MyDOMO
Automatic double panels door
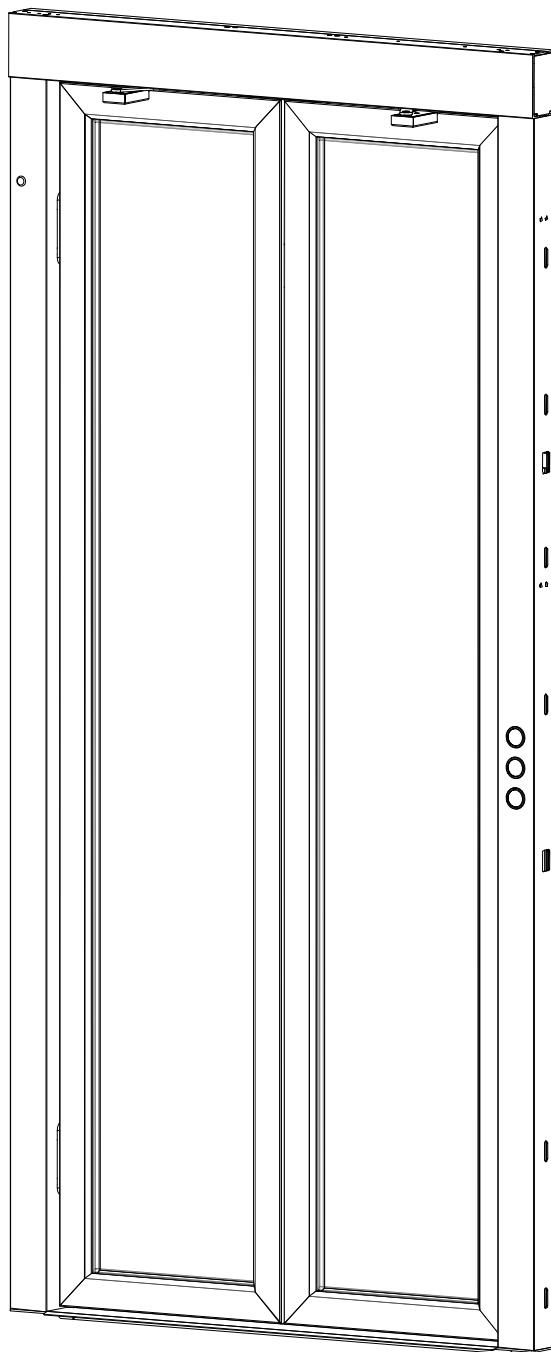
INSTALLATION AND COMMISSIONING INSTRUCTIONS

**LIFTINGITALIA S.r.l.**
Via Caduti del Lavoro, 16 - 43058 Bogolese, Sorbolo (PR) - Italy
Phone +39 0521.695311 - Fax +39 0521.695313

20190903

6.1	Update MD55 control unit	02.09.2019
6	General update	02.04.2019
5.1	KIT Update	13.06.2018
5	Update with domoFLEX	20.05.2016
4.1	Details update	27.02.2014
4	General update	24.09.2012
3	General update	15.03.2012
Rev.	*Description*	*Data*

INDEX

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

LIFTINGITALIA
COMFORTABLE HOMELIFTS

PURPOSE OF THE MANUAL

The purpose of this manual is to provide correct information on the installation of the product, in order to contribute to personal safety and to the proper functioning of the system. Keep the manual for the entire life of the product. In the event of a change of ownership, the manual must be provided to the new user as an integral part of the product.
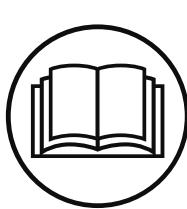
NOTICE
READ THIS MANUAL CAREFULLY before installing and using the product. This product must be installed and put into operation according to the provisions and regulations in force. Improper installation or improper use of the product can cause damage to people and property, as well as cause the warranty to lapse.
FOLLOW THE SUGGESTIONS AND RECOMMENDATIONS TO OPERATE IN SAFETY. Any unauthorized modification can compromise the safety of the system, as well as the correct operation and the life of the machine. If you have any doubts regarding the correct understanding of the information and contents contained in this manual, contact LIFTING ITALIA S.r.l. immediately.
QUALIFIED PERSONNEL: The product covered by this documentation can only be installed by qualified personnel, in compliance with the attached technical documentation, above all in compliance with the safety warnings and the precautions contained therein.
Keep the technical and safety documentation near the system.

PERSONAL SECURITY AND RISK RECOGNITION

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

RISK SYMBOLOGY AND PHRASES

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

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

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

MANUAL READING GUIDE

WARNING SIGN

⚠ GENERAL DANGER	⚡ ELECTRICITY DANGER	🔥 DANGER FLAMMABLE MATERIAL
DANGER OF FALL BY A LEVEL	DANGER SUSPENDED LOADS	DANGER CORROSIVE SUBSTANCES

PROHIBITION SIGN

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

MANDATORY SIGN

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

EMERGENCY AND FIRST AID SIGNS | INDICATION SYMBOLS

✚ FIRST AID	☞ NOTA BENE	☂ KEEP DRY	OBLIGATORY TO CHECK THE PROTECTIONS

LIABILITY AND WARRANTY CONDITIONS:

RESPONSIBILITY OF THE INSTALLER

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

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

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

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

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

EN

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

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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 IN-STRUCTIONS 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.).
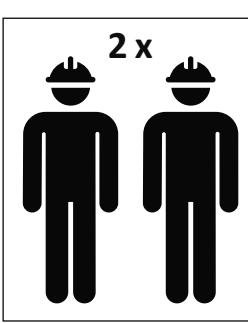
2 x	The assembly must be performed by a MINIMUM 2 people;	If the load is greater than 50kg, use the hoist for handling.
		MAX 50 kg > 50 kg
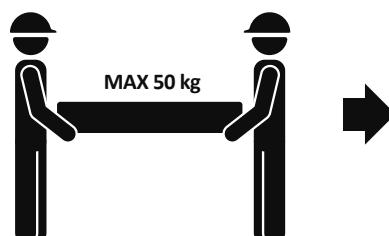
2. PRODUCT DESCRIPTION

2.1. GENERAL DESCRIPTION AND TERMINOLOGY

AUTOMATIC DOUBLE PANELS DOOR
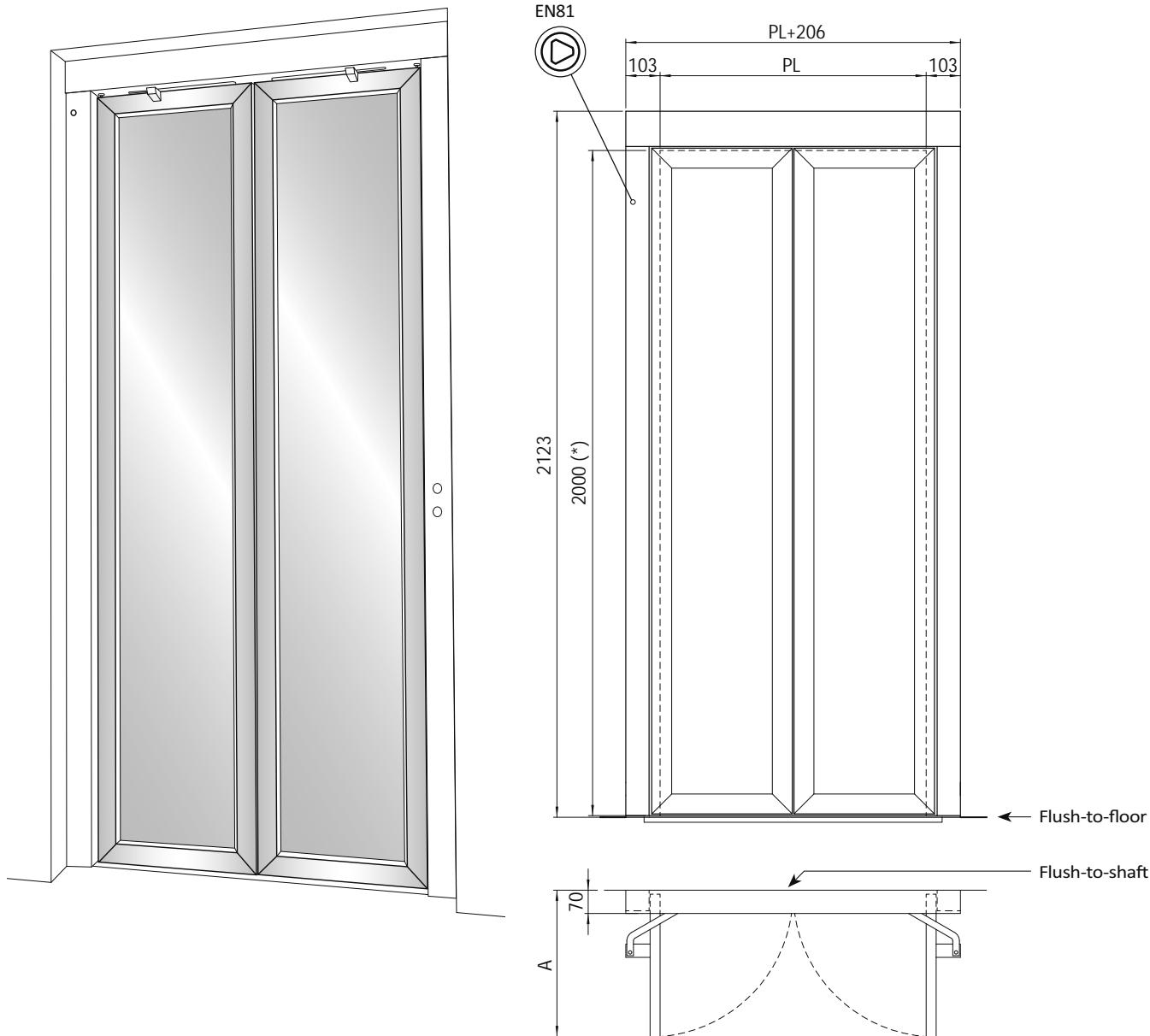
LIFTING ITALIA S.r.l. goal is to promote the continuous improvement of its products and consequently their technical specifications may be subject to change without notice or commitment.

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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 D111.23.0004

DOOR FRAME SIDES FIXING KIT – OPTION 2

1 x	12 x M8x30	12 x Ø8	12 x Ø8	12 x M8	

KIT D203.23.0006

DOOR FRAME SIDE BRACKETS KIT

1 x	6 x	6 x M8x20	12 x Ø8	6 x M8	

KIT D111.23.0005

DOOR LOCK RELEASE KIT
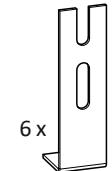
1 x	1 x	1 x	4 x

LAYOUTS
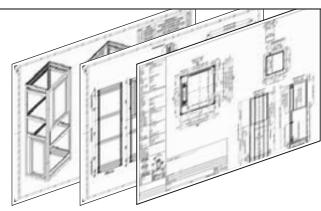
OPTIONALS

KIT D111.23.0006

DOMOFLEX REMOTE UNLOCKING KIT
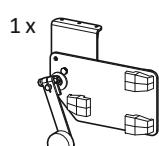
1 x	1 x	1 x	1 x	1 x
	4 x			

INFORMAZIONE	4. TOOLS AND MATERIALS REQUIRED FOR INSTALLATION

Hammer
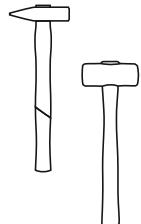
Rubber hammer

Tape measure
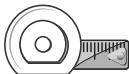
Spirit level
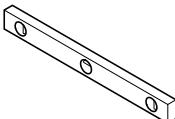
Scissors for electricians
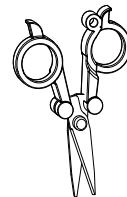
Flat-blade screwdriver
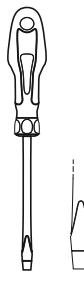
Phillips screwdriver
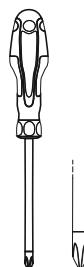
Spanner
8 to 17 mm
2 each size
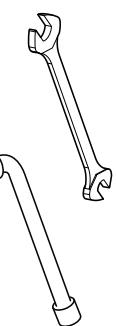
Socket wrench
8 to 17 mm
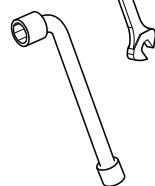
Ratcheting ring spanner
13 to 17 mm
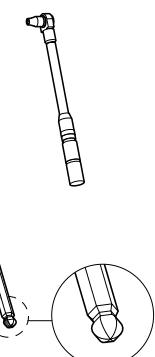
Allen key
with ball end
3 to 6 mm
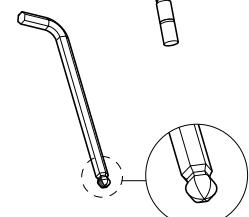
Drill
6 to 10 mm
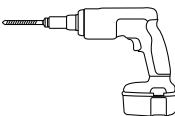
for   Brickwork
         Metal

Hoist
150 kg

Plumb bob
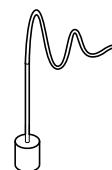
5.   PRELIMINARY OPERATIONS

5.1.   POSITIONING OF MATERIAL ON SITE
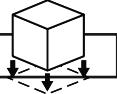
NOTICE

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.

INFORMATION

👉 Protect the car floor during installation.

