



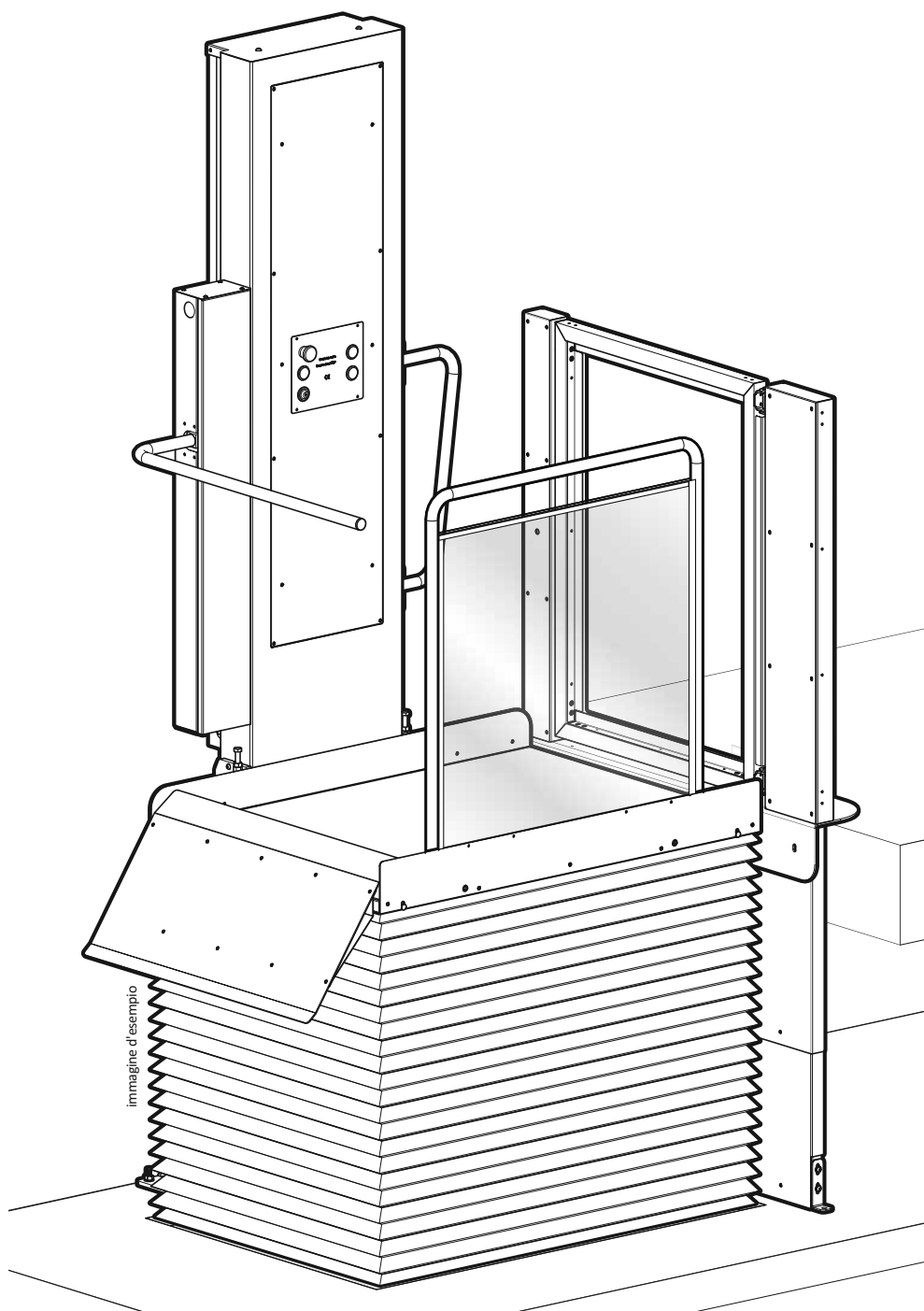
LIFTINGITALIA S.r.l.

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



domoSTEP

Hydraulic platform for small height differences



INSTALLATION AND COMMISSIONING INSTRUCTIONS



3.0	New edition	15.04.2019
2.0	General update	18.12.2018
1.3	Update pages 5, 7, 9, 13, 14, 24, 25	15.05.2018
1.2	Update page 11	01.12.2015
1.1	Update pages 5, 9, 13, 18	02.02.2015
1	Update images pg. 4, 5, 8, 20	27.02.2014
Rev.	Description	Date

INDICE

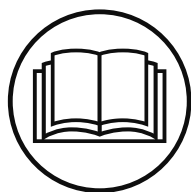
1.	INSTALLATION SITE MANAGEMENT	6
1.1.	GENERAL DISPOSITION	6
2.	PRODUCT DESCRIPTION	7
2.1.	GENERAL DESCRIPTION AND TERMINOLOGY	7
3.	BOX CONTENT - SCREWS KIT	8
4.	TOOLS AND MATERIALS REQUIRED FOR INSTALLATION	9
5.	PRELIMINARY OPERATIONS	10
5.1.	POSITIONING THE MATERIAL ON SITE	10
5.2.	PREPARATION OF THE INSTALLATION AREA	10
5.3.	PREPARATION OF THE ELECTRIC SYSTEM UPSTREAM OF THE PLATFORM	10
5.4.	A VISUAL BREAKDOWN OF THE PLATFORM AND ITS COMPONENTS	11
6.	PRELIMINARY OPERATIONS	13
6.2.	PRELIMINARY SAFETY CHECKS	13
6.1.	PRELIMINARY CHECKS OF THE MASONRY WORK AND THE INSTALLATION SITE	13
6.3.	MASONRY WORK CHECKS FOR PLATFORM WITH BELLOWS	14
6.4.	OBLIGATIONS OF THE INSTALLER	14
7.	INSTALLATION	15
7.1.	LANDING GATE PRE-ASSEMBLY	15
7.2.	LANDING GATE ASSEMBLY (if provided)	17
7.3.	INSTALLATION OF PROTECTIVE WALL and LANDING GATE (if provided)	19
7.4.	PRELIMINARY CHECKS FOR THE INSTALLATION OF THE PLATFORM	23
7.5.	PLATFORM POSITIONING AND ANCHORING	24
8.	ELECTRICAL COMPONENTS	29
8.1.	WIRING DIAGRAM	29
8.2.	UPPER AND LOWER OVER-RUN CONTACTS	29
8.3.	MOVABLE PLATFORM BASE CONTACTS (if applicable)	30
9.	SAFETY DEVICES	31
9.1.	PIT PROTECTION DEVICE (SAFE-PIT)	31
9.2.	INSTALLATION OF THE PLATFORM PARAPET (IF PROVIDED)	33
9.3.	INSTALLATION OF AUTOMATIC DROP-DOWN RAMP (if applicable)	37
9.4.	INSTALLATION OF GUIDED DROP-DOWN RAMP (if applicable)	40
9.5.	INSTALLATION OF FOOT GUARD (if applicable)	42
10.	LANDING OPERATING PANEL	42
10.1.	INSTALLATION OF ON-WALL BUTTONS	42
11.	FINAL CHECKS AND ADJUSTMENTS	43
11.1.	GENERAL CHECKS	43
11.2.	PLATFORM ADJUSTMENT	43
12.	FINAL CHECKS AND ADJUSTMENTS	44
13.	NOISE OF THE PLATFORM	44
	Attachment.1 ANCHOR BOLTS USAGE INSTRUCTION	45



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

	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.

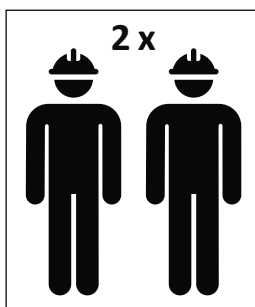
NOTE: In this manual, we will talk about "SHAFT" meaning for it the base slab, the slab of landing and the vertical wall that connects its slabs.



CAUTION

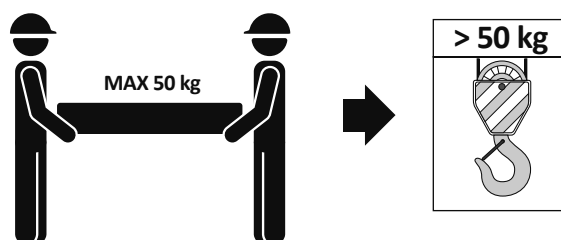
SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:

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.





2. PRODUCT DESCRIPTION



2.1. GENERAL DESCRIPTION AND TERMINOLOGY

The domoSTEP platform lift is a platform for lifting people or people and objects, designed exclusively for installations with a maximum travel of:

- 1 m, for domoSTEP 100 systems;
- 1,60 m, for domoSTEP 160 systems.

The platform **1** is moved by the hydraulic piston **2** positioned on the axis with the metal guides integrated in the fixed part **3**. The piston is driven by the hydraulic power unit **4** controlled by the electric panel **5**, both housed inside the fixed part.

In the case of systems with pit **6**, a protective bellows **7** is needed in place of the movable platform bottom **8** to avoid crushing and/or shearing while in motion. The electric panel also manages all the system controls and manoeuvres.

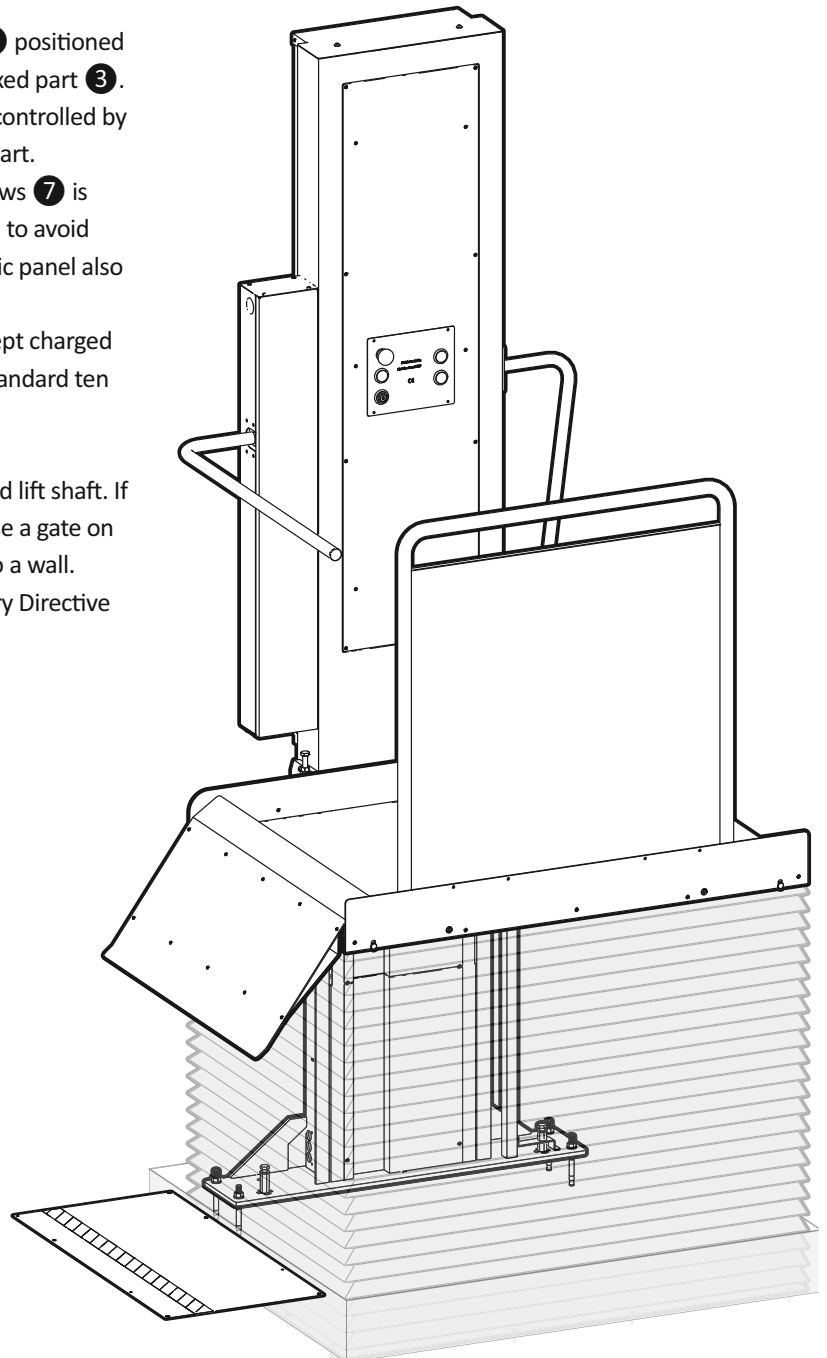
The batteries **9** power the electric panel and are kept charged by the power supply that can be connected to any standard ten ampere residential socket.

The domoSTEP platform does not require an enclosed lift shaft. If the travel is greater than 500mm, it is advisable to use a gate on the upper landing floor and secure the fixed tower to a wall.

The domoSTEP platform complies with the Machinery Directive 2006/42/EC.

Other parts of the platform:

- 10** Column
- 11** Operating panel
- 12** Fixed handlebar
- 13** Automatic protection bar
- 14** Fall-arrest-ramp
- 15** Parapet



LIFTINGITALIA S.r.l. aims to continuously improve its products and therefore technical specifications can be subject to change without prior notice or commitment.



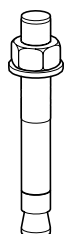
INFORMATION

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 F320.23.0001

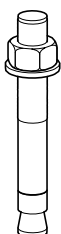
COLUMN FLOOR-FIXING KIT



4 x M12x90

KIT F320.23.0002

COLUMN FIX. KIT FOR TRAVELS > 500mm



2 x M12

2 x M12x200

KIT F320.23.0003

SKIRTING FIXING KIT



4 x
M4x12



4 x
M4

KIT F320.23.0007

TIP-UP RAMP FIXING KIT



7 x
M4x30

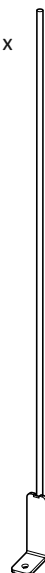


4 x
M6x16

KIT F320.23.0010

TIE FIXING KIT

2 x



1 x



4 x M10x30

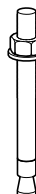


4 x Ø10
4 x Ø14



4 x M10
4 x M14

2 x



4 x M10x90

KIT F320.23.0004

BELLOWS FIXING KIT



7 x
M4x30



7 x
Ø6-Ø18

KIT D004.23.0001

MONTAGGIO CANCELLETTO



8 x
M6x25

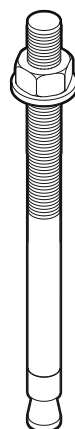


8 x
M6

7 x
M8x90

KIT F320.23.0008

GATE WITH ANTI-SHEARING WALL'S FIXING KIT



4 x
M10x100



8 x
M8x20



4 x
M6x20



7 x
M6



14 x
Ø6



14 x
Ø6

KIT F320.23.0013

BELLOWS COUPLING KIT



7 x
M6x30



7 x
M6



14 x
Ø6



14 x
Ø6

KIT F320.23.0005

PARAPET FIXING KIT



8 x M8x30



8 x Ø8

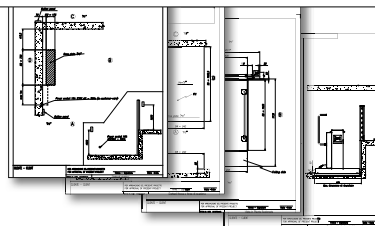


8 x Ø8



8 x M8

LAYOUTS



INFORMATION

4. TOOLS AND MATERIALS REQUIRED FOR INSTALLATION

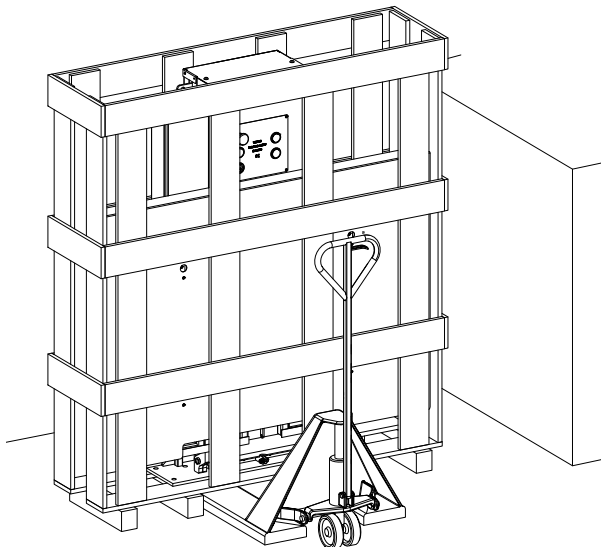
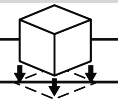


Hammer		Tape measure		Spirit level		Scissors for electricians	
Rubber hammer							
Flat-blade screwdriver		Spanner CH 5 ÷ 27 mm 2 each size		Ratcheting ring spanner S 13 ÷ 19 mm			
Phillips screwdriver		Socket wrench CH 5 ÷ 27 mm		Allen key with ball end CH 2,5 ÷ 8 mm			
Adjustable pliers		Portable lamp		Manual hoist, load ≥ 250 kg, length ≥ 3 m		Lifting belts, load ≥ 250 kg, length ≥ 2 m	
Drill		Screwdriver CH 6 ÷ 19 mm		Corner grinder		· cutting disks · metal grinding disks	
for Brickwork CH 6 ÷ 22 mm Metal CH 2 ÷ 13 mm							
Chronometer		Digital multi-meter		Insulating tape		Plumb bob	
Transpallet							
Rivetting machine for thread inserts		Pliers for rings					



5. PRELIMINARY OPERATIONS

5.1. POSITIONING OF MATERIAL ON SITE



NOTICE

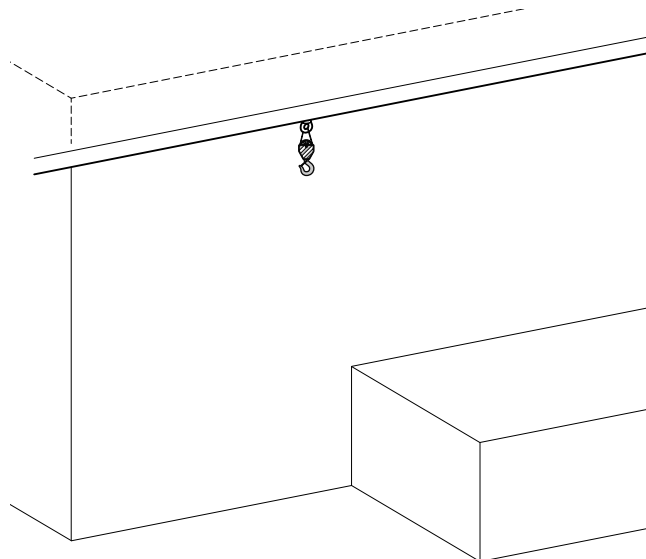
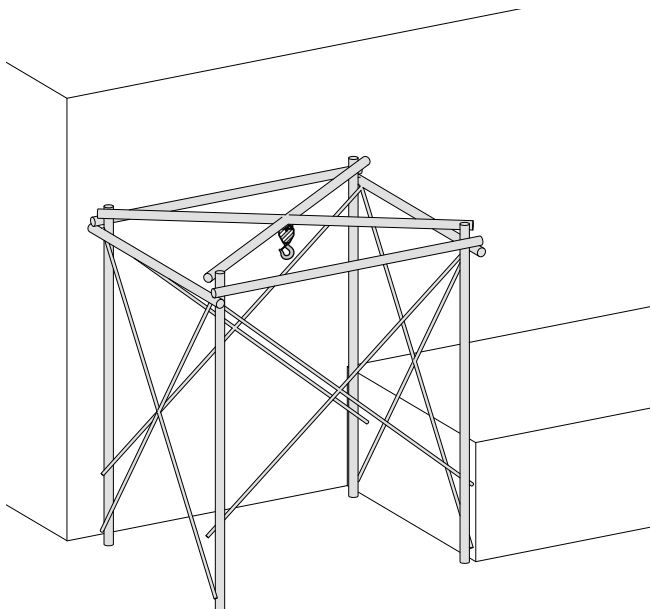
MATERIAL POSITIONING:

It is important to position the material correctly on the installation site as once the scaffold has been assembled it may become difficult to handle certain components, with the risk of injury and damage to the materials.

