

Line[®]door

Hinged Landing Door

INSTALLATION AND COMMISSIONING INSTRUCTIONS

(Rev.1.2)



AREALIFTING[®]

THE VERTICAL MOBILITY MANUFACTURER

Line® door

INSTALLATION AND COMMISSIONING INSTRUCTIONS

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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.



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.
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.

RISK LEVEL

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 of 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
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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!



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 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.

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 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.

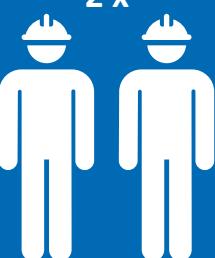


Pictures and images on this manual are for illustration purposes only.

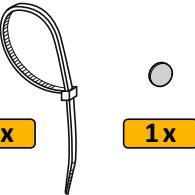
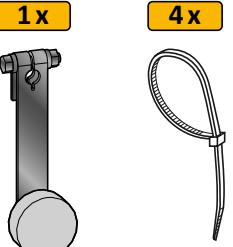
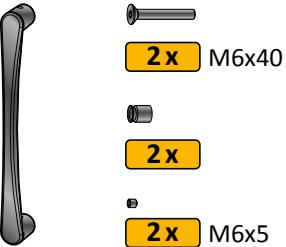
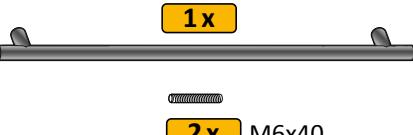
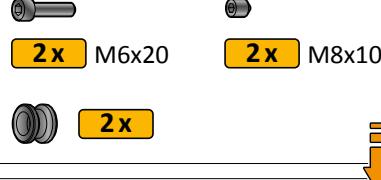
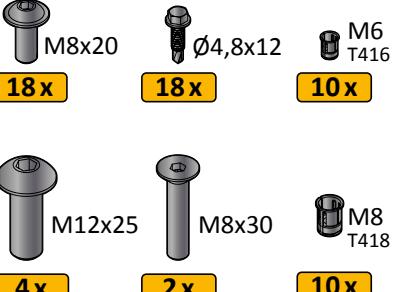
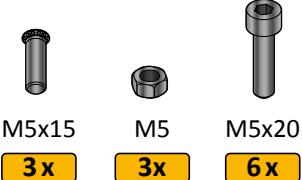
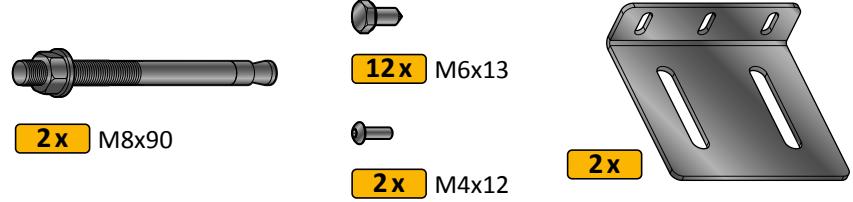
4. General requirements and installation site management

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: <ol style="list-style-type: none"> 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). <ul style="list-style-type: none"> • 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.)..
	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.

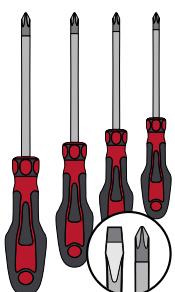
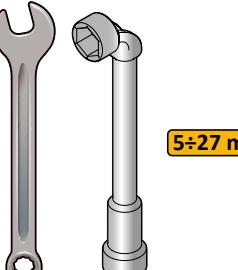
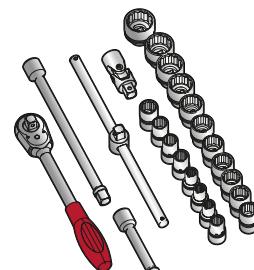
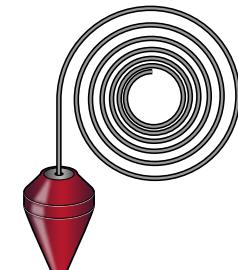
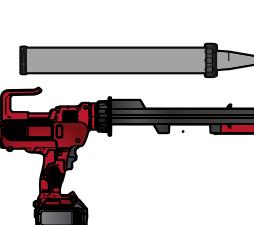
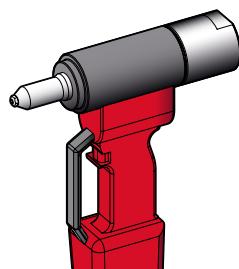
 2 x	The assembly must be performed by a MINIMUM 2 people	If the load is greater than 50kg, use the hoist for handling.  MAXIMUM LOAD LIMIT 50 kg	 > 50 kg
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5. Box content - screws kit

 <p>Each box with its identification code represents how many pieces per item are contained in each package (KIT).</p>		
D203.23.0006  <p>6x M8x20 6x M8 0 12x $\varnothing 8$</p>	D201.05.5016  <p>6x</p>	D111.23.0007  <p>4x 1x</p>
D111.23.0005  <p>1x 4x 1x 0</p>	D001.23.0003  <p>1x 2x M6x40 2x 2x M6x5</p>	D003.05.9010  <p>1x 2x M6x40</p>
D003.23.0001  <p>2x M6x20 2x M8x10 2x cod. D003.01.0010</p>	F353.23.0011  <p>18x M8x20 18x $\varnothing 4,8 \times 12$ 10x M6 4x M12x25 2x M8x30 10x M8 3x</p>	F353.23.0016  <p>M5x15 M5 M5x20 3x 3x 6x</p>
F353.23.0010  <p>2x M8x90 12x M6x13 2x M4x12 2x</p>		S000.23.0007 *  <p>50x M4.8x13</p>

	<p>* INSIDE THE SHAFT PACKAGE (as described in this manual)</p>
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6. Tools required for installation

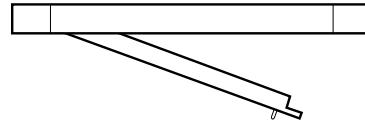
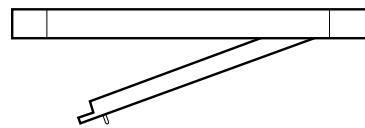
BALL POINT LONG HEX KEY WRENCH 	ELECTRICIAN SCREWDRIVER SET 	HAMMER + RUBBER HAMMER 	TAPE MEASURE 
SPIRIT LEVEL 	SCISSORS FOR ELECTRICIANS 	SPANNER + SOCKET WRENCH 	RACKETING RING SPANNER SET 
DRILL + ELECTRIC SCREWDRIVER 	DRILL BITS  CONCRETE from 6 to 22 mm STEEL from 2 to 13 mm	PLUMB BOB 	SILICONE GUN + SILICONE 
CORDLESS RIVETER GUN FOR THREADED INSERTS 			

7. Preliminary operation and information

NOTICE

**MATERIAL POSITIONING:**

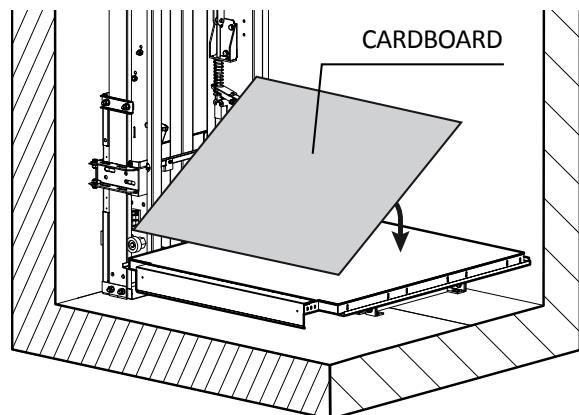
It is important to position the material correctly on the installation site as once the scaffold has been assembled it may become difficult to handle certain components, with the risk of injury and damage to the materials.

	Each door must be positioned near where it is to be installed then each to its reference plane.
	 <p>LEFT handed</p>  <p>RIGHT handed</p>

NOTICE



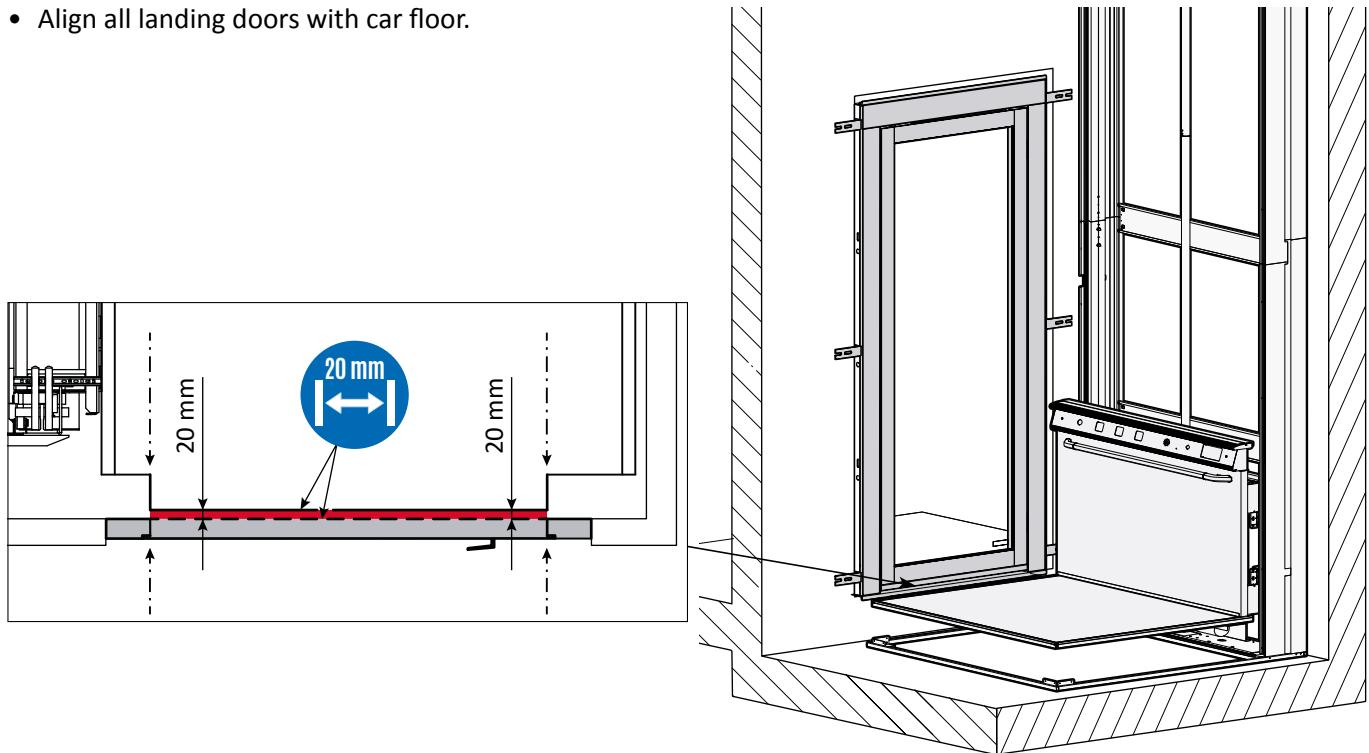
Protect the car floor during installation



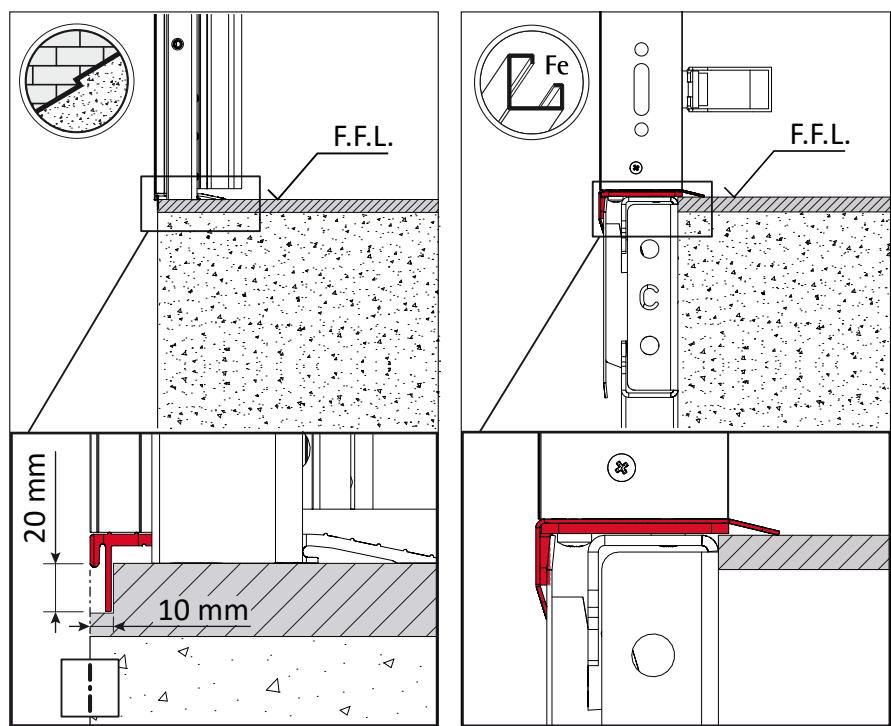
8. Installation

8.01. Positioning

- Align all landing doors with car floor.



- Position the door sill in relation to the shaftway vertical and to the finished floor level as shown.



8.02. Installation on wall shaft

8.02.01 MOUNTING WITH FISHTAILED FRAME CRAMP

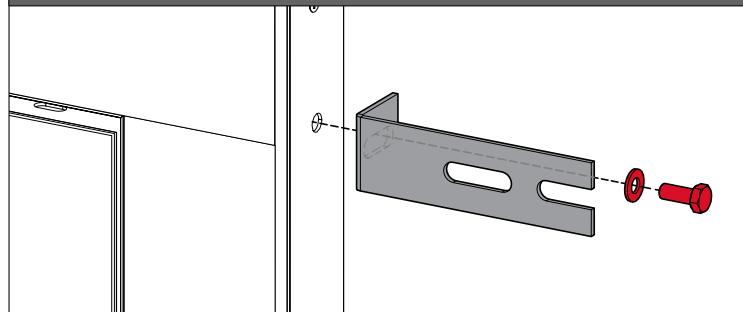
- Temporarily fix the brackets to the door;

NOTICE



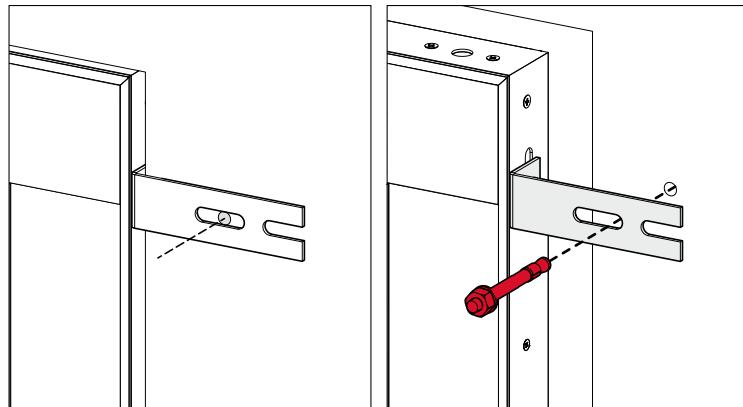
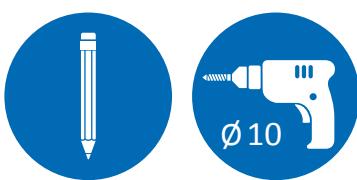
The base profiles must be positioned before starting the installation of the infills.