CARDBOARD

. Refer to the installation Layout Drawings for the correct positioning of doors in relation to the shaft dimensions, and to determine the correct handing of doors.
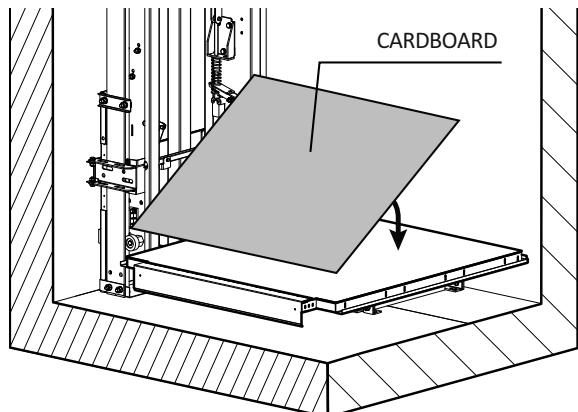
INFORMATION

Refer to the installation Layout Drawings for the correct positioning of doors in relation to the shaft dimensions, and to determine the correct handing of doors.
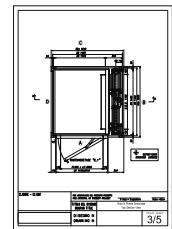
6.   HOW TO DISTINGUISH DOOR VERSIONS
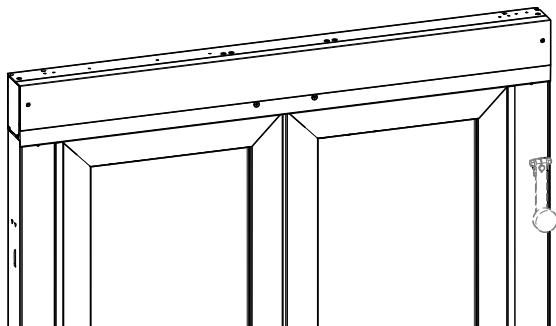
MyDOMO motorized	MyDOMO coupled with TWIST doors
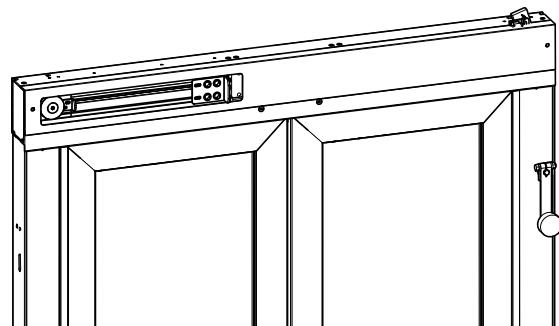
7. LANDING DOOR POSITIONING

. Position the doorstep to be flush with the shaft and the floor as shown below.

F.F.L.

F.F.L.

Fe

1 mm

2 mm
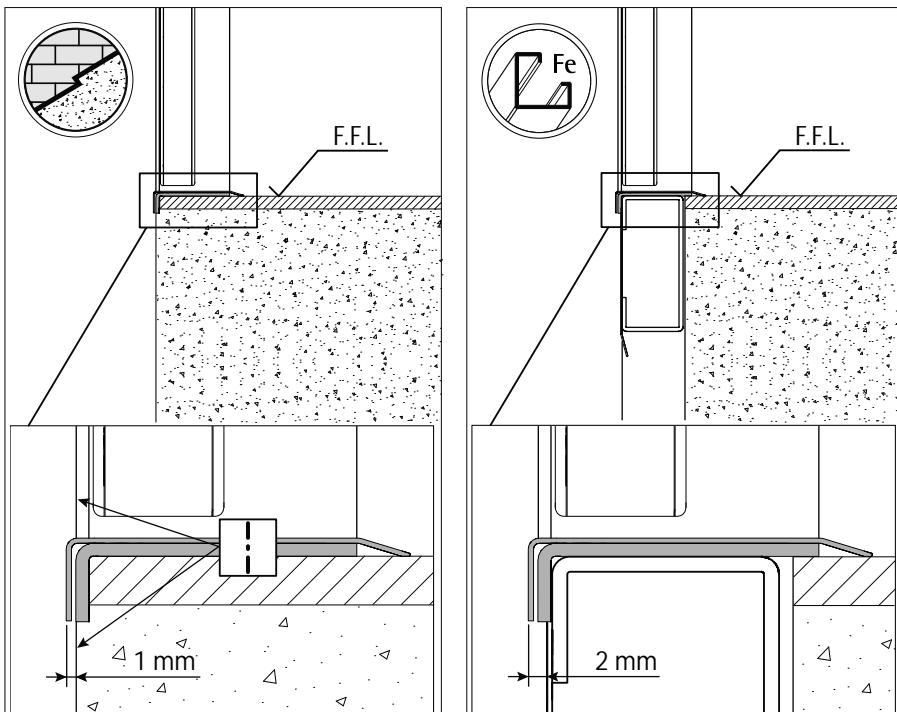
8. MONTAGE PORTE PALIÈRE

. Remove the protection covers from door jambs.

2 x

EN

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WALL DRILLING

EN81

PL+206

103 | PL | 103

6 x Ø10

70

62

2123

240

730

250

240

970

730

240

85

2000 (*)

140

73

40

11x40

Flush with floor

Flush with shaft

1750

240

250

240

730

240

85

650

800

29

Wiring

10x35

Flush with shaft

A

70

Flush with shaft

PL (mm)	A (mm)
600	340
650	365
700	390
750	415
800	440
850	465
900	490
950	515
1000	540
(*) LH<>2000 subject to feasibility	
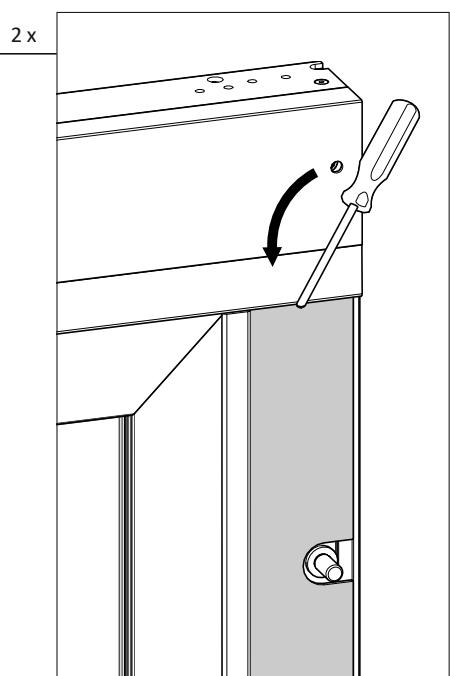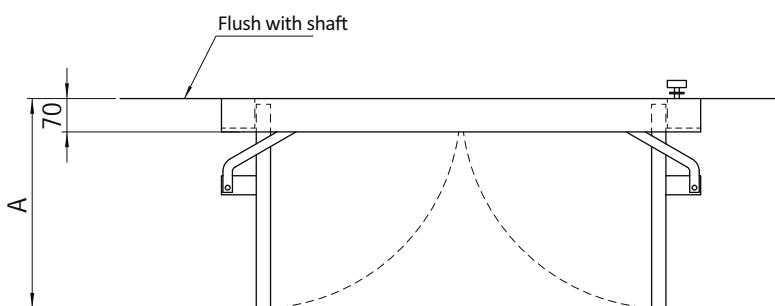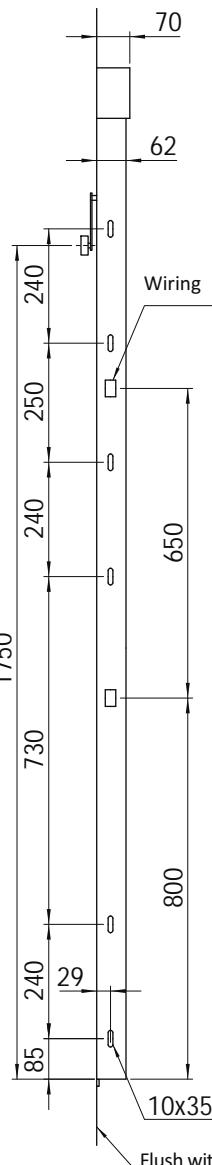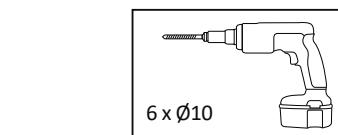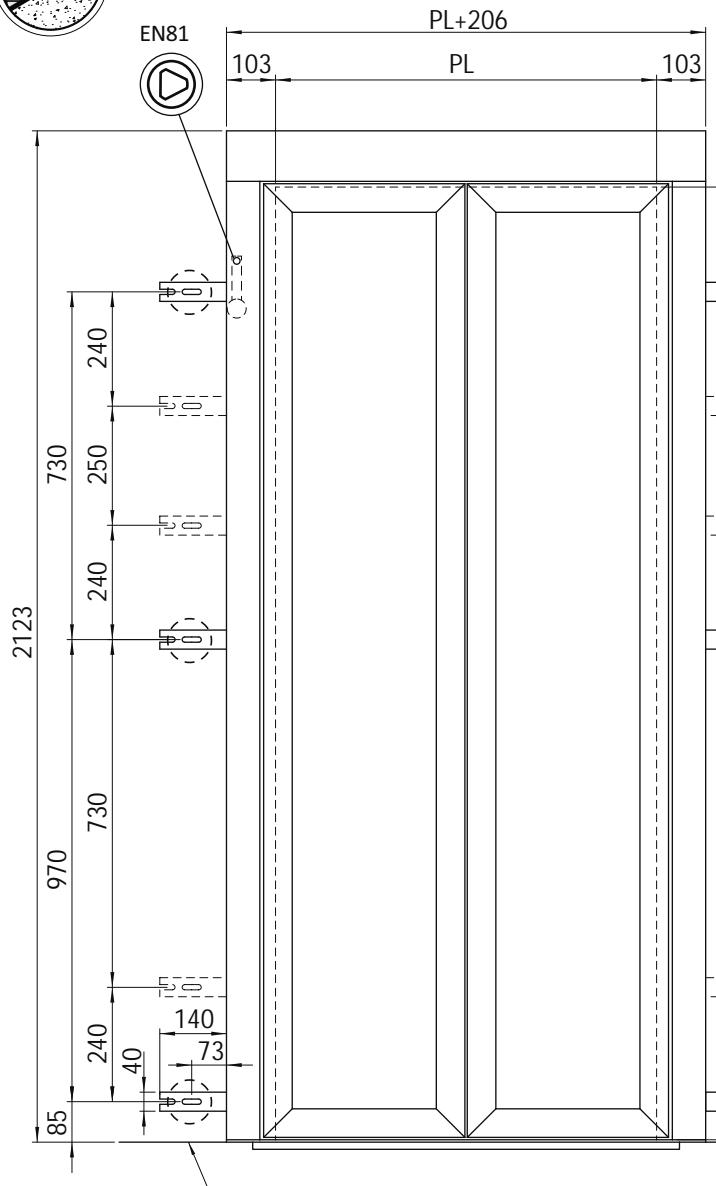
☞ Three additional holes are provided on each side of the door for alternative bracket positioning, should fixing the door to the side walls as indicated be impossible.

. LATERAL brackets assembly.

KIT D203.23.0006

6 x

M8x20
Ø8

Ø8
M8
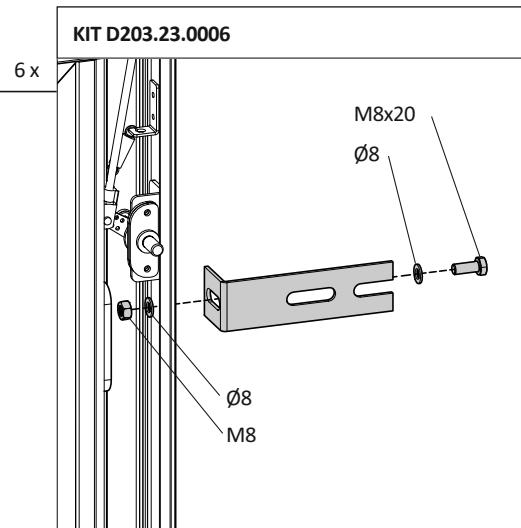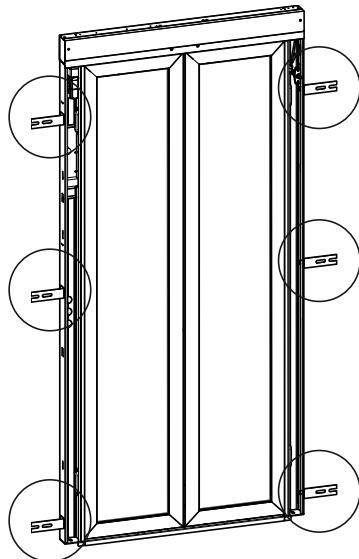
. Place the door in the wall opening and fix it using the provided wall plugs.
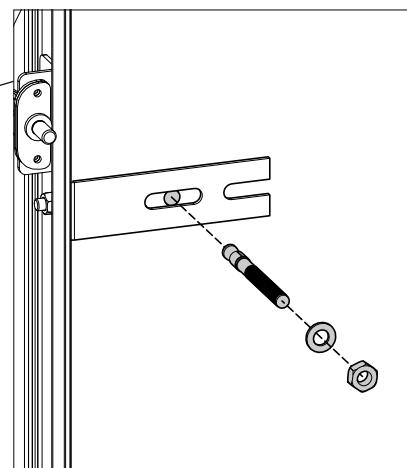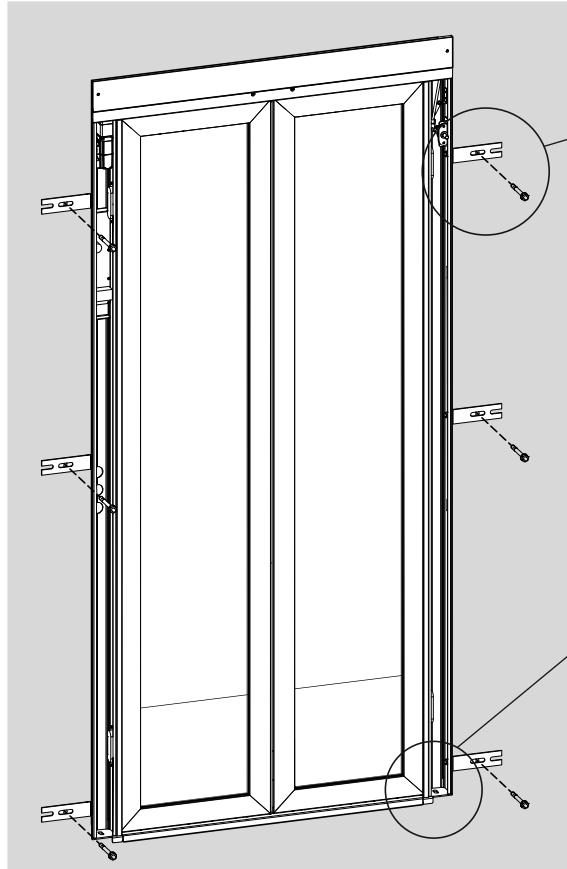
Should fixing the lower lateral bracket be impossible, fix the jamb to the floor through the slot at the bottom.

