7 Remove the Fastening screws **F**, the joint plate **G**, and the fixed handle **H**.



- 8 Remove the Fastening screws **I** of the plunger **J**.



- 9 Fold back the cam block **K** and attach the plunger again **J** with the screws just removed **I**.



- 10 Reassemble all removed material.

ATTENTION



In order to ensure the safety of the user, the machine must be thoroughly tested for correct operation after each intervention.

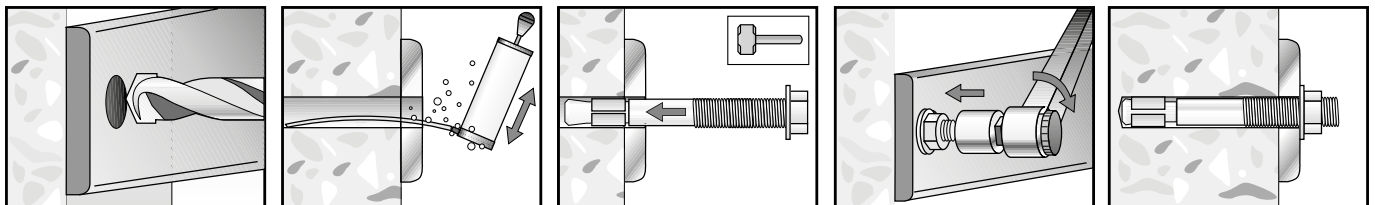
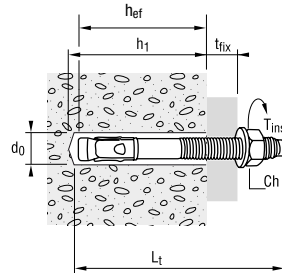
ANNEX 1

Anchoring using anchor studs (mechanical or chemical)

CONCRETE ANCHORAGE SUPPORT

Unless otherwise specified, all anchor studs are size M10 and require a hole in the wall with a 10 mm drill bit.

h₁	=	Minimum bore depth
L_t	=	Anchor stud length
d₀	=	Bore diameter
t_{fix}	=	Fixable thickness
t_{inst}	=	Tightening torque
Ch	=	Key
h_{ef}	=	Anchorage depth



ANCHORAGE SUPPORT IN LOAD-BEARING BRICK WALL

ATTENTION



The anchoring of Uprights in Brickwall Shafts(**made of elements suitable for load-bearing/structural masonry***) requires a reduction in the bracket pitch to cope with the lower mechanical resistance of the Shaft wall.

* Building materials suitable for the construction of load-bearing Brickwalls, also in seismic zones, calculated and manufactured in compliance with the laws and standards in force in the places of installation (IT) - D.M. 17.01.2018 (Technical Standards for Construction 2018).

NOTICE



Always refer to the project drawing for installation.

ATTENTION



For all cases not falling under the described types, an inspection and plan by a qualified technician is required.

ANCHORAGE IN LOAD-BEARING BRICKWALL WITH SOLID AND COMPACT ELEMENTS

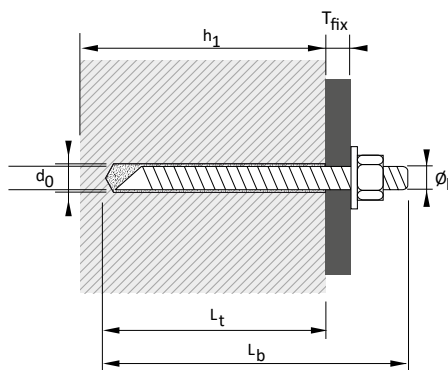
For the application of Chemical bolts on load-bearing Brickwalls with solid and compact elements, a special kit with code F350.23.0026V01 was developed consisting of:

- no. 16 zinc-plated Threaded bars M10x130 with 45° cut (anti-rotation);
- no. 2 CARTRIDGES of 300 ml/each of injection anchor*, usable with normal silicone guns;
- no. 2 Ø9 mm universal mixers in addition to the 4 supplied with the cartridges.

* Valid for concrete, natural stone, solid and hollow elements.

Each kit is suitable for the installation of 8 Guide rails, which corresponds on average to one stop.
So, as an example, for a system of 3 stops 3 KIT F350.23.0026V01 will be required, with Brackets positioned as shown in the example drawing.

