



UPDINAMIC S.r.l.

Via Modigliani, 22

37045 - LEGNAGO(VR)

INSTALLATION MANUAL

CAR LIFT AND GOODS LIFT

MODEL DL2

Rev. 04.01 - 24/02/2020

(machine for transporting goods/cars only
or goods/cars with an operator)

SERIAL NUMBER

THIS MANUAL ADDRESSES THE MACHINE INSTALLER AND MAINTENANCE TECHNICIAN. THE OWNER MUST KEEP THIS MANUAL AND THE RELATIVE ATTACHMENTS IN THE UTILITY SHAFT.

- ☒ MACHINE MANUAL
- ☒ USER MANUAL
- ☒ ELECTRIC SYSTEM MANUAL
- ☒ MAINTENANCE MANUAL



The machine has been designed in compliance with the following Directives:

- MACHINERY DIRECTIVE 2006/42/EC
- DIRECTIVE 2006/95/EC
- DIRECTIVE 2004/108/EC

The machine is therefore supplied complete with the documentation as required by these Directives.

The manufacturer has designed the machine considering that it may not be put into service until it has been declared conform to the requirements of Machinery Directive 2006/42/EC.

This manual is hence a guide providing the instructions for putting the machine into service with the aim of ensuring safe operating conditions. Removing the electrical safety devices and the guards provided by the manufacturer will severely compromise the safety conditions of the machine. In addition, the installation, power supply and maintenance instructions must strictly be followed for proper use of the machine.

The machine must be used in accordance with its intended use as specified by the manufacturer in this manual; it is therefore recommended to carefully read through this manual before use.

Maintenance entails a few simple operations that can be carried out by the machine operator. In order to get the longest life and the best operating economy out of the machine, it is recommended to strictly follow the rules contained in this document.

The manufacturer cannot be held responsible for failures, accidents or other problems due to inobservance of (or failing to apply) the instructions contained in this manual. This also applies to making modifications and changes or installing unauthorised accessories.

This installation manual constitutes an integral part of the machine:

It is essential to keep it intact and in a safe place throughout the lifetime of the machine.

CAREFULLY READ AND KEEP THIS INSTALLATION MANUAL.



OBLIGATIONS OF THE OWNER

For installation and maintenance of car lifts and goods lifts, Art. 15 of Pres. Decree 162/99 requires that the system owner appoint a person holding a:

qualification certificate (LETTER "F") issued by the prefecture.

It should also be specified that Art. 12 of Pres. Decree 162/99 lays down that the competent municipality has to be notified when putting car lifts and goods lifts into private service, indicating, amongst other things, the qualified company the owner has appointed to carry out system maintenance in accordance with Law 46 of 5 March 1990 [now Min. Decree 37/08]. Therefore, it must be concluded that the company that carries out extraordinary maintenance of the lift systems must also have the requirements according to Min. Decree 37/08.

The system CE certificate will be handed to the customer after the installer has sent the completed checklist to UpDinamic.



INSTALLATION MANUAL

ORIGINAL INSTRUCTIONS

Rev.04.01 Updated 24/02/2020

Per informazioni:

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One level ahead.

TO REQUEST COPIES OR UPDATES OF THE MANUAL, CONTACT:

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**SYSTEM CHECKLIST**

Address of the place where the system is installed:	Installation company:
System model:	Operator:
Serial number:	Signature:

CROSS THE BOX ONLY IF THE CHECK HAD A POSITIVE OUTCOME

STRUCTURE

- ☐ USE SCREW ANCHORS SUPPLIED BY UPDINAMIC
(Fischer, Hilti or equivalent screw anchors permitted)
- ☐ THE ANCHORING STRENGTH OF THE SCREW ANCHORS ON THE LOAD-BEARING WALL HAS BEEN CHECKED
- ☐ TIGHTNESS OF THE SCREW ANCHORS HAS BEEN CHECKED WITH A TORQUE WRENCH ACCORDING TO THE TECHNICAL DATA SHEET OF THE MANUFACTURER
- ☐ THE CHAINS HAVE CORRECTLY BEEN INSTALLED WITH THE PINS AND SPLIT PINS PROVIDED BY UPDINAMIC
(in the case of 2 chains, both chains must be tensioned to balance the load)
- ☐ THE ANTI-TURNOVER BOLTS HAVE BEEN FITTED AT THE END OF THE GUIDES
(to prevent the carriage from slipping off the guides)
- ☐ THE MAXIMUM TRAVEL OF THE SYSTEM HAS BEEN CHECKED (overlimit)
- ☐ THE MECHANICAL SUPPORTS ON EACH FLOOR ARE STABLE AND SECURE
- ☐ THE MECHANICS OF THE HOOK ON THE CARRIAGE IS SMOOTH AND WELL GREASED
- ☐ THERE ARE NO DANGEROUS RECESSES IN THE SHAFT
(offsets, beams, rods or any other object installed subsequently, e.g. door handles)
- ☐ THE PHOTOCELLS HAVE BEEN FITTED ON THE OPEN SIDES
- ☐ ON EACH FLOOR, IF THE SPACE BETWEEN THE WALLS AND THE PLATFORM AND BETWEEN THE LANDING AND PLATFORM IS BETWEEN 20mm AND 150mm, THERE MUST BE A BEVEL ON THE WALL
- ☐ ON EACH FLOOR, IF THE SPACE BETWEEN THE WALLS AND THE PLATFORM AND BETWEEN THE LANDING AND THE PLATFORM IS MORE THAN 150mm, THERE MUST BE AN UNOPENABLE GUARD DURING MOVEMENT