Ø10

13 (42)
EN

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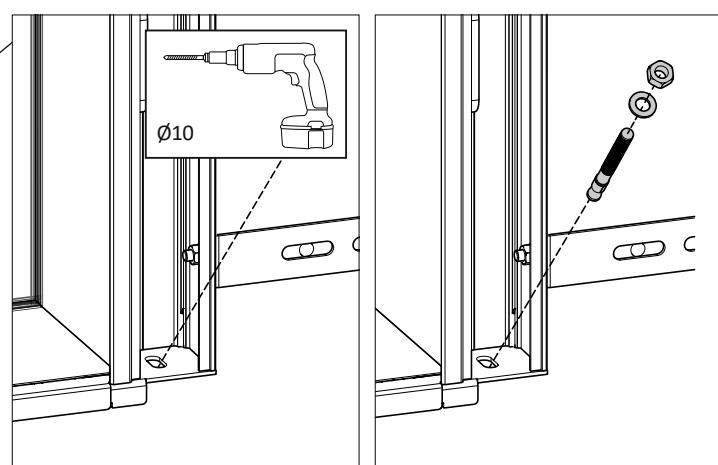
INFORMATION

Fe	Door installation can only proceed once the steel cladding to the sides of the door frame has been put up.

. Fix the door frame's VERTICAL SIDES to both the structure upright and the cladding.

KIT D111.23.0004

6 x

Ø8
M8
M8x20
Ø8
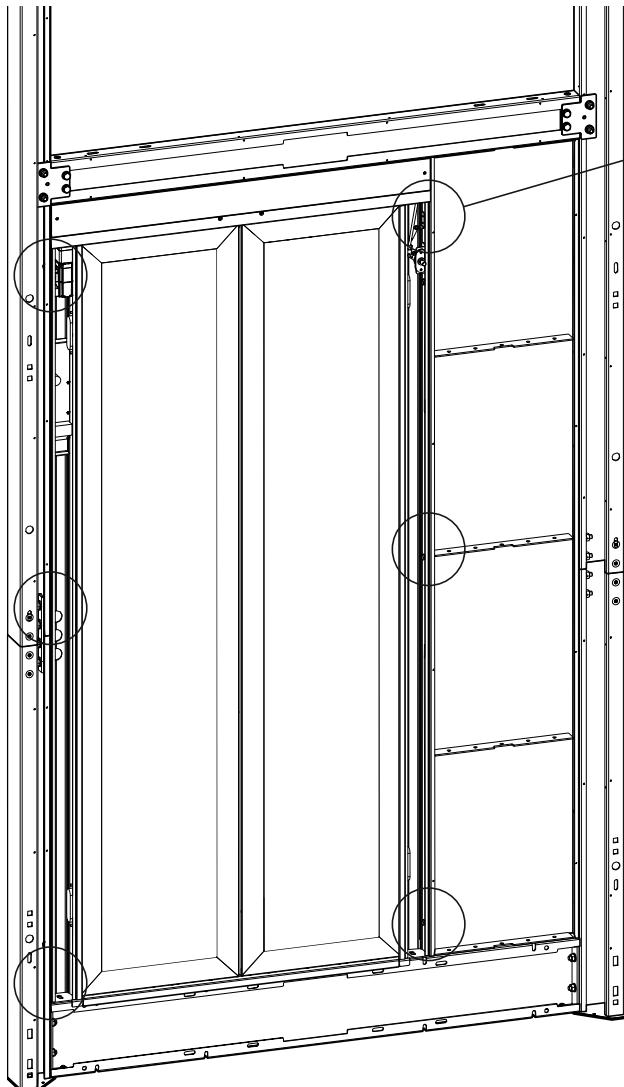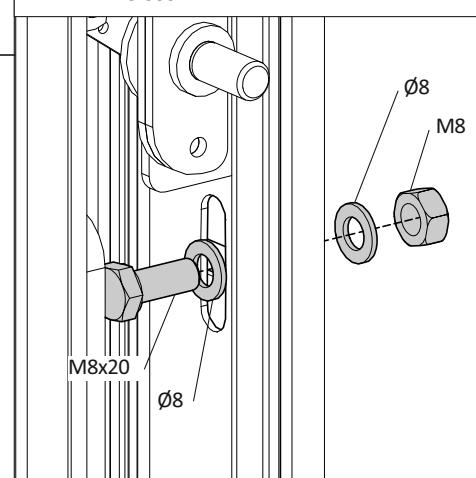
. Fix the counterweight

1. Remove the horizontal crossbeam cover using a screwdriver as lever;
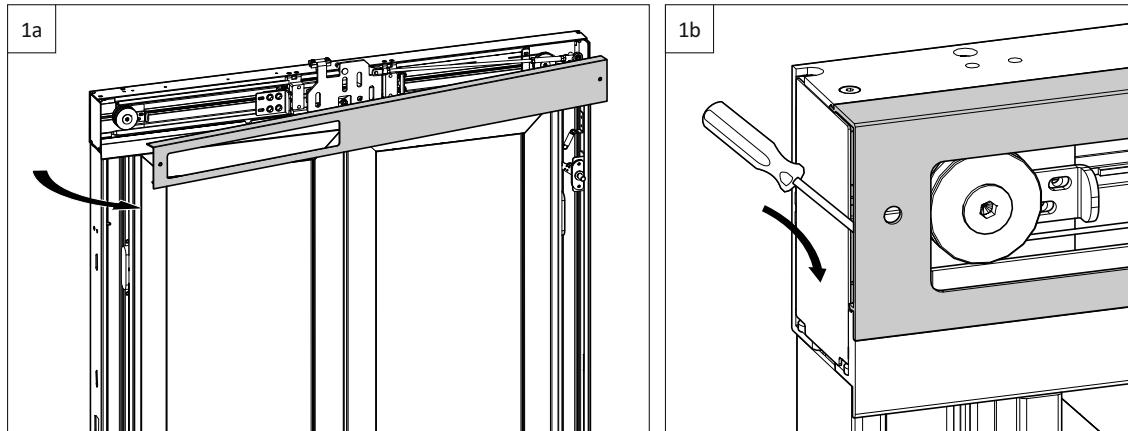
2. TEMPORARILY attach the counterweight to the steel wire rope provided on the rear side of the carriage towards the landing, and thread the rope through as shown on the picture;

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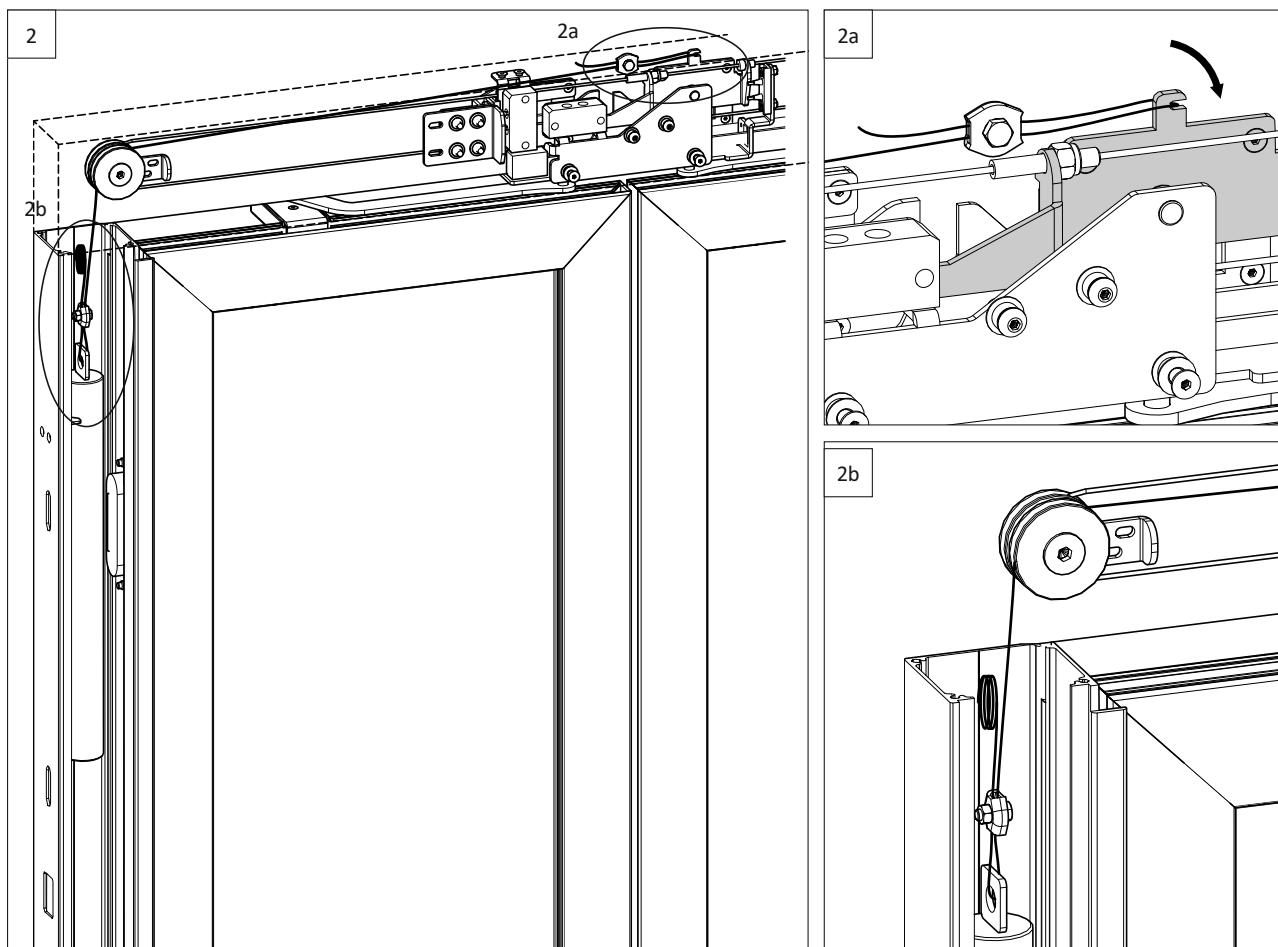
1. Insert the counterweight inside the plastic tube;
2. Position the plastic tube in the housing within the door jamb and fasten with the supplied cable ties;
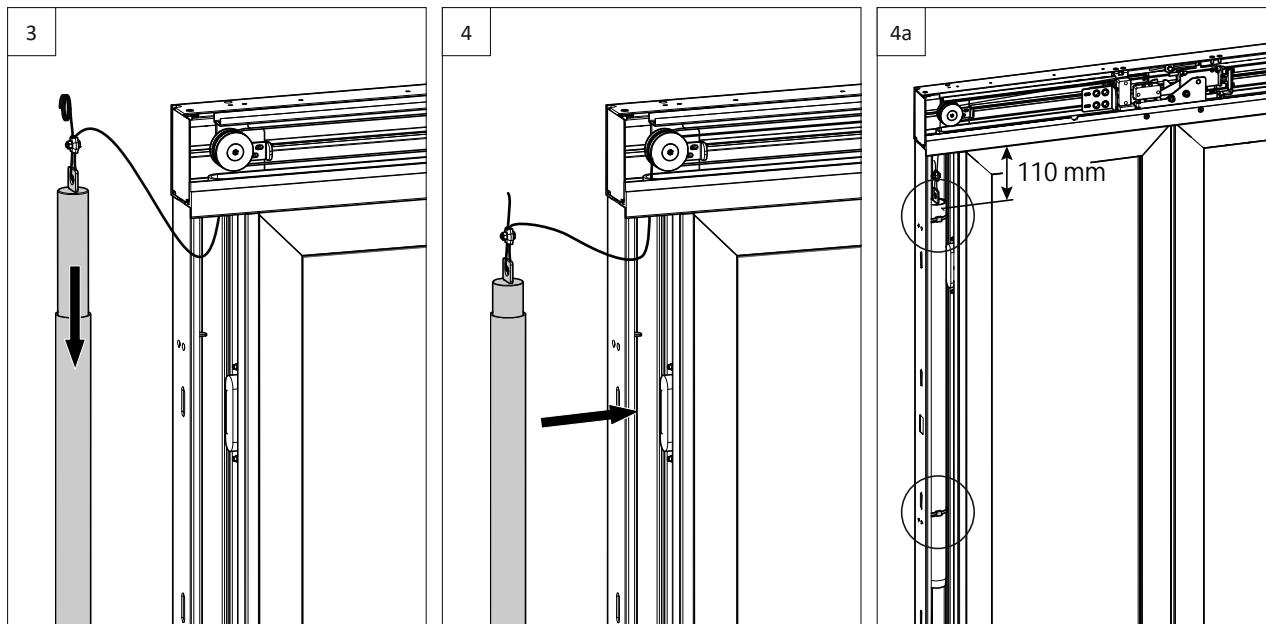
3. Adjust the steel wire rope holding the counterweight to the length at which the counterweight hangs with its top face flush with the plastic tube rim when the door is completely open;
4. PERMANENTLY set the counterweight position by tightening the cable grips screws;