All material should be positioned close to the lower landing.
It is recommended to use a pallet truck or stair climbing trolleys to handle material until installation.

5.2. PREPARATION OF THE INSTALLATION AREA

To place the platform in its place of operation, a special lifting hook (minimum capacity 250 kg for domoSTEP 100, 400 kg for domoSTEP 160) must be attached to an anchor fixed to the ceiling or a tripod frame (temporary scaffolding) with the appropriate mechanical strength for lifting the load.



immagini d'esempio NON VINCOLANTI

5.3. PREPARATION OF THE ELECTRIC SYSTEM UPSTREAM OF THE PLATFORM

INFORMATION

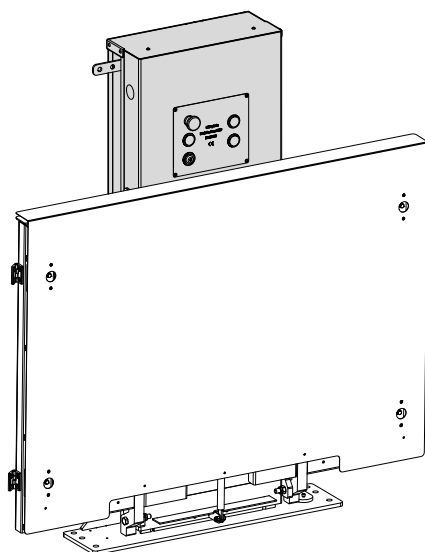
Connect the platform's electric panel to a standard residential 230Vac, 50Hz, 10A socket to power the domoSTEP platform.

It is advisable to arrange a dedicated power line for this outlet, protected by a 6 - 10 A magnetic circuit breaker.

5.4. A VISUAL BREAKDOWN OF THE PLATFORM AND ITS COMPONENTS

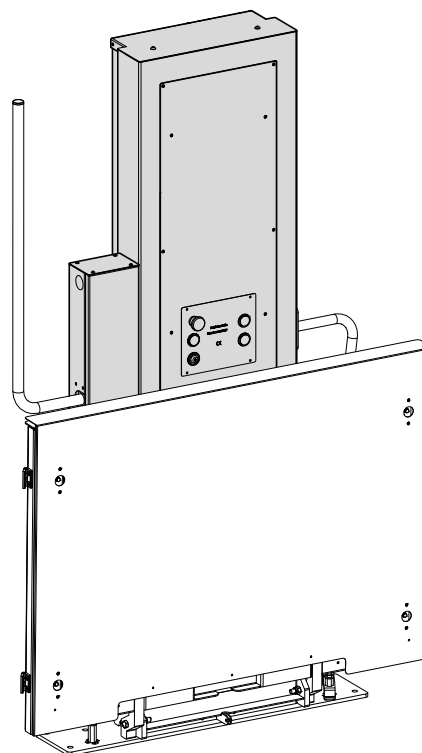
domoSTEP 100

100

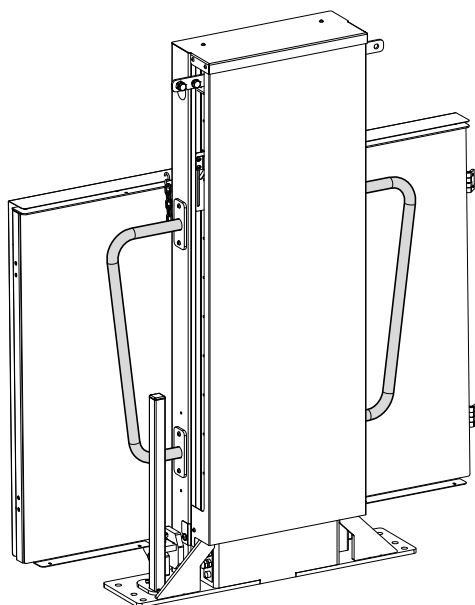


domoSTEP 160

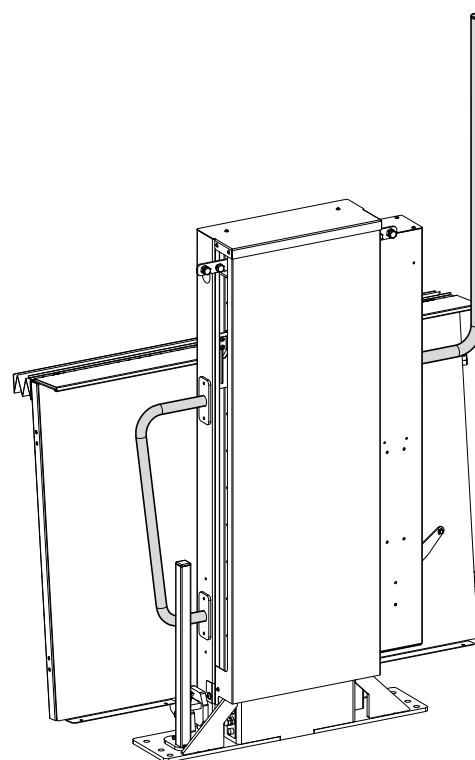
160



MANUAL

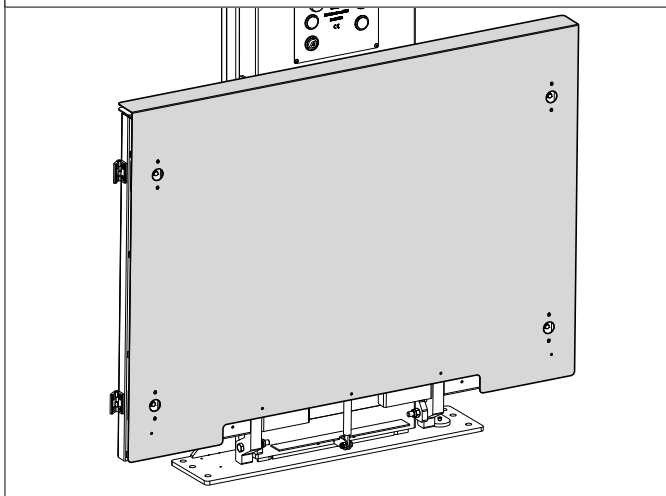


AUTOMATIC

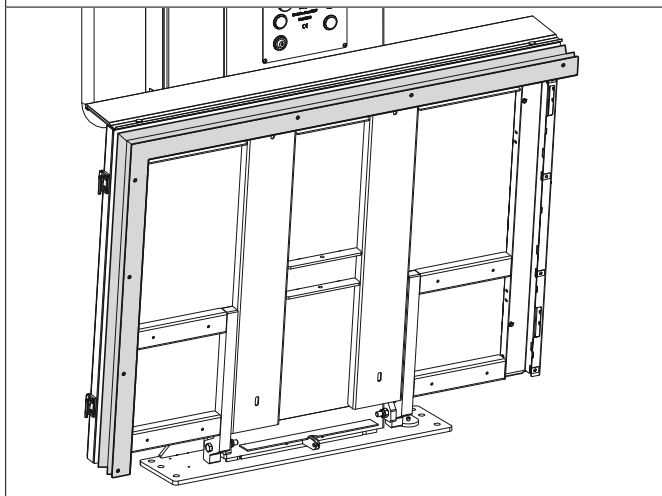




MOVABLE PLATFORM BASE

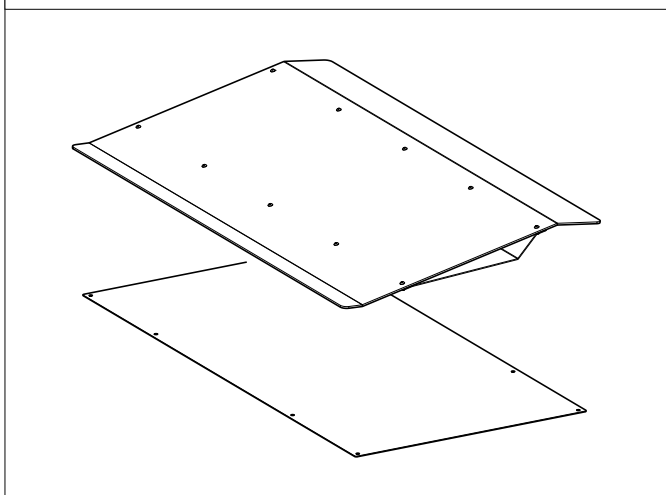


BELLOWS

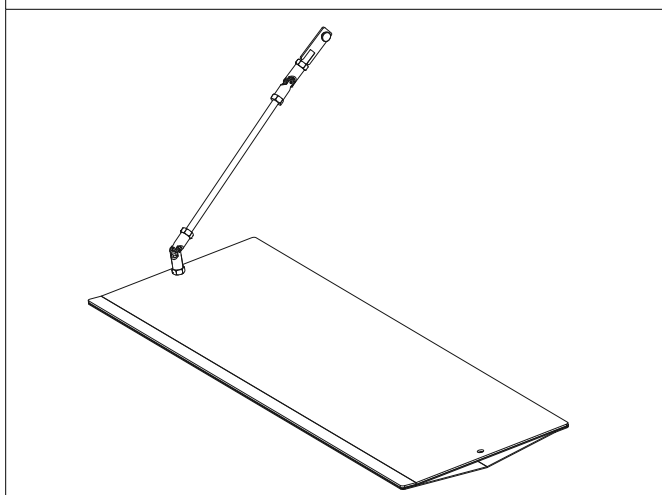


COMPONENTS NOT PRE-INSTALLED

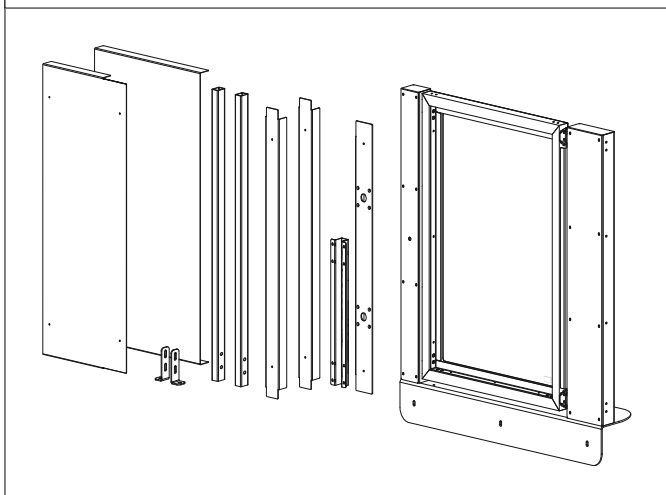
AUTOMATIC DROP-DOWN RAMP (if applicable)



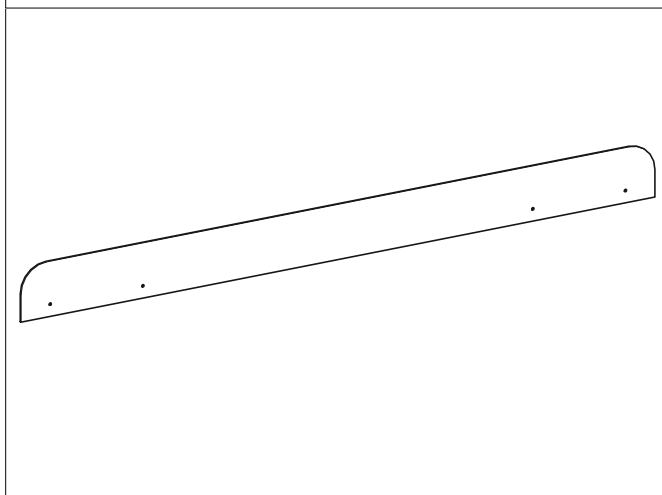
GUIDED DROP-DOWN RAMP (if applicable)



GATE and ANTI-SHEARING PANEL (optional)



FOOT GUARD (if applicable)





6. PRELIMINARY CONTROLS



6.2. 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;

6.1. PRELIMINARY CHECKS OF THE MASONRY WORK AND THE INSTALLATION SITE

NOTICE

BEFORE STARTING THE INSTALLATION, CHECK THE MEASUREMENTS AND COMPARE THEM WITH THOSE WHICH CAN BE DETECTED BY THE PROJECT DRAWS:

SHAFT: general check procedures.

- Lift shaft structure must be compliant to national laws about buildings subject in order to bear strenghts produced by lifting platform during its employment.
- On project design biggest loads charging the shaft are specified.

The shaft must have the following features:

- Walls must be plastered in full height;
- Temperature range between +5 and +40°C;
- Opposite area free and accessible according to design instructions;
- Passages and canalization for electric and oleodynamic lines;;

Shaft vertical dimension: check procedures. The following dimensions must be checked:

- Travel
- Headroom
- Pit (in case of bellows)
- Small gate opening (when present on upper floor)
- Plumbing
- The dimensions must be compliant with the project drawings (shaft section)

Plan shaft dimension: check procedures. The following dimensions must be checked:

- Width
- Depth
- Square
- Small gate position (when present on upper floor)
- The dimensions must be compliant with the project drawings (shaft plan).



6.3. MASONRY WORK CHECKS FOR PLATFORM WITH BELLOWS

Checks are required for all masonry works listed above (par. 5.2), as well as:

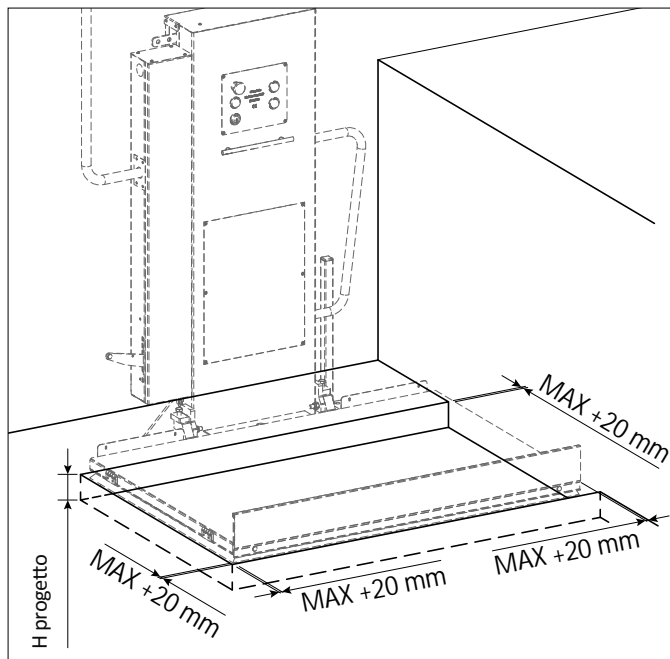
PIT VERTICAL AND CROSS-SECTION measurement checks.

Check that the pit has the following characteristics:

- depth for domoSTEP 100 = 85 mm;
- depth for domoSTEP 160 = 180 mm;

Surface verification:

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



6.4. 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



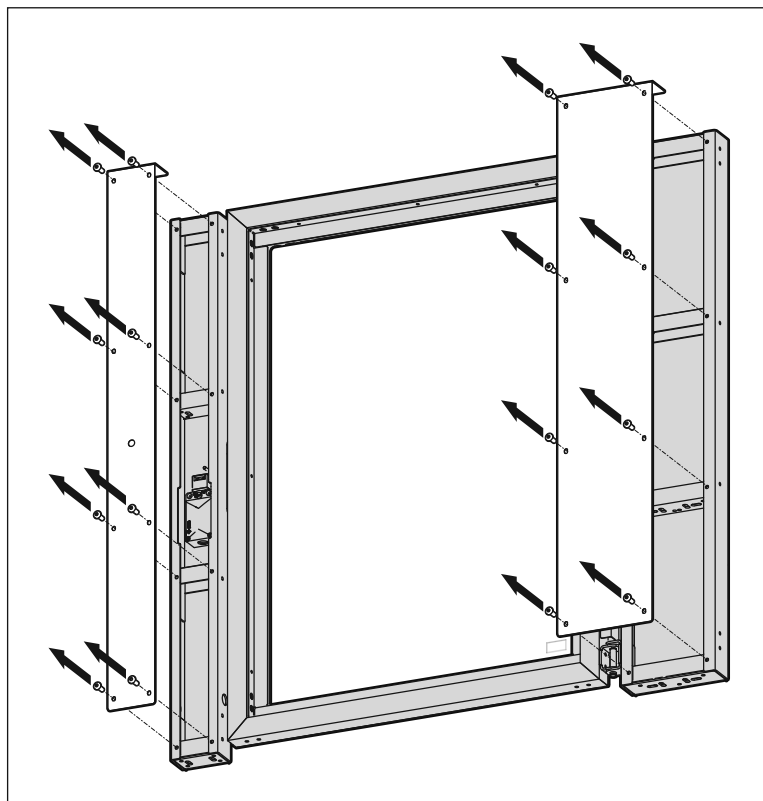
7. INSTALLATION



7.1. LANDING GATE PRE-ASSEMBLY

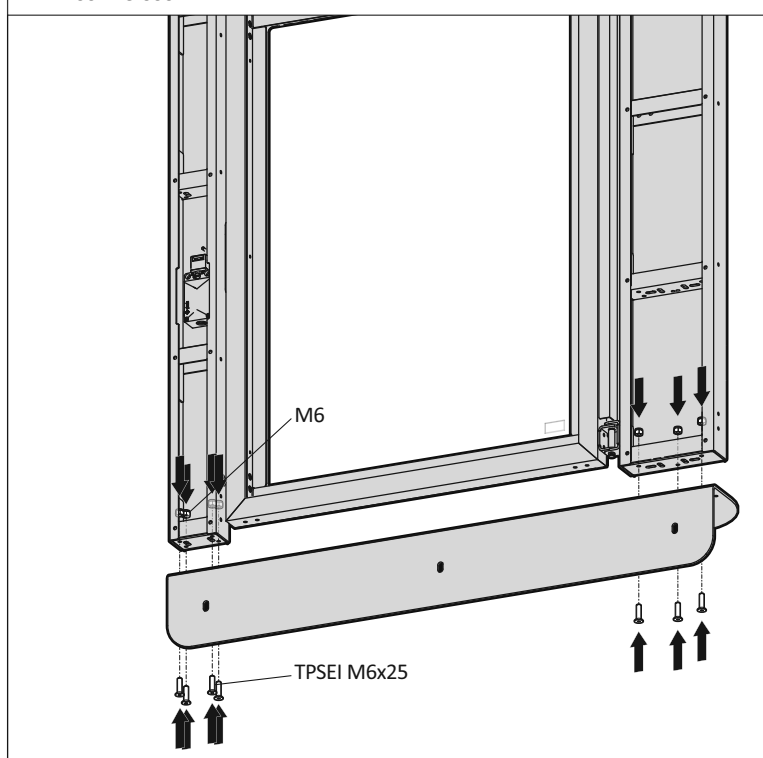
- Remove the covers from the pillars of the gate

INFORMATION	
	<p>Keep the screws. They will be used later for reassembly.</p>



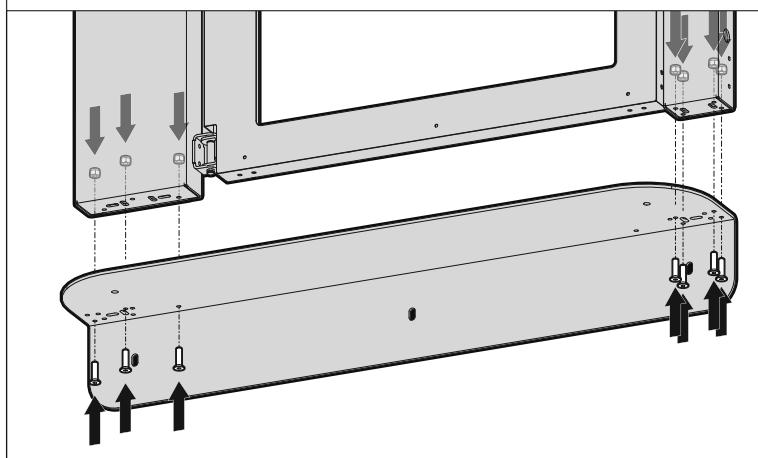
- Fix the pillars using the screws provided in the kit.