SYSTEM

- ☐ THE TUBES AND CABLES HAVE BEEN POSITIONED SO THAT THEY CANNOT BE DAMAGED
- ☐ THE ASCENT SPEED IS LESS THAN 15 cm/s
- ☐ THE DESCENT SPEED IS LESS THAN 15 cm/s
- ☐ THE EMERGENCY STOP BUTTON STOPS THE SYSTEM IN ANY CONDITION
- ☐ THE ELECTRIC LOCKS ARE POWERED ONLY IF THE PLATFORM IS AT THE CORRESPONDING FLOOR
- ☐ THE ELECTRIC LOCKS HAVE CORRECTLY BEEN INSTALLED AND COUPLING IS MECHANICALLY SAFE
- ☐ THE DOORS OPEN ONLY IF THE PLATFORM IS AT THE CORRESPONDING FLOOR
- ☐ THE SYSTEM DOES NOT FUNCTION IF THE DOORS ARE OPEN
- ☐ THE DOORS AND THE PERIMETER GUARDS ARE SOLID WITH BLIND WALLS OR DENSE WIRE MESH
- ☐ ALL THE LIMIT SWITCHES PRESENT FUNCTION PROPERLY
- ☐ ALL THE SEND AND CALL BUTTONS CORRESPOND
- ☐ ALL THE WARNING LIGHTS CORRESPOND
- ☐ THE PROXIMITY SWITCHES ON THE CARRIAGE FUNCTION PROPERLY AND HAVE AN AIR GAP OF 2mm
- ☐ THE CABLE THAT REACHES THE MOVABLE PART IS FIRMLY SECURED WITHOUT THE RISK OF ENTANGLEMENT
- ☐ THE SYSTEM STOPS IF IT PASSES BEYOND THE PHOTOCELLS FITTED ON THE OPEN SIDES
- ☐ THE DOORS HAVE BEEN INSTALLED LEVEL
- ☐ THE DOORS ARE INSTALLED AT MAXIMUM 10cm FROM THE SHAFT WITH THE POSSIBILITY OF OPENING THEM FROM THE INSIDE
- ☐ THE DOORS OPEN TOWARDS THE OUTSIDE
- ☐ THE RESET PROCEDURE HAS BEEN CHECKED
- ☐ THE SAFETY STRUT AND THE EMERGENCY STOP IN THE PIT HAVE BEEN INSTALLED PROPERLY
- ☐ OVERLOAD TEST: SYSTEM CAPACITY + 10%:

WEIGHT USED FOR THE TEST: Kg

FINAL LOAD TEST:
PRESSURE REGISTRATION bar

UTILITY SHAFT

- ☐ POSITION THE CONTROL UNIT AND THE ELECTRIC PANEL IN A TECHNICAL AREA NOT ACCESSIBLE TO UNAUTHORISED PERSONS
- ☐ THE TECHNICAL AREA MUST BE PROVIDED WITH LIGHTING
- ☐ THE TECHNICAL AREA MUST BE VENTILATED

NOTE:

The installer declares having read and understood the instructions in this installation manual and that all the installation operations have been carried out accordingly.
In order to receive the Certificate of Conformity and the CE marking to be applied on the system, send the present document with photographs of the completed installation attached via fax, e-mail or normal mail.

Date:

Customer
Signature:



1. STRUCTURE OF THE INSTALLATION MANUAL

This manual has been drawn up in compliance with Directive 2006/42/EC, Annex I, paragraph 1.7.4. This installation manual consists of an initial section comprising:

- MACHINE TECHNICAL DATA
- GENERAL SAFETY RULES
- INSTALLATION REQUIREMENTS AND PROCEDURES

2. MACHINE DEFINITIONS AND COMPONENTS

DEFINITIONS

Part description	Denomination
Machine loading platform	Platform
Proximity sensor	PX
Position switch	Limit switch
Safety electric lock	Electric lock
Electromechanical anti-fall device	Anti-fall device

GENERAL WARNINGS

The safety and installation instructions given in this manual must be followed during all the machine unloading and installation operations. This manual forms an integral part of the machine and is to be kept for future reference.

It is therefore advisable to:

- carefully read the instructions before starting with machine installation;
- meticulously carry out each operation described observing the safety rules.

UPDINAMIC S.r.l. declines all responsibility for damage caused to persons or things due to:

- Inobservance of these instructions and safety rules.
- Change of destination.
- Incorrect machine installation not according to the instructions provided.
- Improper use of the machine.
- Any modifications made to the machine without the permission of the manufacturer.

When reading this manual, pay attention to the symbols listed below.



DANGER: The rules and/or instructions marked with this symbol regard safety. This symbol indicates that if the operations described are not correctly carried out, the operators are exposed to risks of injury, long-term harm or death.



WARNING: The rules and/or instructions marked with this symbol regard safety. This symbol indicates the hazards to which the operators are exposed during machine installation. If the rules marked with this symbol are not followed, the machine may be damaged with consequent hazard to the operators.



PROHIBITED: The rules and/or instructions marked with this symbol regard operations that absolutely **MAY NOT** be carried out. Inobservance of these rules may damage the machine and/or cause serious hazards to the operators.

Important

IMPORTANT: This symbol indicates that particular attention should be paid when carrying out installation, cleaning and/or maintenance operations. Inobservance of these rules may damage the machine and/or cause serious hazards to the operators or others.

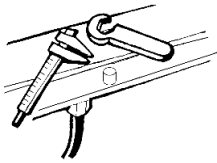
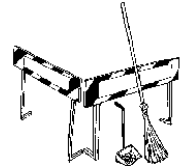
3. BASIC SAFETY RULES

The installation operators (installation and startup) must have the required qualifications. In Italy, the installation company must have the required professional technical qualifications (letter F of Pres. Decree 162 of 30 April 1999 and be authorised by the competent body. The installer must hence be able to read and understand the diagrams and drawings. The system must be installed following the instructions in the relative technical file and all the necessary safety devices must be in place to protect the safety of the operators.