☞ Make sure that the steel wire rope threads through correctly (as previously shown).
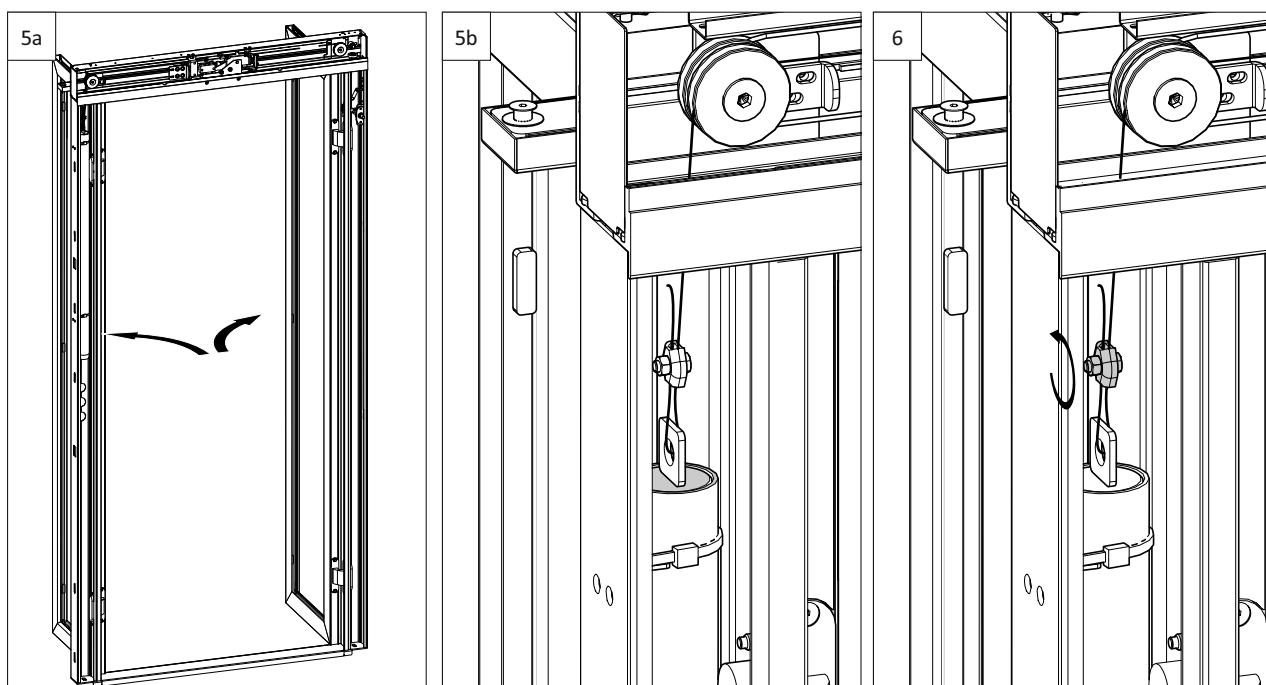
EXCLUSIVELY FOR DOMOFLEX'S MyDOMO
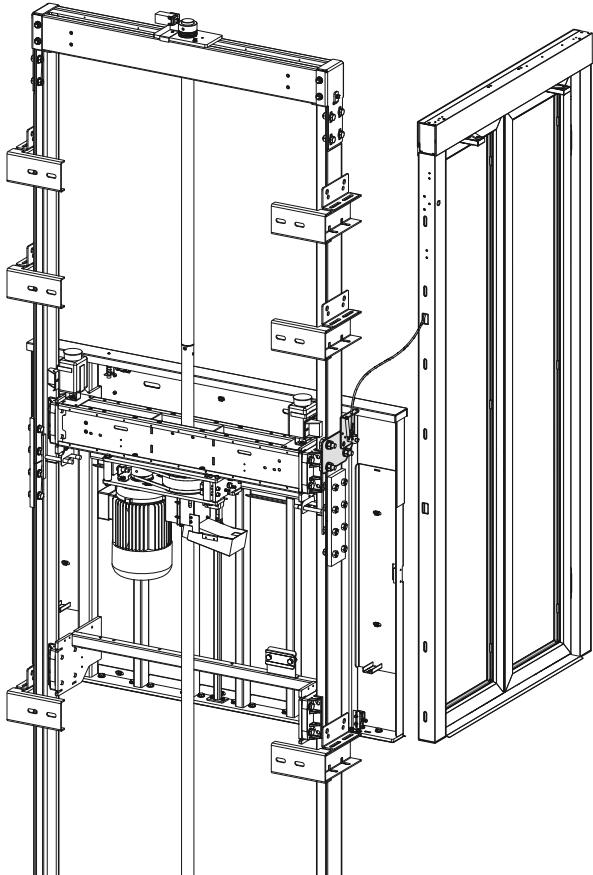
- Position the bracket with unlock system on the guide rail as per project drawing;
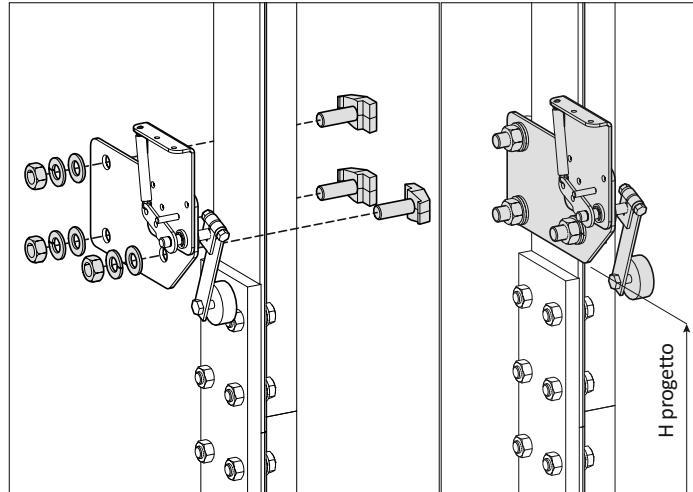
- Place the sheath between the bracket positioned on the guide rails and the unlock system positioned on the jamb of MyDOMO door, as shown on the project drawing;

KIT D111.23.0006
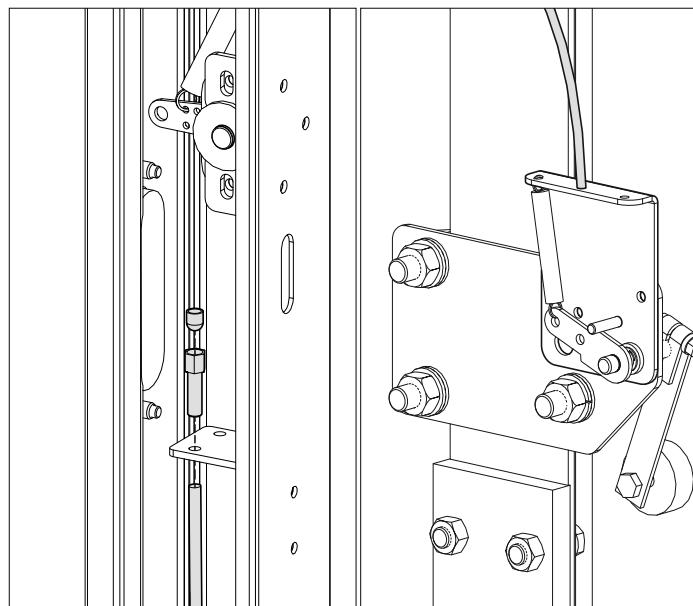
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- Fix the rope inside the sheath securing its ends by means of clamps;
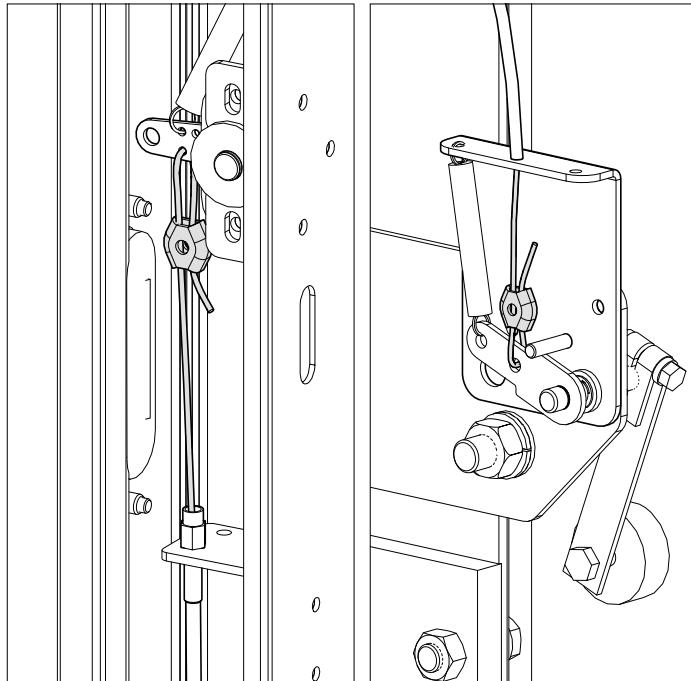
- Regulate the rope so that the doors opens as the unlock wheel is moved.
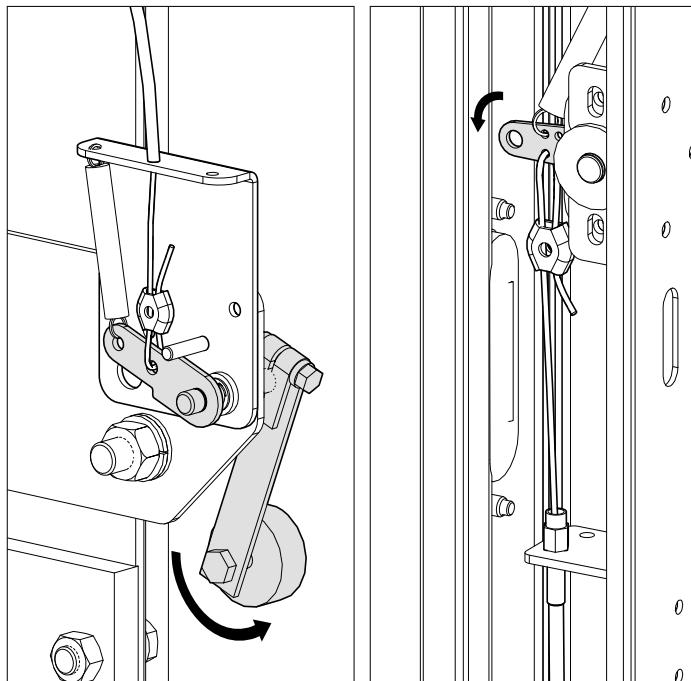
END - EXCLUSIVELY FOR DOMOFLEX'S MyDOMO

. Place the covers back on the door jambs
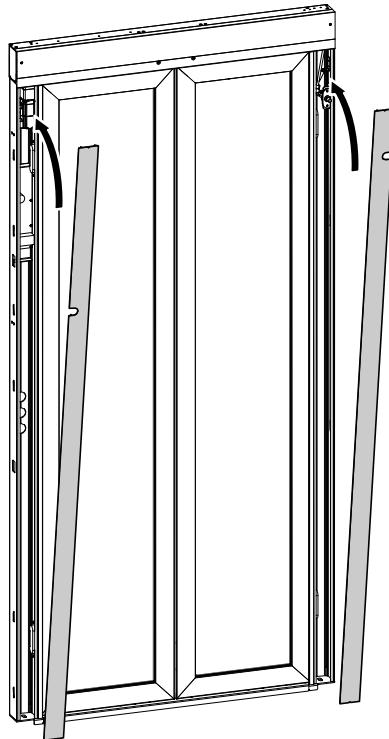
. Fix the door release lever at such an angle as to make the circular face
of the roller tangent to the door jamb's internal edge (NOT FOR DOMOFLEX).