KIT D004.23.0001



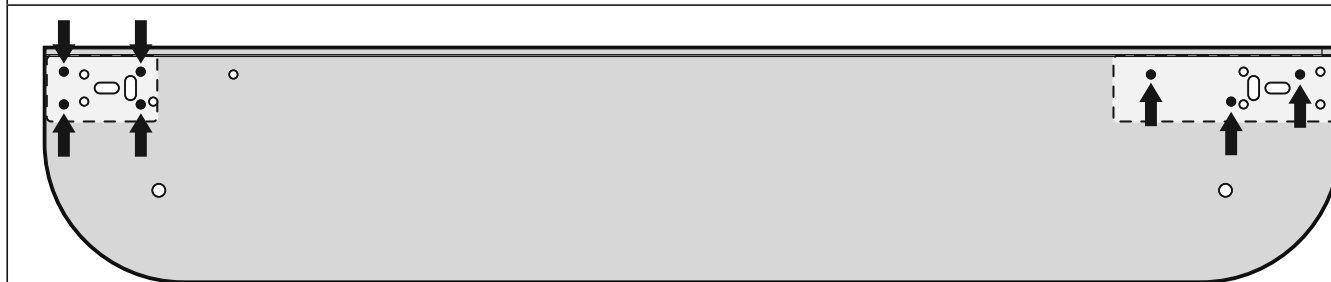


KIT D004.23.0001

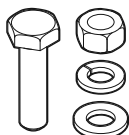


INFORMATION

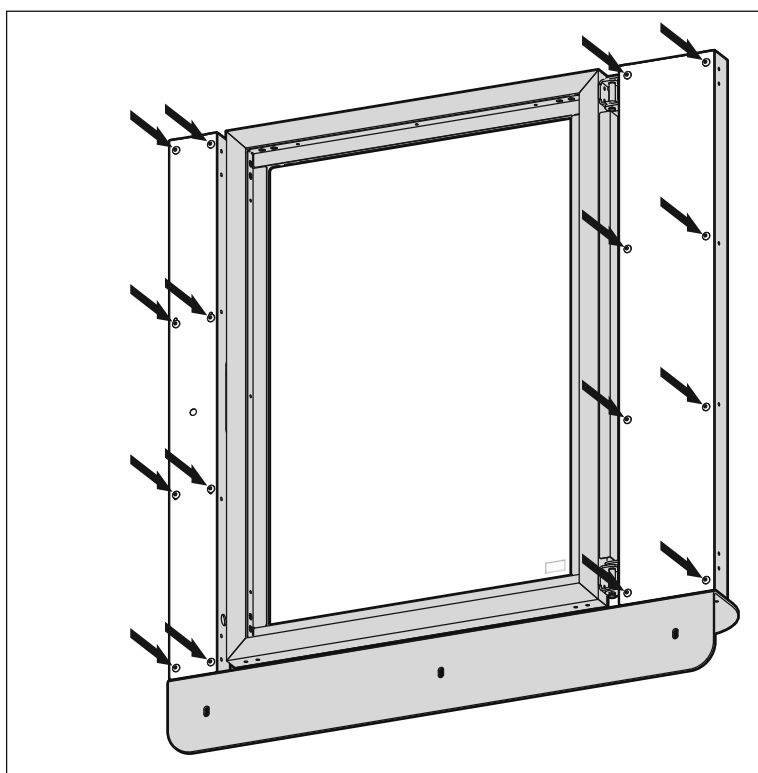
Positions of the screws for fixing the posts of the gate (KIT D004.23.0001).



INFORMATION

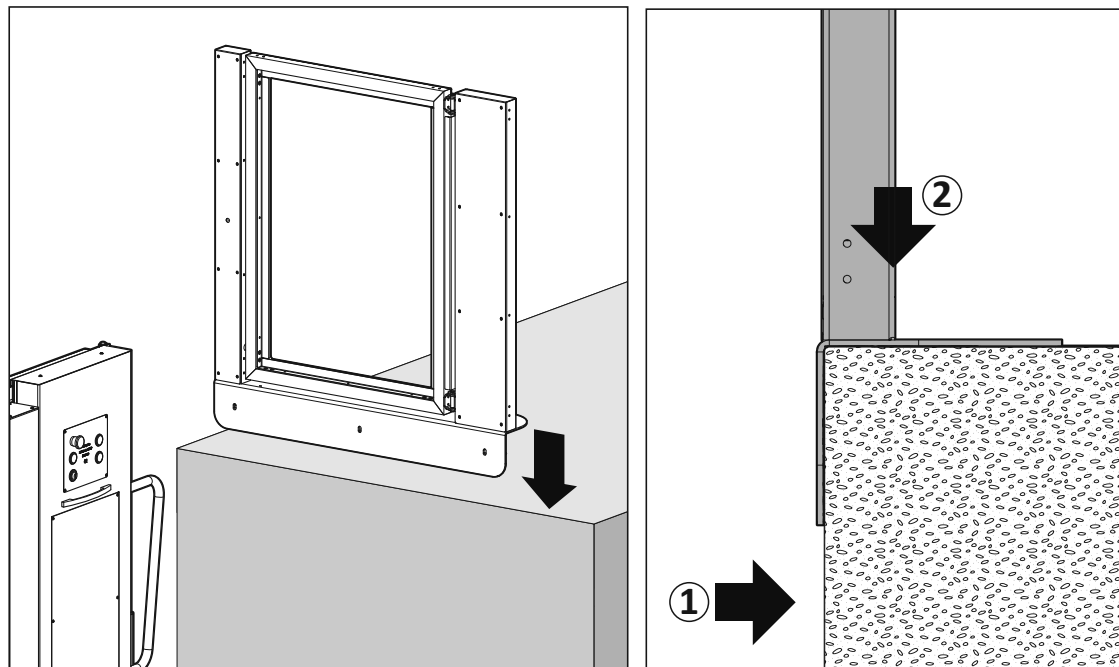


Screw the sleeves back on using the screws previously put to one side.

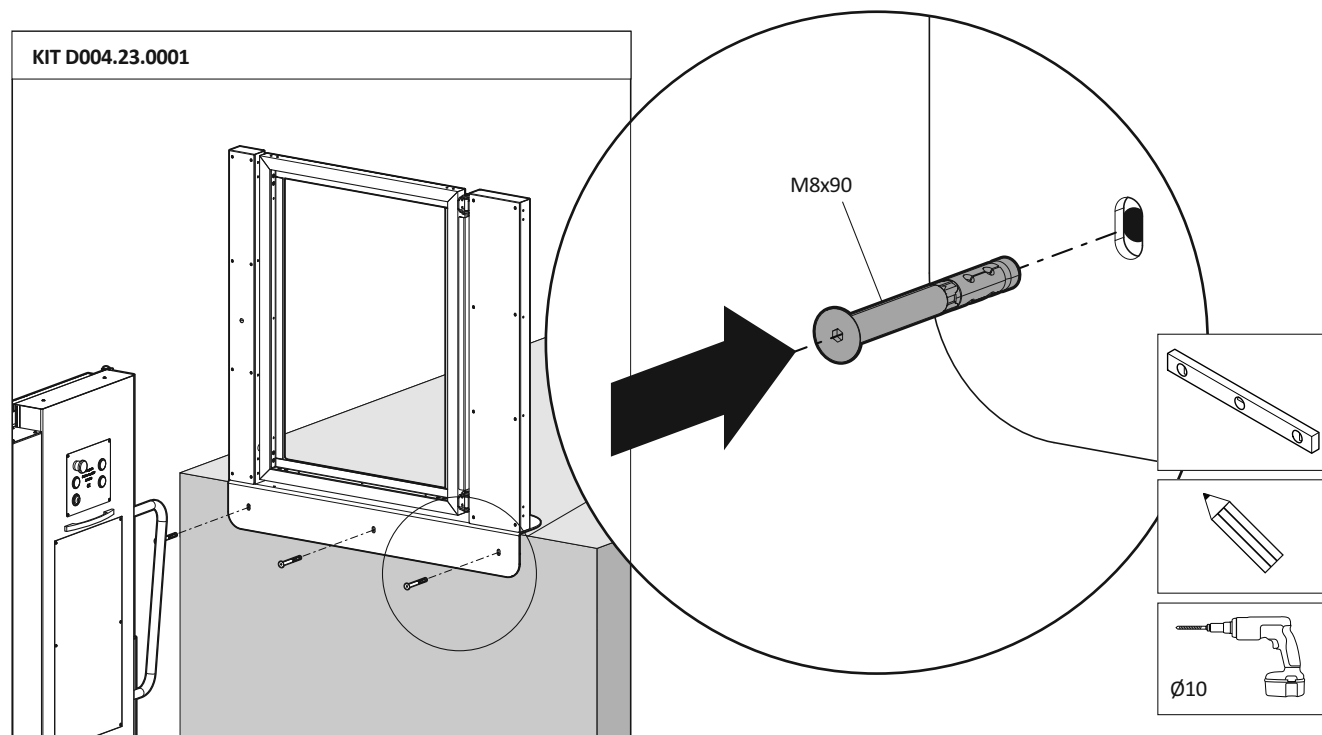


7.2. LANDING GATE ASSEMBLY (if provided)

- Position the gate flush with the existing wall, following the project.

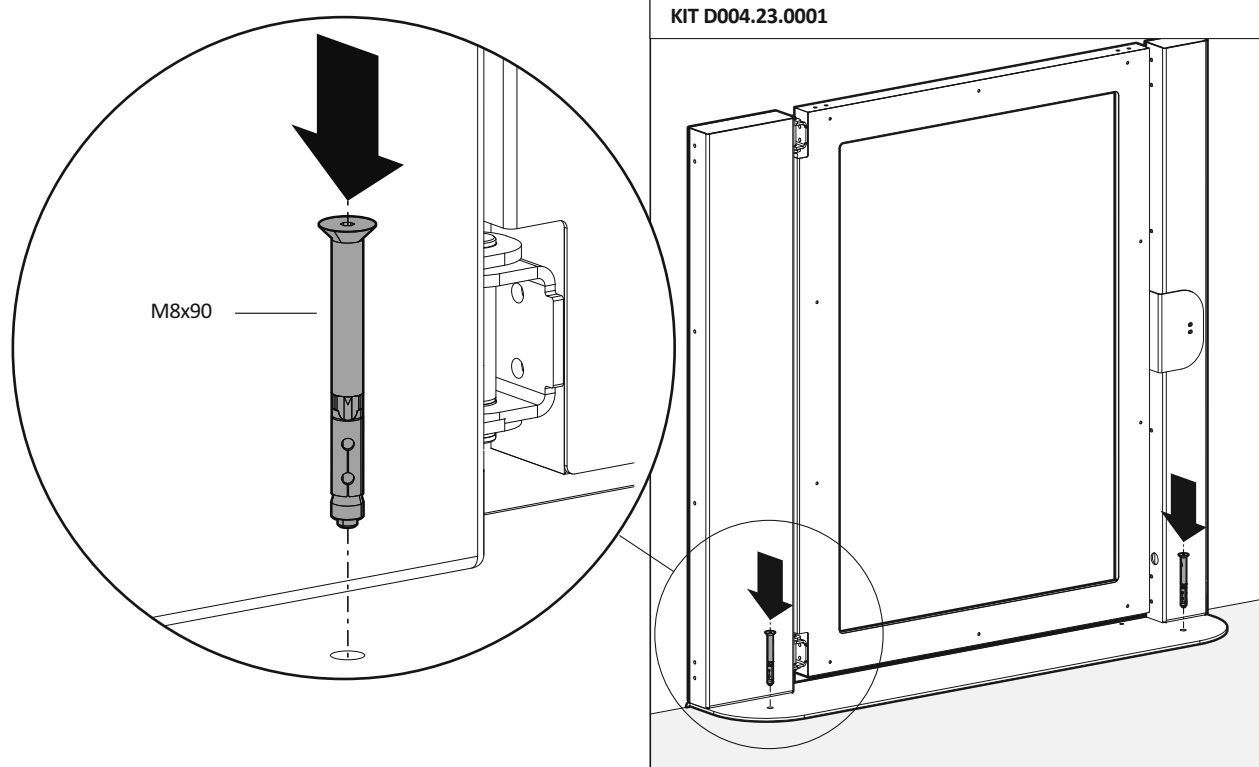


- Position the preassembled gate following the project drawing the dimensions for the positioning.
- Check that the gate is level.
- Anchor the gate frontally with the special countersunk head plugs.

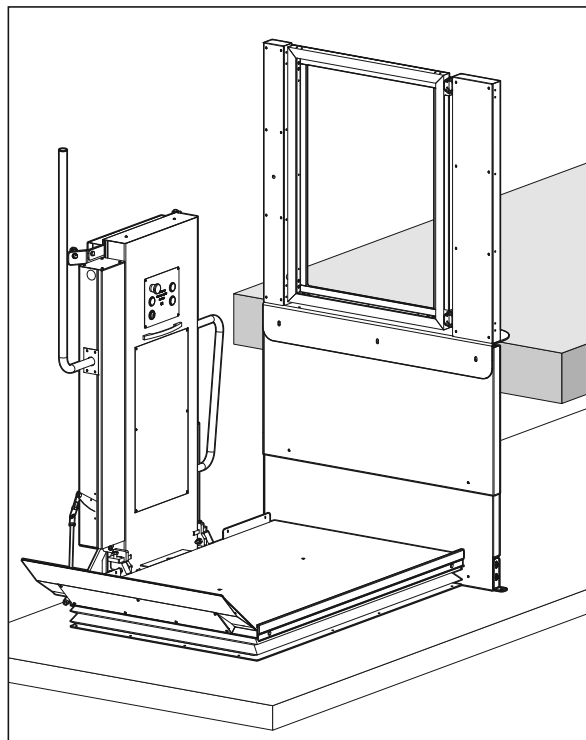




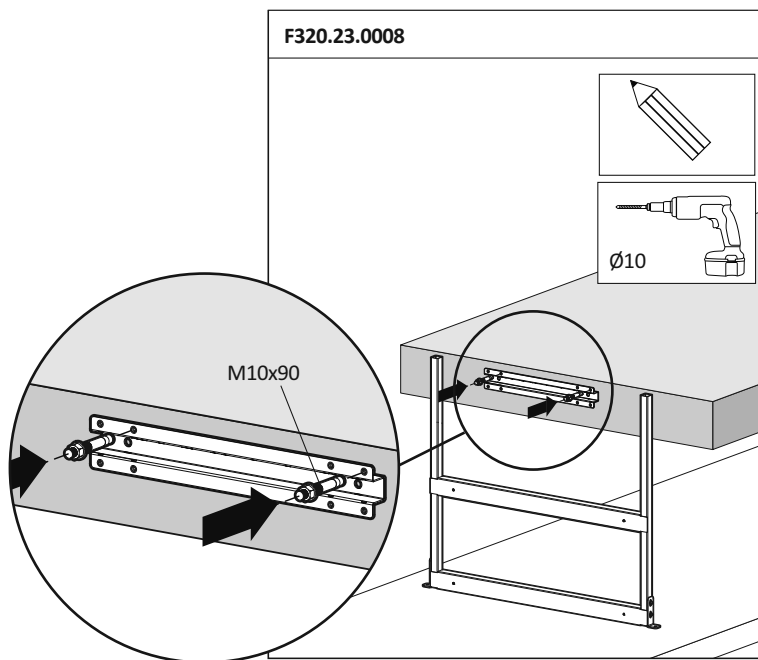
- Anchor the gate on the top of the masonry slab with the provided dowels.



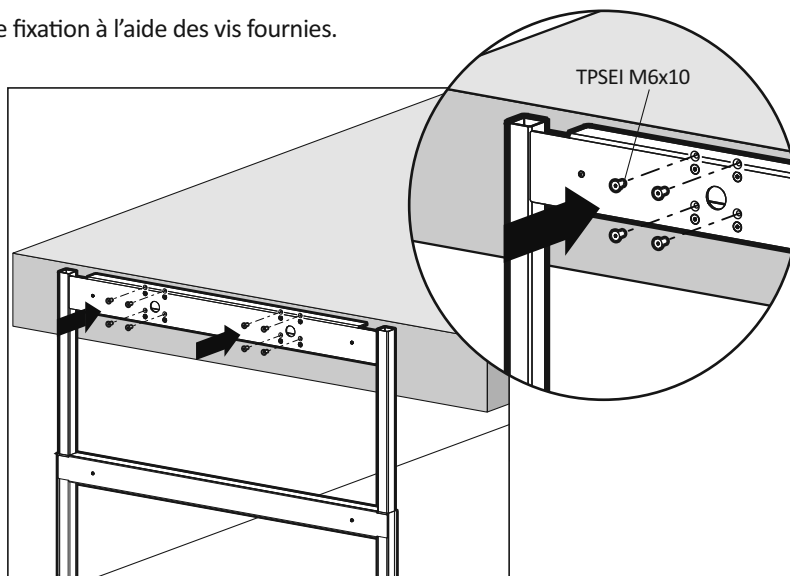
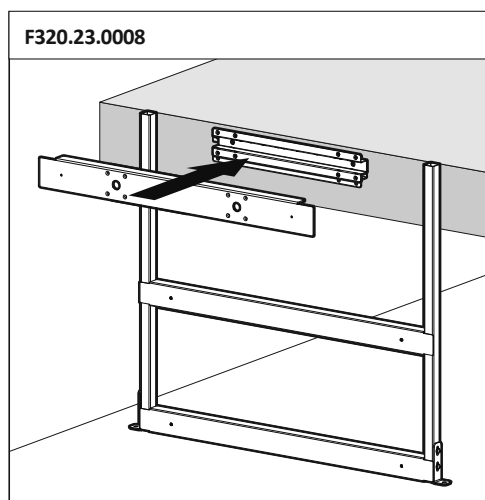
7.3. INSTALLATION OF ANTI-SHEARING WALL and LANDING GATE (if provided)



- Position the fixing bracket, mark and drill the masonry slab.
- Anchor the bracket using the special dowels provided in the kit.

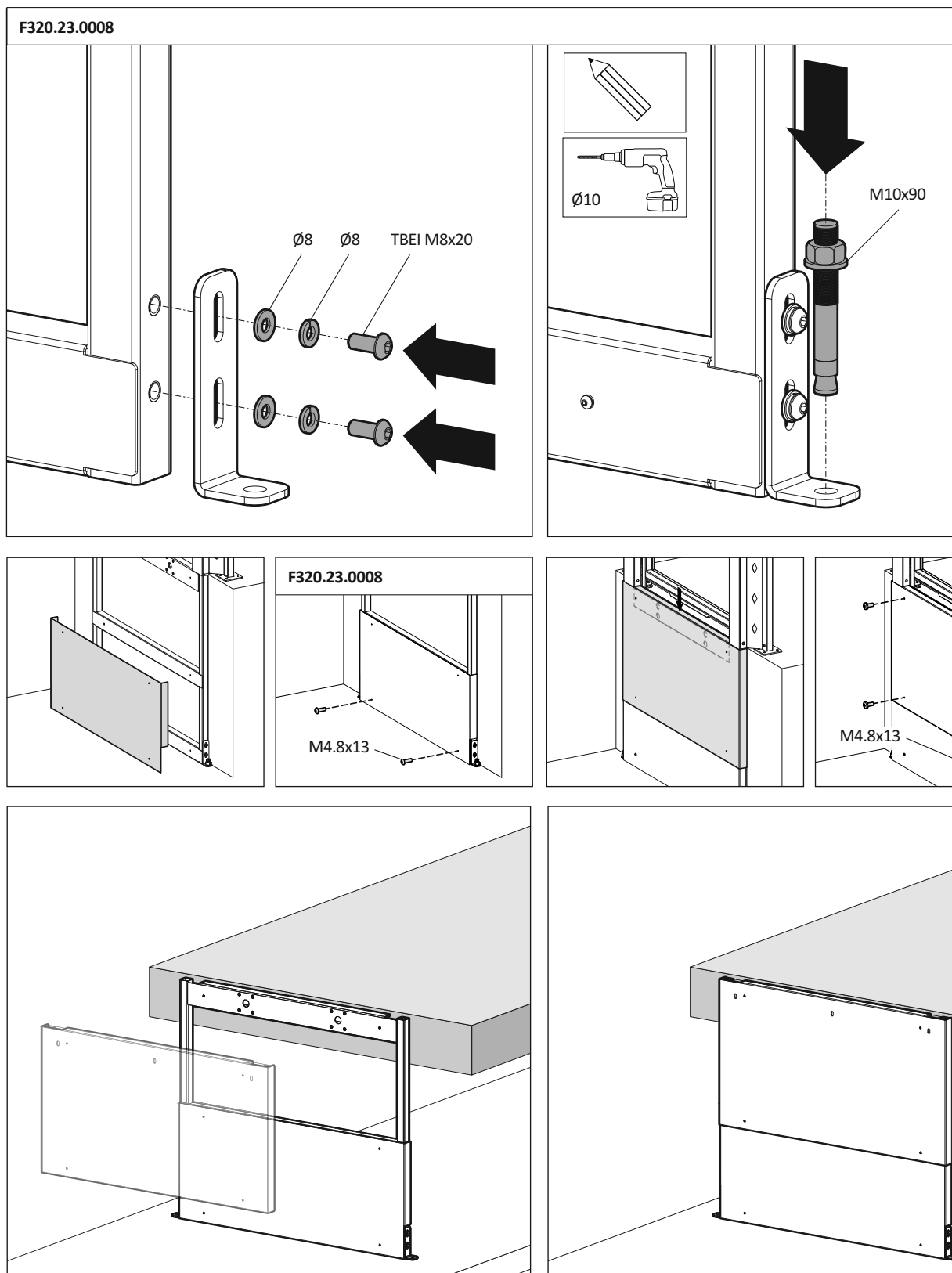


- Fixer la barre de protection sur le support de fixation à l'aide des vis fournies.