The machine owner must ensure that anyone who has access to the installation devices has read through this manual and has fully understood its contents. In addition, it is important that the owner ensure that the operators comply with all the regulations and/or requirements for the prevention of accidents in the workplace, also considering the specific conditions in the place of installation.

WARNING

The working environment must be kept clean and tidy. In particular, the danger zones must be duly marked off.

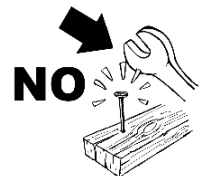


WARNING

Do not leave working tools and materials on the machine (or anywhere else where they may interfere with the mechanical movements of the lift) or where they can fall and cause damage to persons and/or things.

WARNING

Every tool is to be used only for the purpose for which it was designed and in the most suitable way. Any tool that has deteriorated or is in poor conditions is a potential hazard.



WARNING

Flapping clothing (e.g. scarves, ties, etc.) is a potential hazard. Always work wearing tight-fitting clothes.

WARNING

Oil and grease spilled on the floor must immediately be removed to prevent any risk of slipping and falling.



4. INSTALLATION SAFETY CONDITIONS



All the installation operators must use personal protective equipment and clothing as required by the regulations in force on accident prevention in the workplace.

PPE: harness, hard hat, shoes, gloves



In order to ensure safety of the construction site, access to the pit must be limited. If no permanent fencing is provided, the installer must put up provisional fencing around the perimeter of the pit. Only authorised persons may access the fenced-off area.

INSTALLER'S EQUIPMENT

- Scaffolding
- Electric hoist for construction sites
- Anti-fall systems, harnesses
- PPE
- Standard tools
- Portable welder
- Sander
- Portable lamps for the areas difficult to access and poorly illuminated
- 4 props (approx. 2000mm high) to support the platform (500 kg) if operations underneath the platform are required
- Thermometer to check the operating temperature
- Stop watch to check the operating speed
- Amperometric pliers to check electric motor absorption

5. SITE PREPARATION

- Check that the walls are rectilinear using a plumb line.
- Check for any masonry offsets and eliminate them.
- Thoroughly clean and dry the pit shaft.
- Check that the scaffolding is properly positioned and that it has a declaration of conformity.
- Make sure that all the accesses to the shaft are appropriately closed with well secured doors or railings in order to prevent the risk of falling.
- Position the external control pushbutton panels in such a way that the distance to the floor is between 900mm and 1100mm.
- Prepare an adequate lighting system:
- 50 Lux in the lift shaft; 200 Lux in the utility shaft.



In order to allow installing the DL2 goods lift, the operations indicated in the technical drawings provided by the manufacturer must be carried out in advance. Check the adequacy of the load-bearing wall in relation to the operating loads. Analyse the design layout checking that all the shaft measurements correspond to the theoretical values.

Check that all the building and preparation work has been carried out:

- Ducts, corrugated pipes and holes through which to run the electrical cables and hydraulic tubes according to the manufacturer's instructions:
 - two 20mm Ø corrugated pipes must reach each floor for connection of the pushbutton panel and the electric lock to the utility shaft;
 - one 120mm Ø hole in the extra pit for the hydraulic tubes to run through.
- Opening in the wall to fit the landing doors.
- Utility shaft in accordance with the regulations located on the lower floor on a wall adjacent to the lift shaft for positioning of the hydraulic control unit and the electric panel.
- The utility shaft must be large enough to allow maintenance operations by qualified operators (minimum 100x160xH.200cm) and be positioned in a place accessible for maintenance and at the same time away from and protected against access by unauthorised persons.



- The utility shaft should be positioned in a dry place protected against water.
- It is advisable to protect the technical area with a brick wall, panels or a specific technical cabinet.
- Adequate power supply.
- Check that the pit is square using plumb lines and draw the reference marks for lift centring on the wall.
- Check that the load-bearing wall is in cement of at least C20/25 quality with strength performance equal to or greater than that indicated for the lift model in question.
- Check shaft accessibility for placing goods inside it.
- Check that the shaft, travel, pit, and head dimensions coincide with the measurements indicated on the drawings provided by the manufacturer.