KIT D111.23.0005
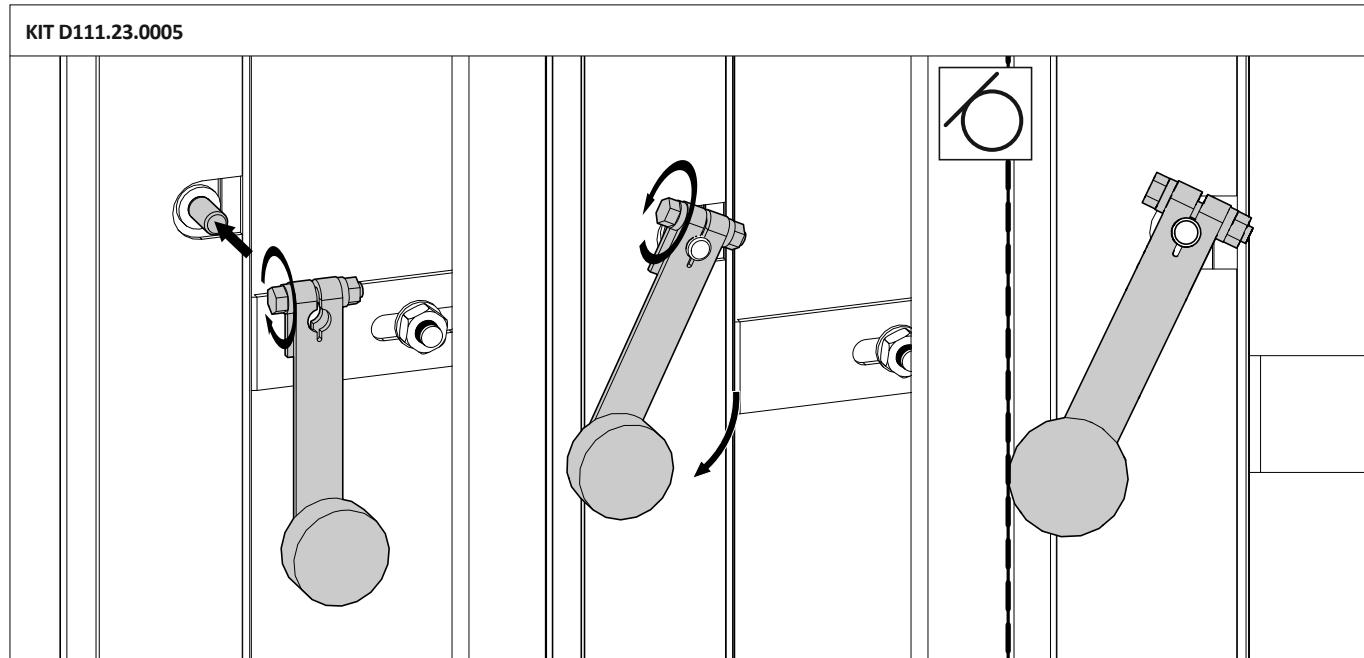
9. CHECKING DOOR PANELS ALIGNMENT

. Look down at the BOTTOM of the door to make sure that the panels are not horizontally misaligned.
  Should they be, achieve the correct alignment by rotating the crossbeam and/or door sill relative to each other.
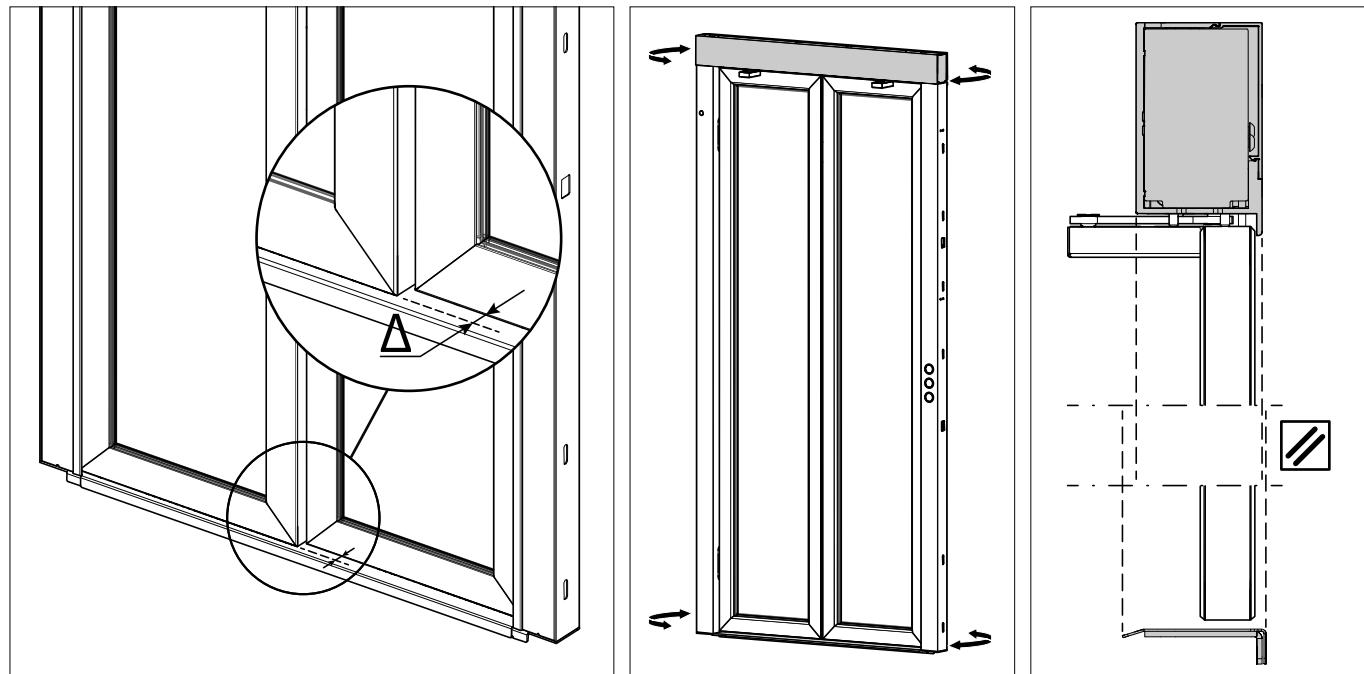
. Look up at the TOP of the door to make sure that the panels are not vertically misaligned.
  Should they be, achieve the vertical alignment by tilting the door jambs.
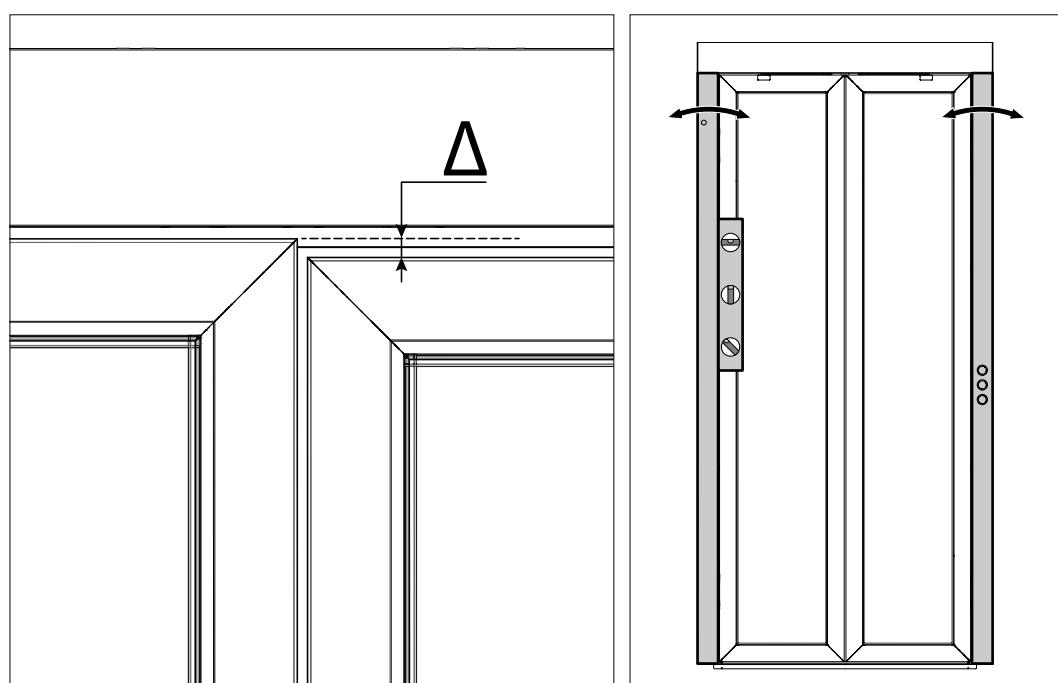
10. CHECK THE ALIGNMENT WITH TWIST CAR DOOR

. Make sure that the coupling mechanisms of MyDOMO landing doors and TWIST car door are positioned as shown in the picture.

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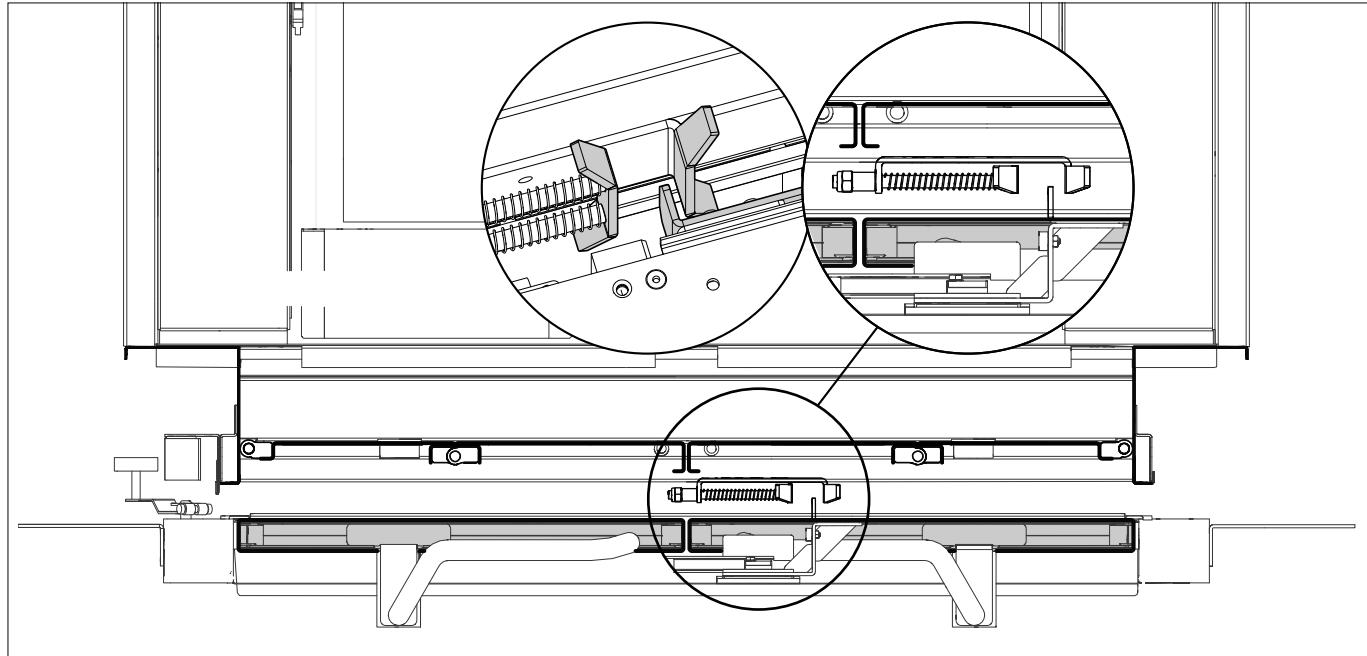
11. MAINTENANCE

11.1. ADJUSTMENT OF THE PRESENCE CONTACT

Make sure that the contact is the same as shown, when locking and unlocking.
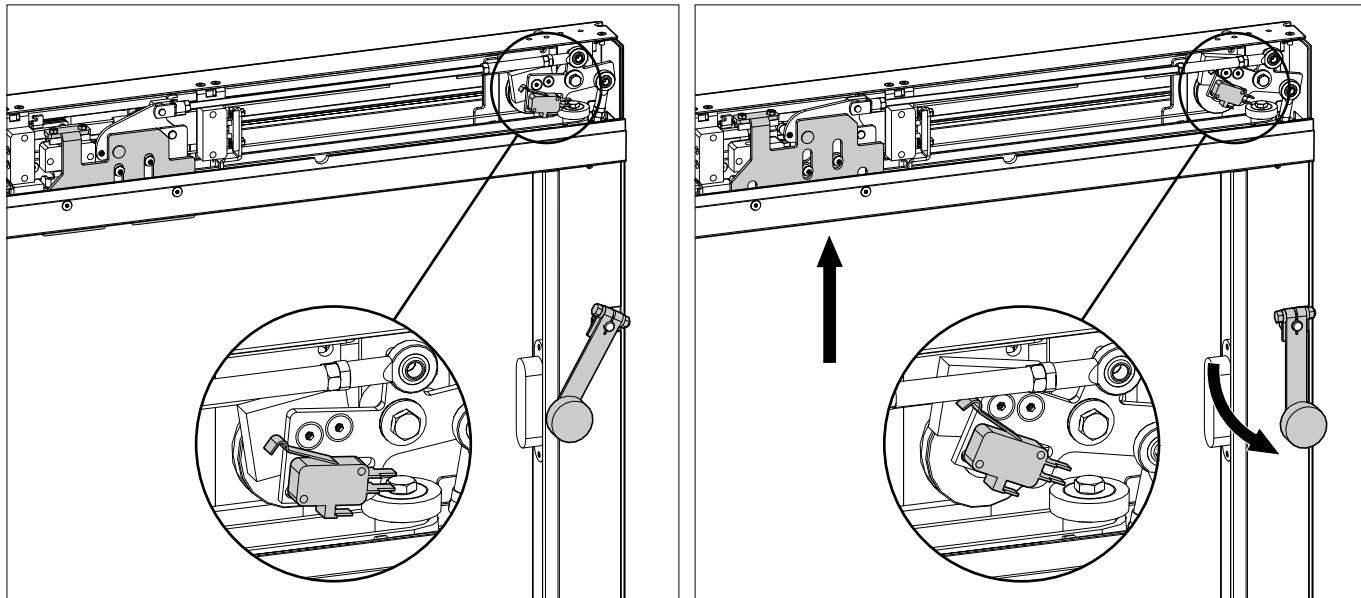
11.2. BELT TENSIONING

If loose, tension the belt by moving the return pulley outwards.