D203.23.0006 + D201.05.5016

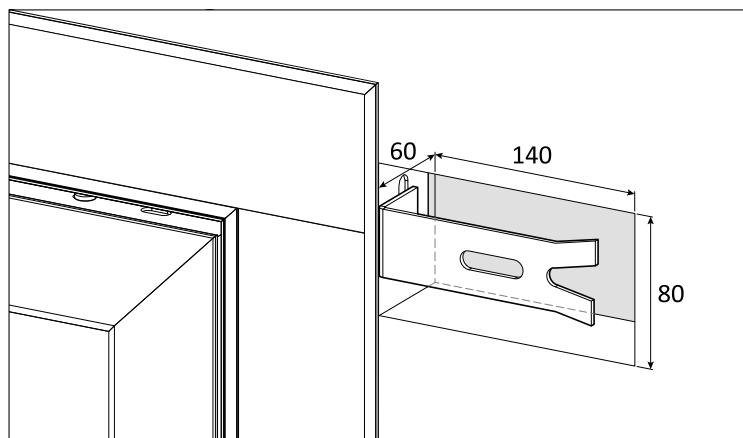
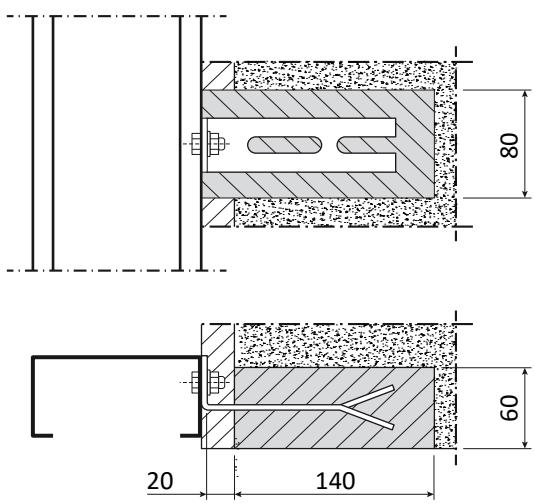


CASE 1 - ANCHORING OF SIDE WALL BRACKETS

- Mark the position on the wall according to the quotas shown on the project drawing, then drill;
- Fix the door by means of bolts;
- Secure the screws..



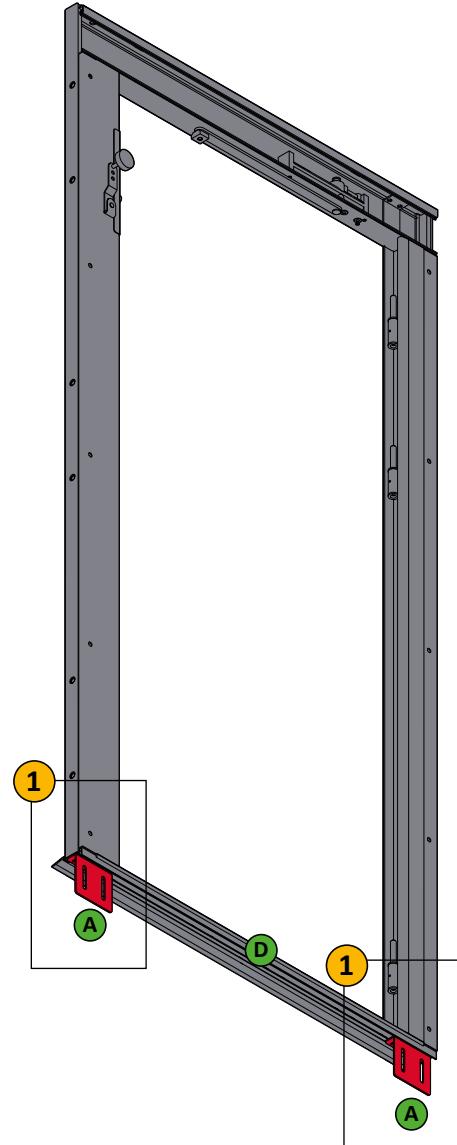
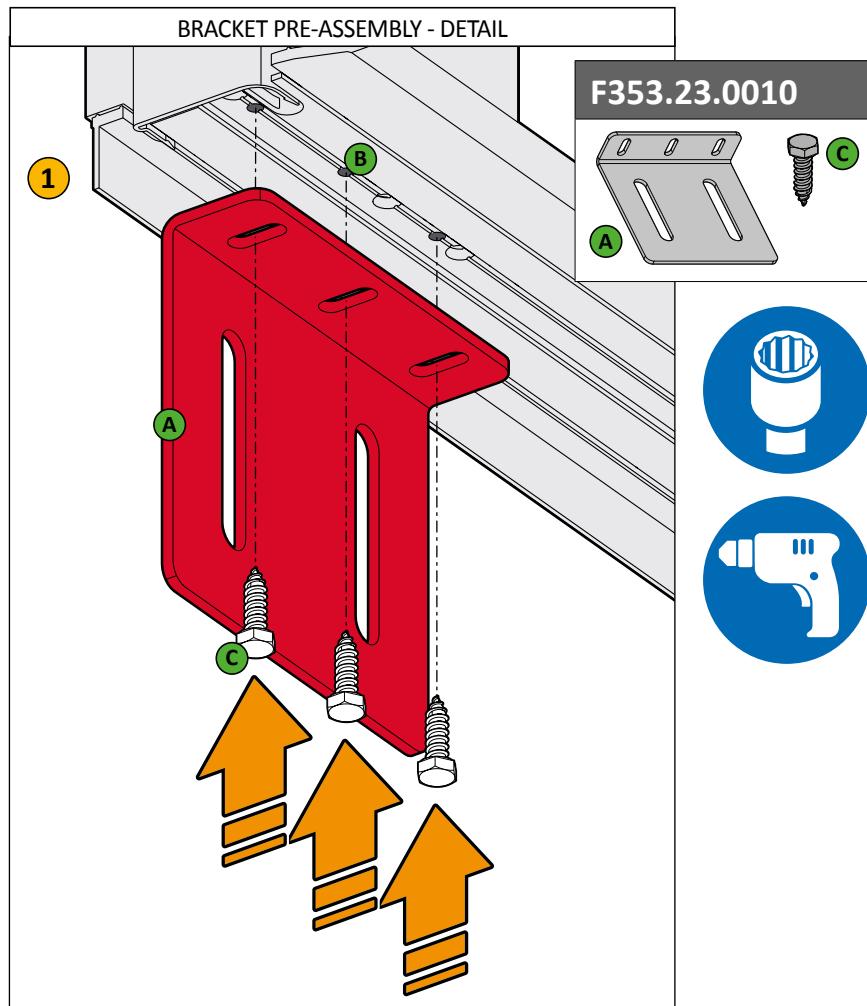
CASE 2 - WALLING IN OF SIDE WALL BRACKETS



8.02.02 MOUNTING WITH BRACKETS

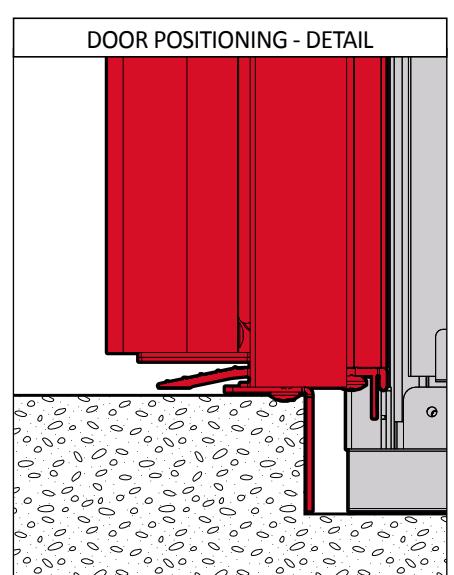
PRE-ASSEMBLY OF BRACKETS UNDER THE DOOR FRAME

1 Attach the brackets **A** to the underside of the door frame **D**, at the prepared holes **B**, using the self-tapping screws provided in the kit **C**.



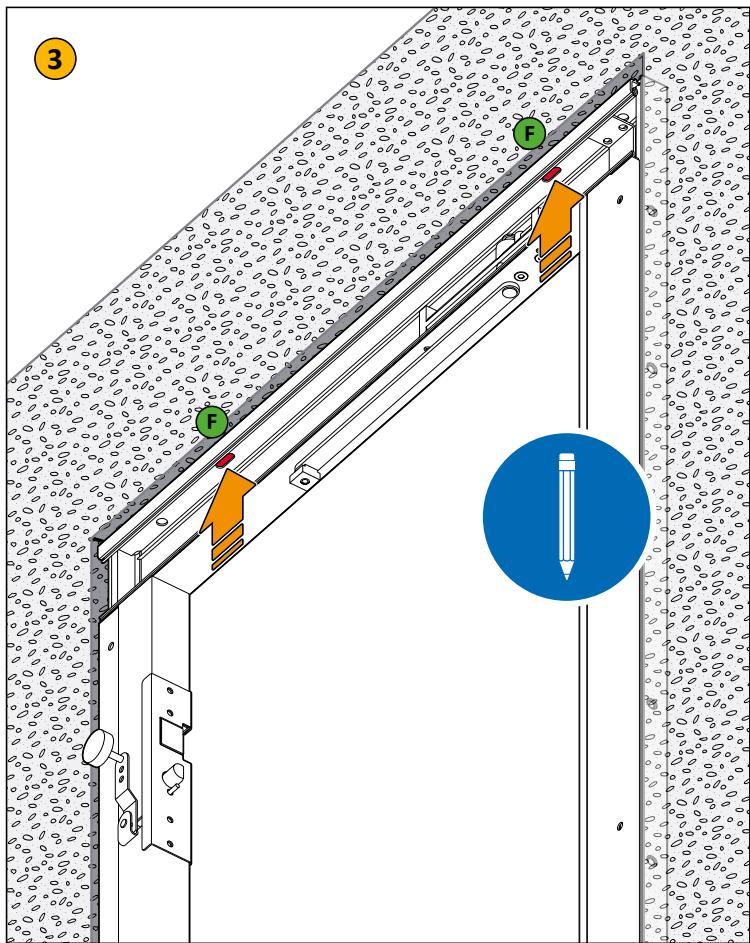
CORRECT POSITIONING ON THE GROUND

Check that the door is correctly supported on the floor.

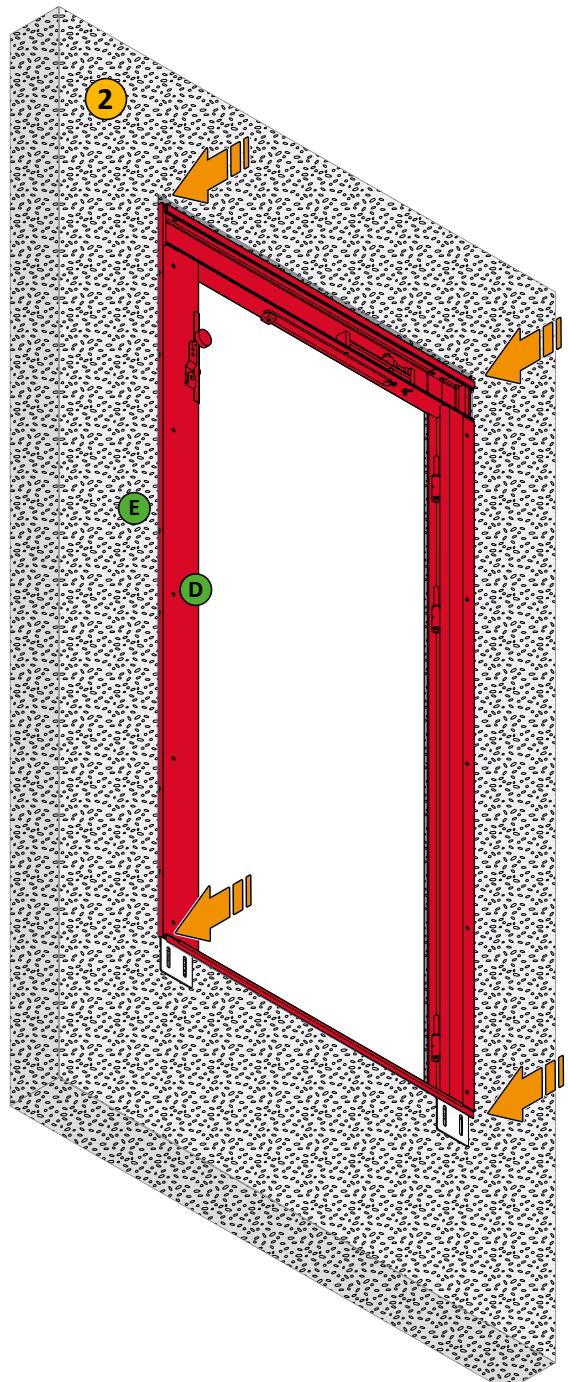
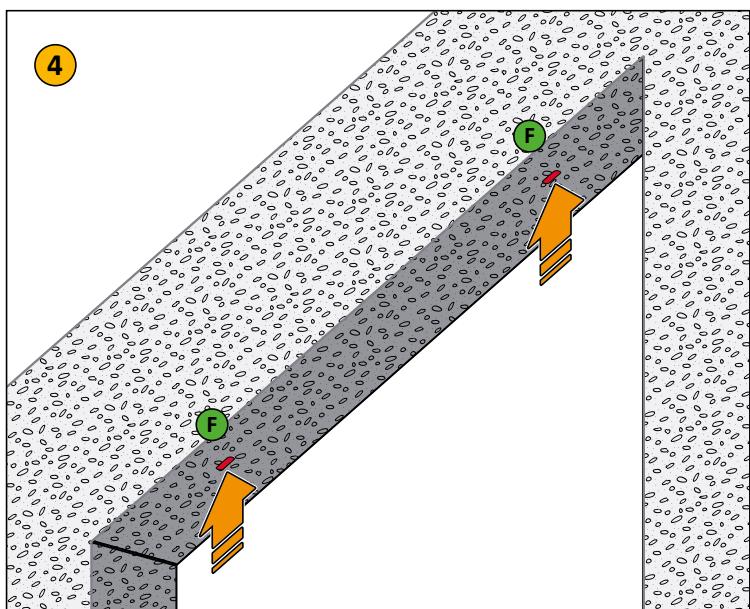


ASSEMBLING THE DOOR

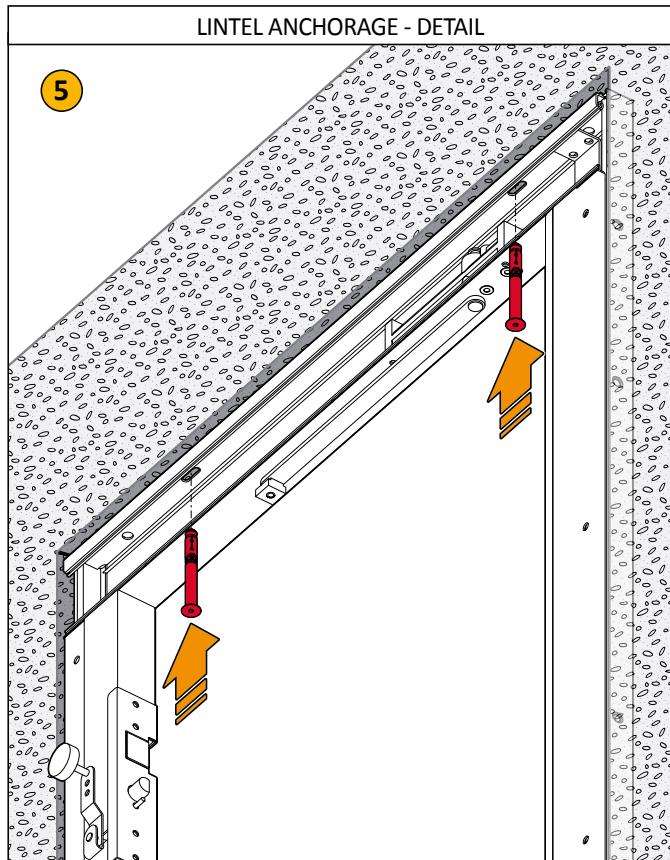
- 2 Position the door **D** accurately in the doorway **E**.
- 3 Mark on the lintel the points **F** where the door is to be anchored using dowels (using the door frame as a template).