INSTALLATION MANUAL

ORIGINAL INSTRUCTIONS

Rev.04.01 Updated 24/02/2020



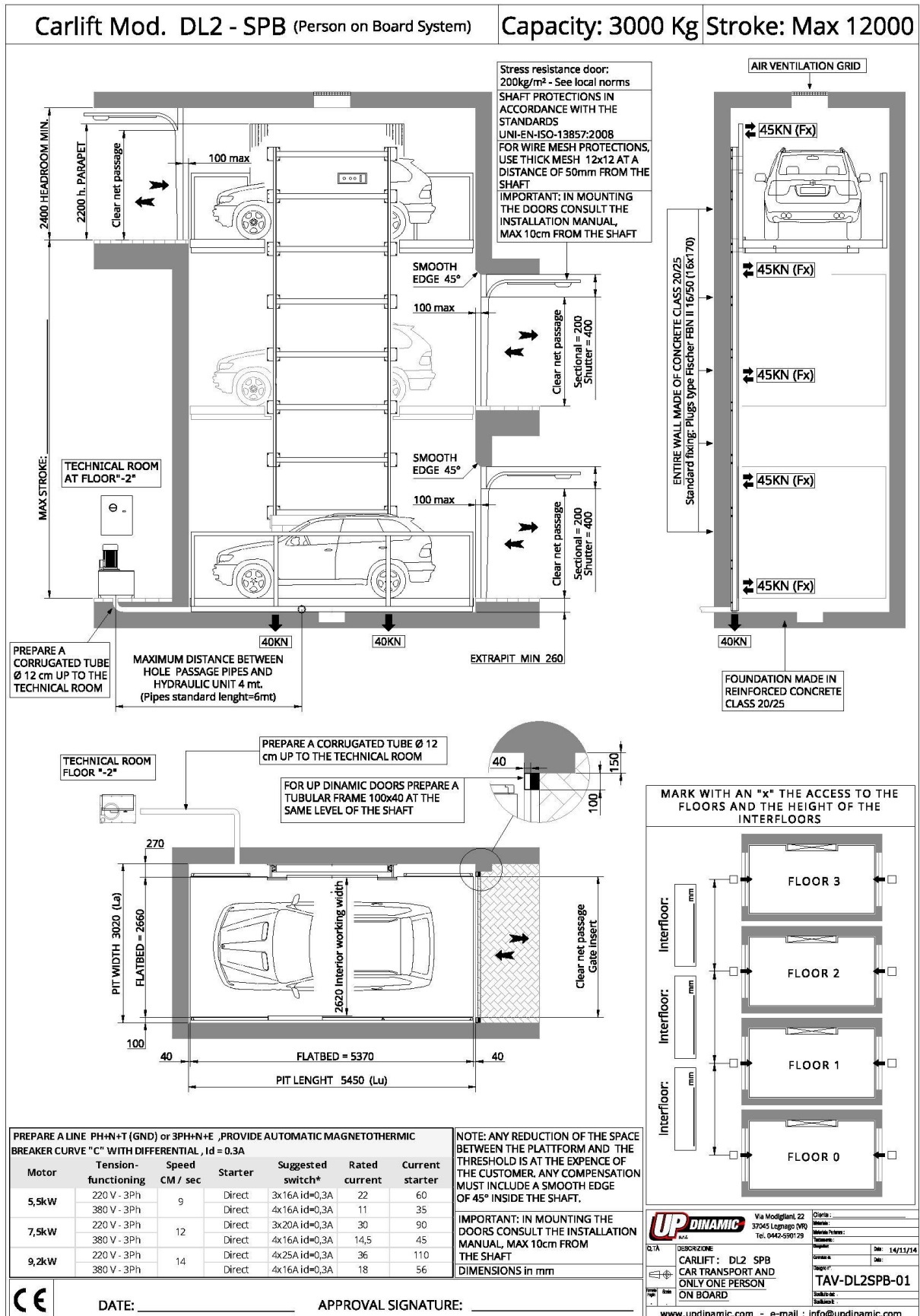
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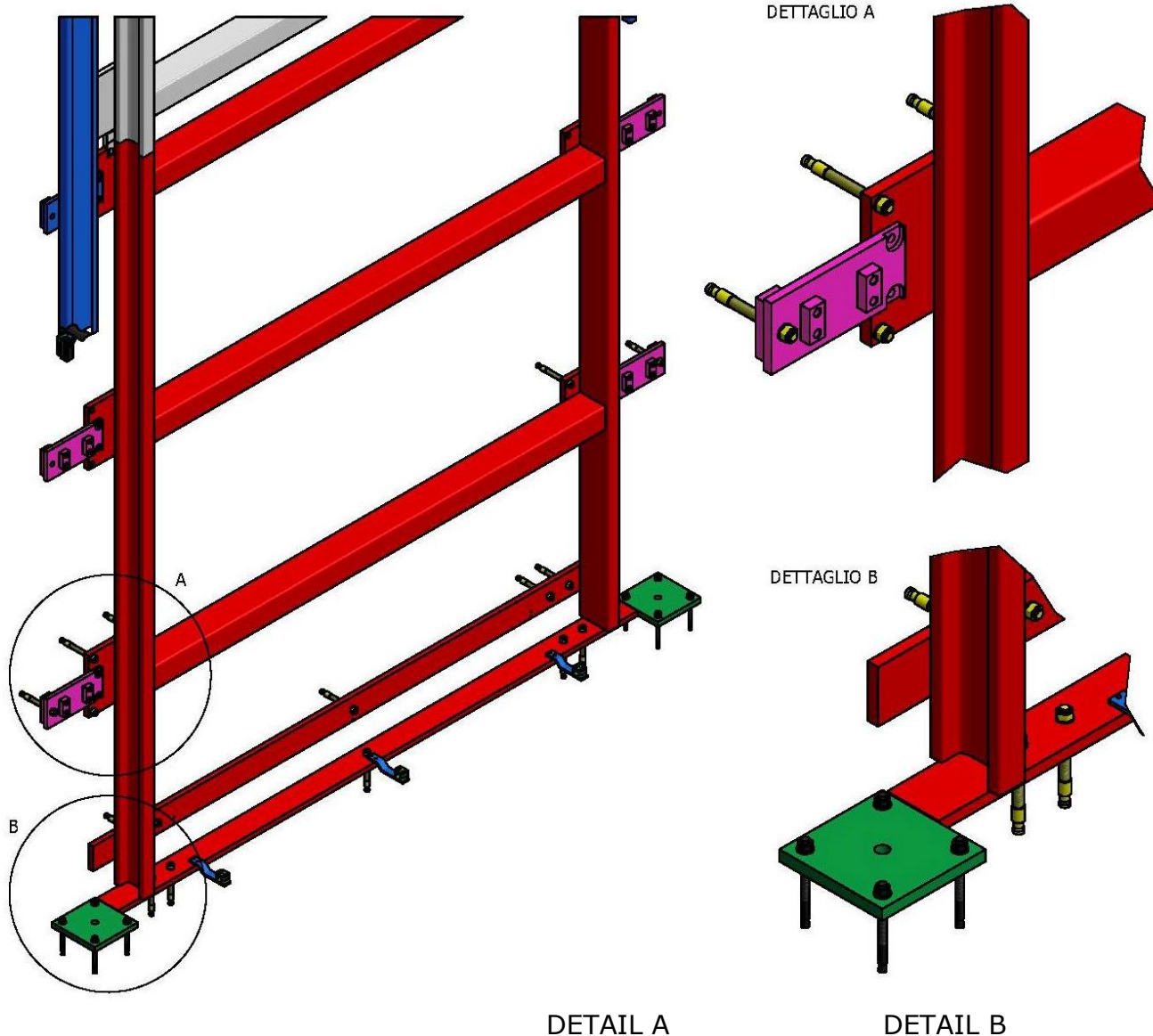
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6. DL2 MACHINE DIAGRAM