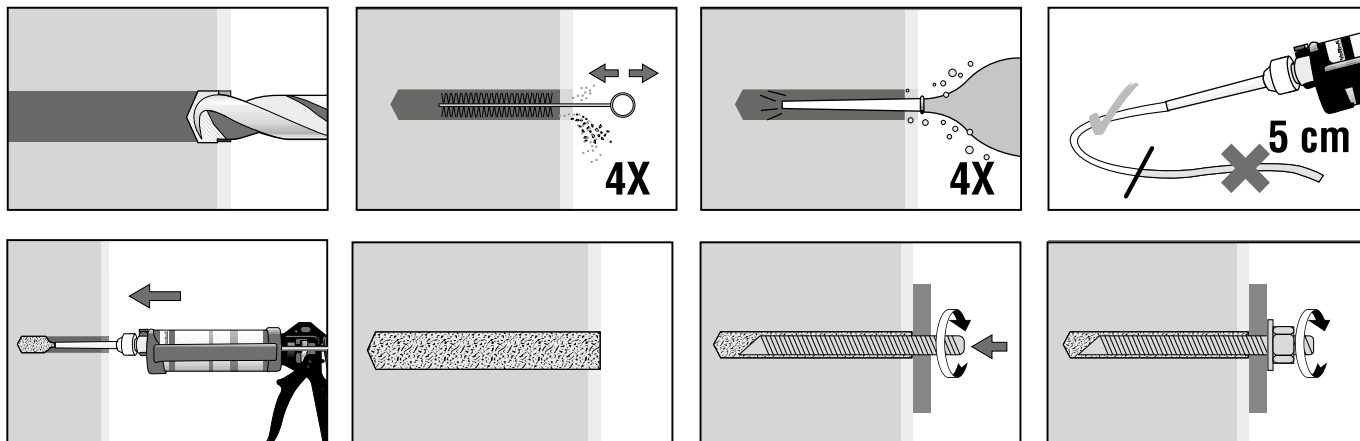
h₁	=	Minimum bore depth
L_b	=	Bar length
L_t	=	Anchor stud length
d₀	=	Nominal bore diameter
Øb	=	Bar diameter
T_{fix}	=	Fixable thickness



Calculation of bar length:

$$L_b = L_t + T_{fix}$$

ASSEMBLY SEQUENCE:



Careful cleaning of the hole before installation is recommended.

ANCHORAGE IN LOAD-BEARING BRICKWALL WITH HALF-FULL ELEMENTS

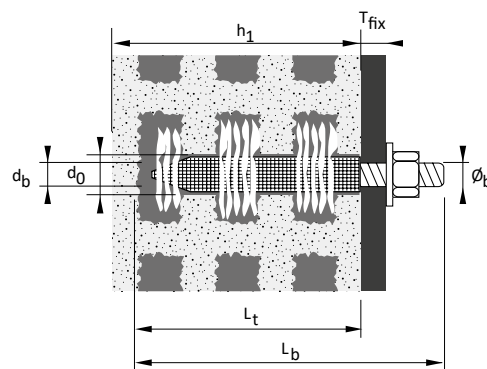
For the application of Chemical bolts on load-bearing Brickwalls with half-full elements, a special kit with code F350.23.0025V01 was developed consisting of:

- no. 16 zinc-plated Threaded bars M10x130 with 45° cut (anti-rotation);
- no. 2 CARTRIDGES of 300 ml/each of injection anchor*, usable with normal silicone guns;
- no. 2 $\varnothing 9$ mm universal mixers in addition to the 4 supplied with the cartridges;
- no. 2 $\varnothing 16$ mm Net covered bolts 1 m/cad length (to be cut to size).

* Valid for concrete, natural stone, solid and semi-filled brick elements.

Each kit is suitable for the installation of 8 Guide rails, which corresponds on average to one stop.
So, as an example, for a system of 3 stops 3 kits F350.23.0025V01 will be required, with Brackets positioned as shown in the example drawing.

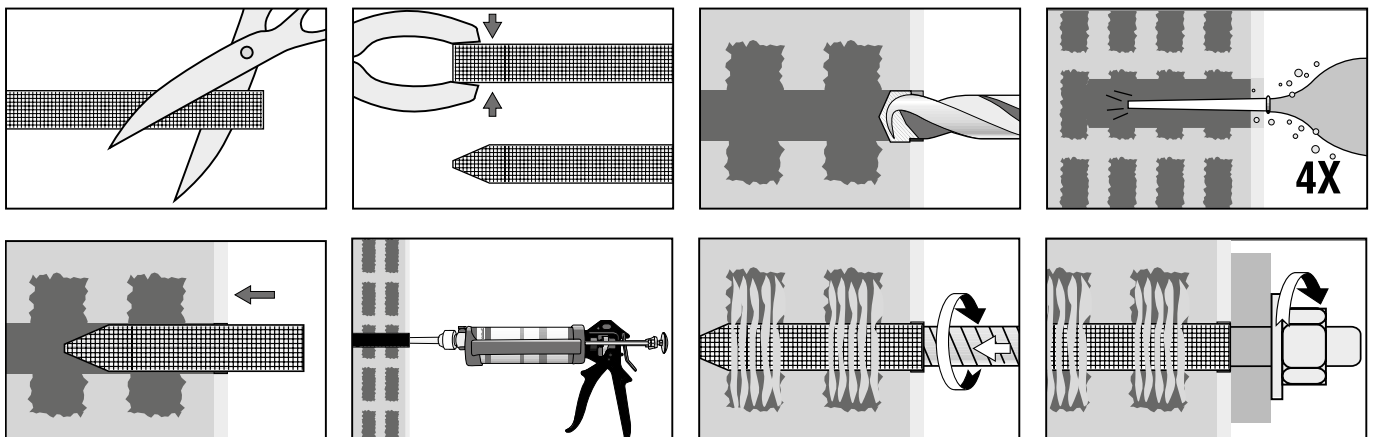
h1	=	Minimum bore depth
Lb	=	Bar length
Lt	=	Anchor stud length
d0	=	Nominal bore diameter
db	=	Nominal bush diameter
Øb	=	Bar diameter
Tfix		Fixable thickness



Calculation of bar length:

$$Lb = Lt + Tfix$$

ASSEMBLY SEQUENCE:



Careful cleaning of the hole before installation is recommended.



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