- Fix the bracket to the anti shearing wall using the screws supplied.
- Anchor to the ground with the supplied anchors.

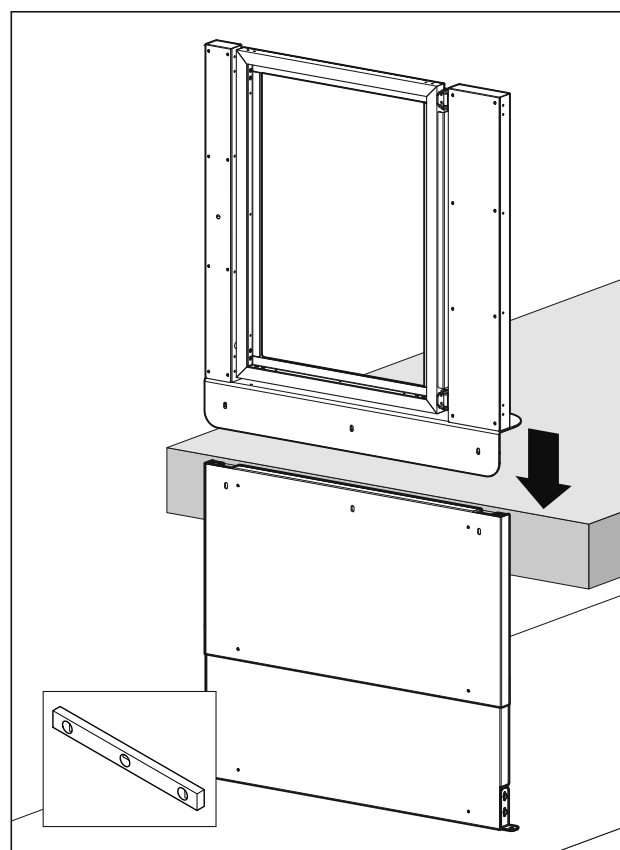
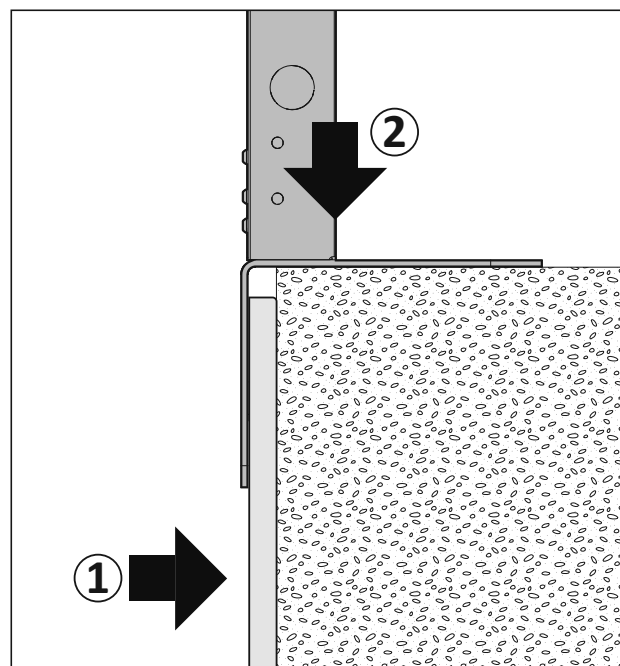


- Position the preassembled landing gate on the anti shearing wall (the panels slide one inside the others) and place it on the installation point.

INFORMATION

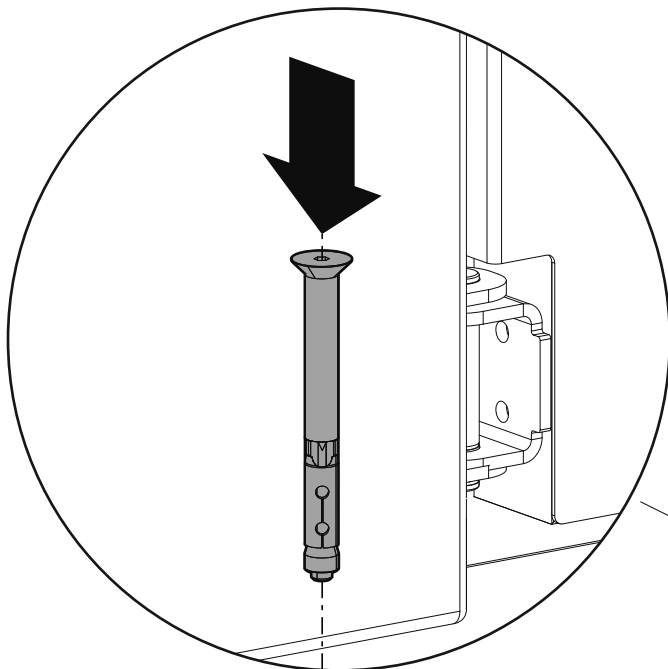
Check the dimensions for positioning the gate on the project drawing.

- Check (with the spirit level) that the gate is horizontal.

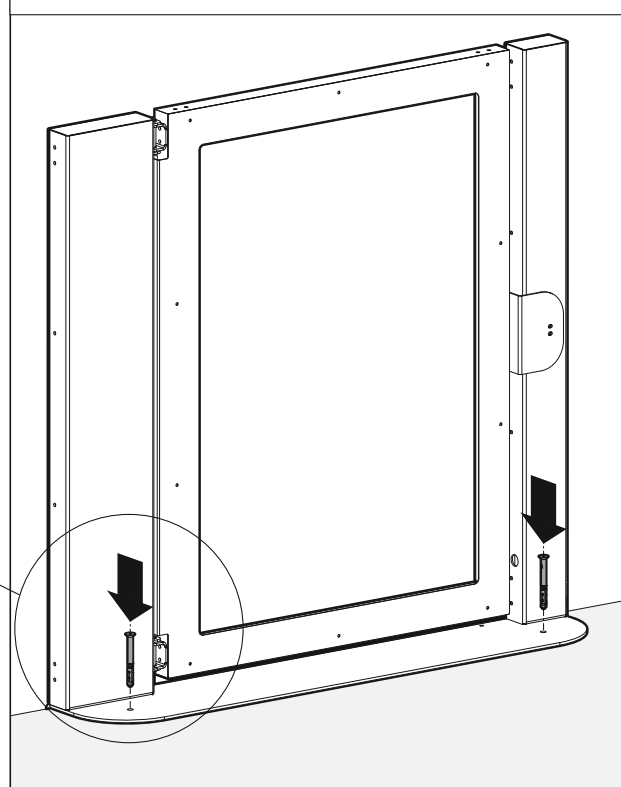




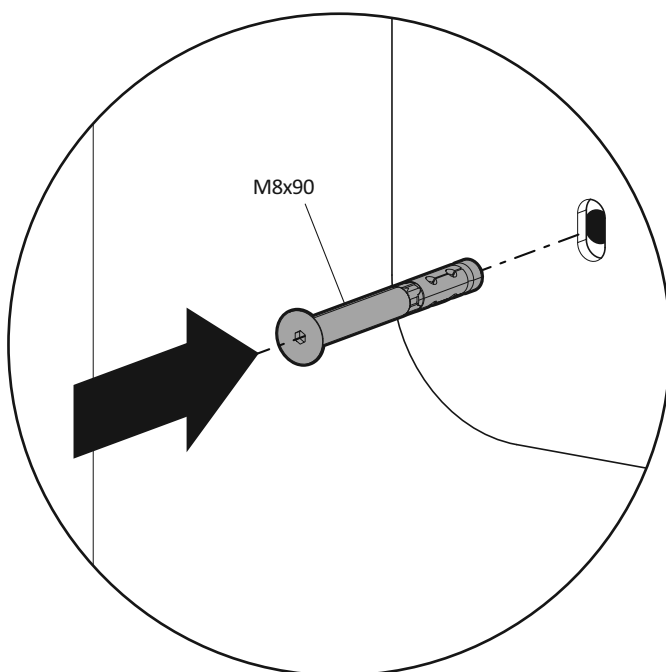
- Anchor the gate on the top of the masonry slab with the provided dowels.



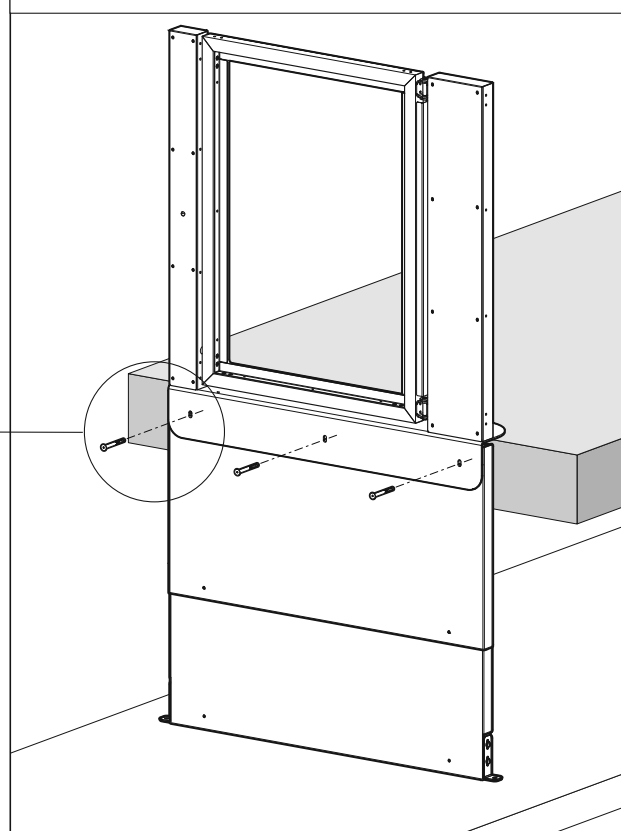
KIT D004.23.0001



- fasten to the protection wall

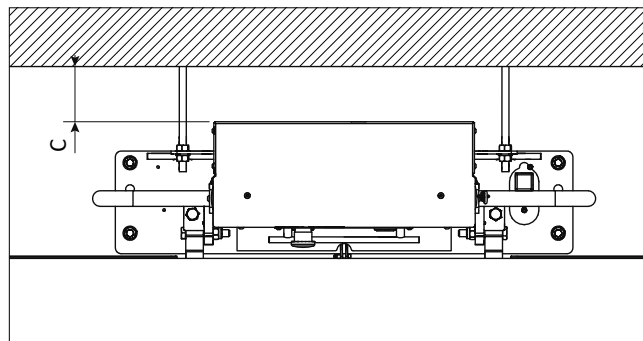


KIT D004.23.0001



7.4. PRELIMINARY CHECKS FOR THE INSTALLATION OF THE PLATFORM

- Check distance “c” with the design plans.



WARNING

CRUSHING BY MOVING PARTS:

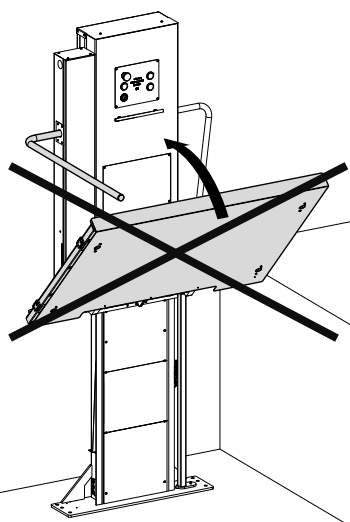
Before performing any manoeuvre or installation on the platform, it is necessary that it is secured to the ground and to the wall (if required) according to the project, to ensure operator safety and to avoid damage to the platform.

HANDLING OF COMPONENTS:

everything that exceeds 50kg must be handled with adequate means and in accordance with the law.

Refer to the manual “SAFETY INSTRUCTIONS AND SITE MANAGEMENT”.

NOTICE



RISK OF PRODUCT DAMAGE:

For automatic machines, do not close the platform with the anti-fall bar lowered.

If the anti-fall bar is lowered, do not close the platform. The system may be damaged.

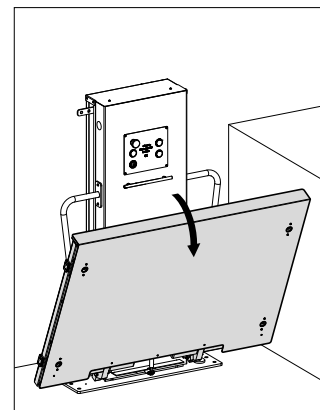
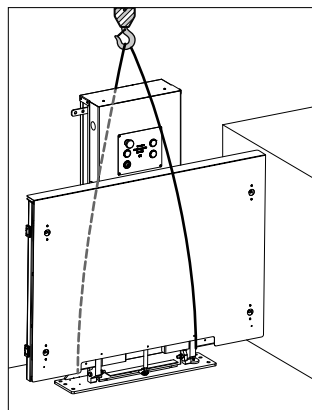
INFORMATION

AN EXAMPLE” version is shown below, pictures are indicative. Unless otherwise stated, what is presented is valid for all configurations.

**7.5. PLATFORM POSITIONING AND ANCHORING****domoSTEP 100 - CASE 1: 0 ÷ 65 mm****100****NOTICE**

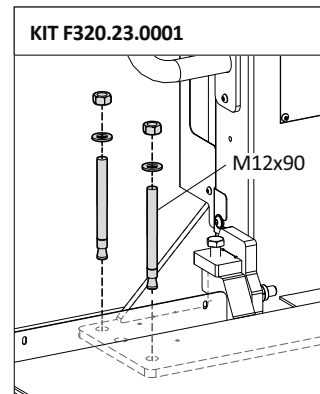
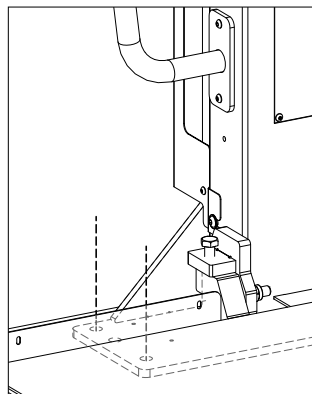
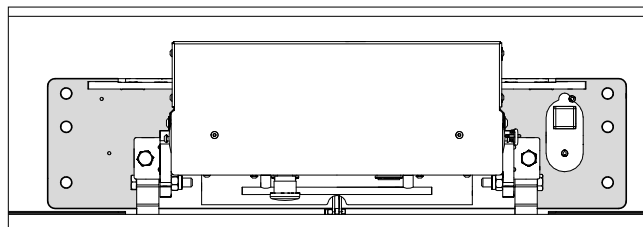
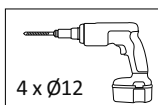
Handle the platform carefully and use suitable lifting devices (hoist, etc.) to avoid damaging the product.

- Position the platform according to the design using the pulley;
- Release the fastenings holding the platform and open it;

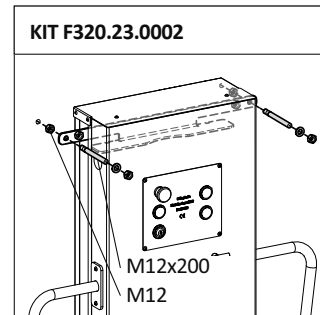
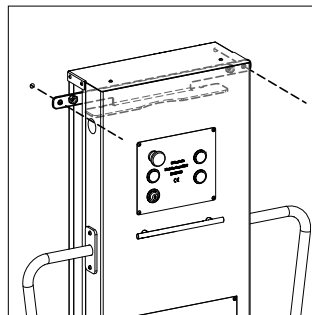
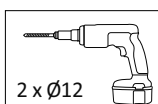
**INFORMATION****FIXING TO THE GROUND:**

The fixing base has 6 holes: use the 4 holes in the corners but, if this is not possible, use the 2 additional holes on the base;

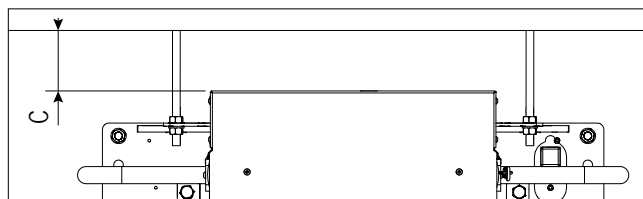
- Drill through the fixing base into the pit;
- Insert the anchoring plugs and secure the platform.

**FOR SYSTEMS WITH A TRAVEL > 500 mm**

- Drill through the bracket into the wall;
- Insert the anchoring plug screw with the lock nut;
- Secure the anchoring plug;



- Adjust the distance so that it is as indicated on the design plan using the nut and lock nut.



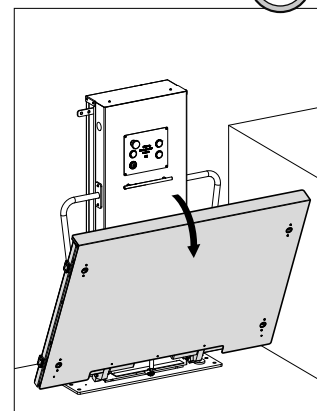
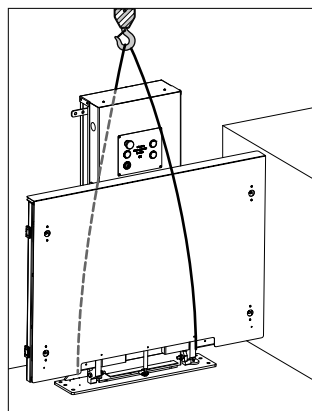
domoSTEP 100 - CASE 2: C > 65 mm

100

NOTICE

Handle the platform carefully and use suitable lifting devices (hoist, etc.) to avoid damaging the product.

- Position the platform according to the design using the pulley;
- Release the fastenings holding the platform and open it;

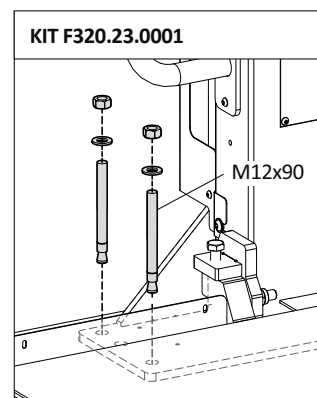
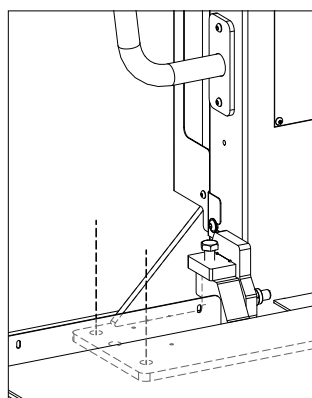
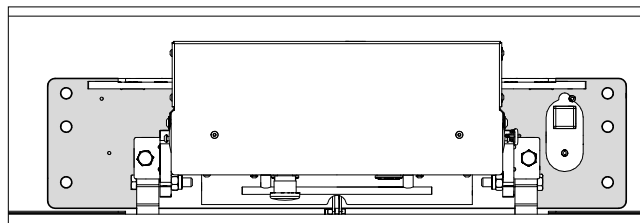
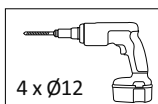


INFORMATION

FIXING TO THE GROUND:

The fixing base has 6 holes: use the 4 holes in the corners but, if this is not possible, use the 2 additional holes on the base;

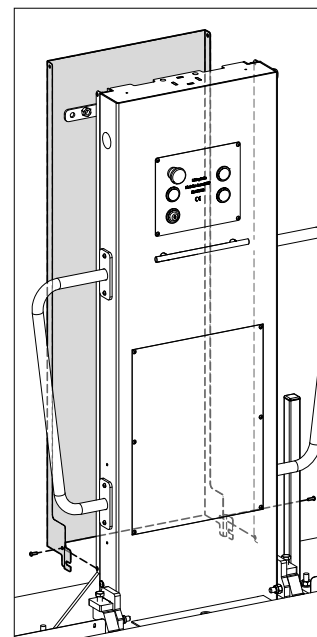
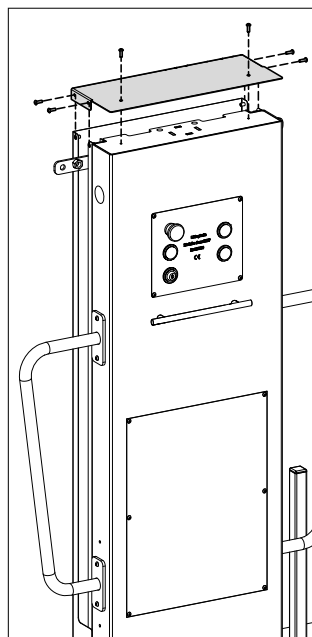
- Drill through the fixing base into the pit;
- Insert the anchoring plugs and secure the platform.