Ch13
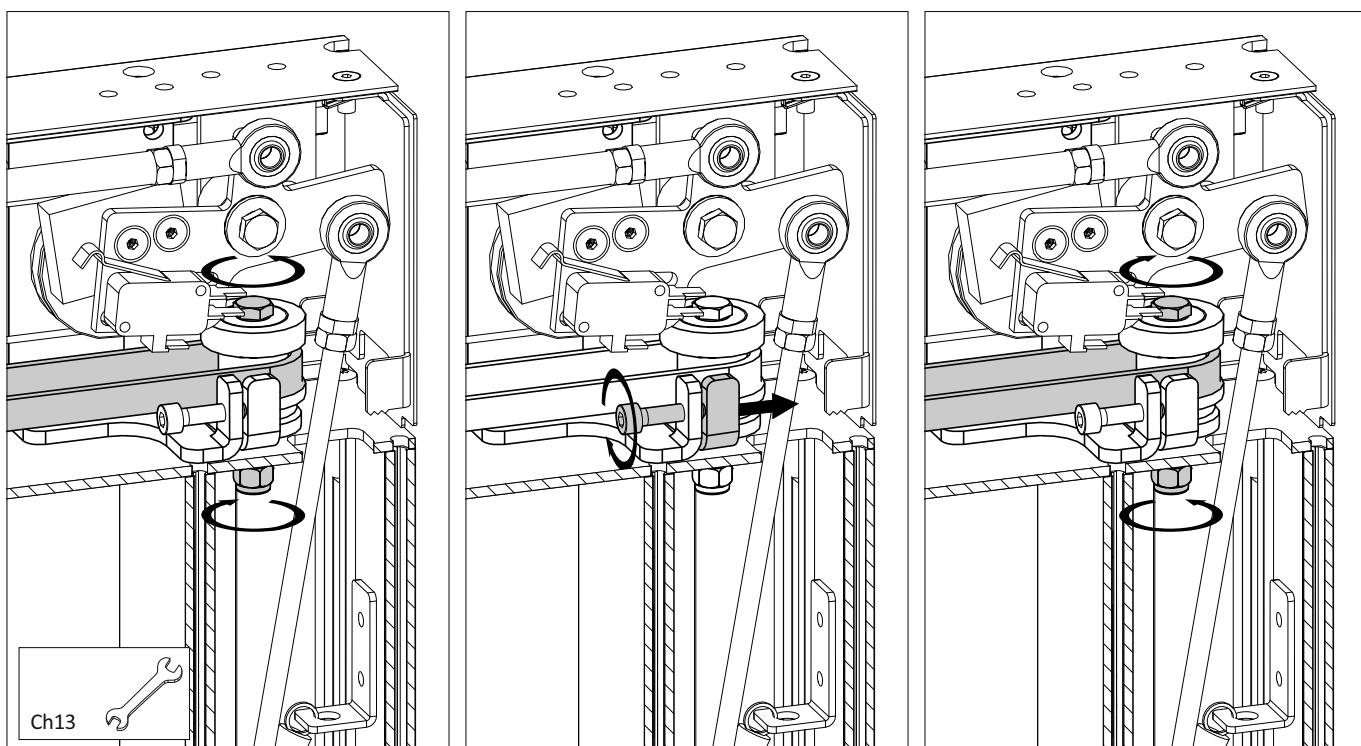
11.3. PANELS SYNCHRONISING

Make sure the door panels rotate in synchronised motion.
THE TWO PANELS MUST ARRIVE TO STOP WITH **+/-1 mm** MAX DIFFERENCE between them.
Otherwise, adjust the position of the RIGHT panel's upper arm fixing bracket as follows:
- to DELAY the CLOSING, move the fixing bracket towards the hinge;
- to ANTICIPATE the CLOSING, move the fixing bracket towards the centre of the door.
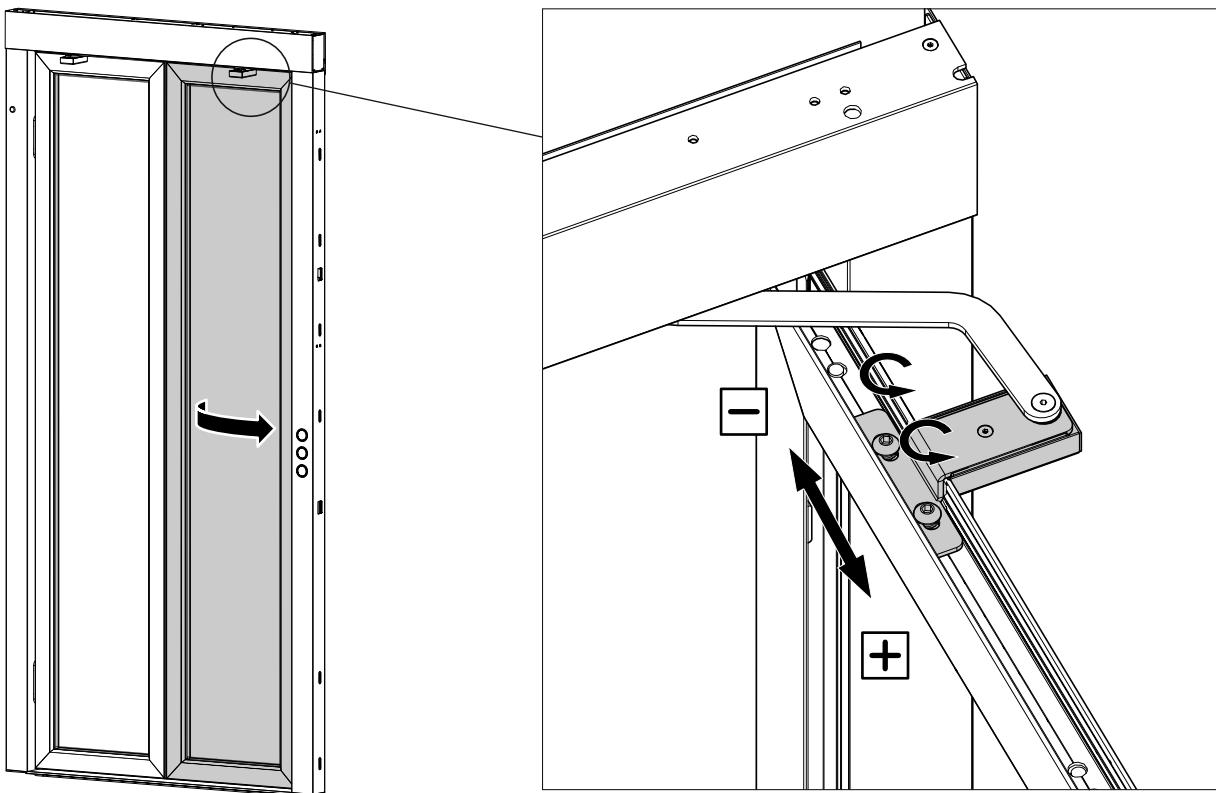
11.4. POSITIONING OF THE LABEL, LOCK CERTIFICATE
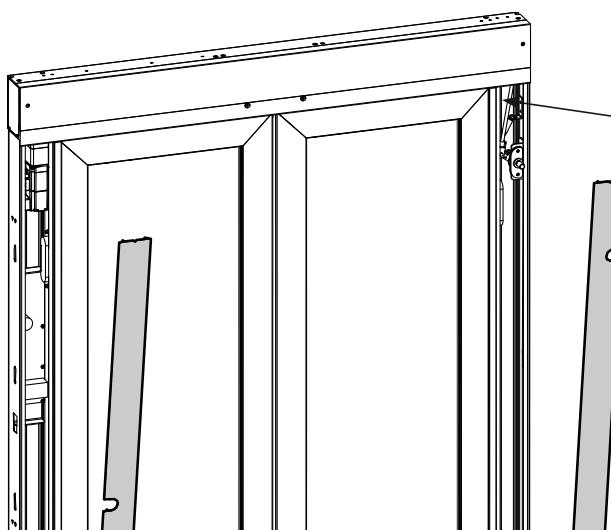
The label with the number of the lock certificate is inside the column, near the lock.

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12. LOCK CONNECTION

MyDOMO coupled with TWIST doors

} PRESENT

} PULLING IN

} BLOCK

Buttons, signals etc.

MyDOMO motorized

} PRESENT (output clamps 8 and 9 of the LCD2 card)

PRE-WIRING
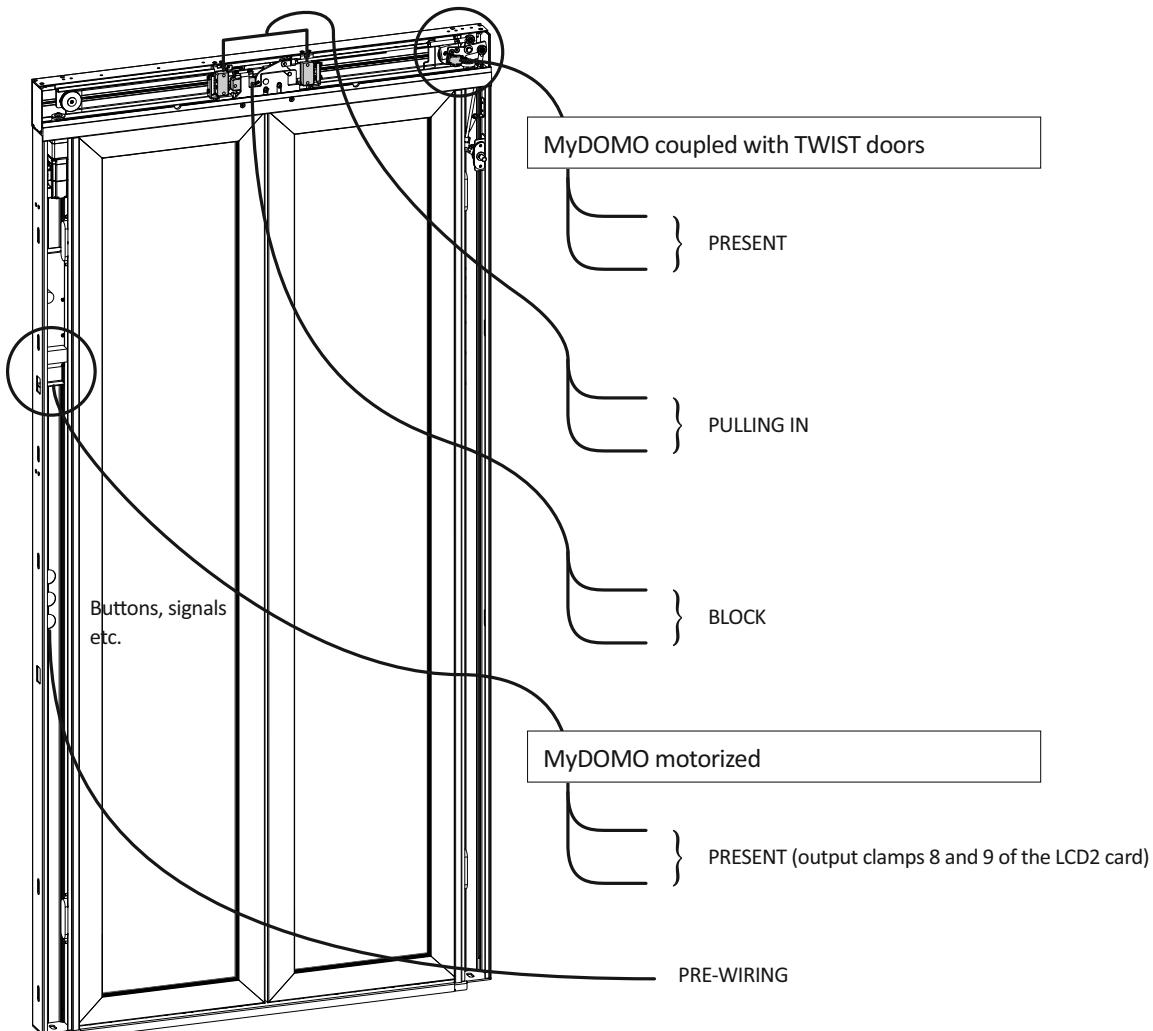
13. MD55 CONTROL UNIT for MyDOMO - INSTRUCTIONS

13.1. MD55 CONTROLS OVERVIEW
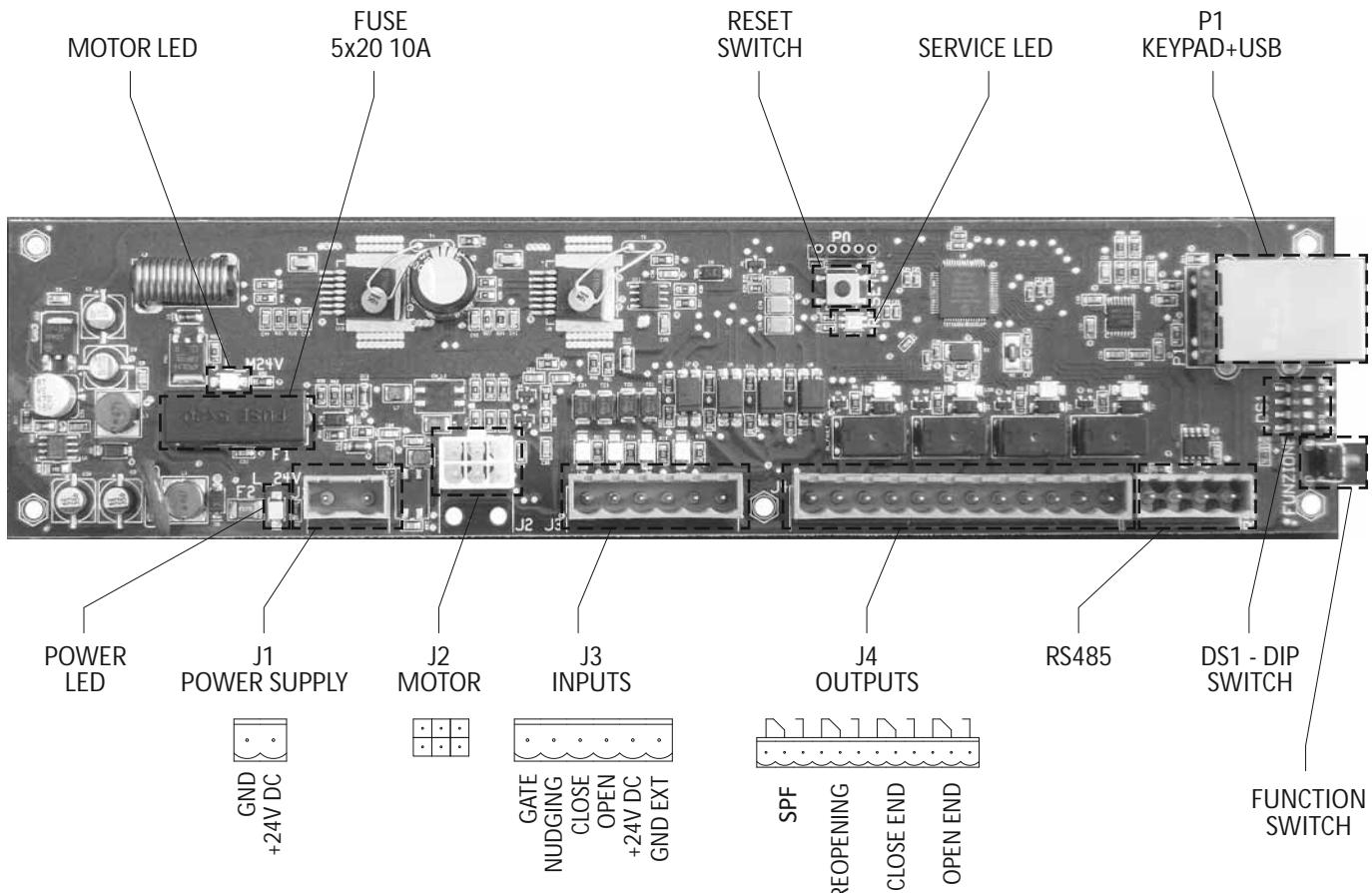
J1	Power supply	**1**: GND **2**: +24V
J2	Motor connection	
J3	Input signals connections	**1**: Consent **2**: Nudging **3**: Closing **4**: Opening **5**: Output +24V **6**: GND_EXT (DS1.1 = OFF); GND (DS1.1 = ON).
J4	Output signals connections	**1-2-3**: SPF **4-5-6**: Re-opening **7-8-9**: Closing limit switch **10-11-12**: Opening limit switch
RS485	RS4185 communication connections	
DS1	DIP-switch	
P1	Connection RJ45/USB	**RJ45 plug** → Hand terminal connection

---

13.2.   BUTTONS

FUNCTION BUTTON

The FUNCTION button combines the self-learning operation with the possibility to close and open the doors by means of the control unit.