- 4 Remove the door **D** and drill the lintel at the anchoring points **F**.



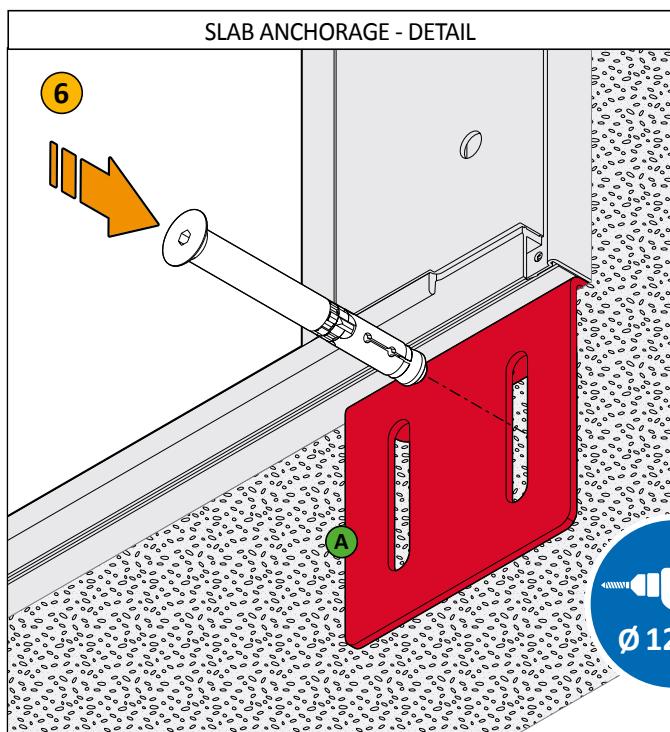
5 Reposition the door **D** and anchor it to the lintel with the expansion plugs.



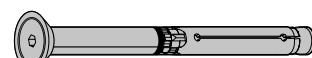
F353.23.0010



6 Drill the slab in the slots of the brackets **A** and anchor the door **D** to the slab with the expansion dowels..

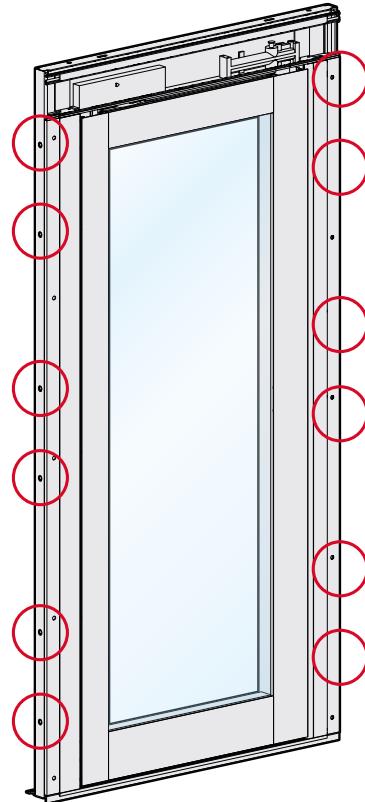
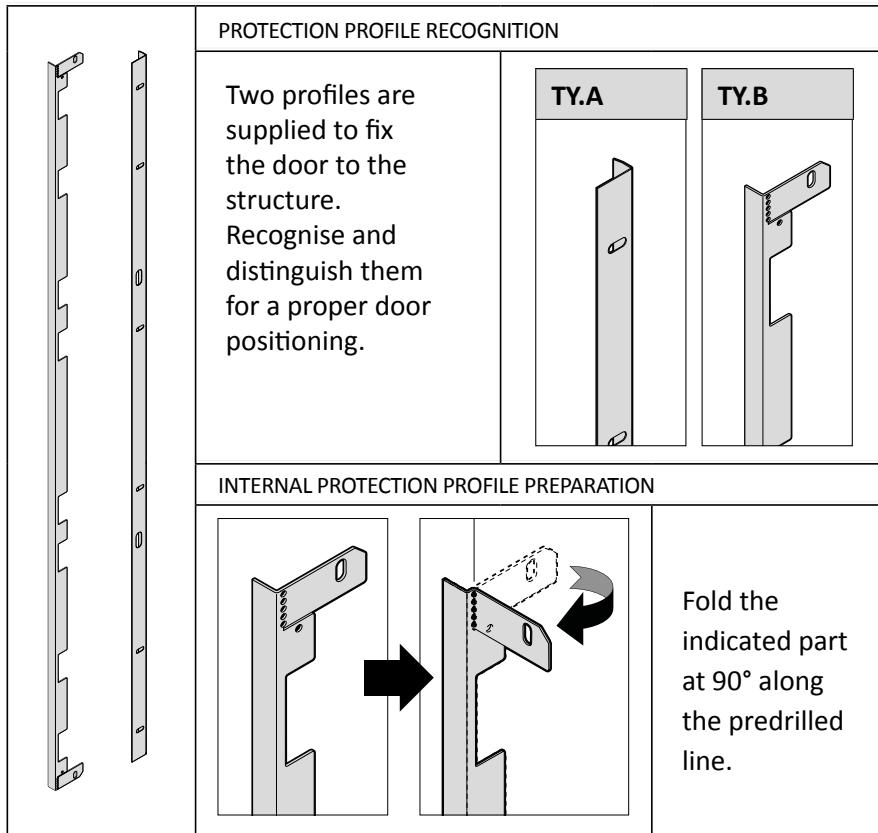


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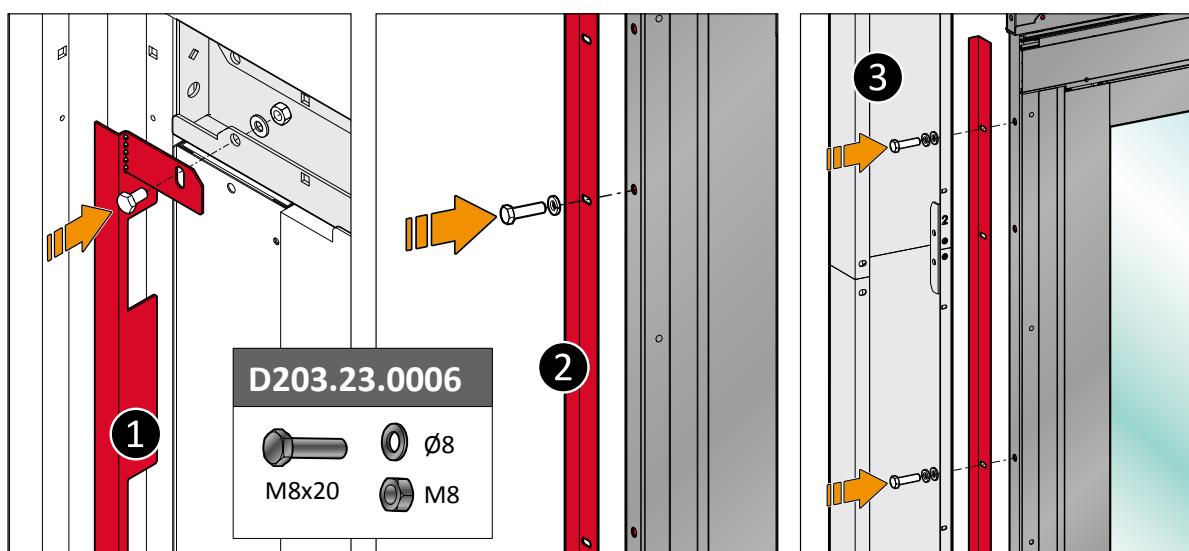
8.03. Installation on steel structure (Cross 50.2)

	Door installation can proceed only once the steel cladding to the sides of the door frame has been installed.
	At this stage the door frame should be fully assembled; if otherwise go back to the relevant section of this manual.



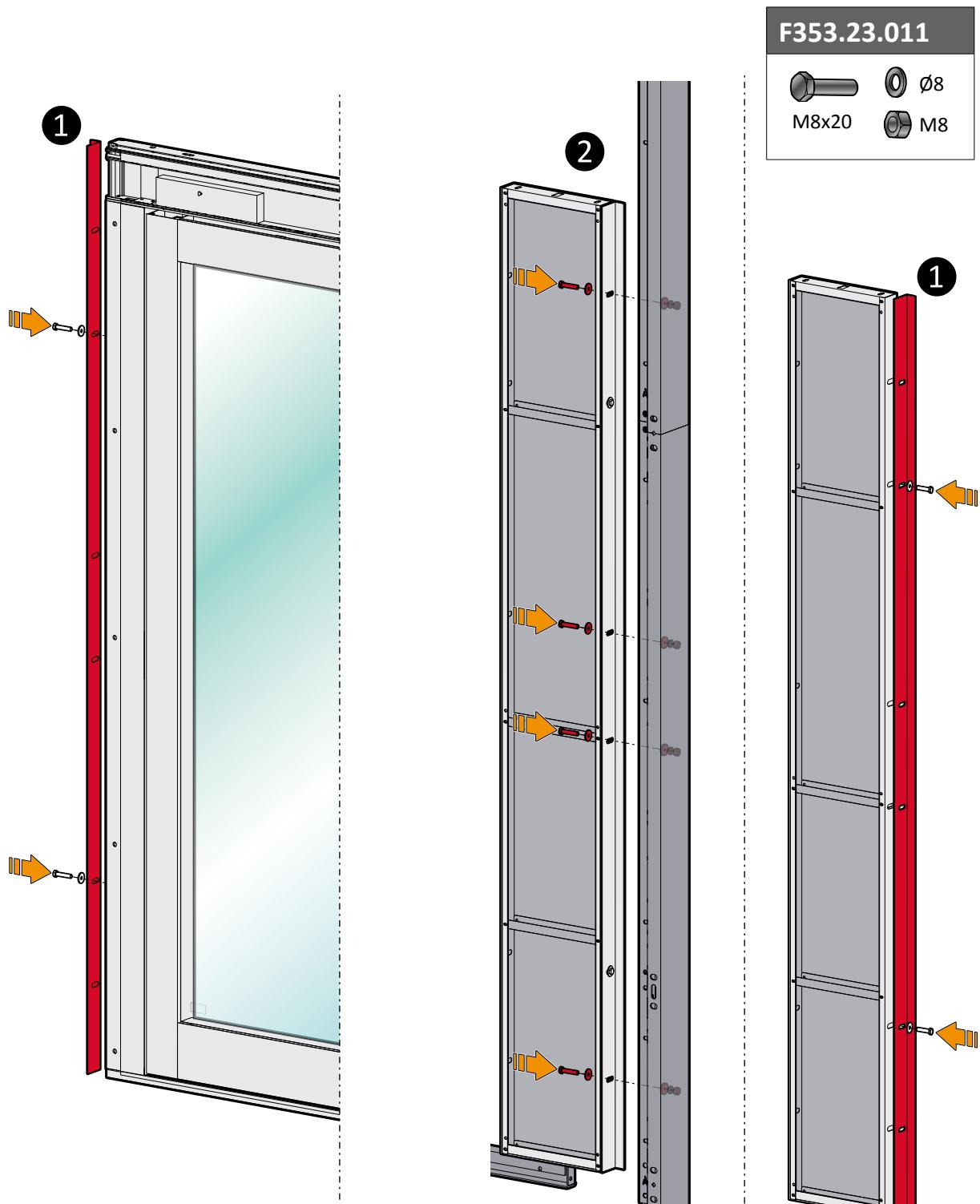
INSTALLATION OF SAFETY PROFILES

- Install the internal joint cover 1, attaching it to the transoms above and below the door.
- Install the external joint cover 2 on the door;
- Secure the door to the iron shell (side only) 3 using the door riveloxs.