- Temporarily remove the top cover and rear casing;

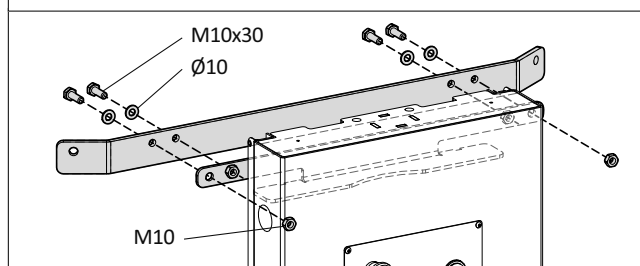
INFORMATION

Put the screws to on side as they will be used for reassembly.

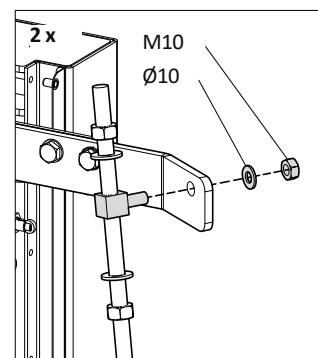
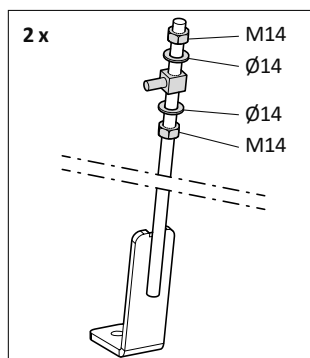




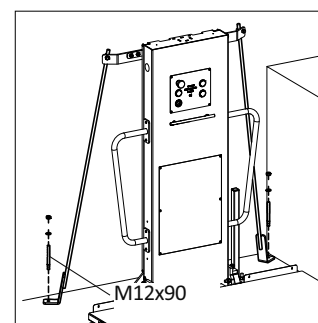
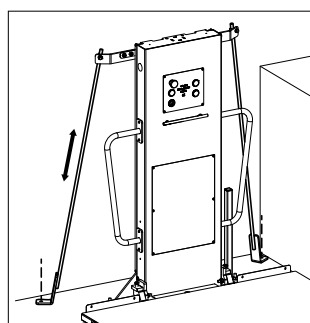
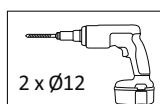
- Mount the tie-rod clamping bracket onto the pre-welded nut;

KIT F320.23.0010

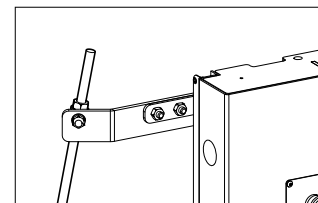
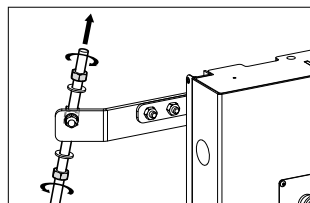
- Pre-mount the block on the tie-rod;
- Screw the block to the bracket;



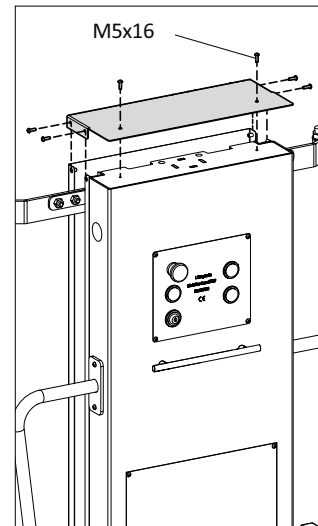
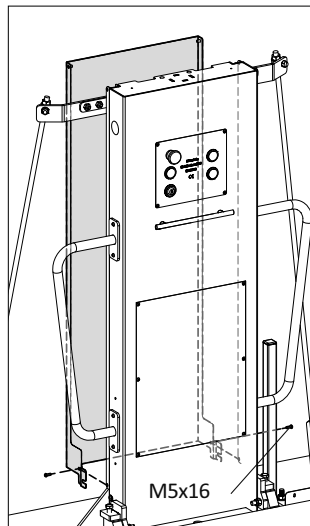
- Mark the reference points and drill the holes;
- Screw in the anchoring plugs;



- Secure and tighten the tie-rods;



- Replace the rear casing and top cover using the screws previously removed and put to one side.



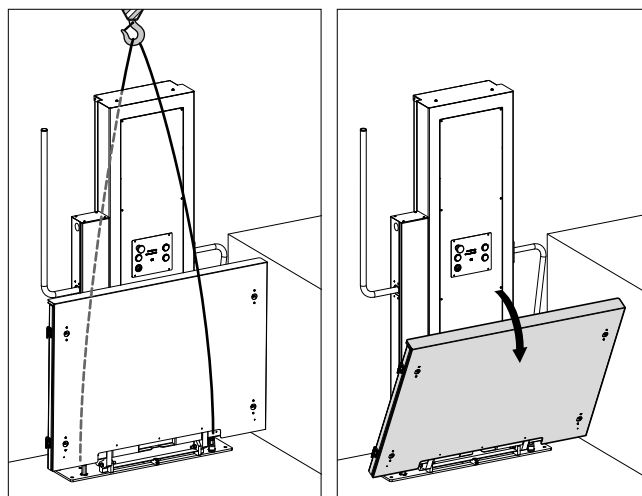
domoSTEP 160 - $C \leq 20$ mm

160

NOTICE

Handle the platform carefully and use suitable lifting devices (hoist, etc.) to avoid damaging the product.

- Position the platform according to the design using the pulley;
- Release the fastenings holding the platform and open it.

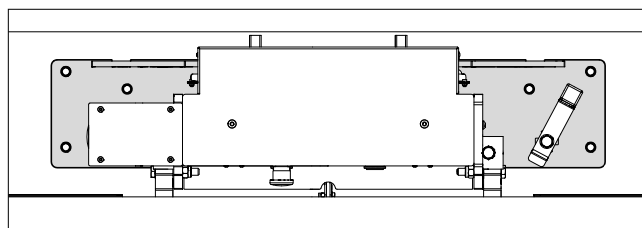
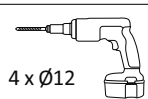


INFORMATION

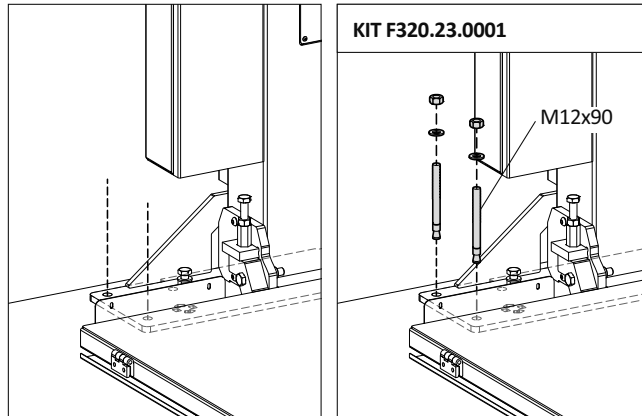
FIXING TO THE GROUND:

The fixing base has 6 holes: use the 4 holes in the corners but, if this is not possible, use the 2 additional holes on the base;

- Drill through the fixing base into the pit;
- Insert the anchoring plugs and secure the platform to the ground.



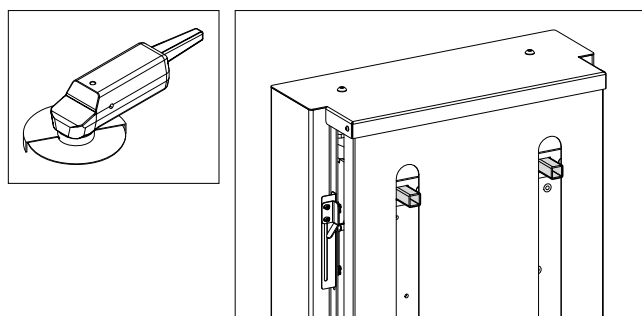
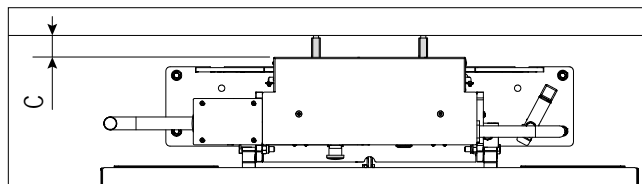
KIT F320.23.0001



INFORMATION

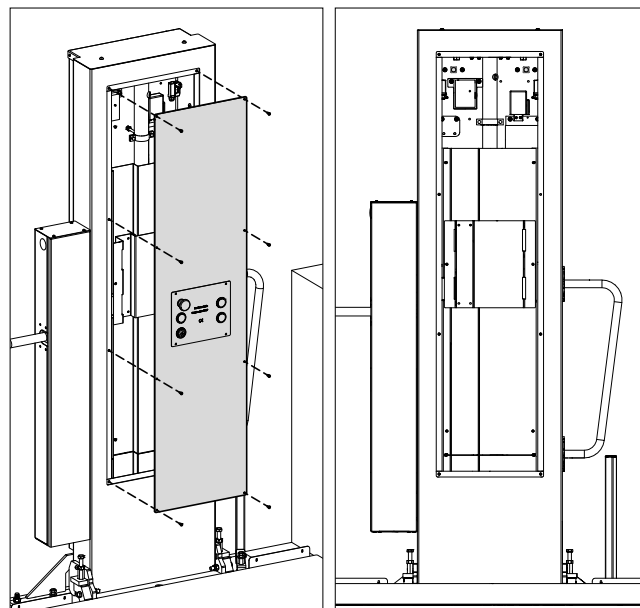
WALL MOUNTING:

if $C < 20$ mm, it is necessary to cut the wall mounting tubular sections otherwise distance C will not be respected.

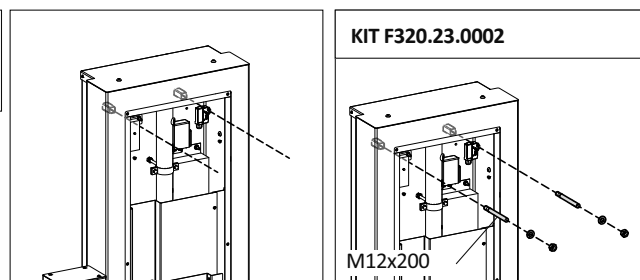
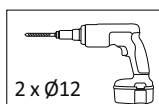




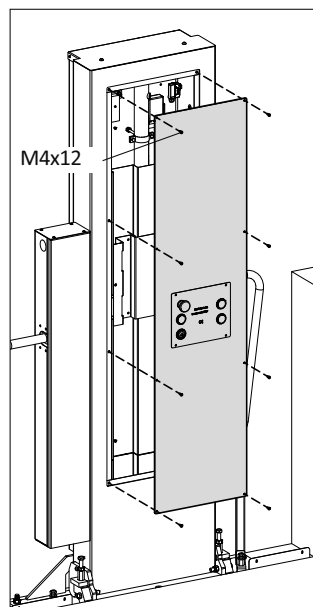
- Unscrew the tower closing panel: this allows to access the two tubular sections on the bottom of the tower;



- Drill through the tubular sections into the wall;
- Insert the anchoring plugs and secure the platform to the wall.



- Replace the drive tower closing panel.





8. ELECTRICAL COMPONENTS

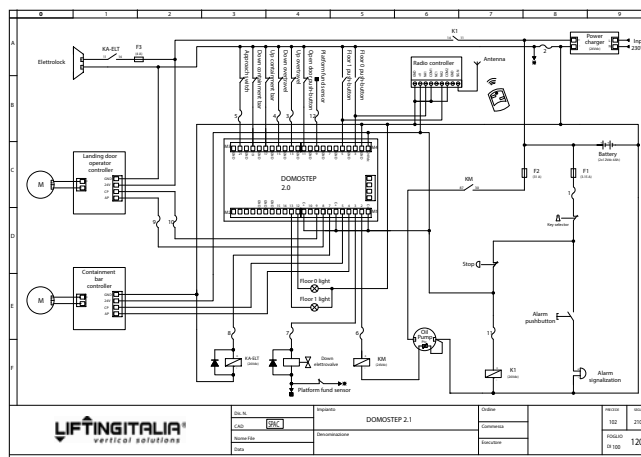


INFORMATION

The manual indicates how to mechanically install the devices to the electronic controls; for electrical wiring refer to the wiring diagrams of the individual components found in their packaging.

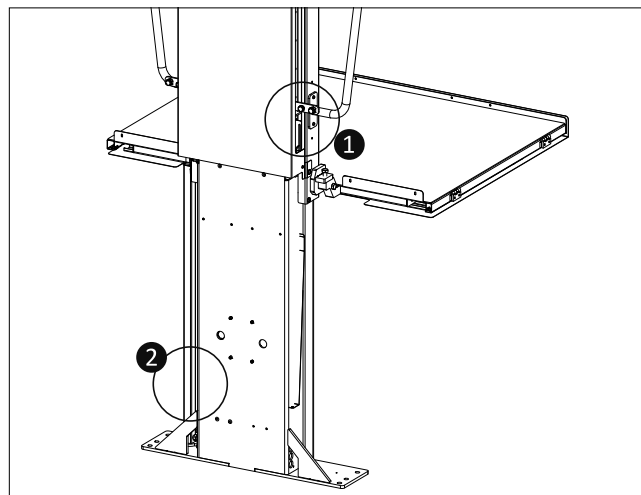
8.1. WIRING DIAGRAM

- Check that the electrical connections correspond to the wiring diagrams supplied with the system.



8.2. UPPER AND LOWER OVER-RUN CONTACTS

- Check the correct operation of
- the upper **1**
- and lower **2** over-run contacts inside the drive tower.
- Adjust their position according to the landing positions.



INFORMATION

FOR SYSTEMS WITH A TRAVEL < 600 mm

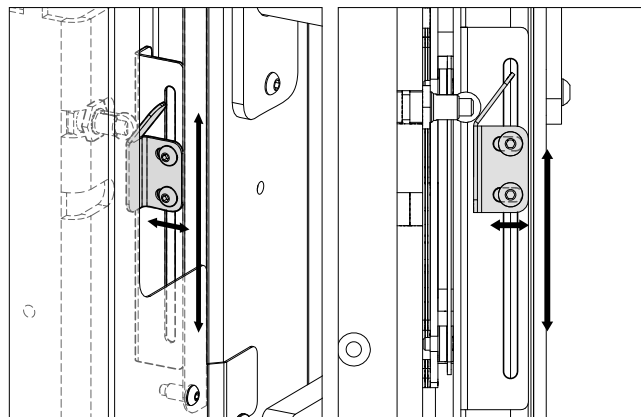
Within the manual it will be asked to move the platform to about 600 mm from the ground; for installations with a lower travel it will be necessary to use the over-run contacts:

Move the ascent end-run switch **1** in such a way as to reach this height difference.




Move the platform to the lower landing and reposition the ascent end-run switch **1** to the original position.



Before moving the ascent end-run switch **1**, it is best to mark its position, otherwise it will be necessary to re-adjust the extra-run contact.

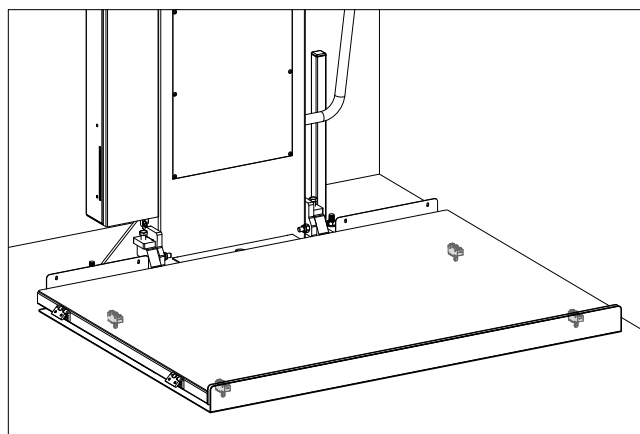




	<div data-bbox="699 313 914 365" data-label="Section-Header"><p> WARNING</p></div> <div data-bbox="419 403 807 434" data-label="Section-Header"><p>CRUSHING BY MOVING PARTS:</p></div> <div data-bbox="419 434 1181 535" data-label="Text"><p>The activation of the platform's electrical movement control poses a risk of injury for installers, since not all components and safety devices are installed.</p></div>	
---	---	---

8.3. MOVABLE PLATFORM BASE CONTACTS (if applicable)

- Check the correct operation of the contacts beneath the platform.





9. SAFETY DEVICES



9.1. PIT PROTECTION DEVICE (SAFE-PIT)

for domoSTEP 100

100

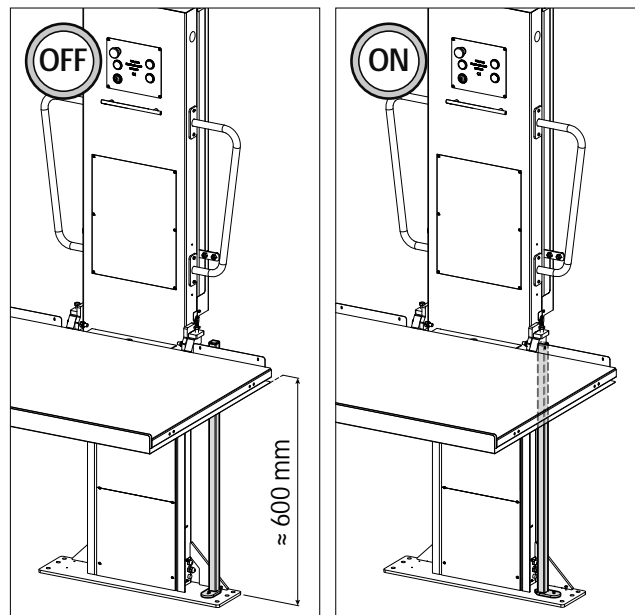
Check the correct operation of the pit protection device:

- Raise the platform to about 600 mm from the ground;

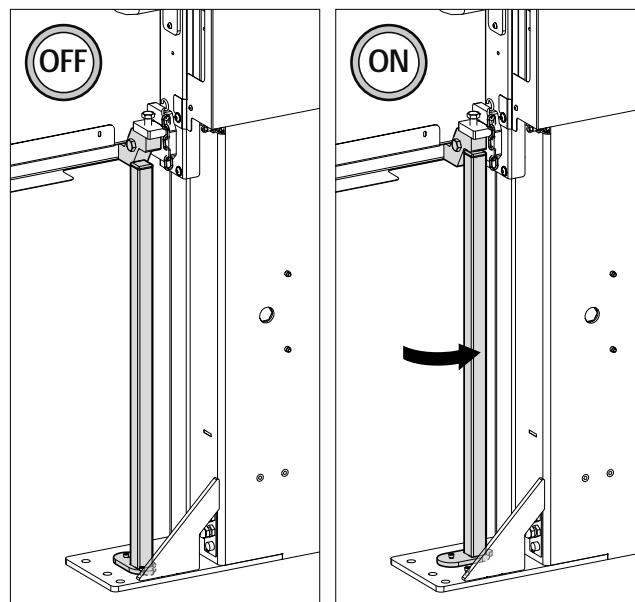
INFORMATION

IN CASE OF SYSTEMS WITH A TRAVEL < 600 mm:

- check the procedure in **paragraph 8.2.**
“UPPER AND LOWER OVER-RUN CONTACTS”



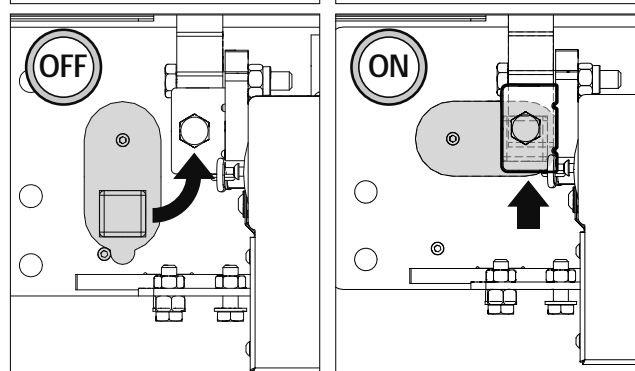
- Place the device in the ON position;



INFORMATION

The device must be rotated by pivoting the screw so that it projects below the platform release bracket.