7. FASTENING ON A REINFORCED CONCRETE WALL



The wall fittings are positioned on the load-bearing wall or on a steel structure. Standard fastening is on class C20/25 reinforced concrete with screw anchors type:

- Fischer model:

FBN II 16/50 (16x170)

THE CUSTOMER MUST ENSURE THAT:
THE LOAD-BEARING WALL CAN RESIST THE LOADS INDICATED UP TO 220cm BEYOND THE
MAXIMUM TRAVEL

THE LOAD-BEARING WALL IS CONSTRUCTED OF ORDINARY CONCRETE WITH A STRENGTH
CLASS NOT BELOW C20/25

8. CHECKING THE ELECTRIC AND HYDRAULIC LINES

Check that the power supply line and power socket are present and that the power is suited to the system characteristics. The electrical characteristics of the system are indicated on the electric panel wiring diagram and on the motor data plate.

- The standard length of the hydraulic tubes and the electric cables is 6m.
- Install a differential switch upstream of the electric system of the lift positioning it in the utility shaft.
- Install a stop button in the pit.
- With an operator on board, a single-beam photoelectric barrier must be installed on each free side of the platform.
- With an operator on board, a control pushbutton panel is provided onboard the machine.
- A pushbutton panel and an electromagnetic lock are provided on each floor connected to the electric panel of the system.
- The flat cable provided must be connected onboard the machine to power the electromagnets, proximity switches, photocells and pushbutton panel.

1.2. EMERGENCY STOP BUTTON IN THE PIT



An emergency stop button is provided in the pit to be activated during maintenance to disable any movement command given from the outside.



It is strictly prohibited for unauthorised persons to stand underneath the lift and for reasons other than those mentioned above.

9. ELECTRICAL PART AND SAFETY COMPONENTS

LOCKS PROVIDED

Pizzato Elettrica S.r.l.:

Safety switches with electromagnet with separate activation: FD, FG, FP and FS series.

(In compliance with the requirements of: Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and Electromagnetic Compatibility Directive 2004/108/EC)

For the following brands, check the absorption and, if necessary, fit a support relay with an adequate power supply:

Tieffe S.r.l.:

TF2000 series locks

(CE Type Test Certificate No. I0110 in compliance with Directive 95/16/EC issued by IMQ S.p.A. Notified Body No. 0051)

Hans & Jos. Kronenberg GmbH:

DLF and DL series locks

(In compliance with the requirements of: EN 81-1, EN 81-2, EN 60947-5-1; certificate ATV 13/7 or ATV 15/6 (TÜV))

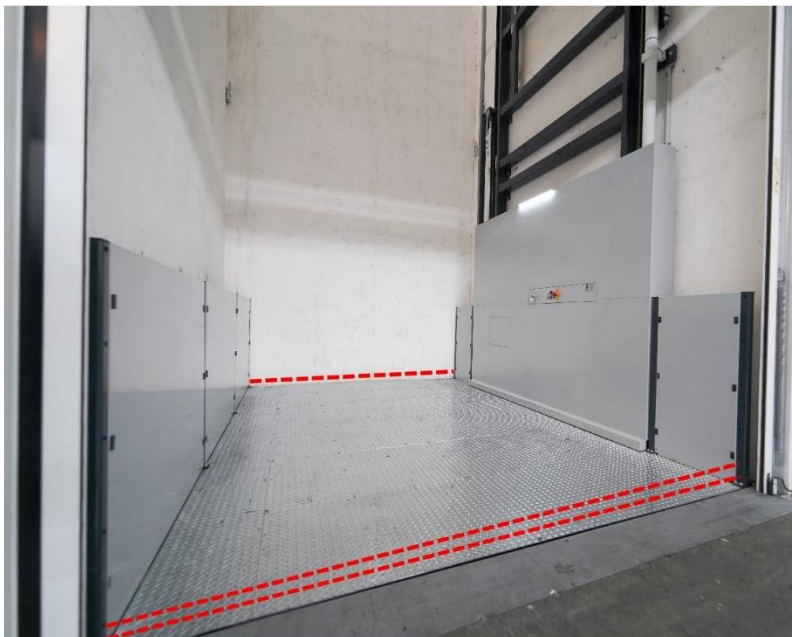
Prudhomme S.a:

Mechanical locks: LR series

Electric locks: LR series

(CE Test Certificate; in compliance with the requirements of: NFP 82-212; certificate ISO 9001)

PHOTOELECTRIC BARRIERS (ONLY SPB)

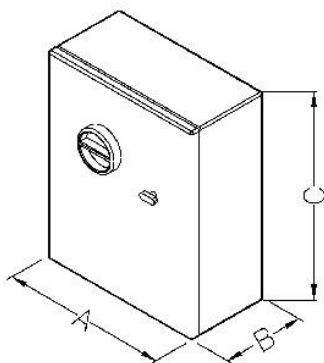


Install photoelectric barriers on the free sides of the platform. The photoelectric beam must be positioned in correspondence to the edge of the platform; if crossed during movement, the system is stopped thus preventing crushing. Once the initial conditions have been re-established, movement can be resumed.