8.04. LINE Door - mounting on shell

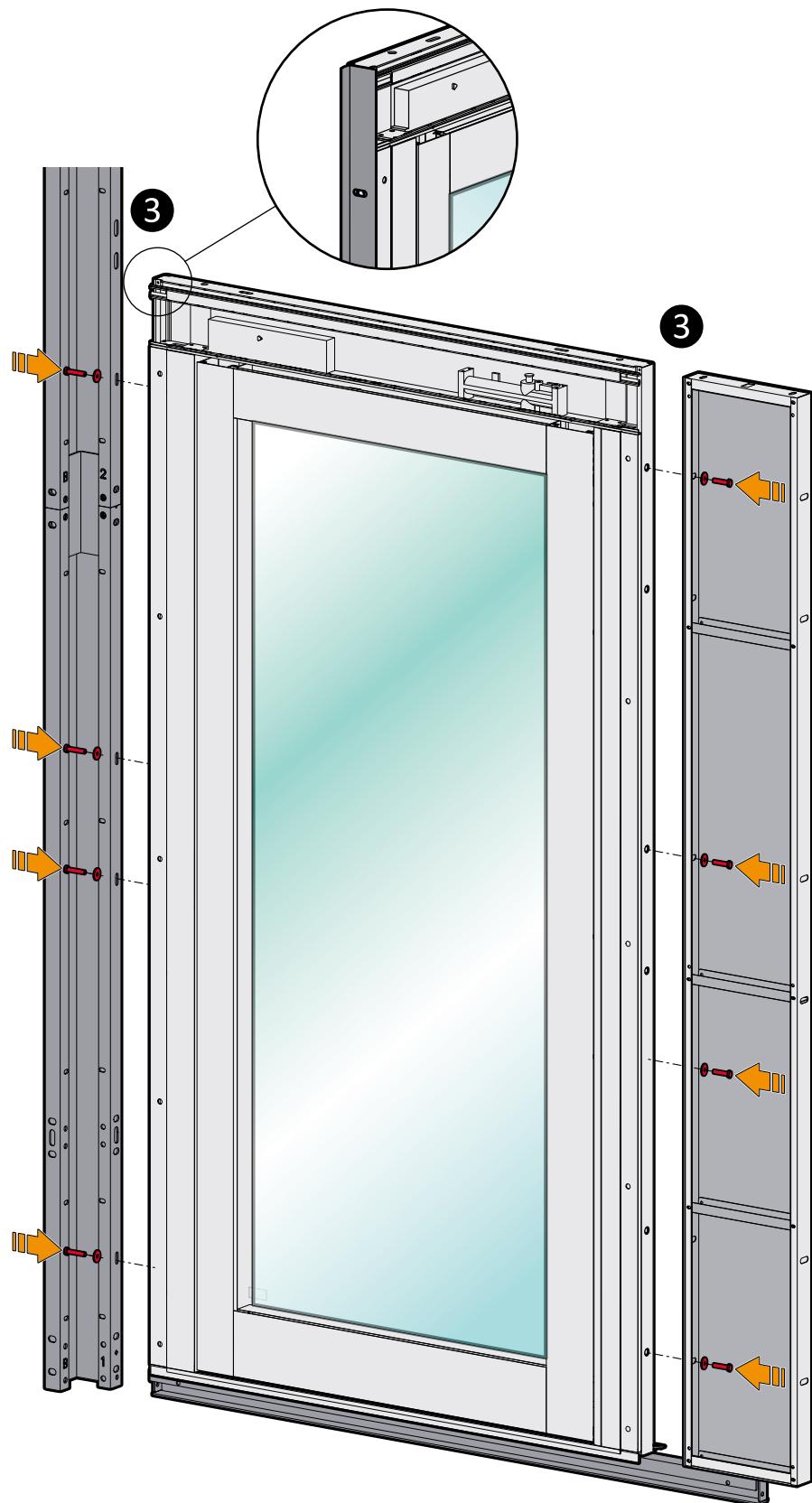
- 1 Pre-fit the wire covers on the door and on the infills when present.
- 2 Secure the infills to the door (according to design) or, alternatively, pre-fit the infills directly to the jambs of the shell before installing the door.



The door mounting kit on the infills is supplied with the structure.

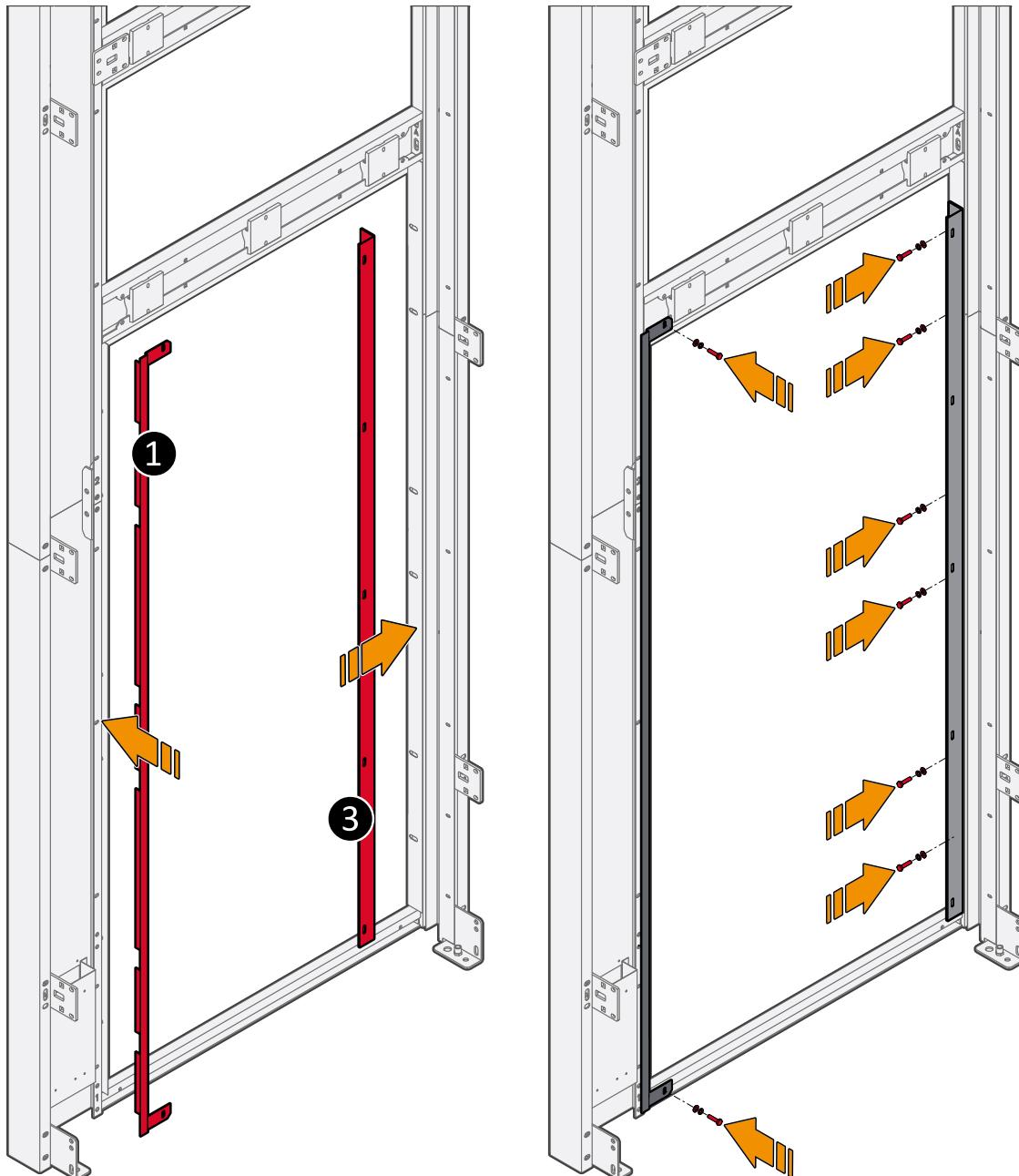
3 Insert the door into its seat and secure it according to the reference manual.

	Ensure that the wire cover 1 is always pre-installed on the door.
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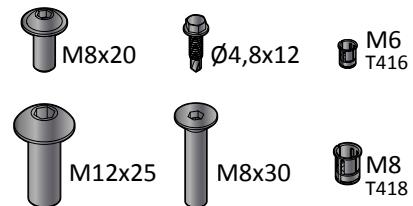


8.05. Installation on special shell (StairFit)

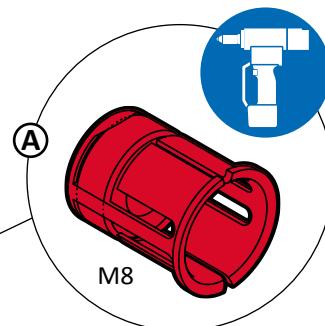
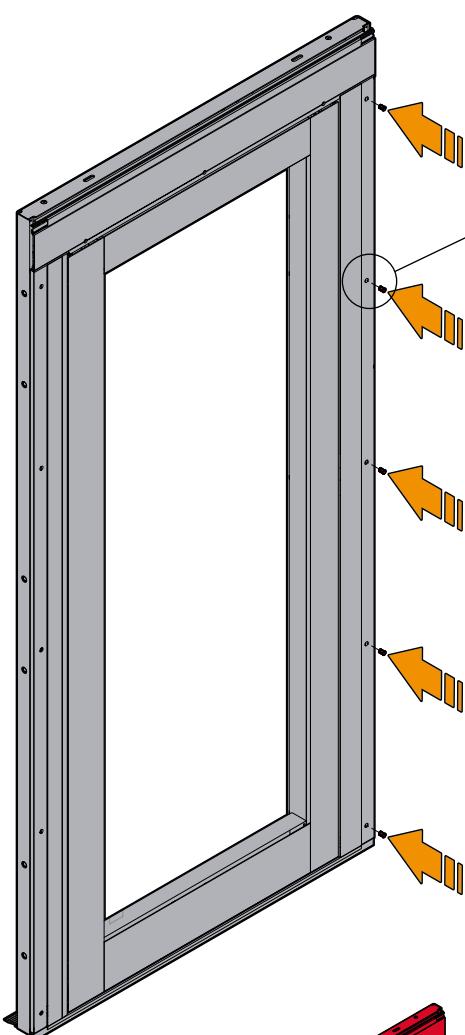
Install the internal safety profile **1** (internal joint cover), securing it to the transoms above and below the door. Install the door mounting corner profile for reduced jamb **3**.



F353.23.0011

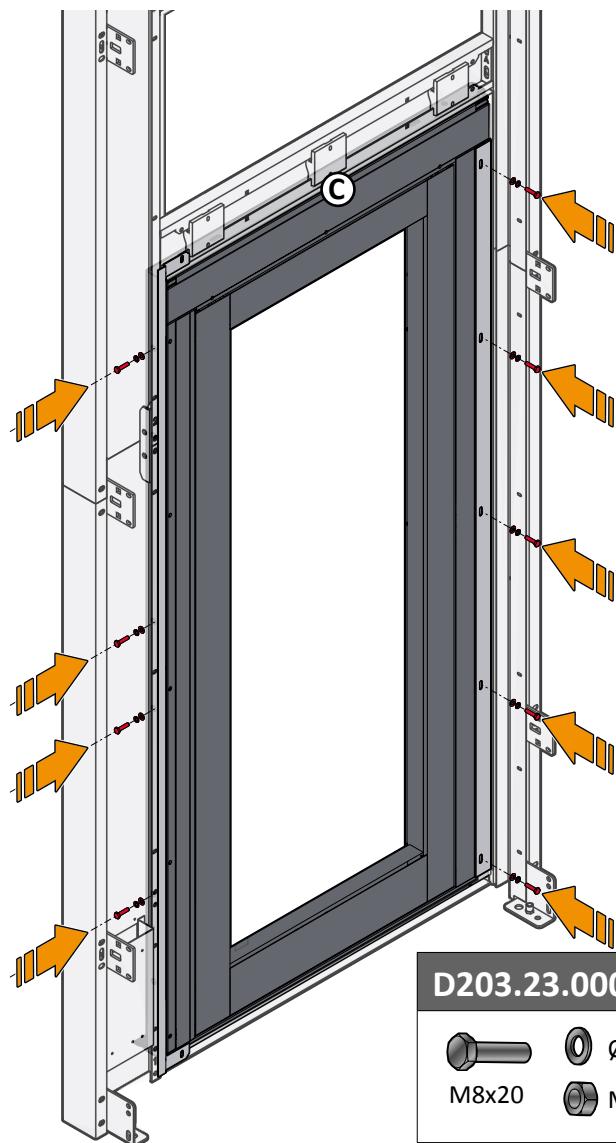
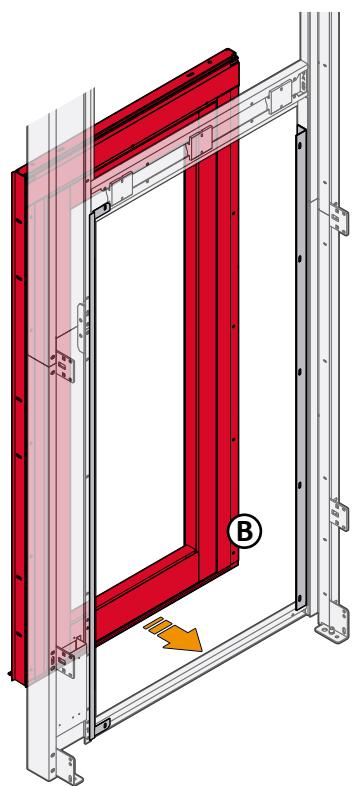


- Insert the riveloxs M8 **(A)** provided into the appropriate holes in the LINE door.
- Position the LINE door **(B)** against the newly installed mounting profiles.
- Secure the door with the supplied hardware **(C)**.