- Lower the platform: the tube must rest on the platform release bracket;
- Once the maintenance operations have ended, please lift the platform and place the device (Safe-Pit) in the OFF position, bringing it to abut against the set screw.

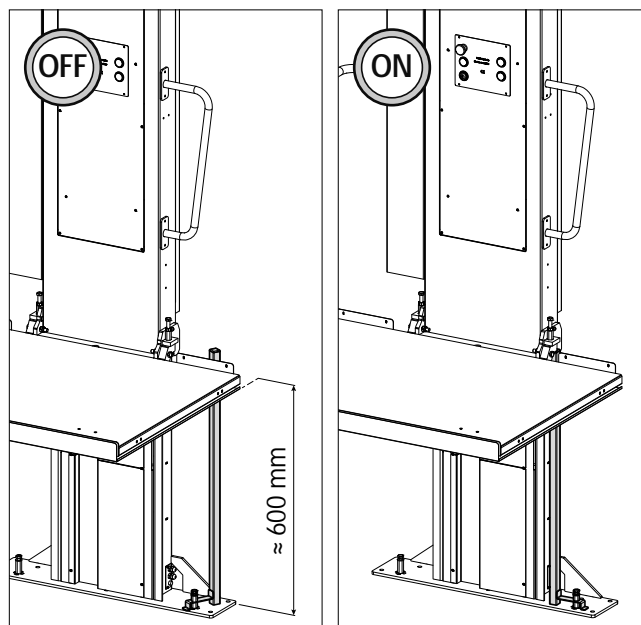


**per domoSTEP 160****160**

- Check the correct operation of the pit protection device;
- Lift the platform about 600 mm from the ground;

INFORMATION**IN CASE OF SYSTEMS WITH A TRAVEL < 600 mm:**

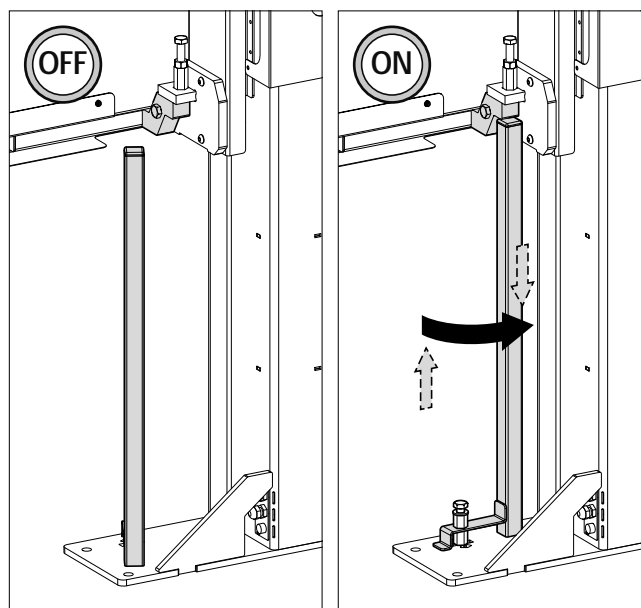
- check the procedure in **paragraph 7.2.**
"UPPER AND LOWER OVER-RUN CONTACTS"



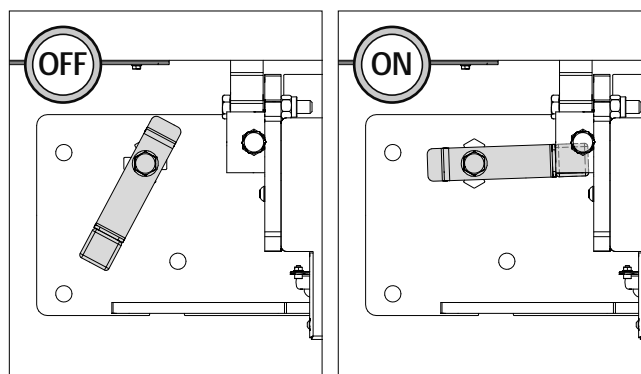
- Place the device in the ON position;

INFORMATION

The device must be pulled out from the welded pivot on the fixing base and re-inserted so that it projects below the platform release bracket.

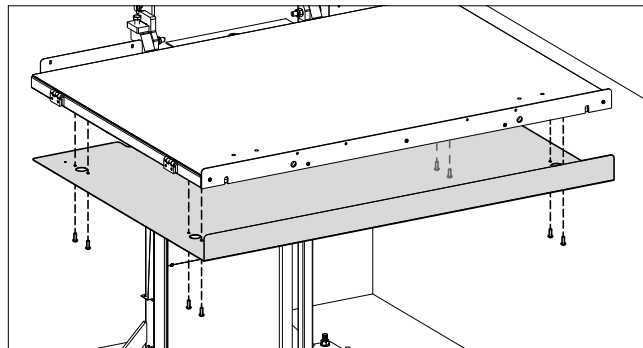


- Lower the platform: the tube must rest on the platform release bracket;
- Once the maintenance operations have ended, please lift the platform and place the device (Safe-Pit) in the OFF position, bringing it to abut against the set screw.



9.2. INSTALLATION of the PLATFORM PARAPET (if provided)

- Disassemble the movable platform base (if present);

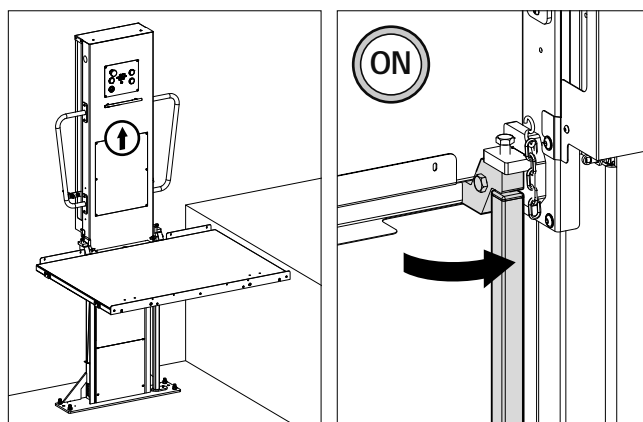


- Lift the machine;

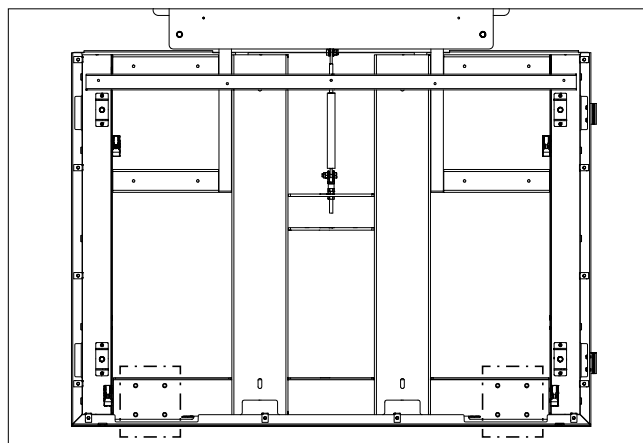
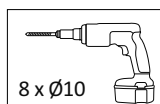


WARNING

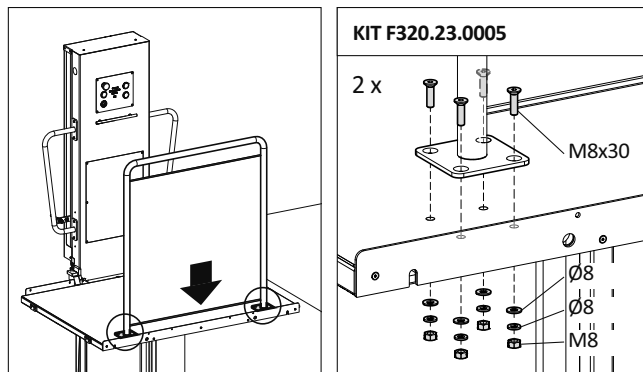
CRUSHING BY MOVING PARTS:
Place the pit protection device into the ON position.



- Se non già predisposto, forare il rivestimento del pavimento da sotto la pedana, prendendo COME riferimento le forature esistenti sul basamento di pedana;

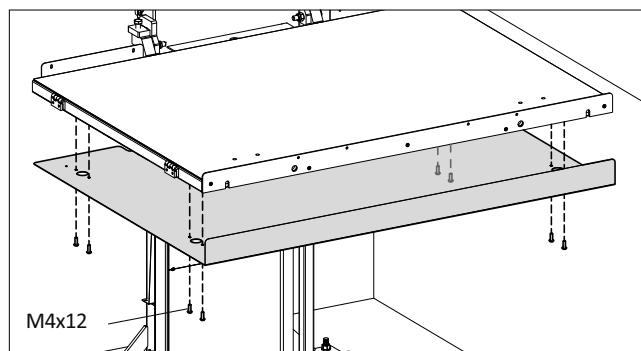


- Place the parapet on the platform
- Secure it with the appropriate KIT screws.

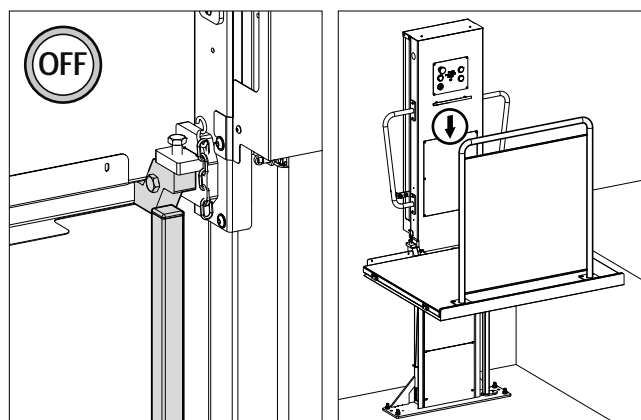




- Reassemble the movable platform base;

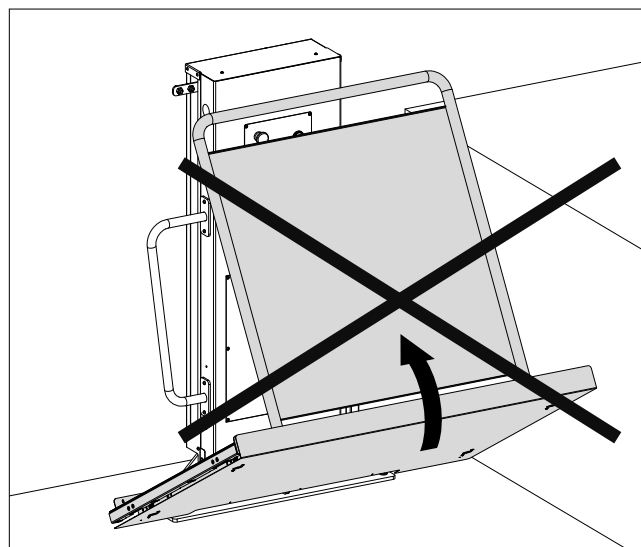


- Lift the machine and place the pit protection device in the OFF position.



NOTICE

Once the railing is installed, it will no longer be possible to tilt the platform on the drive tower.

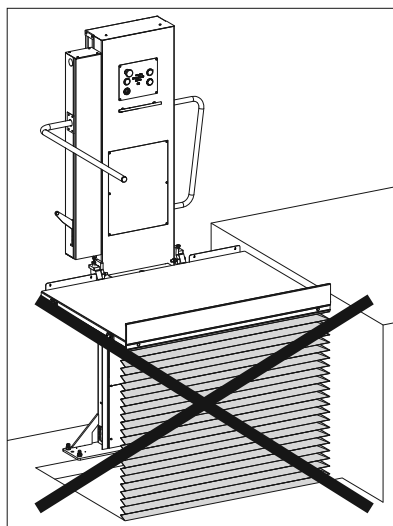
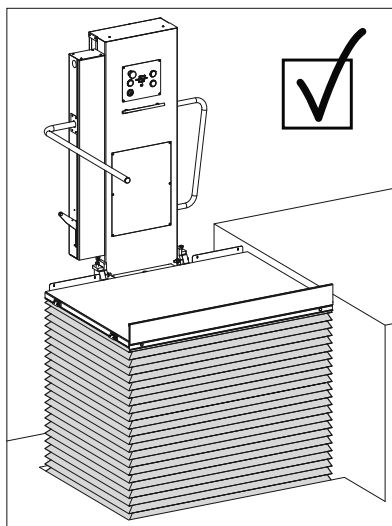




! CAUTION

MAKE SURE THAT THE BELLOWS IS POSITIONED CORRECTLY:

The bellows must cover the two sides of the platform which are NON ADJACENT to the masonry, in order to prevent access under the platform. In case of incorrect installation of the bellows and careless use, personal injury and property damage may occur.

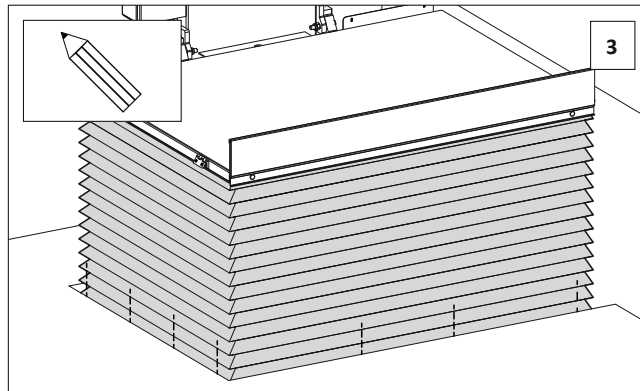
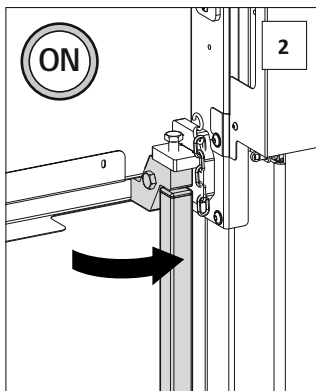
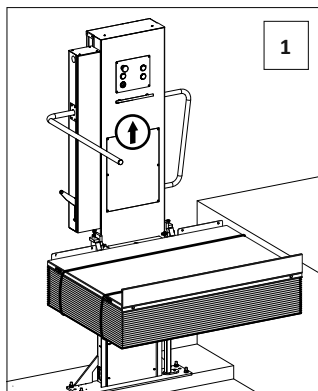


! WARNING

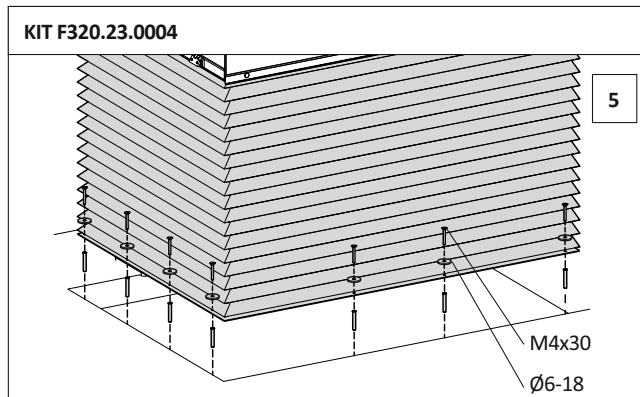
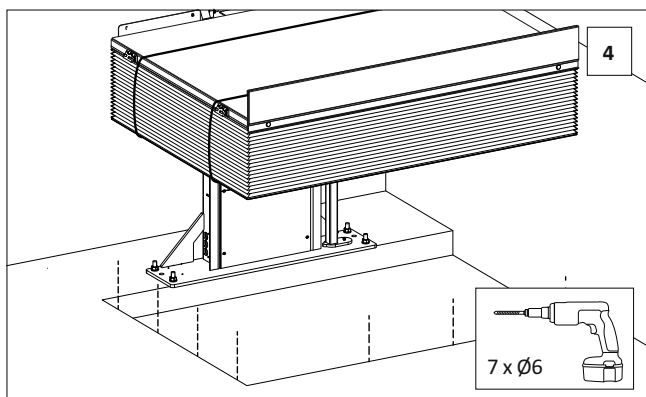
CRUSHING BY MOVING PARTS:

Place the pit protection device into the ON position.

- Lift the machine and place the pit protection device into the ON position;
- Mark the reference points in the pit;

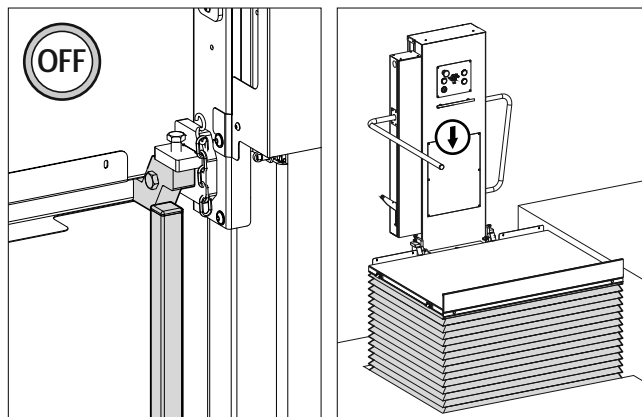


- Raise the bellows temporarily stopping it and drill the holes in the pit;
- Release the bellows and secure it in the pit with the anchoring plugs;





- Raise the machine and place the pit protection device in the OFF position.