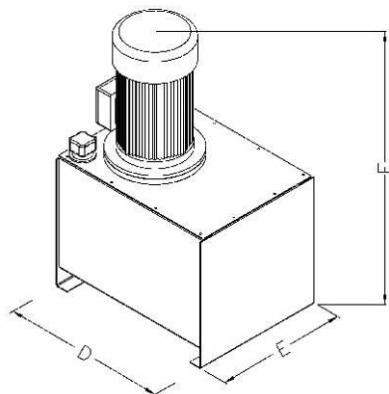
An emitter and a receiver are provided for each side to be connected in the electric box onboard the machine.

ELECTRIC PANEL DIMENSIONS

A = 50 cm
B = 25 cm
C = 70 cm



HYDRAULIC CONTROL UNIT DIMENSIONS



	5,5kW	7.5kW	9.2kW	11kW
F	80cm	85cm	90cm	95cm
D	60cm	60cm	60cm	60cm
E	45cm	45cm	50cm	50cm
	240-400V three-phase	240-400V three-phase	240-400V three-phase	240-400V three-phase

THREE-PHASE MOTORS AVAILABLE

Motor	Operating voltage	Starting	Recommended switch*	Rated current	Starting current
5,5kW	240 V - monophase	Direct	3x20A id=0,3A	17	51
	400 V - threephase	Direct	4x16A id=0,3A	10	30
7,5kW	240 V - monophase	Direct	3x20A id=0,3A	23	69
	400 V - threephase	Direct	4x16A id=0,3A	14	42
9,2 kW	240 V - monophase	Direct	3x32A id=0,3A	28	84
	400 V - threephase	Direct	4x20A id=0,3A	17	51
11 kW	240 V - monophase	Direct	3x40A id=0,3A	34	102
	400 V - threephase	Direct	4x25A id=0,3A	20	60

*

Automatic magnetothermal switch with differential, curve "C".
Provide for pentapolar 3P+N+G power supply

10. SAFETY STRUT

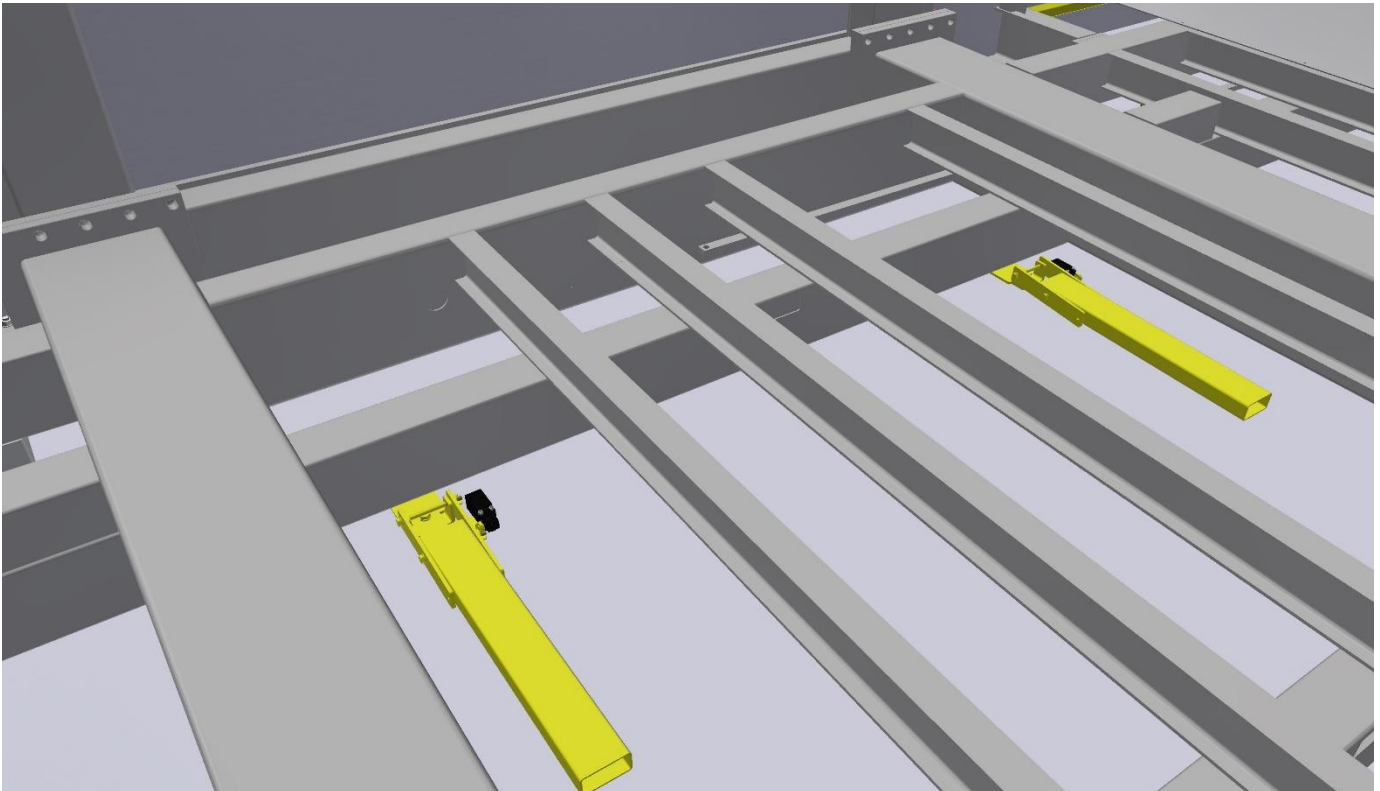
For safety reasons, it is essential to install the strut if working underneath the lift during installation and maintenance.