F353.23.0011

	M8x20		Ø4,8x12		M6 T416
	M12x25		M8x30		M8 T418

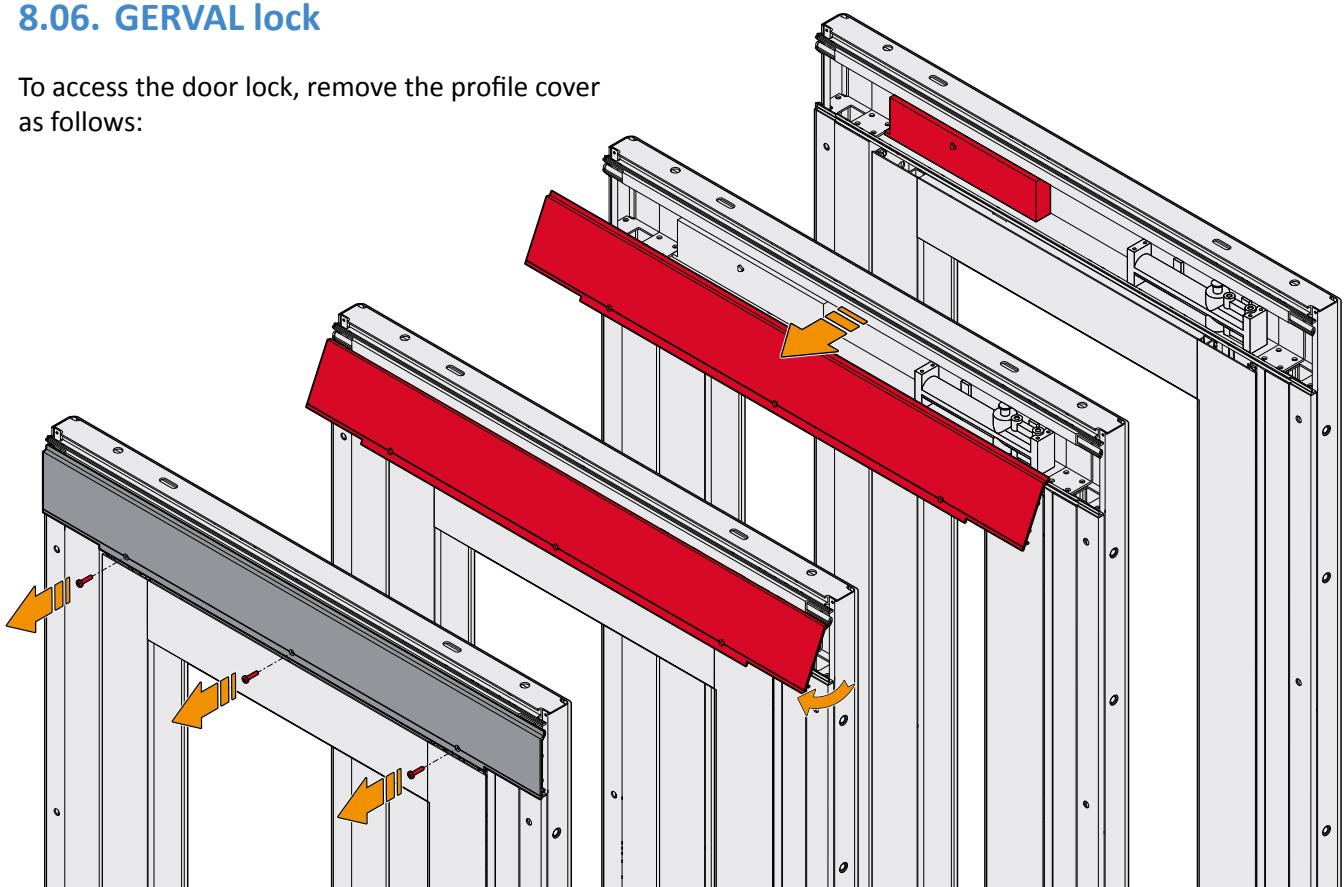


D203.23.0006

	M8x20		Ø8
	M8		M8

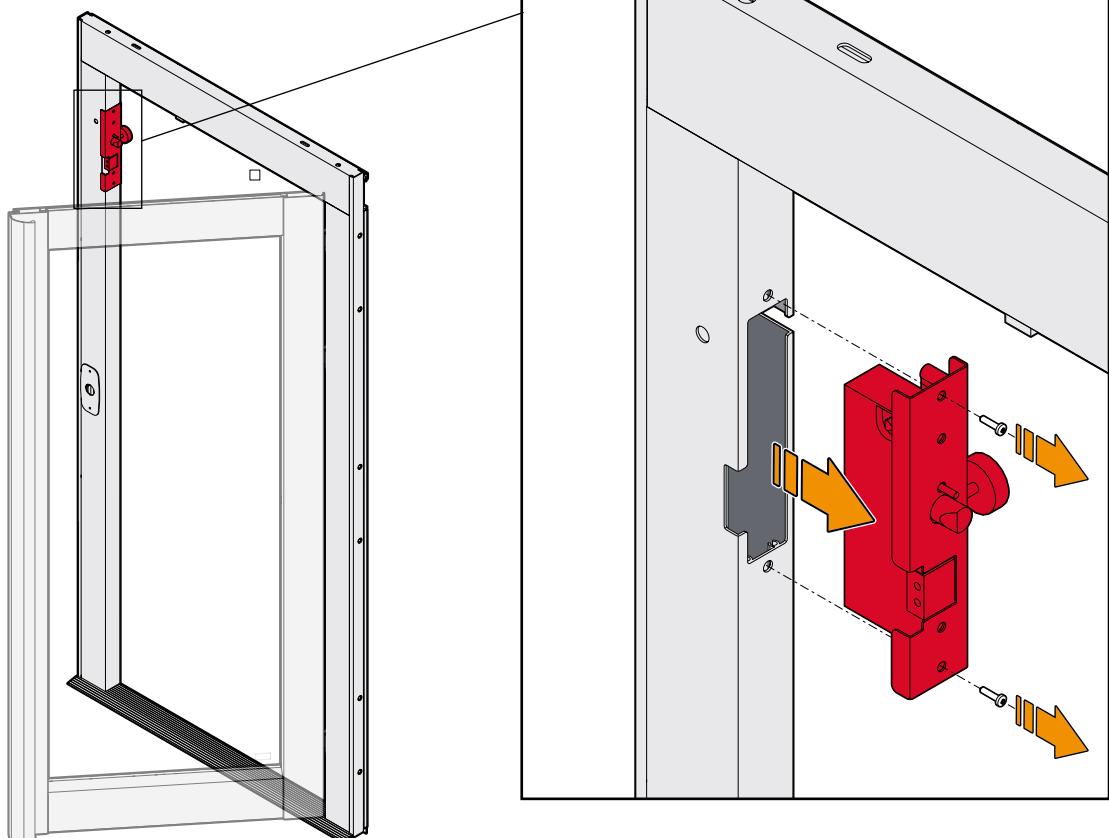
8.06. GERVAL lock

To access the door lock, remove the profile cover as follows:



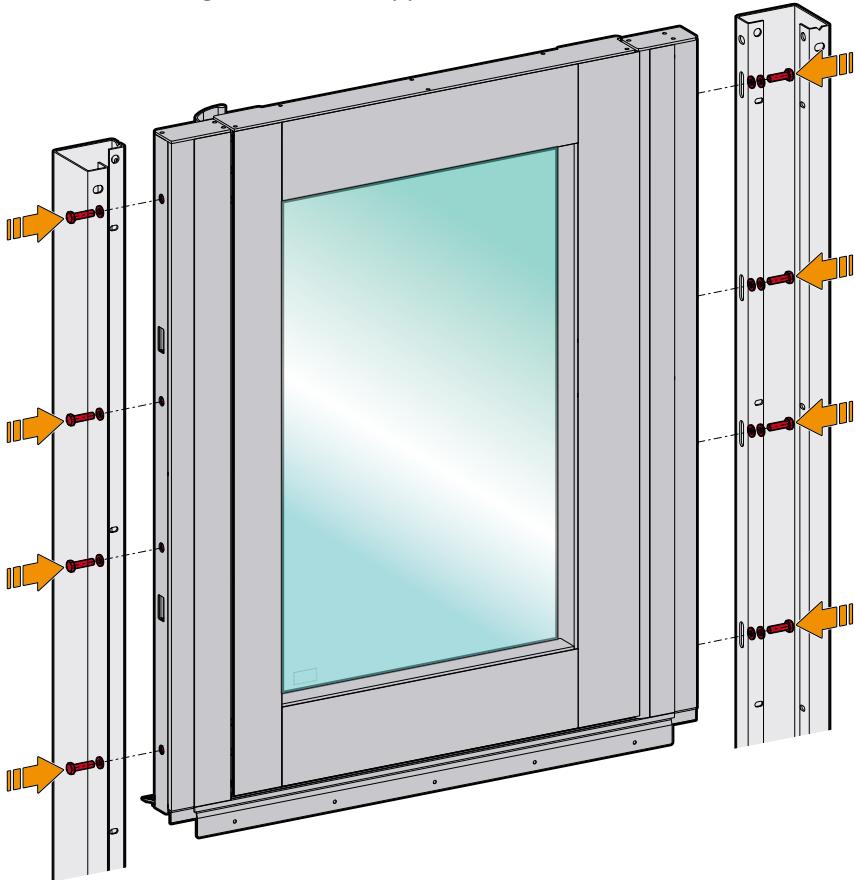
8.07. CAN-LIFT lock

- To remove the door lock, remove the retaining screws as follows.



8.08. LINE GL/BL gate - installation on steel shell (Cross 50.2)

- Secure the LINE gate with the supplied kit.

**F353.23.011**

		Ø8
M8x20		M8

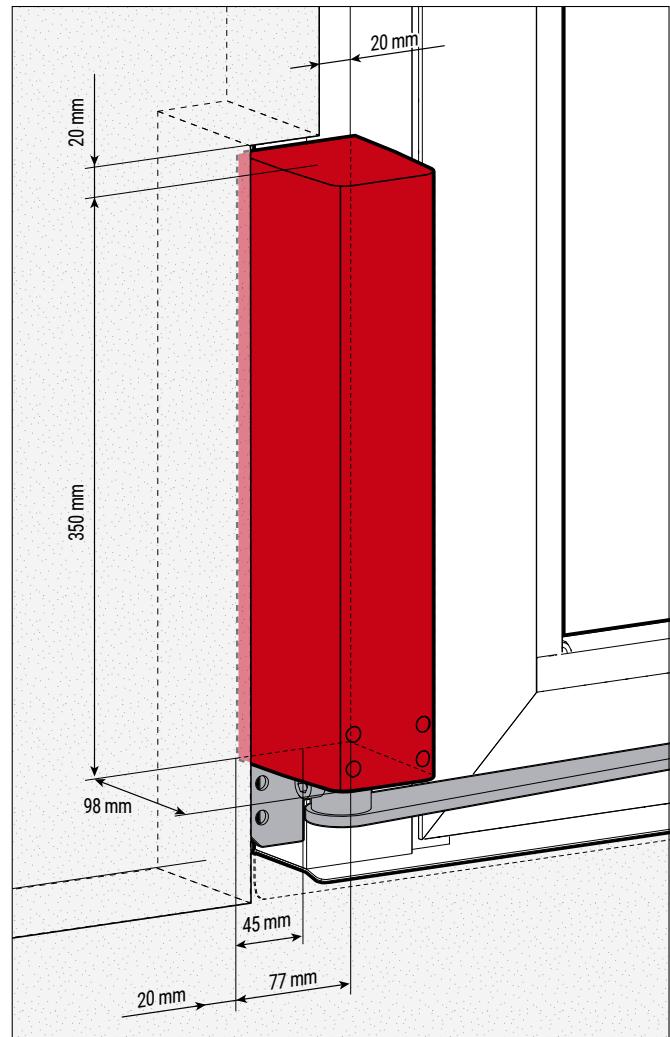
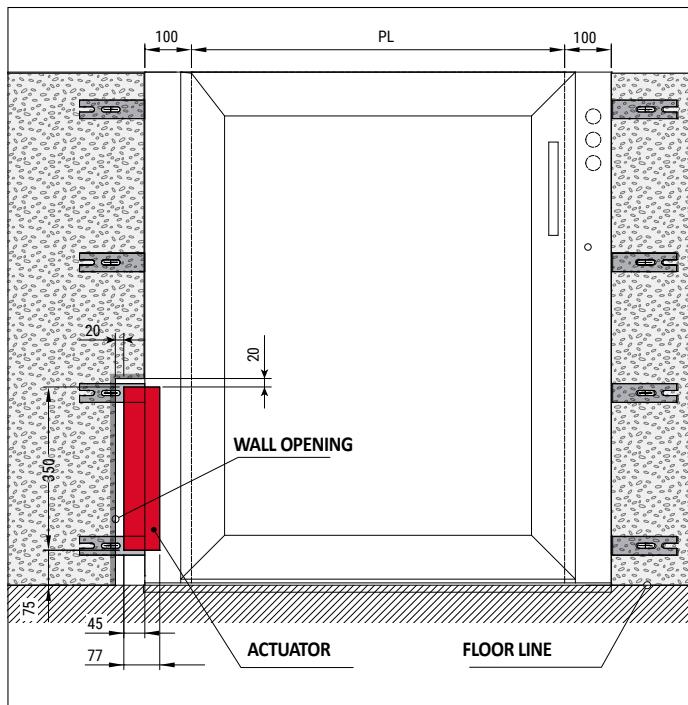


Refer to § 8.2 for installation on wall shaft.

8.09. Gate with “CAME” automatic door opener

8.09.01 INSTALLATION ON WALL SHAFT

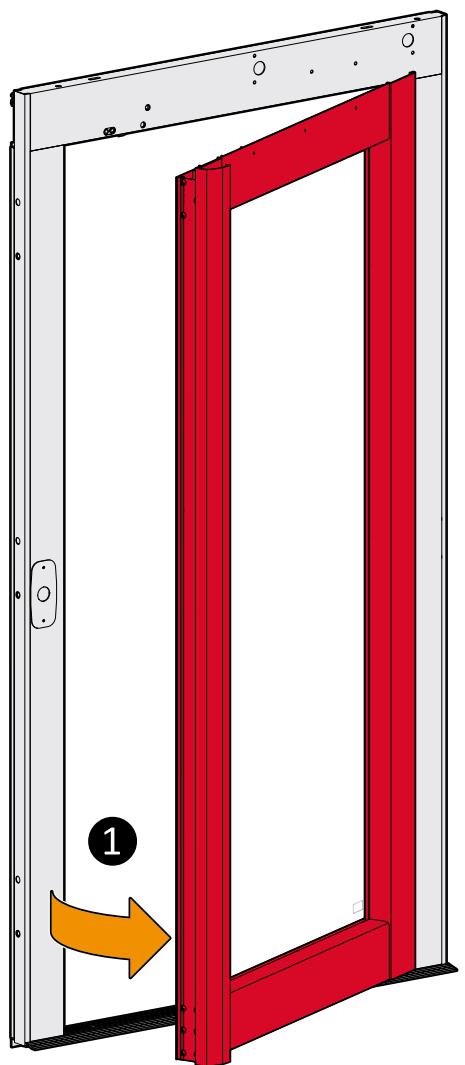
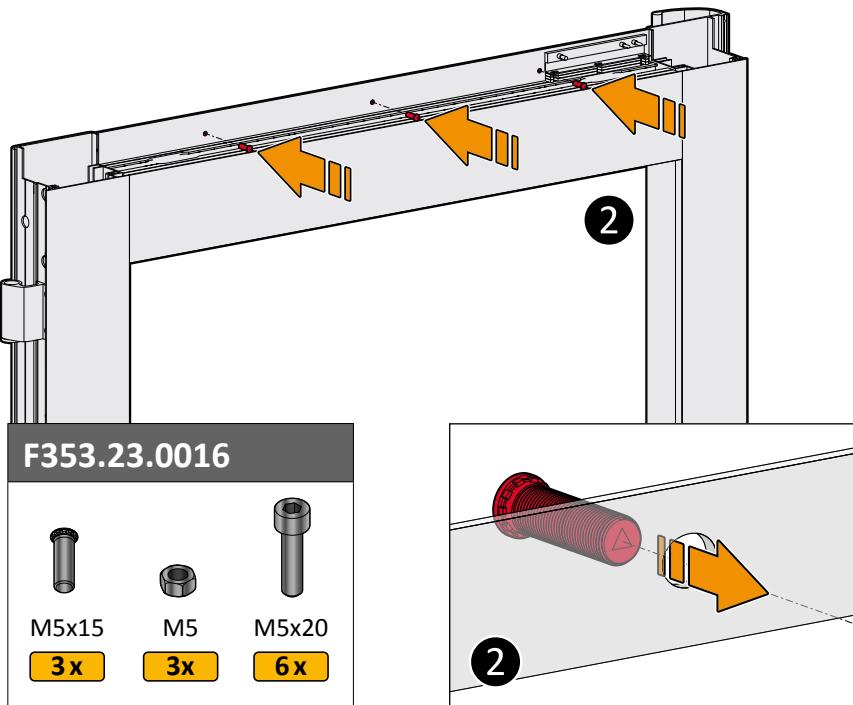
- Create an additional opening in the wall shaft to house the door opener, on the floor side, leaving a minimum gap of 20 mm between the wall and the door closer/actuator..