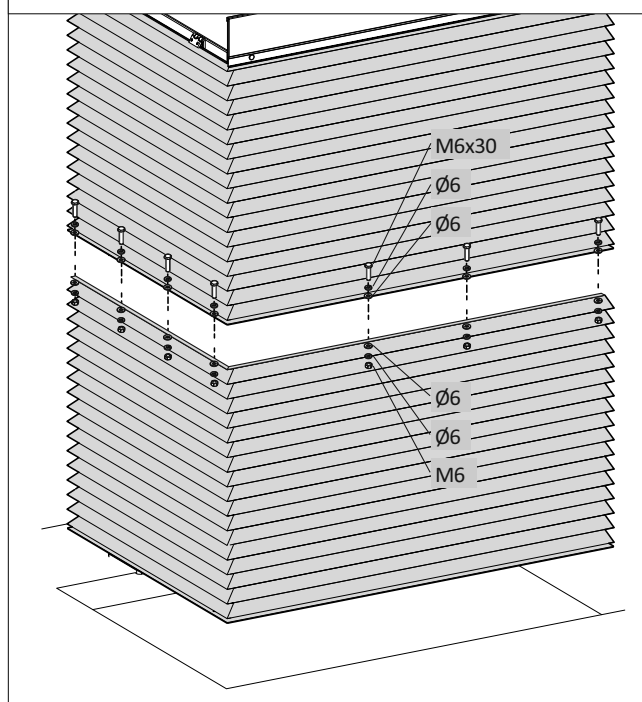


BELLOWS for domoSTEP 160

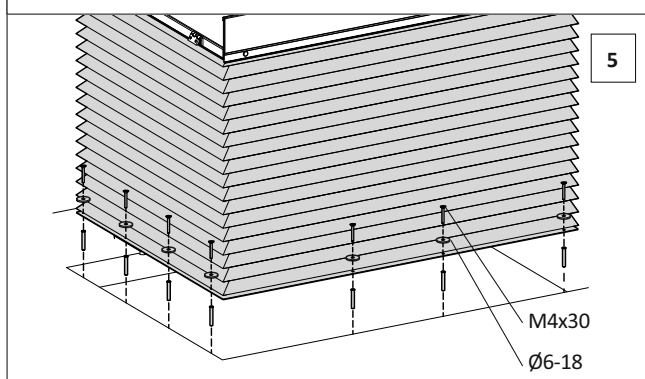
160

- Follow the instructions above until point (4).
- Connect the two bellows using the special kit

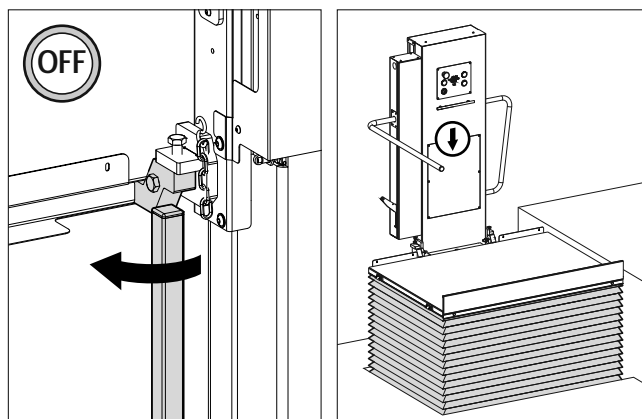
KIT F320.23.0013



KIT F320.23.0004



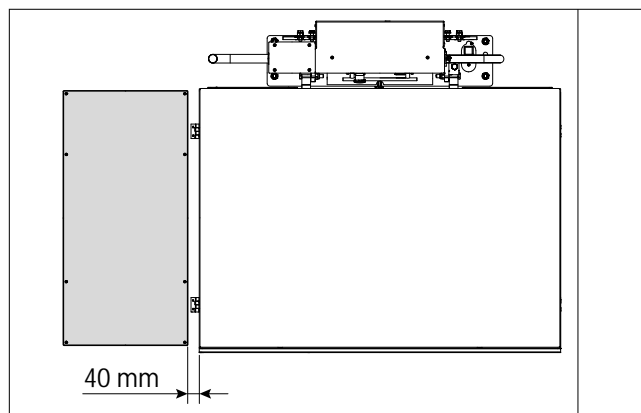
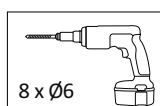
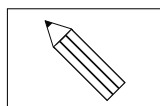
- Anchor in the pit with the supplied dowels.



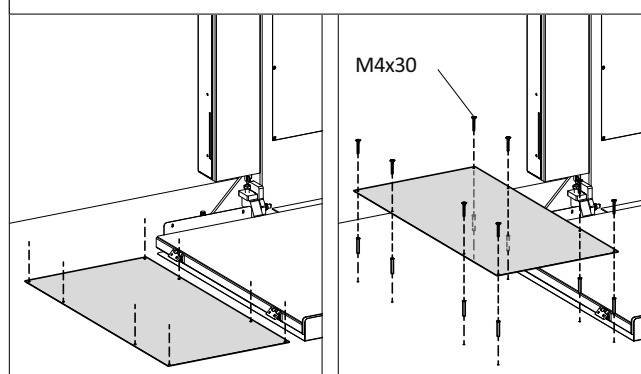
- Reposition the pit protection device to OFF

9.3. INSTALLATION OF AUTOMATIC DROP-DOWN RAMP (if applicable)

- Fix the protective ramp metal sheet to the ground, positioning it approximately 40 mm away from the platform;



KIT F320.23.0007



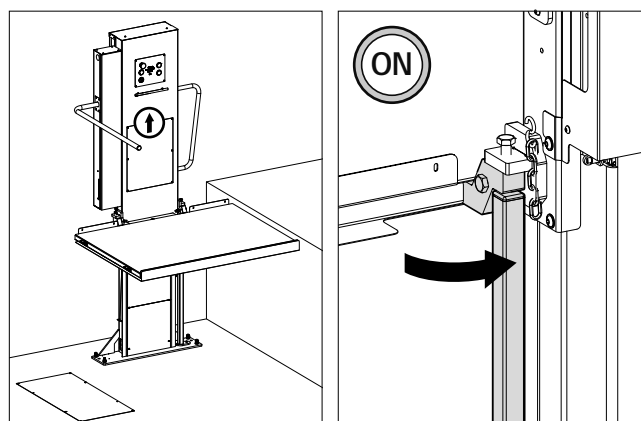
- Lift the machine;



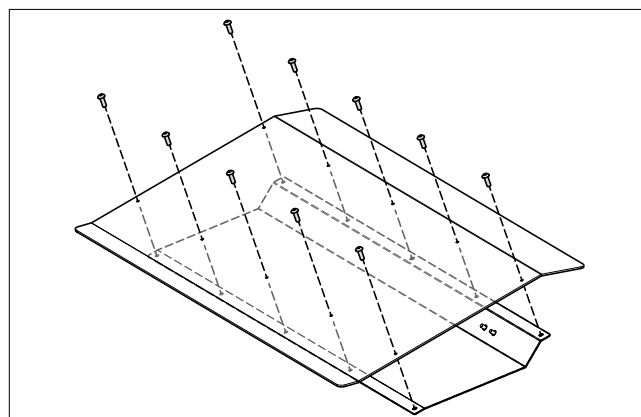
WARNING

CRUSHING BY MOVING PARTS:

Place the pit protection device into the ON position.



- Remove the aluminium cover from the ramp and put the screws to one side;





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

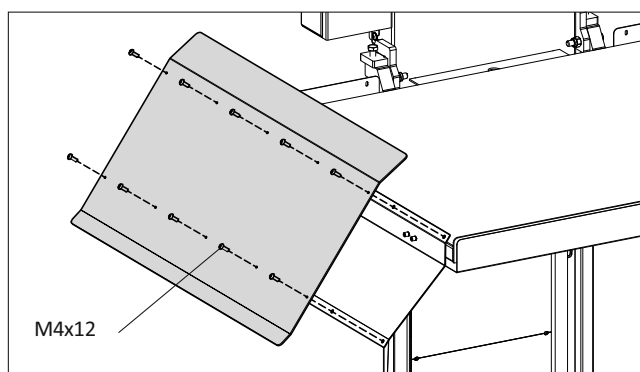
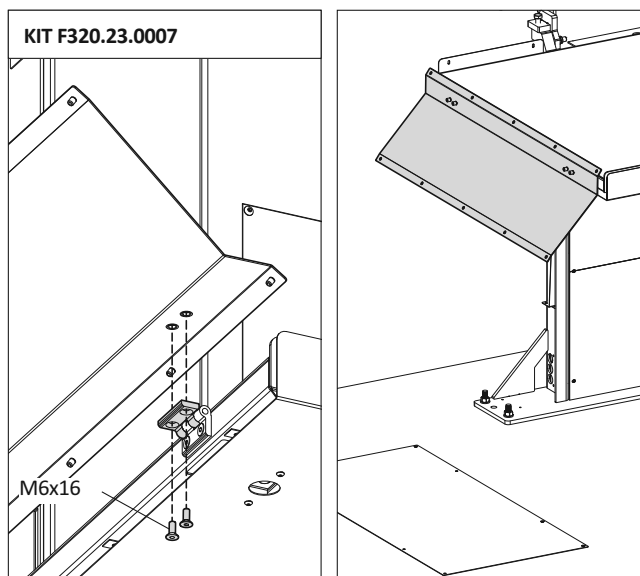
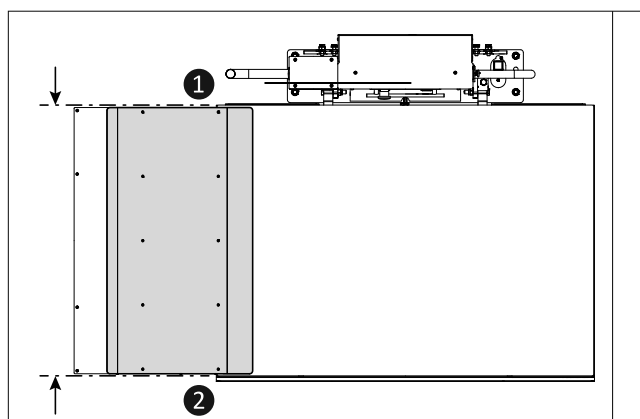
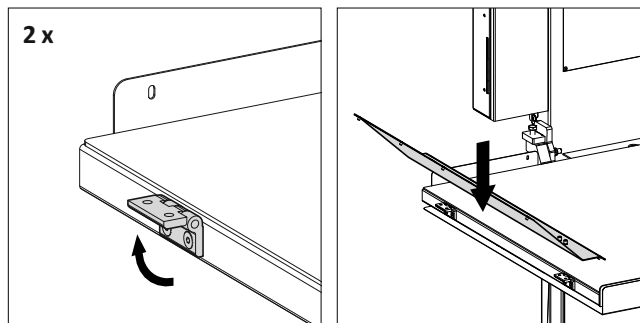
INFORMATION

CHECK THE CORRECT POSITIONING OF THE RAMP:

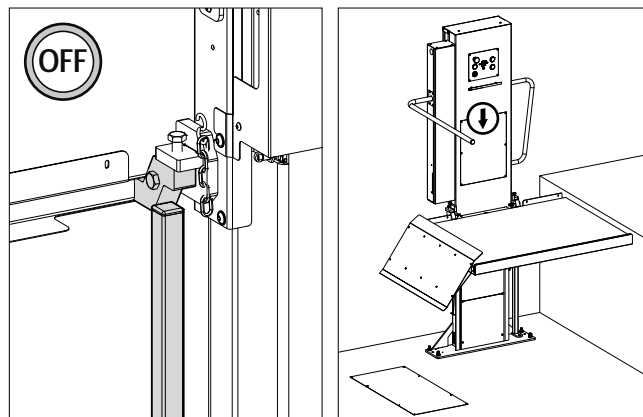
The ramp must be symmetrical and CENTRAL with respect to the platform, equidistant with respect to the sides ① e ②.

- Fasten the hinges to the ramp;

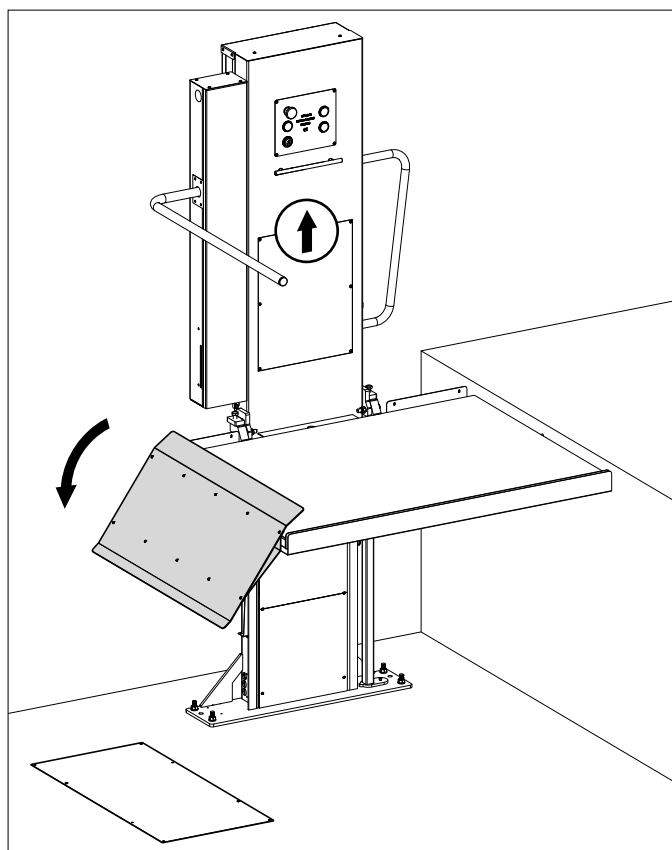
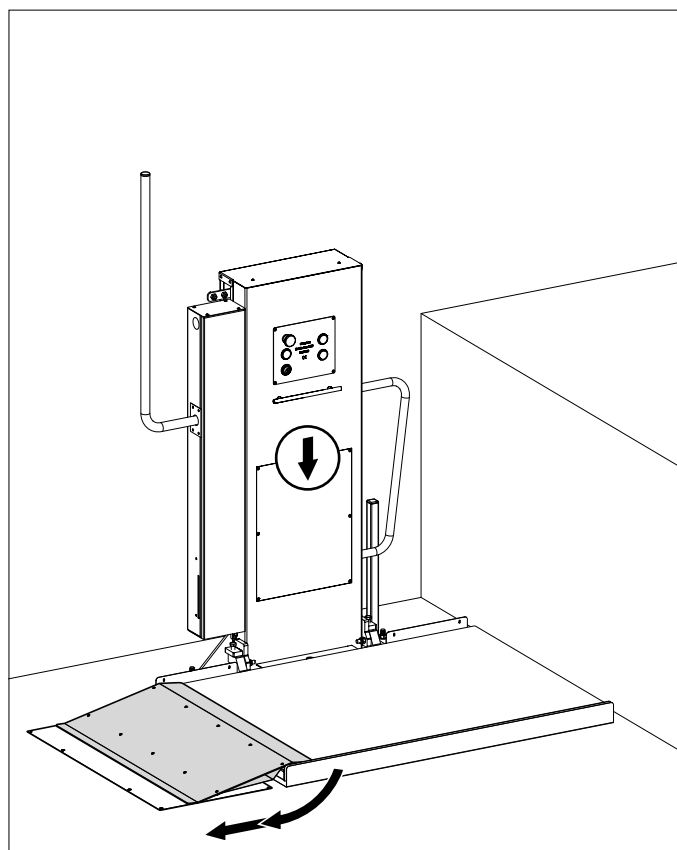
- Replace the cover using the screws removed and put to one side;



- Raise the machine and place the pit protection device in the OFF position;



- Check the ramp works correctly.



**9.4. INSTALLATION OF GUIDED DROP-DOWN RAMP (if applicable)****NOTICE**

Pay **ATTENTION** when handling the ramp, the mechanism is pre-installed, so move it carefully.

- Lift the machine;

**WARNING****CRUSHING BY MOVING PARTS:**

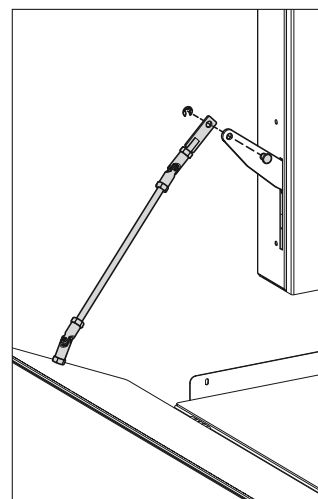
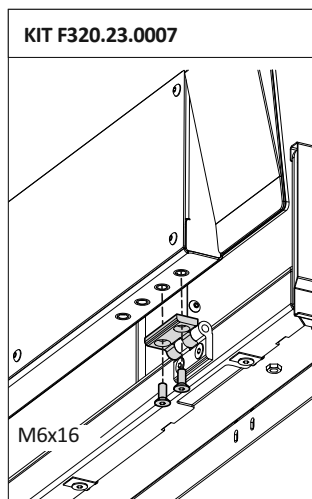
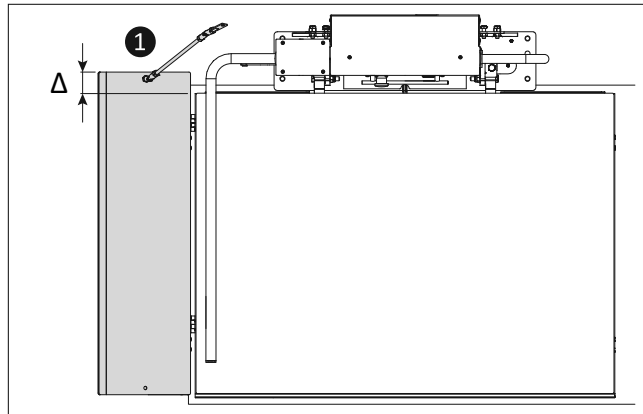
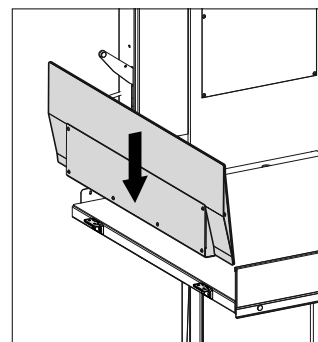
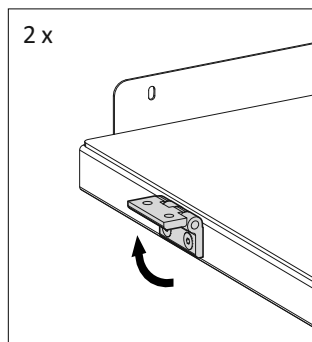
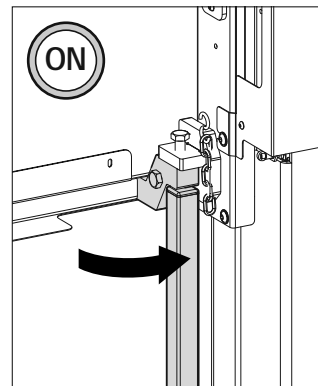
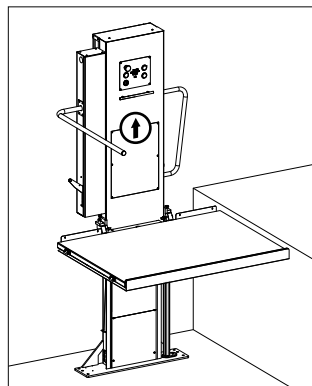
Place the pit protection device into the ON position.

- Open the hinges and position the ramp;

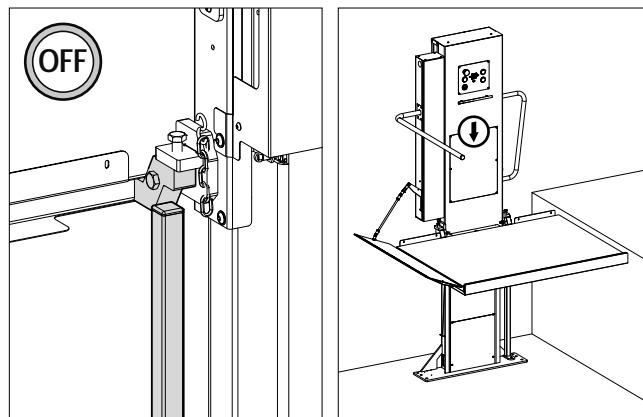
INFORMATION**CHECK THE CORRECT POSITIONING OF THE RAMP:**

the ramp must **PROTRUDE** towards the tower in relation to the platform ①.