It is strictly prohibited for unauthorised persons to stand underneath the lift and for reasons other than those mentioned above.

Operate as follows to install the strut:

- Anchor the base plate to the pit floor.
- Screw one end of the side plates onto the base plate.
- Screw the tube onto the side plates.
- Provisionally anchor the base plate to the pit floor (respect coupling with the tube).
- Screw the limit switch onto the base plate.
- Check that the tube is correctly in contact with the limit switch.
- Finally fasten the limit switch.
- Connect the limit switch to the electric panel (see the electric system manual)





In the rest phase, fasten the tube to the base plate.

In the operating phase, position the tube vertically by screwing the other end of the side plates onto the base plate. Check that the position is correct in order to ensure that the platform is supported.



The strut guarantees a maximum capacity of 2000 kg



Any maintenance operation must be carried out with the lift empty.

11. INSTALLATION

The installation operations (installation and startup) are exclusively carried out by the manufacturer or by qualified persons authorised by the manufacturer, who are able to read and understand the diagrams and drawings. The system must be installed following the instructions in the relative technical file.

12. CLEANING THE PIT

The pit has to be cleaned in order to properly and safely carry out the subsequent operations:

- Prepare a dry pit.
- Remove any objects from the floor.
- Adequately clean the pit floor.
- Shave the floor to ensure that it is perfectly horizontal.
- Check for any masonry offsets and eliminate them.
- Remove any protrusions from the floor and the walls (tubes, rods, etc.).
- Adequately clean the pit walls.
- Shave the walls to ensure that they are perfectly vertical.

13. PUTTING UP THE SCAFFOLDING

The scaffolding has to be put up inside the shaft. The scaffolding should be used for installing the mechanical and electrical parts of the system and any landing doors. The scaffolding should have a working platform in correspondence to each access to the shaft; this platform should be about 30cm lower than the stopping floor to facilitate installing the support plates of the anti-fall system in correspondence to each floor. The scaffolding should be positioned about 45cm from the guide fastening wall and there should be sufficient room around the perimeter to manoeuvre the loads.

If the scaffolding is even partially made of metal structures, it must be connected to ground. The scaffolding should have its own declaration of conformity.

14. GOODS RECEIPT

The following will be indicated on the accompanying delivery note:

- Origin of the goods.
- Machine type and model.
- System number.
- Any integration accessories.
- Indication whether the goods are a part delivery or in full.



Upon receipt, the installer must check the material received against the delivery note.

The packaging will normally include the following items:

Sliding guides in modules of 3000mm (max).
Loading platform.
Almond-pattern sheets to cover the platform + any railings.
Carriage complete with sliding bearings.
Hydraulic cylinder + spacer extension.
Lifting chains.
Hydraulic control unit and hydraulic tubes.
Pre-assembled electric panel and electric cables.
Heavy-duty screw anchors for fastening the structure.
Accessory box.

Check the integrity of the various parts after unpacking them. Report any missing items to the manufacturer.

15. UNLOADING AND HANDLING THE GOODS



The unloading and handling operations require the use of a crane truck or a forklift truck. The above mentioned trucks may only be used by qualified persons holding certificates if necessary. During the operations, take care to lift and move the goods without damaging them and place them in protected and guarded areas and in ambient conditions that will not compromise the good conditions of the goods.

16. LIFTING DEVICE

To handle the loads inside the shaft, first of all install a jib crane with an electric hoist with a declared capacity of at least 1500 kg in correspondence to the shaft head. The jib crane and the hoist must have a declaration of conformity.

The hoist must be positioned in such a way as to be useful for moving the loads from the lower to the upper floor.

The jib crane should be fastened to the reinforced concrete wall with suitable screw anchors so as to guarantee the maximum lifting load. For installation of the jib crane with electric hoist, follow the instructions provided by the manufacturer.

The length of the hoist chain must be such that the goods can be anchored and transported to the lowest floor.



Once the hoist has been installed, post a clearly visible sign indicating its maximum capacity.

- LIFTING AND HANDLING THE GOODS



Before proceeding with the goods lifting operations, check the maximum capacity of the lifting systems used.



Pay attention to the corners and be careful not to let the lifted goods oscillate.



Take all the necessary precautions for suspended loads.



It is strictly prohibited to stand or walk underneath suspended loads.

- LIFTING AND HANDLING THE LOADS IN THE LIFT SHAFT



Check the maximum capacity of the hoist hooking point and post a clearly visible sign indicating the maximum operating load.



All the lifting devices used must be checked before use and must have an inspection certificate.



It is strictly prohibited to stand or walk underneath suspended loads.

17. FASTENING THE FIRST MODULE

Position the first module complete with carriage on the bottom of the pit.