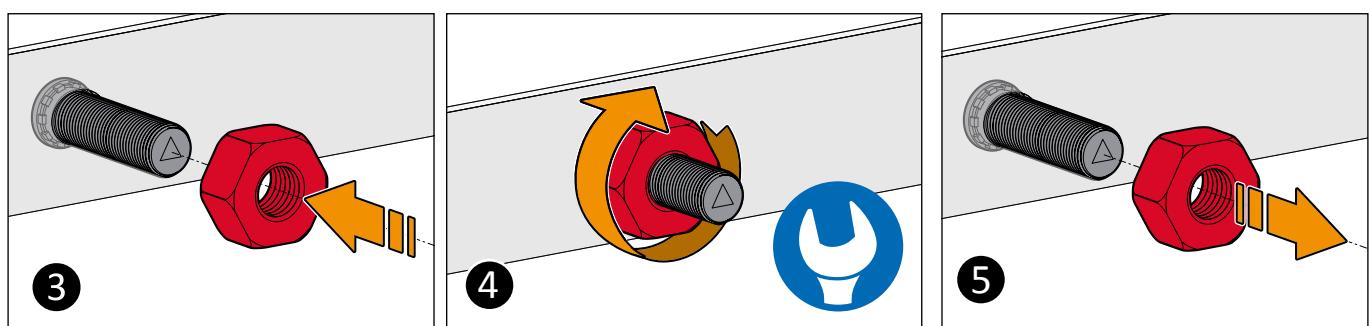
8.10. Door with “FACE” automatic opener

8.10.01 INSTALLATION OF “FACE” AUTOMATIC OPENER

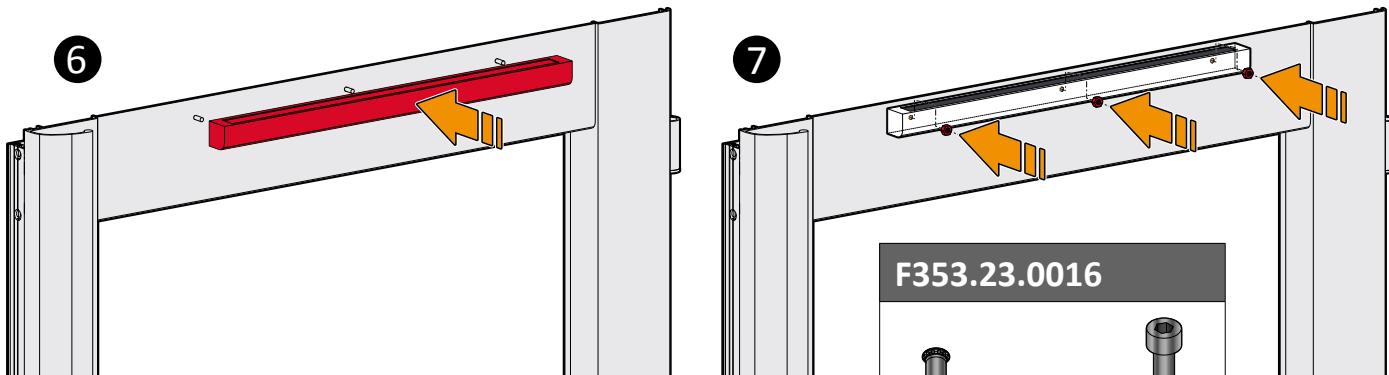
- 1 Open the door leaf to access the inner side.
- 2 From the inner side, insert the M5x15 pins into the specific holes.



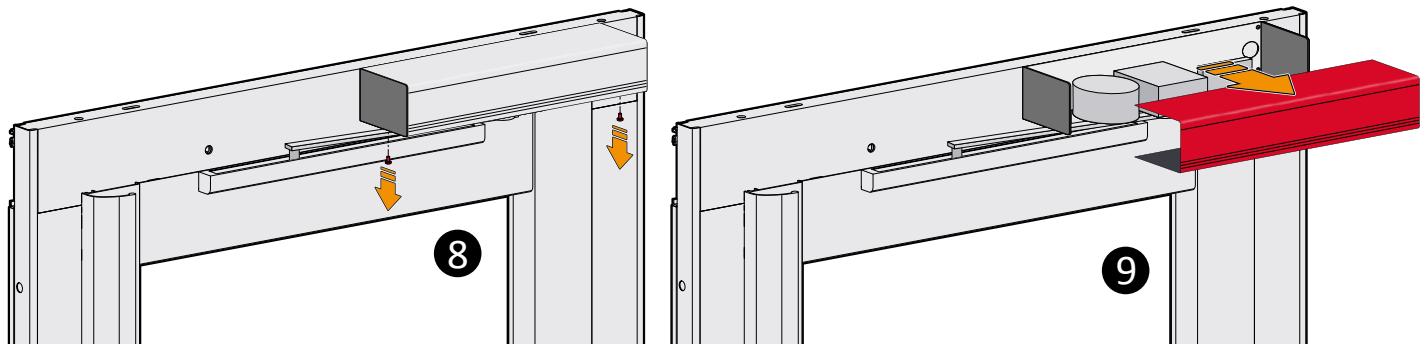
- 3 Insert and screw the M5 nuts from the outer side of the leaf
- 4 Fully tighten the nuts, so that the fastening teeth penetrate the aluminium sheet.
- 5 Unscrew and remove the nuts.



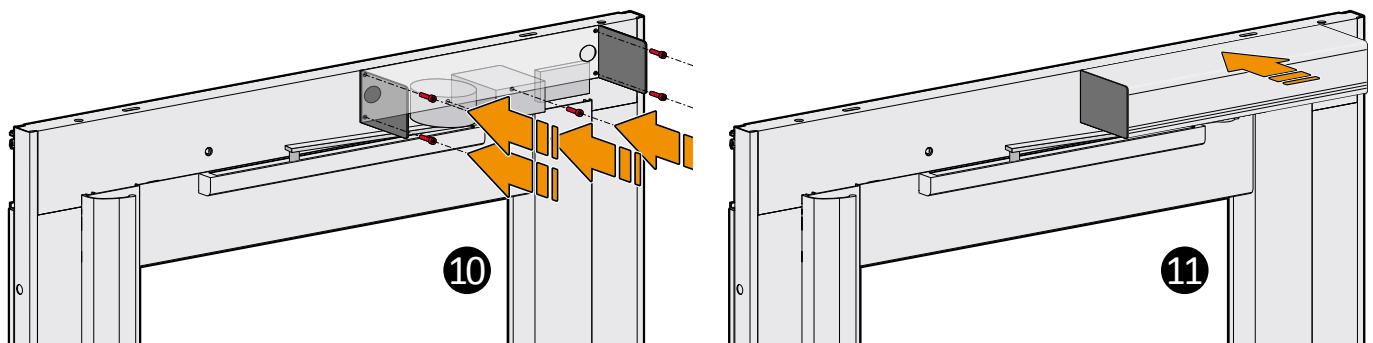
- 6 Position the guide of the "FACE" mechanism on the leaf.
- 7 Secure the guide with the supplied M5 nuts.



- 8 Remove the retaining screws of the actuator covering casing.
- 9 Remove the actuator covering casing.

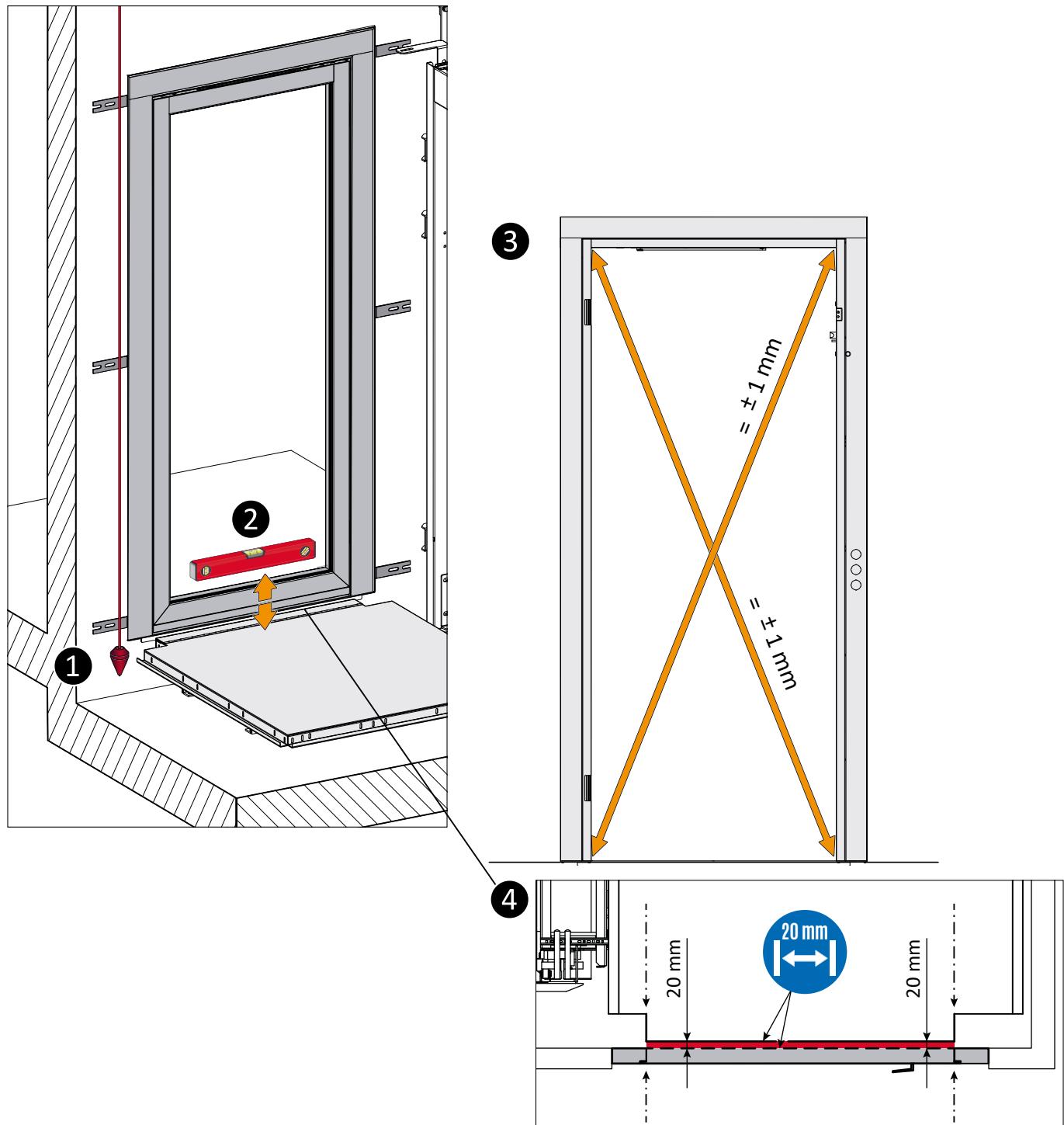


- 10 Secure the actuator with the six M5x20 screws provided in the specific KIT.
- 11 Reposition and secure the actuator casing.



9. Dimensional checks

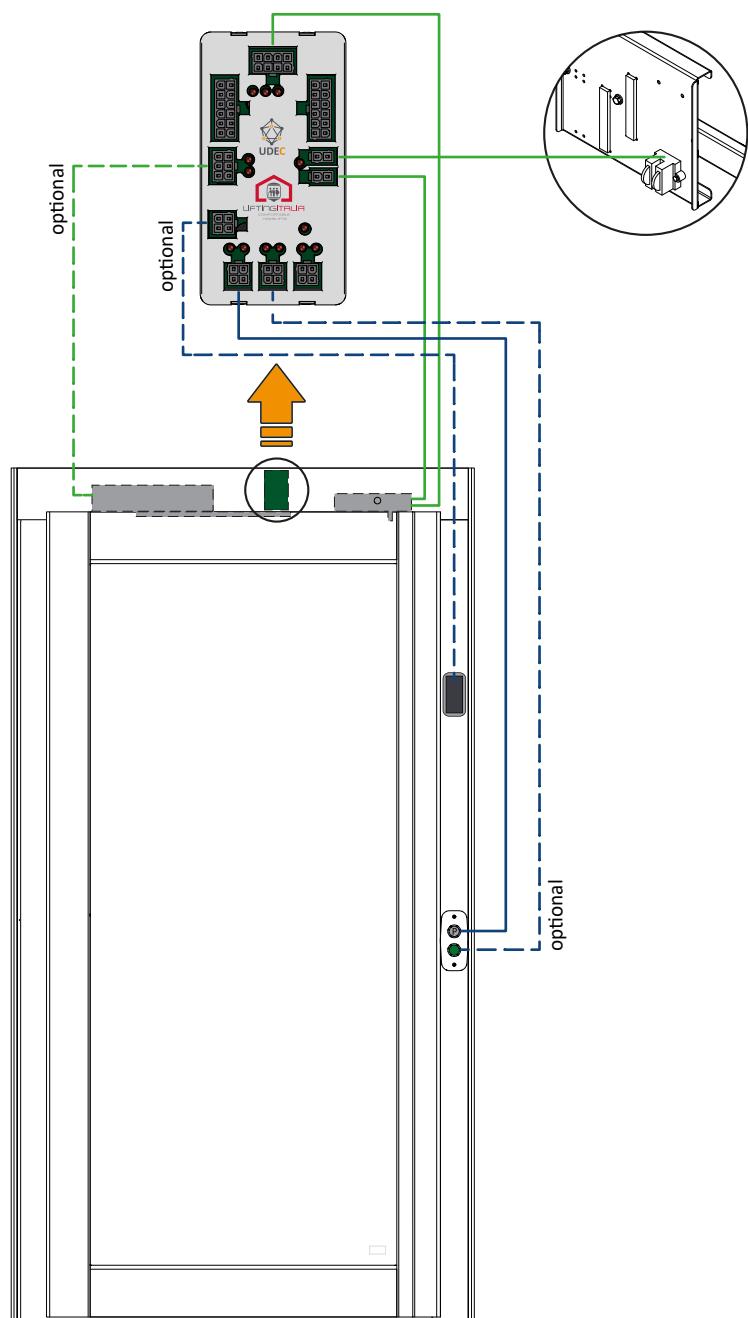
- 1 Uprights must be plumb;
- 2 Door sill must be level;
- 3 Doorway diagonals verification;
- 4 Door must be aligned with car floor;
- 5 Verification of distance between door leaf and finished floor level, including vertical adjustment of door leaf as required.