By holding the button down for more than 5 sec the self-learning operation is activated.

Even if the self-learning process has not been completed, by pushing briefly the FUNCTION button the door moves:

- • -   If the button is pressed while a control signal has been given and the corresponding operation is in progress, the latter will be stopped and the opposite operation will start (for instance: if the door is closing it will stop and start reopening). By pressing a second time the operation is interrupted and the control signals, if present, will have priority. The same happens when one of the limit switches is engaged;

- • -   If the button is pressed when no operation is in progress then a control signal is given for a manoeuvre opposite to the last one. By pressing the button a second time the operation is interrupted and the control signals, if present, will have priority. The same happens when one of the limit switches is engaged.

"RESET" BUTTON

Pressing the Reset buttom means cutting off the power supply thus risking to lose the data you were storing. After a board reset a position detection must be done.

INFORMATION
If possible please switch off the board instead of making a rest using this button.

13.3. INDICATOR LIGHTS

POWER SUPPLY LEDS

Two leds show the state of the board's power supply:
- led **POWER LED**: ON when the power supply is connected;
- led **MOTOR LED**: ON when the motor's drivers are supplied.

INFORMATION
If the POWER LED is on and the MOTOR LED is off then the F1 fuse is burnt out.

OUTPUT LEDS

4 leds show the status of the outputs on the J4 connector:
- RED led (**FAULT**): fault led. ON when the board needs a reboot due to an error;
- YELLOW led (**REOPENING**): safety edge led. ON when an obstacle is detected while the doors is closing or re-opening;
- BLUE led (**CLOSE END**): closed door led. ON when the door is closed;
- GREEN led (**OPEN END**): open door led. ON when the door is open.

INPUT LEDS

4 leds show the status of the imputs on the J3 connector:
- RED led (**GATE**): release led. ON when the signals release is on.;
- YELLOW led (**NUDGING**): nudging closing led. ON when the nudging closing signal is given;
- BLUE led (**CLOSE**): closing led. ON when the closing signal is given;
- GREEN led (**OPEN**): opening led. ON when the opening signal is given.

SERVICE LED

The service led is either green or red.
The difference depends on the given information (see ch. ERRORS AND PROTECTIONS for the error list and description):

STATUS	MEANING
Green led on and red led off	Normal operation
Blinking green led	Position detection required
Green and red led blinking alternately	Selflearning required
Green led off and red led blinking (1Hz)	Selflearning operation
Green led off and red led blinking	No motor selected
Green led off and red led blinking with blinking code	Error alarm

P1 CONNECTOR LEDS (RJ45/USB)

The **P1** connector **(RJ45/USB)** is equipped with two leds: green and yellow.
The green led is blinking if a serial communication with the control panel or hand terminal is active.

DIP SWITCH

The door operator is equipped with a 4-pin DIP switch which is used for some functions preset on the board.

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13.4. FIRST START CONTROLLER MD55

👉 This is a detailed description of the selflearing procedure which is concisely written on the controller sticker label.

1. Unplug the J1 power supply connector;
2. Close the door manually and make sure no obstacle is in its way;
3. Plug in the motor connector;
4. Plug the J1 power supply connector and make sure the board is powered;
5. The service led is now lit red. Wait until the service led starts blinking red and green alternately;
6. Press the FUNCTION button for more than 5s and then release it;
7. The red service led starts blinking while the green one is off. This is the start of the self-learning procedure;
8. Once the self-learning procedure is over the door is closed. The green service led is lit and the blue CLOSE END led is on: the door operator can now work regularly.

13.5. POSITION DETECTION

After a board reboot the service led is lit red and the door moves Some millimeters for a few seconds. Afterwards, if a self-learning cycle has been made, the door must recognize a travel limit. This happens also in case of a REBOOT due to a POWER FAILURE.
The position detection status is shown by the green service led blinking.

There are three options to make this operation:
1. Automatically by means of the opening and closing signals given by the control panel;
2. By means of repeated opening and closing signals given with the FUNCTION button. In this case the door must be opened and closed completely until a travel limit has been detected. Once the travel limited is reached you have to wait at least 3 sec before giving a new signal;
3. By means of the hand terminal. The door moves between the two travel limits at the preset speed and the position detection procedure ends when the whole clear door opening has been measured and recognized;
Once the procedure is over the green service led is lit.

INFORMATION
The position detection procedure starts automatically once an encoder or absent motor alarm is over; in this case it can't be interrupted and no signal from the control panel is accepted; exclusively signals given by means of the button are accepted.

13.6. MECHANICAL INSTALLATION AND ADJUSTMENT

INFORMATION

In order to have the door functioning correctly and safely, it has to be installed and adjusted by qualified staff, with due attention being paid to the warnings in these Instructions booklet. The control unit must be isolated from the power supply before any assembly, operation or adjustment is done on the door. Only in these conditions it is certain that the door will not move.

13.7. THE TRAVERSING CURVE
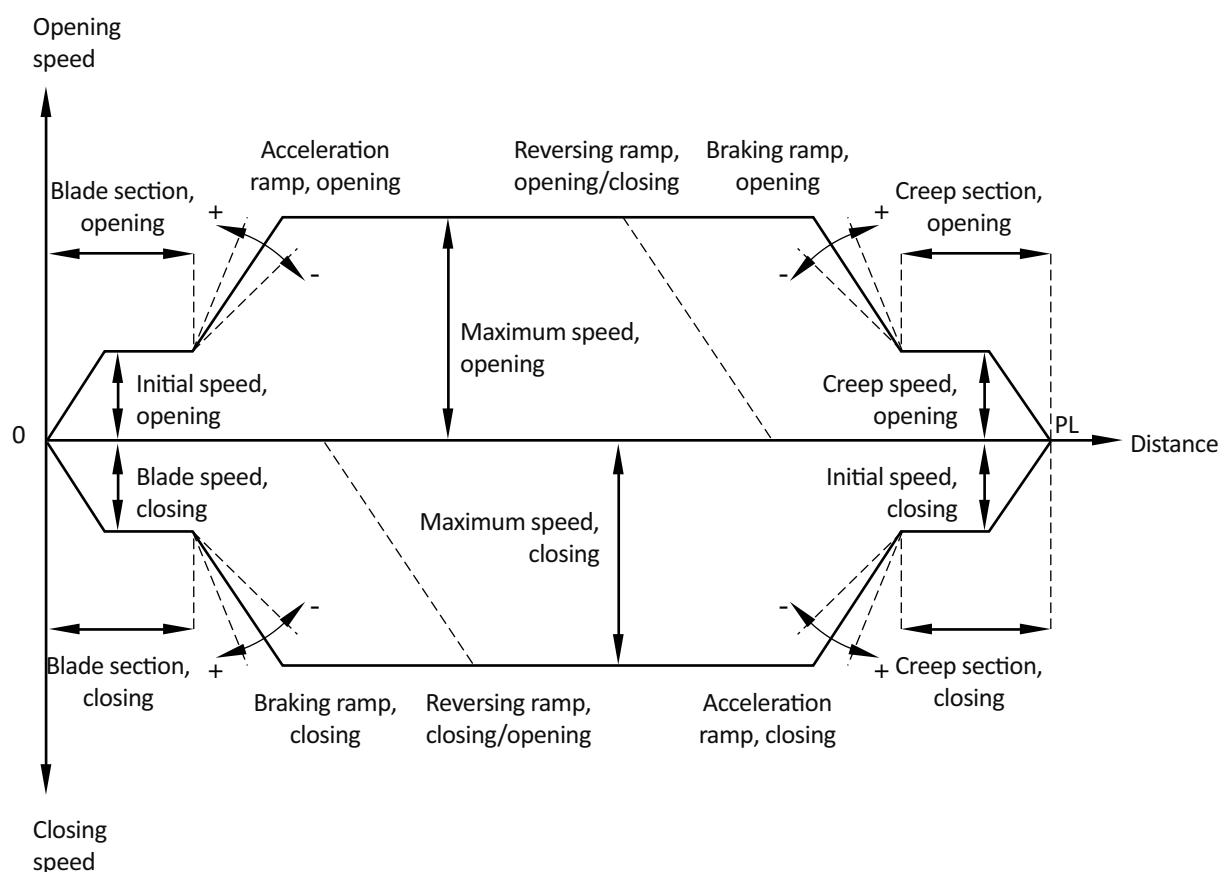
13.8. TECHNICAL DATA

Direct current geared motor MD55

Power supply	24 Vdc
Max. velocity	0,5 m/s
Degree of protection	IP 21
Transmission ratio	15:1
Incremental encoder	100 pulses per rotation
Rated current	1,8 A
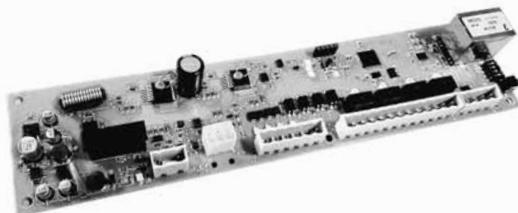
Control unit MD55

Power supply	24 Vdc
Tolerance	+/- 5%
Fusing, at the customer's side	10 A
Max. power consumption	0,75 A (the motor is not considered) 15 A (the motor consumption is considered)
Degree of protection	IP 20
Control inputs	from 10 V to 35 V, max 40 mA
Switching capacity of output relay	30 Vdc to 1 A
Max. permissible storage temperature	from -20°C to +85°C
Max. permissible operating temperature	from 0°C to +50°C
Humidity requirement	No condensation
24 V output (J3.5)	Max 120 mA

NOTICE

Do not feed in any external voltage!

Regulations and standards

EMC tests	in conformity with EN 12015 and EN 12016
CE	Certified
Electrical safety standards according to EN60950	Conforms to the standard
Elevator standard EN81	Conforms to the standard

13.9. USER TERMINAL MD55

DIAGNOSIS AND PARAMETERIZATION

The user terminal can be used:

- for the input of movement commands;
- for changing the movement parameters;
- for the visualizing of the parameters calculated by the learn run;
- for the visualizing of the door conditions;
- for the visualizing of the service data.

INFORMATION
The MD55 user terminal can only be used by qualified staff. The staff must be thoroughly familiar with all warnings and notices in these instructions before proceeding with the utilization by the end user.

4 buttons:

ENT	Confirm / Enter menu item
BACK	Back to the previous level
▲	Back to the previous item / Increase parameter value / Scroll alternatives
▼	Go to next menu item / Decrease parameter value / Scroll alternatives

Parameters changes can be made in the menus "QUICK SETUP → Parameter Setup" and in "GENERAL SETUP → Profile Parameters".

The desired parameter is selected with the ▲ and ▼ key and activated with the ENT key (hand-terminal red led brief blinking). With the help of the appropriate key (see above) the parameter value can be increased or decreased.
The setting of the parameter takes place by repeat pressing the ENT key.

INFORMATION
☞ • Parameters are saved and immediately overwritten. • Speed values the parameters are updated immediately. • Forces and power parameters are updated after the next use.