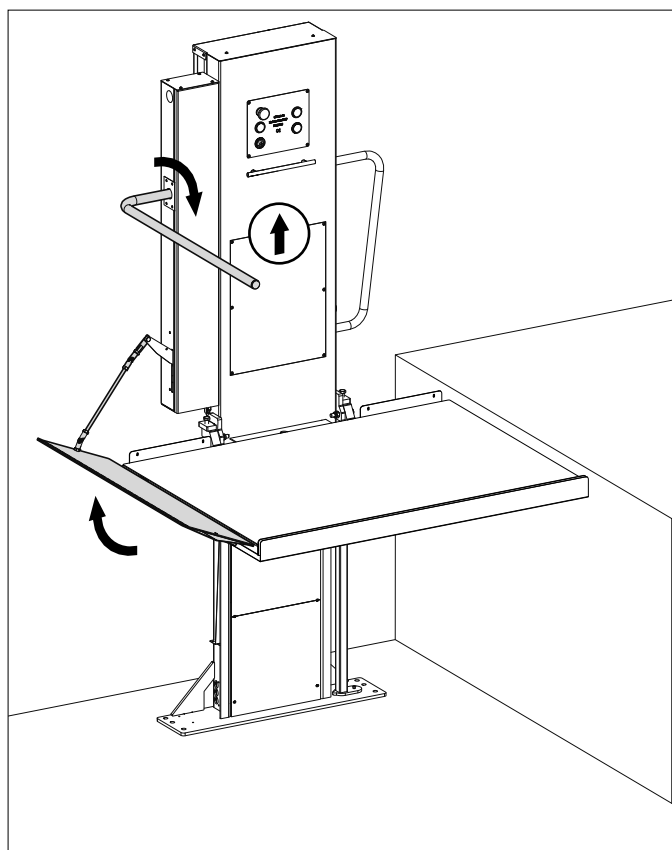
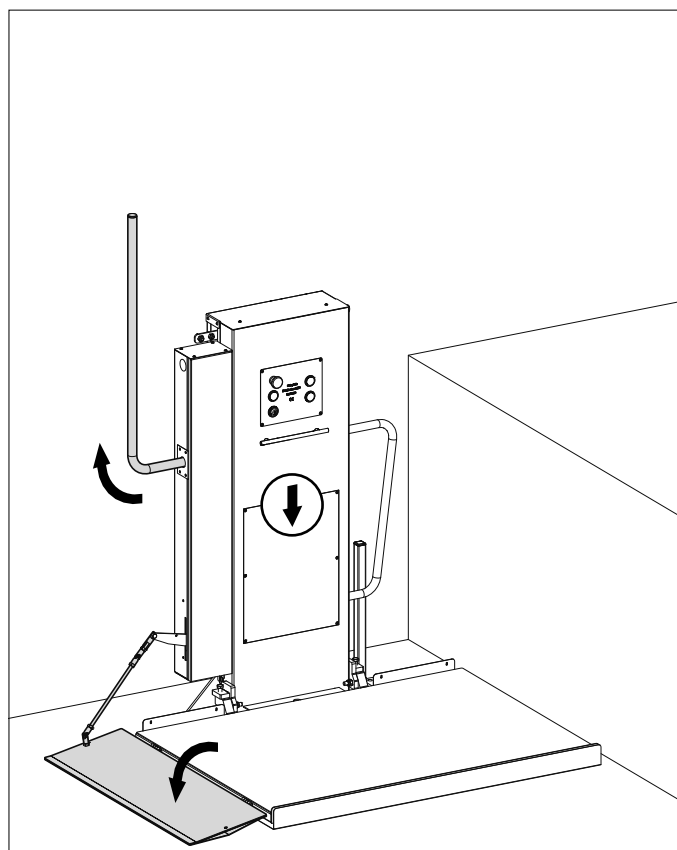
- Fasten the hinges to the ramp;
- Secure the pre-installed coupling mechanism of the ramp to the drive tower with the screws pre-assembled on the drive tower lever;



- Raise the machine and place the pit protection device in the OFF position;



- Check the ramp works correctly.

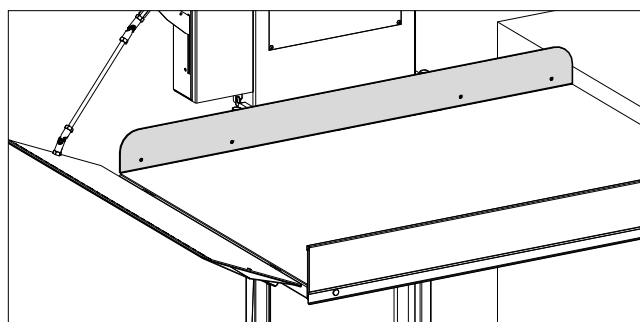
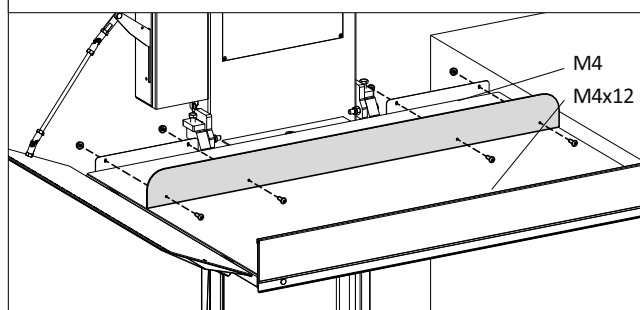




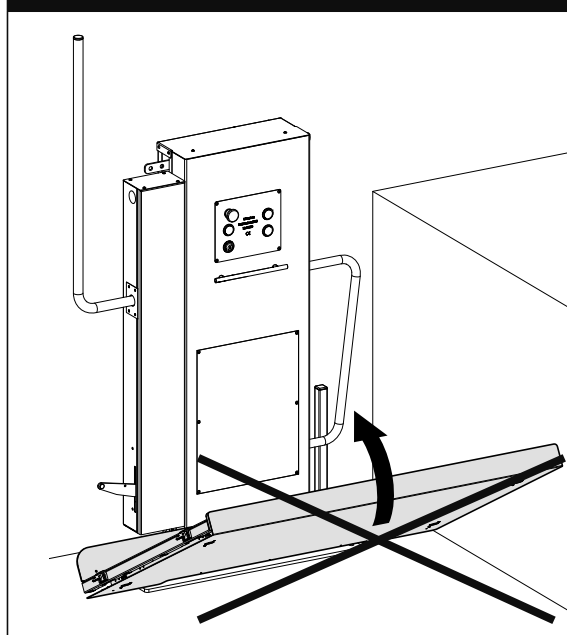
9.5. INSTALLATION OF FOOT GUARD (if applicable)

- Mount the foot guard on the side of the drive tower.

KIT F320.23.0003



NOTICE



RISK OF DAMAGE TO THE PRODUCT:

Once the foot guard is installed, it will no longer be possible to tilt the platform on the drive tower.



10. LANDING OPERATING PANEL



10.1. INSTALLATION OF ON-WALL BUTTONS

- Fix the LOP as advised by the supplier (the instructions are supplied in the package).



11. FINAL CHECKS AND ADJUSTMENTS



- At this point, you can proceed with the final checks of the whole system, to ensure a comfortable ride, and then carry out all the final inspection tests required by regulations (see paragraph 2 of the manual "Final Checks").

INFORMATION



The operations as described in this paragraph are to be carried out by the qualified and authorized personnel.

11.1. GENERAL CHECKS

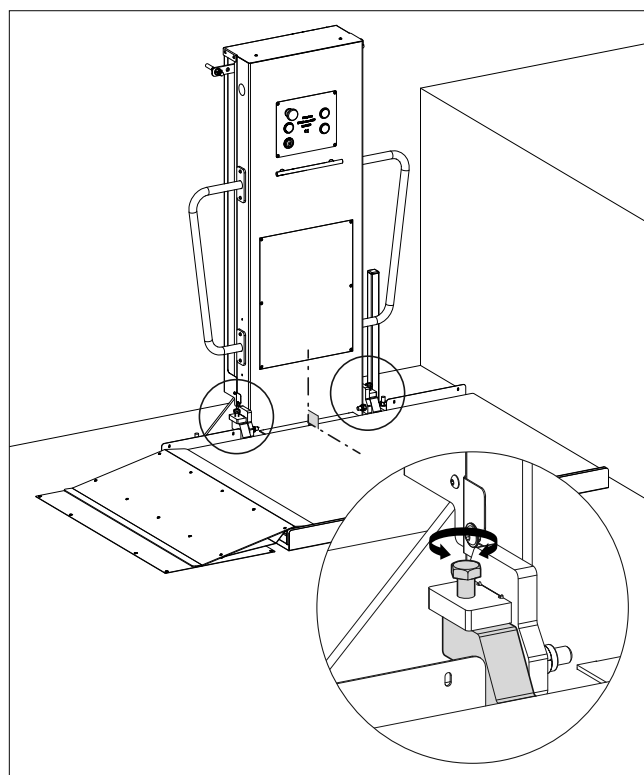
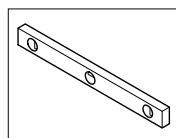
Check the system corresponds with the contract data, the design plans and the wiring diagram.

In particular:

- the value of the power supply voltage and voltage upstream of the various electrical devices;
- system capacity;
- system speed;
- landing level differences;
- safety chain;
- safety distances;
- grounding system between the operating circuit and the driving force.

11.2. PLATFORM ADJUSTMENT

- Check the angle of the platform by turning the anti-tipping screws until it is level.





LIFTINGITALIA S.r.l.

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



12. FINAL CHECKS AND ADJUSTMENTS



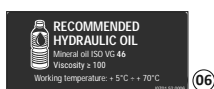
INSIDE THE DRIVE TOWER

OUTSIDE THE DRIVE TOWER

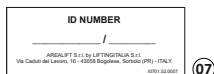
Close to the screw



On the tank of the control unit



Close to the control unit



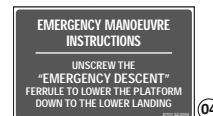
On the power supply



On the protective ramp plate (if present)



On the drive tower casing



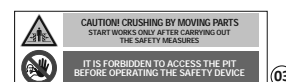
On the tower



On the automatic drop-down ramp (if present)



On the base of the drive tower



To apply in proximity of the button of call in case of off duty.



To apply in proximity of the button of call in public buildings.



13. NOISE OF THE PLATFORM

Sources of noise from the platform are the motor, the pump, and the sliding of the rollers on the guides.

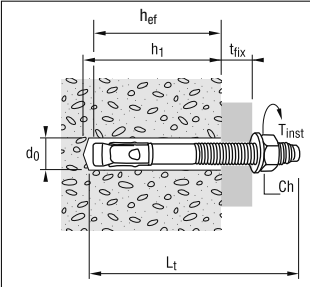
In the various configurations tested, all measurements have resulted in sound pressure levels below 60 dB (A).



A1. ANCHORAGE TO THE SHAFT WITH MECHANICAL OR CHEMICAL ANCHOR

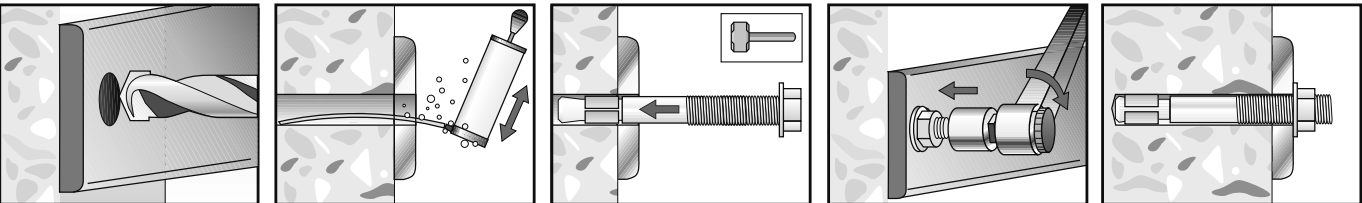
A1.1 CONCRETE SHAFT

Unless otherwise specified, all anchoring plugs are M10 in size and require a hole made in the wall with a 10 mm bit



h_1	=	Minimum hole depth
L_t	=	Dowel length
d_0	=	Hole diameter
t_{fix}	=	Fixable thickness
t_{inst}	=	Tightening torque
Ch	=	Wrench
h_{ef}	=	Depth of anchorage

ASSEMBLY SEQUENCE



A1.2 LOAD-BEARING MASONRY SHAFT

INFORMATION



In order to anchor the uprights in the masonry shaft (**made with materials suitable for construction of load-bearing/structural***), the distance between clamps must be reduced to cope with the lower mechanical resistance of the shaft wall.

*** Construction materials suitable for the realization of load-bearing walls even in seismic areas, calculated and built in compliance with the relevant legislation in the places of installation (IT - Technical Regulations for Construction: D.M. 14.01.0, NTC2018 etc.).**

The fixing brackets gap is 1250 mm, starting from the pit bottom = 500 mm.

INFORMATION

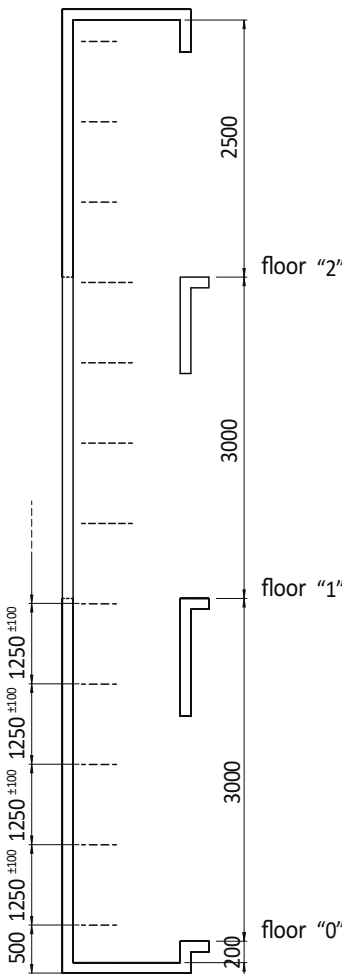


Always refer to the **project drawing** for installation.

NOTICE



For all cases not covered by the described types, an inspection and a project by a qualified technician are requested.



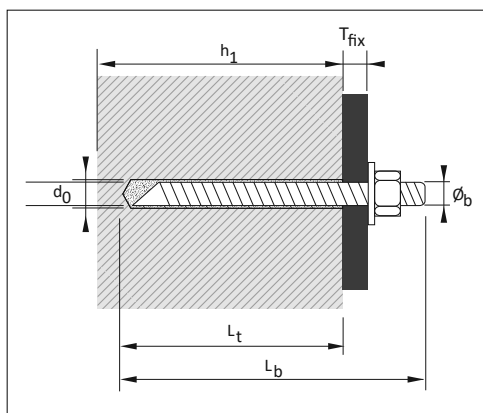
**A1.2.1 ANCHORAGE in a LOAD-BEARING MASONRY SHAFT WITH SOLID AND COMPACT ELEMENTS**

The special kit F350.23.0026V01 for chemical bolts application is composed of:

- n° 16 zinc plated **THREADED RODS** 45° cut (anti rotation) (M10x130 GALVANISHED CHEMSET STUD);
- n° 2 pcs 300 ml **CARTRIDGES** of **ANCHORING ADHESIVE***, to be used with standard caulking guns (skeleton gun);
- n° 2 multipurpose **MIXERS** $\varnothing 9$ mm, additionally to the 4 mixers foreseen for the cartridges.

Each kit is sufficient for 8 brackets, required for approx. 1 stop.

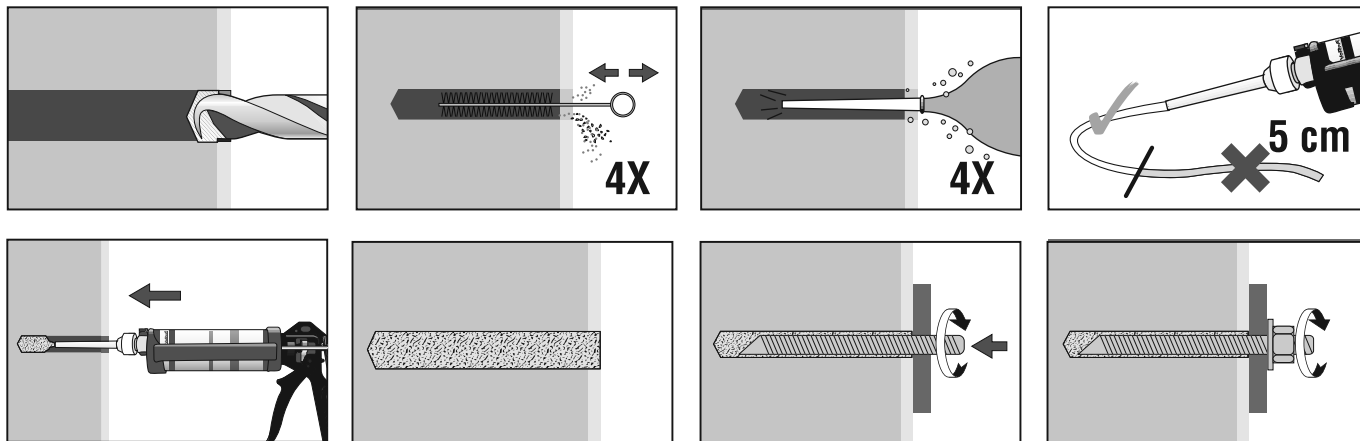
For instance, 3 F350.23.0026V01 kits are required for a 3 stops' lift, the brackets being positioned as per the sample drawing.



h_1	=	Minimum hole depth
L_b	=	Rods length
L_t	=	Dowel length
d_0	=	Hole diameter
\varnothing_b	=	Rods diameter
T_{fix}	=	Fixable thickness

Threaded rods length calculation:

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

ASSEMBLY SEQUENCE

Carefully clean the hole before installation.

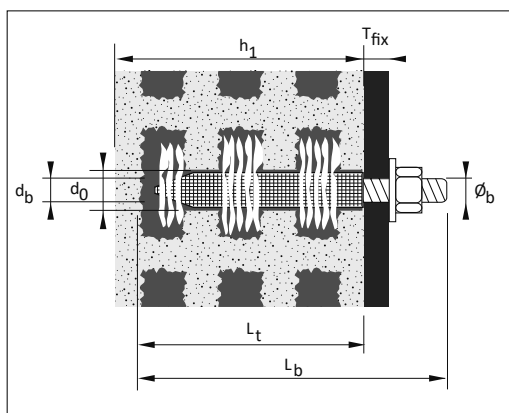
**A1.2.2 ANCHORAGE in a LOAD-BEARING MASONRY SHAFT WITH HOLLOW ELEMENTS**

The special kit F350.23.0025V01 for chemical bolts application is composed of:

- n° 16 zinc plated **THREADED RODS** 45° cut (anti rotation) (M10x130 GALVANISHED CHEMSET STUD);
- n° 2 pcs 300 ml **CARTRIDGES** of **ANCHORING ADHESIVE***, to be used with standard caulking guns (skeleton gun);
- n° 2 multipurpose **MIXERS** ø9 mm, additionally to the 4 mixers foreseen for the cartridges;
- n° 2 **FINE METAL MESH SLEEVE** ø16 mm, length 1 mt each.

Each kit is sufficient for 8 brackets, required for approx. 1 stop.

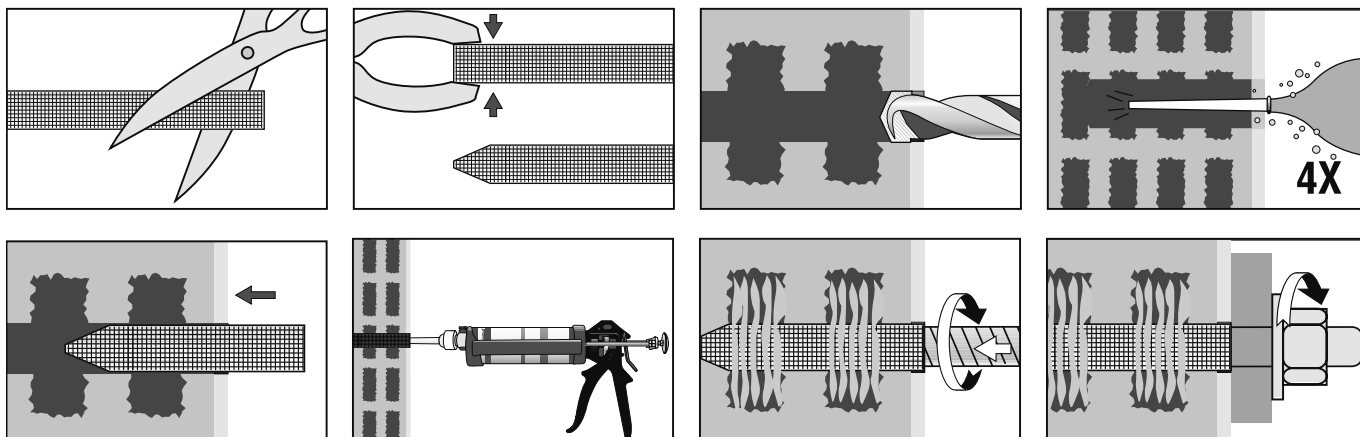
For instance, 3 F350.23.0025V01 kits are required for a 3 stops' lift, the brackets being positioned as per the sample drawing.



h_1	=	Minimum hole depth
L_b	=	Rods length
L_t	=	Dowel length
d_o	=	Hole diameter
d_b	=	Metal Mesh Sleeve diameter
ϕ_b	=	Rods diameter
T_{fix}	=	Fixable thickness

Threaded rods length calculation:

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

ASSEMBLY SEQUENCE

Carefully clean the hole before installation.

NOTE:

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