10. Wiring

WARNING		WEAR APPROPRIATE PPE
 ELECTROCUTION RISK. Before working on electrical systems, always ensure that the safety devices are active and wear the PPE (Personal Protective Equipment) as required by law..		  
 For electrical connections, refer to the manual IM.TEC.129 "ELECTRICAL EQUIPMENT (U.D.E.C.) INSTALLATION AND DIAGNOSTIC INSTRUCTIONS" and to the system wiring diagram.		

UDEC.D

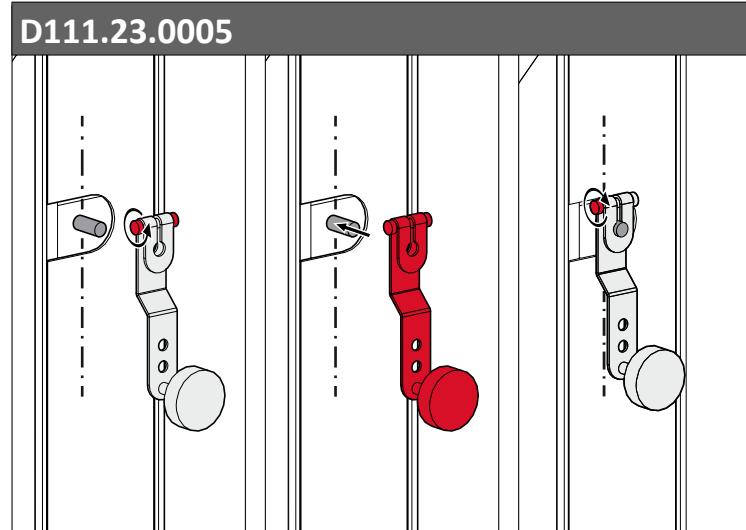
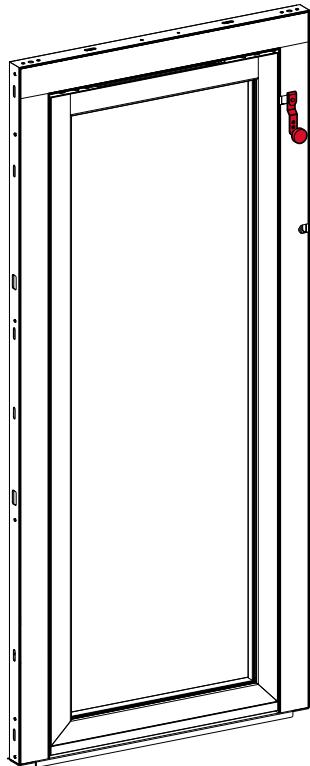


11. Final assembly

11.01. Loch lever (if any)

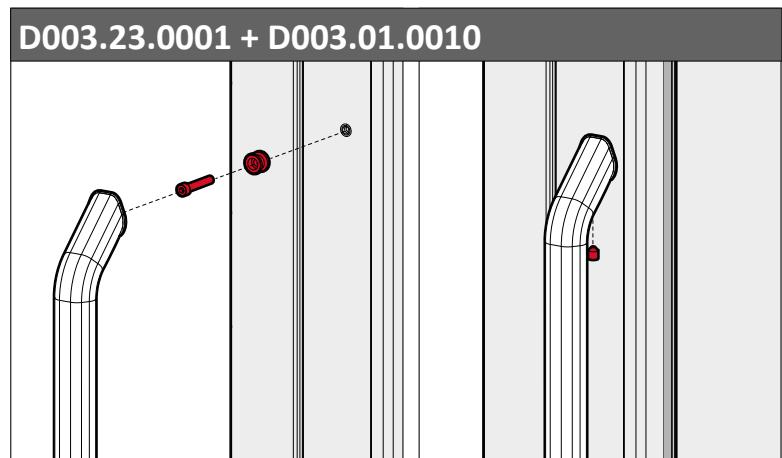
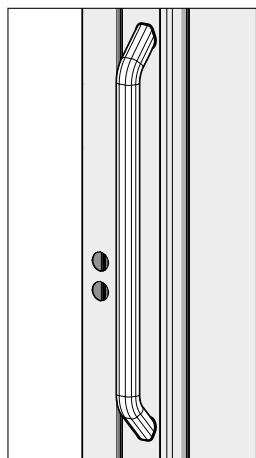
- Fit the door release lever as indicated on the project (to be adjusted once the car has been assembled).

	THE DOOR RELEASE LEVER IS ABSENT in the presence of electrical interlock.
	Please refer to the layouts for proper installation.

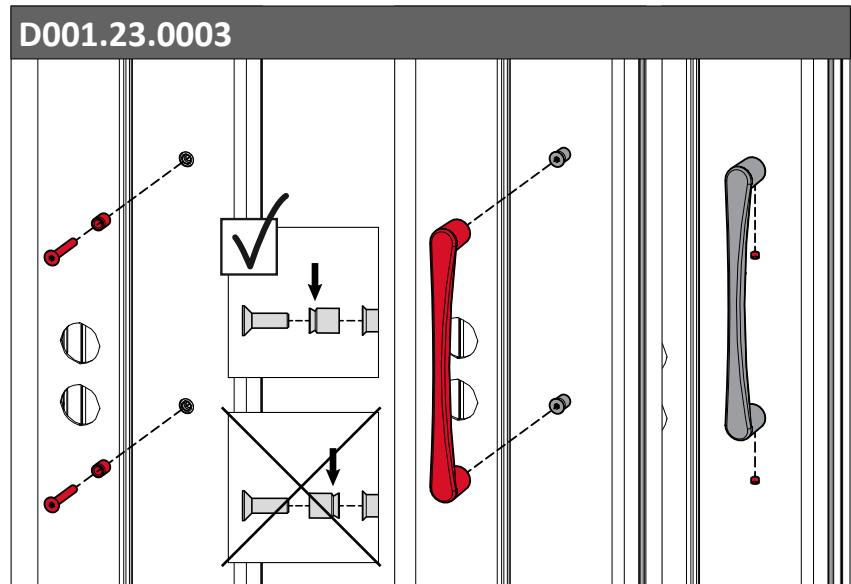
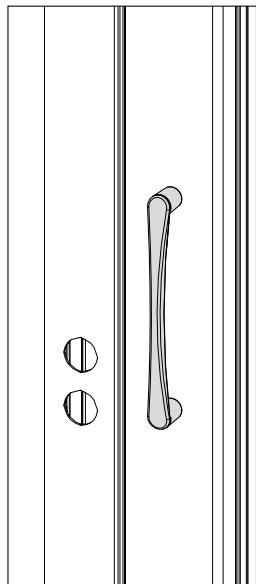


11.02. Optional handles

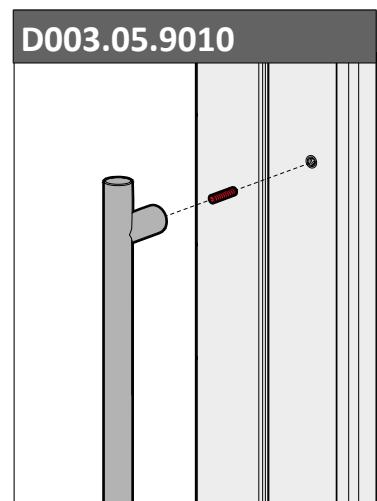
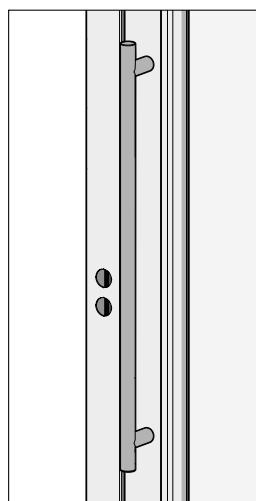
11.02.01 EXTRUDED ALUMINIUM HANDLE



11.02.02 BRUSHED STAINLESS STEEL HANDLE



11.02.03 STAINLESS STEEL STRAIGHT HANDLE



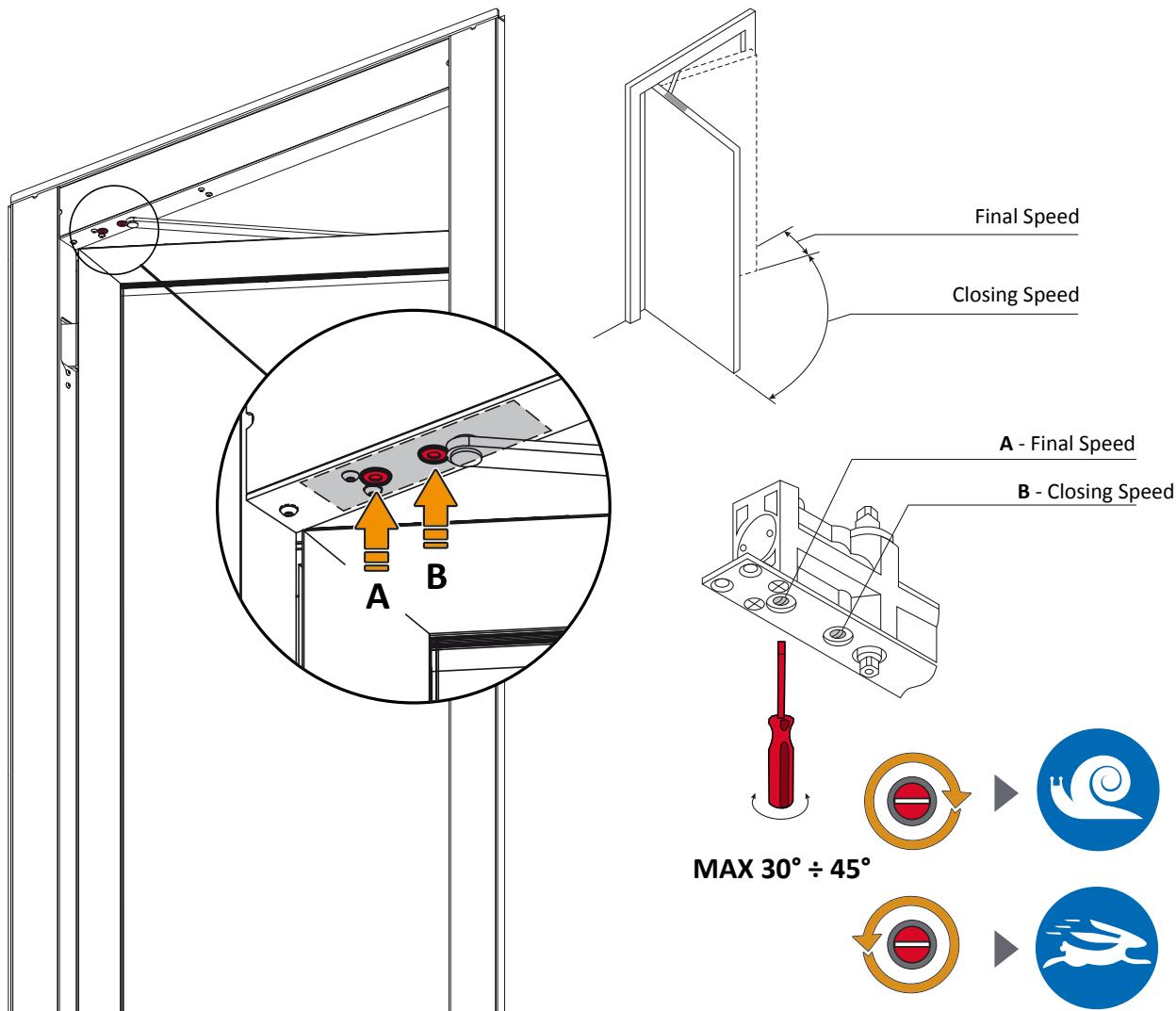
12. Final adjustments

12.01. Manual door closer



ADJUSTING THE CLOSING SPEED AND THE FORCE OF THE FINAL STROKE, which are usually performed using special screws, **ARE IMPORTANT**, both to adapt perfectly the action of the door-closer to the weight of the door on which it is applied, and to ensure effective operation in all seasons. The viscosity of the internal oil actually changes in relation to the external temperature. **THE ACTION OF THE DOOR-CLOSER IS THEREFORE SUBJECT TO NATURAL SEASONAL VARIATIONS THAT MAY REQUIRE MINOR PERIODIC ADJUSTMENTS**, in order to maintain the effectiveness of the mechanism. The door-closer has 2 different adjustments: the closing speed and the force of the end stroke that is used to overcome the lock latch resistance at the time of closing.

- Adjust the force of the end stroke and then the **Acceleration Speed** according to the weight of the door by rotating screw A no greater than $30^\circ \div 45^\circ$.
- Adjust and periodically check the **Closing Speed** by rotating screw B no greater than $30^\circ \div 45^\circ$.



12.02. Landing door - adjustments

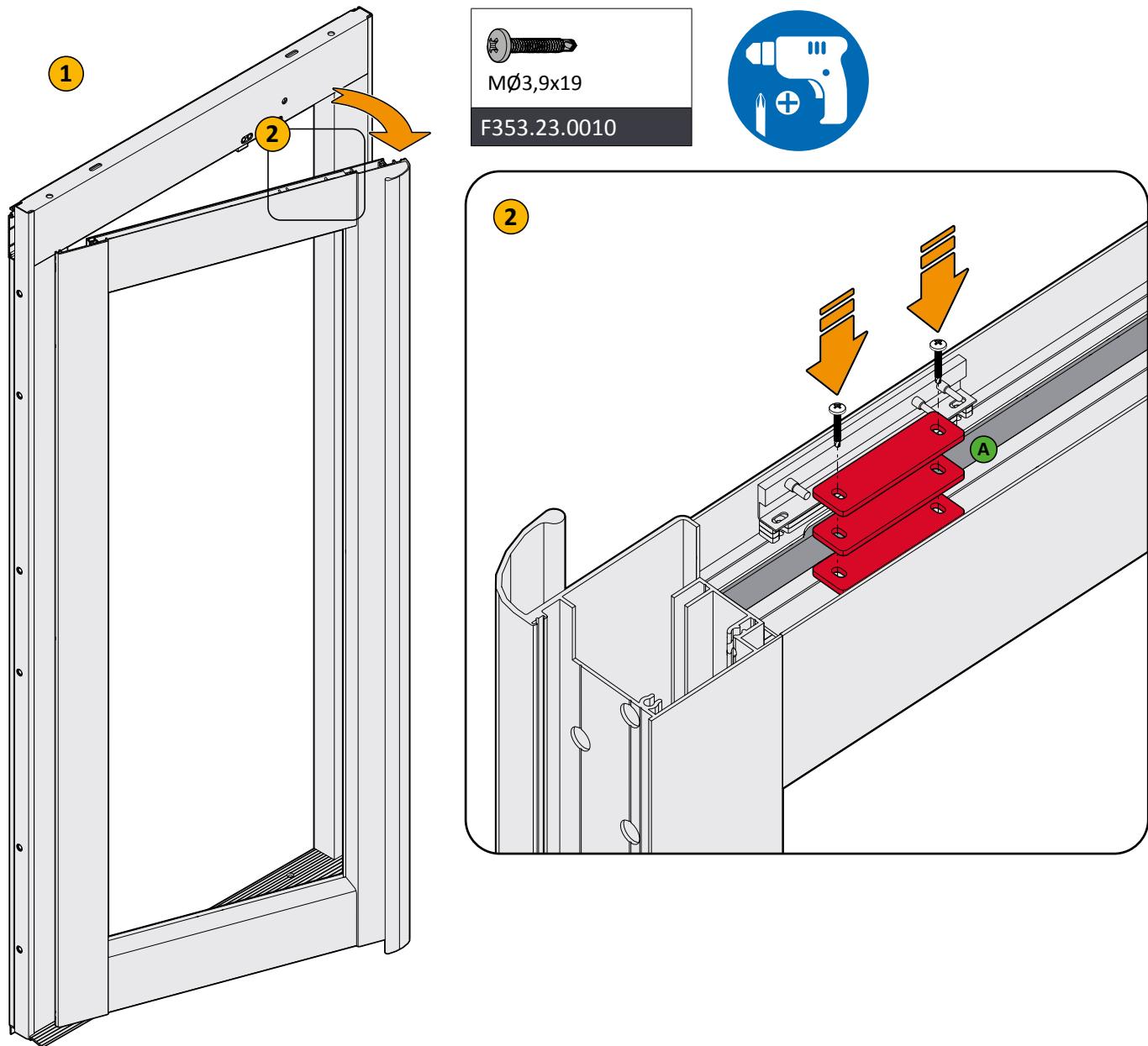
12.02.01 LANDING DOOR - STOP ADJUSTMENT



Should it be necessary to correct an "door stop mechanical clearance", KIT F353.23.0010 contains the equipment needed to carry out the operation as indicated below.