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13.10. MENUS LIST

| MD55 | Handterminal |
| | *Terminale manuale* |

| Entry after system reset (optional) |
| *Accesso dopo reset del sistema (optional)* |

| MAIN MENU | *MENU PRINCIPALE* |

| QUICK SETUP | *IMPOSTAZIONI VELOCI* |

Door state	*Stato della porta*
Door commands	*Comandi porta*
Parameter setup	*Impostazione parametri*
Configuration Setup	*Impostazione configurazione*

| GENERAL SETUP | *IMPOSTAZIONI GENERALI* |

Profile parameter	*Parametri della curva del moto*
Door commands	*Comandi porta*
Profile setup	*Impostazione profilo*
Automatic runs	*Apprendimento automatico*

| MONITOR MENU | *MENU DIAGNOSTICA* |

Door State	*Stato porta*
Input	*Ingressi*
Output	*Uscite*

| SERVICE MENU | *MENU DI SERVIZIO* |

FW Version	*Versione del Firmware*
Maintenance menu	*Menu manutenzione*
Special	*Speciale*

QUICK SETUP MENU

QUICK SETUP   *IMPOSTAZIONI VELOCI*

Door state   *Stato della porta*

State = ...   *Stato: ....*

Profile= ... mm   *Profilo= ... mm*

Door commands   *Comandi porta*

Stop door   *Ferma porta*

Open door   *Apri porta*

Close door   *Chiudi porta*

Close door nudging   *Chiudi porta accostamento*

Parameter setup   *Impostazione dei parametri*

Closing forces   *Forze di chiusura*

All closing forces ... N   *Tutte le forze di chiusura ... N*

Max. speed open   *Velocità max di apertura*

Max. speed open ... mm/s   *Velocità max di apertura ... mm/s*

Max. speed close   *Velocità max di chiusura*

Max. speed close ... mm/s   *Velocità max di chiusura ... mm/s*

All slow speeds   *Tutte le velocità ridotte*

All slow speed ... mm/s   *Tutte le velocità ridotte ... mm/s*

Slow start distance   *Lunghezza iniziale a velocità ridotta*

All low start distances ... mm
Tutte le lunghezze iniziali a velocità ridotta ... mm

Slow end distance   *Lunghezza finale a velocità ridotta*

All slow end distances ... mm
Tutte le lunghezze finali a velocità ridotta ... mm

All ramps   *Tutte le rampe di accelerazione*

All ramps ... mm/s^2 *Tutte le rampe di accelerazione ... mm/s^2*

Configuration setup   *Impostazione configurazione*

Modality   *Modalità*

Idle states   *Stato abilitazione*

Motor selection   *Selezione motore*

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GENERAL SETUP MENU

GENERAL SETUP	*IMPOSTAZIONI GENERALI*

Profile setup	*Impostazione profilo*

MD55 profiles	*Profilo MD55*

Select profile	*Selezione profilo*

Profile	*Profilo*

Save profile as	*Salva profilo come*

Profile	*Profilo*

Tastierino profiles	*Profilo tastierino*

Import profile	*Importa profilo*

Profile	*Profilo*

Import ALL profile	*Importa tutti i profili*

Export profile	*Esporta profilo*

Profile	*Profilo*

Export ALL profile	*Esporta tutti i profili*

Profile parameter	*Parametri della curva del moto*

Slow end open distance ... mm	*Zona finale apertura ... mm*

Slow end open distance ... mm	*Zona finale apertura ... mm*

Slow start open distance ... mm	*Zona iniziale apertura ... mm*

Slow start open distance ... mm	*Zona iniziale apertura ... mm*

Slow start close distance ... mm	*Zona iniziale chiusura ... mm*

Slow start close distance ... mm	*Zona iniziale chiusura ... mm*

Slow end close distance ... mm	*Zona finale chiusura ... mm*

Slow end close distance ... mm	*Zona finale chiusura ... mm*

Maximum speed open ... mm/s	*Velocità massima apertura ... mm/s*

Maximum speed open ... mm/s	*Velocità massima apertura ... mm/s*

Slow end speed open ... mm/s	*Velocità finale apertura ... mm/s*

Slow end speed open ... mm/s	*Velocità finale apertura ... mm/s*

Slow start speed open ... mm/s	*Velocità iniziale apertura ... mm/s*

Slow start speed open ... mm/s	*Velocità iniziale apertura ... mm/s*

Slow speed open initial ... mm/s	*Velocità avviamento apertura ... mm/s*

Slow speed open initial ... mm/s	*Velocità avviamento apertura ... mm/s*

Maximum speed close ... mm/s	Velocità massima chiusura ... mm/s
Maximum speed close ... mm/s	Velocità massima chiusura ... mm/s

Slow start speed close ... mm/s	Velocità iniziale chiusura ... mm/s
Slow start speed close ... mm/s	Velocità iniziale chiusura ... mm/s

Slow end speed close ... mm/s	Velocità finale chiusura ... mm/s
Slow end speed close ... mm/s	Velocità finale chiusura ... mm/s

Slow speed close initial ... mm/s	Velocità avviamento chiusura ... mm/s
Slow speed close initial ... mm/s	Velocità avviamento chiusura ... mm/s

Nudging speed ... mm/s	Velocità accostamento (chiusura) ... mm/s
Nudging speed ... mm/s	Velocità accostamento (chiusura) ... mm/s

Acceleration ramp open ... mm/s^2	Accelerazione apertura ... mm/s^2
Acceleration ramp open ... mm/s^2	Accelerazione apertura ... mm/s^2

Deceleration ramp open ... mm/s^2	Decelerazione apertura ... mm/s^2
Deceleration ramp open ... mm/s^2	Decelerazione apertura ... mm/s^2

Reversal ramp open/close ... mm/s^2	Rampa di inversione apertura/chiusura e arresto apertura ... mm/s^2
Reversal ramp open/close ... mm/s^2	Rampa di inversione apertura/chiusura e arresto apertura ... mm/s^2

Acceleration ramp close ... mm/s^2	Accelerazione chiusura ... mm/s^2
Acceleration ramp close ... mm/s^2	Accelerazione chiusura ... mm/s^2

Deceleration ramp close ... mm/s^2	Decelerazione chiusura ... mm/s^2
Deceleration ramp close ... mm/s^2	Decelerazione chiusura ... mm/s^2

Reversal ramp close/open ... mm/s^2	Rampa di inversione chiusra/apertura e arresto chiusura ... mm/s^2
Reversal ramp close/open ... mm/s^2	Rampa di inversione chiusra/apertura e arresto chiusura ... mm/s^2

Idle torque open ... A	Coppia statica finecorsa apertura ... A
Idle torque open ... A	Coppia statica finecorsa apertura ... A

Idle torque close ... A	Coppia statica finecorsa chiusura ... A
Idle torque close ... A	Coppia statica finecorsa chiusura ... A

Limit force open ... N	Forza massima di apertura ... N
Limit force open ... N	Forza massima di apertura ... N

Limit force close ... N	Forza massima di chiusura ... N
Limit force close ... N	Forza massima di chiusura ... N

Limit force end close ... N	Forza finale chiusura ... N
Limit force end close ... N	Forza finale chiusura ... N

Limit force close nudging ... N	Forza chiusura di accostamento ... N
Limit force close nudging ... N	Forza chiusura di accostamento ... N

Door commands — *Comandi porta*

Stop door	Ferma porta
Open door	Apri porta
Close door	Chiudi porta
Close with nudging	Chiudi porta con accostamento

Automatic runs — *Corse automatiche*

Start automatic runs	Avvio programma corse automatiche
Stop automatic runs	Arresto programma corse automatiche
Start initial learn run	Inizio autoapprendimento
Start normal learn run	Inizio manovra iniziale per rilevare la posizione della porta

MONITOR MENU

MONITOR MENU	*MENU DIAGNOSTICA*

Door state	*Stato*

State = ...	*Stato: ....*
Position= ... mm	*Posizione= ... mm*

Input	*Ingressi*

Input open active/not active	*Input APRI attivo/non attivo*
Input close active/non active	*Input CHIUDI attivo/non attivo*
Input nudge active/non active	*Input NUDGE attivo/non attivo*
Input consent active/non active	*Input CONSENT attivo/non attivo*

Output	*Uscite*

Output opened active/not active	*Output finecorsa apertura attivo/non attivo*
Output closed active/non active	*Output finecorsa chiusura attivo/non attivo*

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SERVICE MENU

SERVICE MENU	*MENU DI SERVIZIO*

- **FW Version** — *Versione Firmware*
  - Firmware version ... — *Versione Firmware ...*

- **Error** — *Errore*
  - Current error — *Errore attuale*
  - Preceding error — *Errore precedente*
  - Second last error — *Penultimo errore*
  - Third last error — *Terzultimo errore*

- **Maintenance menu** — *Menu manutenzione*
  - Read values — *Leggi valori*
    - Opening counter — *Contatore aperture*
    - Closing counter — *Contatore chiusure*
    - Complete runs counter — *Contatore manovre di chiusura/apertura completa*
    - Opening blocking cnt — *Contatore ostacoli in apertura*
    - Closing blocking cnt — *Contatore ostacoli in chiusura*
    - Learn runs counter — *Contatore autoapprendimenti*
    - Start ups counter — *Contatore avviamenti*
    - Operating hours counter — *Contatore ore di servizio*
  - Clear values — *Cancella valori*

- **Special** — *Speciale*
  - Motor current ... A — *Corrente motore ... A*
  - Dynamic mass ... kg — *Massa dinamica ... kg*

MODIFICATION OF PARAMETERS

1. Close the door completely using the "FUNCTION" key (the button must be pressed shortly);
2. Connect the keyboard to the P1 port of the controller, using the pre-arranged wire;
3. Using the below indicated scheme, reach the desired menu pages and assign the new parameters;
4. Upon the programming completed, push the BACK key until you return to the Starting page.

The desired parameter is selected with the ▲ and ▼ key and activated with the ENT key (hand-terminal red led brief blinking). With the help of the appropriate key (see above) the parameter value can be increased or decreased.
The setting of the parameter takes place by repeat pressing the ENT key.

Parameters are saved and immediately overwritten. Speed values the parameters are updated immediately.
Forces and power parameters are updated after the next use.

INFORMATION

Use the "Assigned value" column to record the parameter values set during setup.

MD55   Handterminal
            Terminale manuale

MAIN MENU   *MENU PRINCIPALE*

GENERAL SETUP   *IMPOSTAZIONI GENERALI*

Profile parameter *Parametri profilo*		U.M.	Range	Default	Assigned value
Slow end open distance	*Zona finale apertura* →	N	0 - 100	20	40
Slow end close distance	*Zona finale chiusura* →	mm/s	0 - 100	40	10
Slow start open distance	*Zona iniziale apertura* →	mm/s	0 - 100	40	10
Slow start close distance	*Zona iniziale chiusura* →	mm/s	0 - 100	20	40
Maximum speed open	*Velocità massima apertura* →	mm	50 - 800	300	100
Maximum speed close	*Velocità massima chiusura* →	mm	50 - 500	300	100
Slow end speed open	*Velocità finale apertura* →	mm/s^2	20 - 90	50	60
Slow end speed close	*Velocità finale chiusura* →	mm/s	20 - 90	50	60
Slow start speed open	*Velocità iniziale apertura* →	mm/s	20 - 90	50	60
Slow start speed close	*Velocità iniziale chiusura* →	mm/s	20 - 90	50	60
Slow speed open initial	*Velocità avviamento apertura* →	mm/s	20 - 90	50	90
Slow speed close initial	*Velocità avviamento chiusura* →	mm/s	20 - 90	50	90
Nudging speed	*Velocità accostamento* →	mm/s	20 - 250	50	50
Acceleration ramp open	*Accelerazione apertura* →	mm/s^2	300 - 1400	400	300

		U.M.	Range	Default	Assigned value
Acceleration ramp close	*Accelerazione chiusura*	mm/s^2	300 - 1400	400	300
Deceleration ramp open	*Decelerazione apertura*	mm/s^2	300 - 1400	400	300
Deceleration ramp close	*Decelerazione chiusura*	mm/s^2	300 - 1400	400	300
Reversal ramp open	*Rampa di inversione apertura e arresto apertura*	mm/s^2	300 - 1400	600	300
Reversal remp close	*Rampa di inversione chiusura e arresto apertura*	mm/s^2	300 - 1400	600	300
Idle torque open	*Coppia statica finecorsa apertura*	A	0 - 3.5	1	1
Idle torque close	*Coppia statica finecorsa chiusura*	A	0 - 2.5	0.9	1
Limit force open	*Forza massima di apertura*	N	70 - 300	120	120
Limit force close	*Forza massima di chiusura*	N	70 - 230	40	50
Limit force end close	*Forza finale chiusura*	N	70 - 230	40	50
Limit force nudging	*Forza di accostamento*	N	70 - 230	40	50

13.11. ERRORS AND PROTECTIONS

The door operator detects some errors and protections.
All errores are shown based on an order of priority by means of the red service led coded blinking: 2 sec red led ON + no. of blinking for the corresponding error type.

Errors in order of priority:

No. of blinkings	Error	Problem description	Solution
1	EEPROM	Script error in the micro-controller memory. The door is stopped in that moment's position, the door operator is blocked and the FAULT switch signals the error.	Make a reset by pressing the RESET button.
2	OVERCURRENT	Overcurrent in the motor. The door is stopped in that moment's position, the door operator is blocked and the FAULT switch signals the error and the led is lit red.	Make a reset by pressing the RESET button.
3	MOTOR IS NOT CONNECTED	The motor is not connected. The FAULT switch signals the error. The door operator cannot receive signals until the motor is properly connected.	Once the motor is connected the position detection procedure starts automatically.
4	ENCODER	Encoder signals problems.	Make a reset by pressing the RESET button. The self-learning procedure must be repeated.
5	I2T	Protection against motor overcurrent. After 3 failures of the automatic restart of the normal operation the door is stopped in that moment's position , the door operator is blocked and the FAULT switch signals the error and the led is lit red.	Make a reset by pressing the RESET button.
6	MOTOR DRIVER OVER TEMPERATURE	Motor driver over temperature. The FAULT switch signals the error.	Normal operation restarts automatically when the temperature decreases below threshold level and the FAULT switch is disengaged.
7	ECCESSIVE TRAVEL / TIME	Motor thermal protection.	Normal operation restarts after the motor has been stopped for a while in order to decrease its temperature.
8	UNDERCURRENT	If the supplied current is below 21.6V for more than 10 sec the door is stopped in that moment's position, the door operator is blocked and the FAULT switch signals the error.	The operation restarts automatically once the current level is back to normal.

EN

9	OVERCURRENT	If the supplied current is over 30V for more than 5 sec the door is stopped in that moment's position, the door operator is blocked and the FAULT switch signals the error.	The operation restarts automatically once the current level is back to normal.

INFORMATION
During the error management no signal input is accepted.