1 Open the door leaf

2 Fix the plates **A** with the self-drilling screws supplied in the kit at the slot in the guide rail.



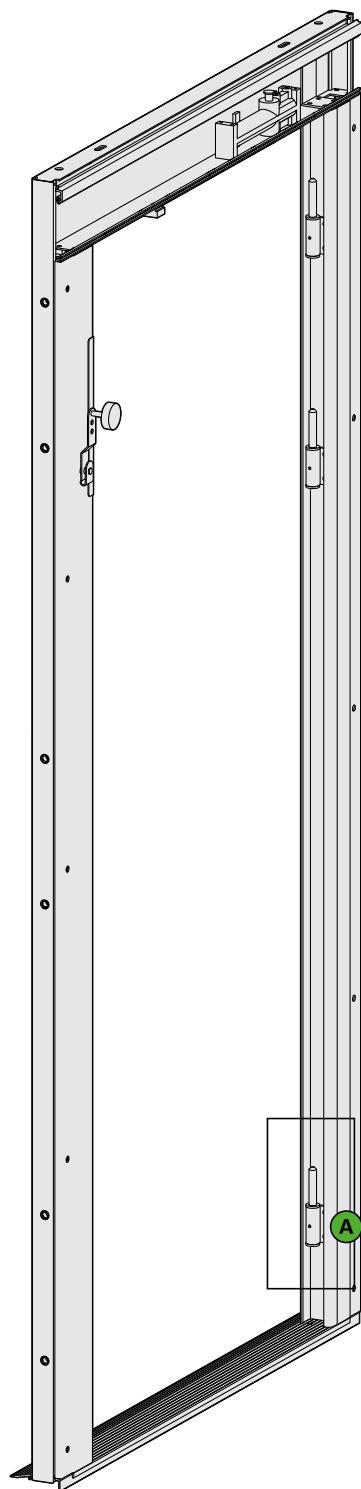
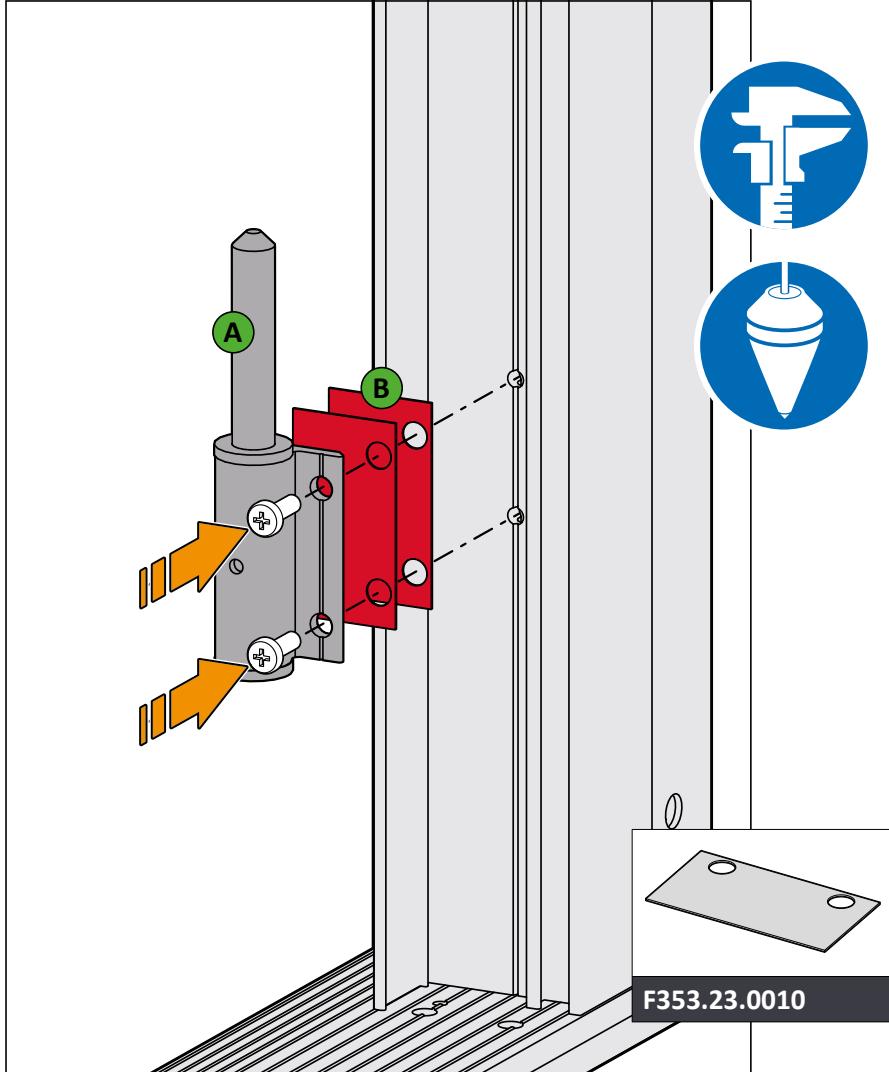
12.02.02 LANDING DOOR - DOOR LEAF - PLUMB LINE



PLUMBING

Any adjustment of the 'plumb' of the leaf is done by inserting special shims (contained in KIT F353.23.0010) under the lower hinge of the jamb (as indicated below).

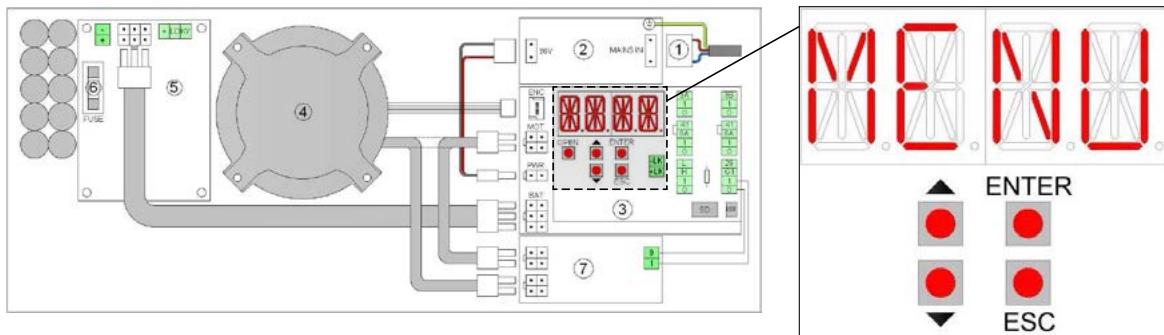
- 1 Measure the out-of-plumb accurately.
- 2 Remove the door leaf.
- 3 Remove the lower door hinge **A**.
- 4 Insert the necessary shims to correct the lead out (0.5 mm each) **B**.
- 5 Re-fix the hinge with the screws previously removed
- 6 Check that the door leaf is correctly plumb.



12.03. Automatic door closer



Here below you will find an extract from the door closer manual, for a proper adjustment of common parameters. For further settings, please refer to the supplier's manual.



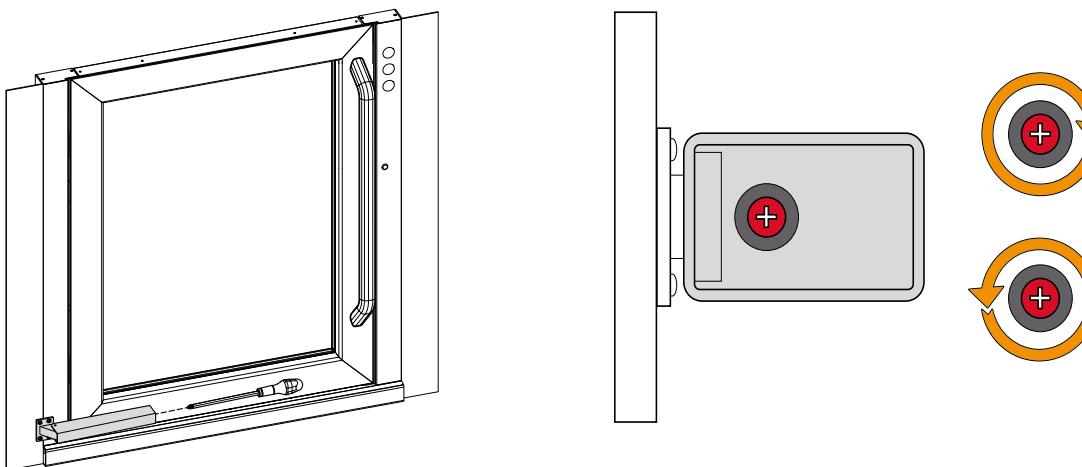
Rif.	Terminals	Description
1	MAINS IN	Power cord for connection to the power grid automation
2	PWR	Switch-mode power supply 36V 65W/75W
3		Electronic controller
4	MOT	Brushless motor
	ENC	Angular sensor
5	BAT	Battery operated power unit
6	FUSE	Battery fuse 5x20 type F10A
7	MOT	Braking scheme (only for automation SW4)

Buttons	Description
ENTER	<u>Select button</u> , to enter the selected parameter. <u>Save button</u> , to "SAVE" the selected value (push for 1 sec).
ESC	To quit the selected parameter / menu
↑	Scroll button, to select an option or to increase value.
↓	Scroll button, to select an option or to reduce value.

As the electric controller is switched on, the word "**MENU**" appears on the display.
Use buttons ↑ / ↓, to choose the parameter then push **ENTER**.

Display	Description	Factory settings
VOP	To set opening speed. Choose a value between: min = 15 deg/s max = 70 deg/s	50
VCL	To set closing speed. Choose a value between: min = 15 deg/s max = 70 deg/s	50
PUSH	To choose the amount of force applied. Choose a value between: min = 1 max = 10	10

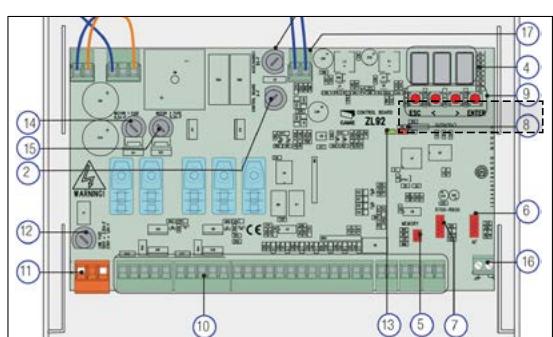
12.04. Gate - “PETITTI” manual door closer



12.05. Gate - “CAME” automatic door closer



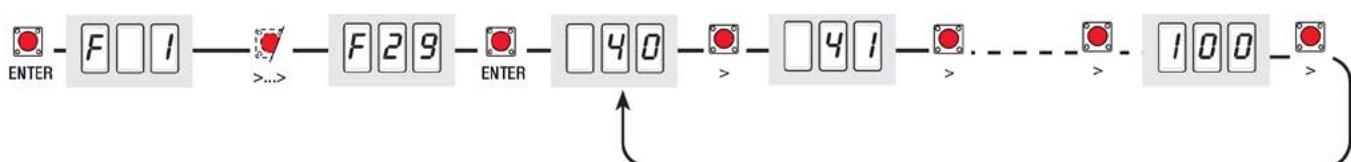
Here below you will find an extract from the door closer manual, for a proper adjustment of common parameters. For further settings, please refer to the supplier's manual.



Rif.	Descrizione	Rif.	Descrizione
2	Fusibile scheda	9	Pulsanti di programmazione
3	Fusibile accessori	10	Morsettiera di collegamento
4	Display	11	Morsettiera alimentazione 230V
5	Connettore scheda memory roll	12	Fusibile di linea
6	Connettore scheda AF	13	Led di segnalazione tensione presente
7	Connettore scheda R700 o R800	14	Fusibile motore 1
8	Led segnalazione di mancanza taratura	15	Fusibile motore 2

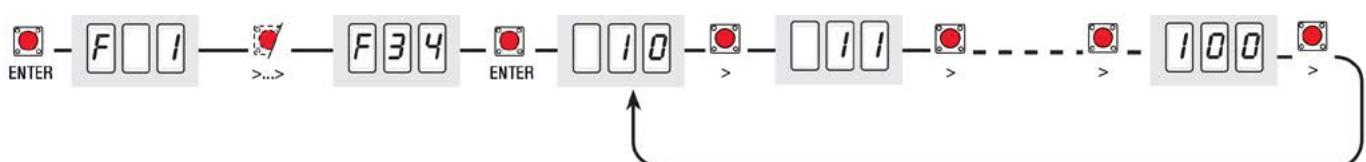
F 29 (Velocità manovra del motore M2): impostazione della velocità durante le manovre del motore M2, calcolata in percentuale.

40 = 40% della velocità del motore (minima); 100 = 100% della velocità del motore (massima, di default).



F 34 (Sensibilità corsa): regola la sensibilità di rilevamento degli ostacoli durante la manovra.

10 = massima sensibilità; 100 = minima sensibilità (di default).



13. Maintenance operations

13.01. Glass replacement

- 1 Open the door and pull it out of its seat;
- 2 Remove the locking screws in the door frame;
- 3 Remove the side profile;
- 4 Pull out the damaged glass;
- 5 Replace the glazing and refit the profile and the door.





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