Hook the module onto the hoist and lift it in vertical position resting it against the fastening wall [12a]

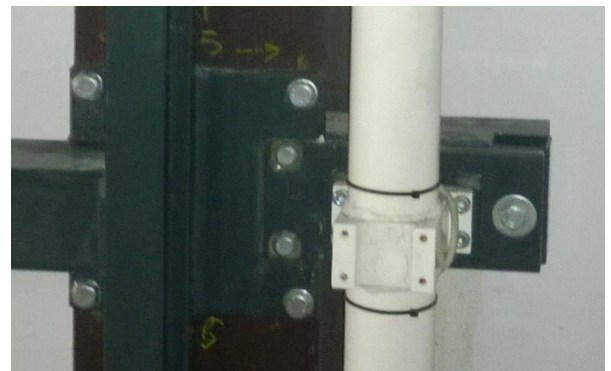
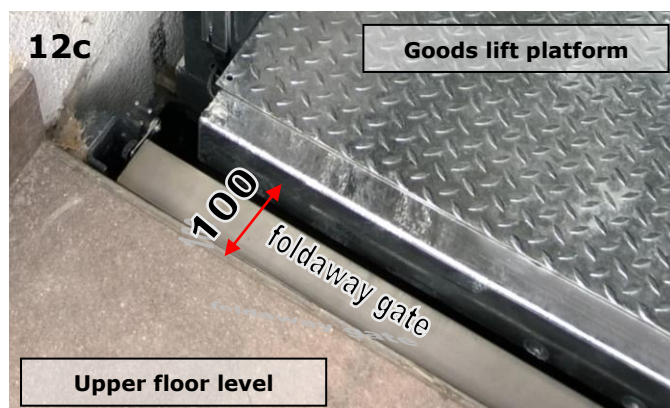
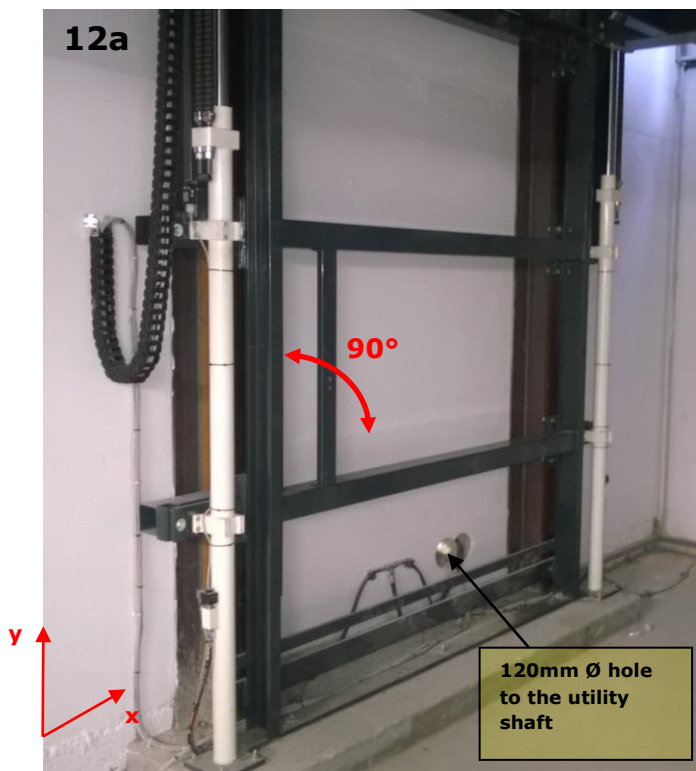
Position the module level between the X and Y axes inserting plastic shims under the support plate.

Then fasten the hydraulic cylinders to the structure [12b] (using shims if necessary) bearing in mind that the entire load weighs down in line with the cylinder, therefore, it is essential that the base plate completely rests on the floor in correspondence to the cylinder [12b].

WARNING: Check guide positioning with respect to the pit (see the technical drawings provided). The guides are not necessarily always to be positioned in the centre of the pit!

Example: DL2 with foldaway gate

The gate takes up 100mm of space on the side, therefore, the guides should be installed off-centre to allow fastening the gate inside the shaft [12c].



- FASTENING THE STRUCTURE WITH HEAVY-DUTY SCREW ANCHORS

The structure must be fastened using the special screw anchors provided by UpDinamic.

The holes must be drilled following the instructions in the screw anchor manual.

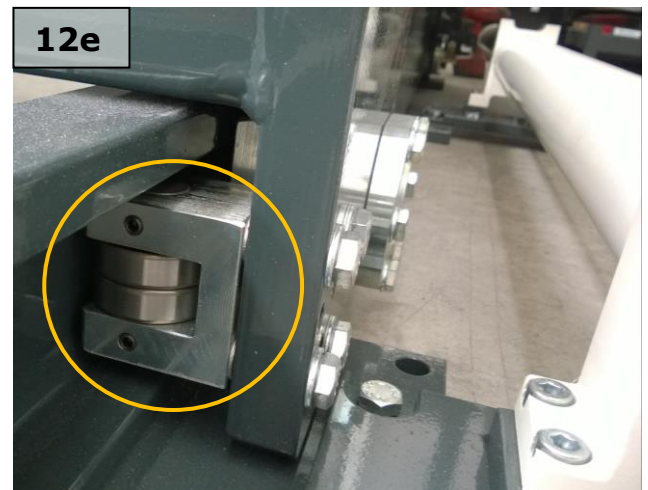
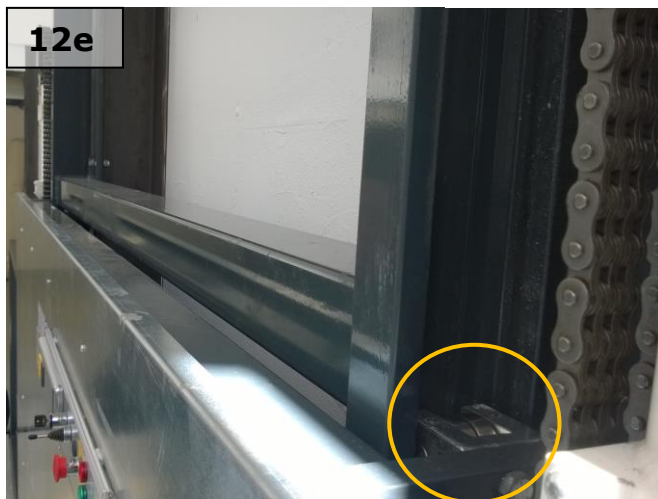
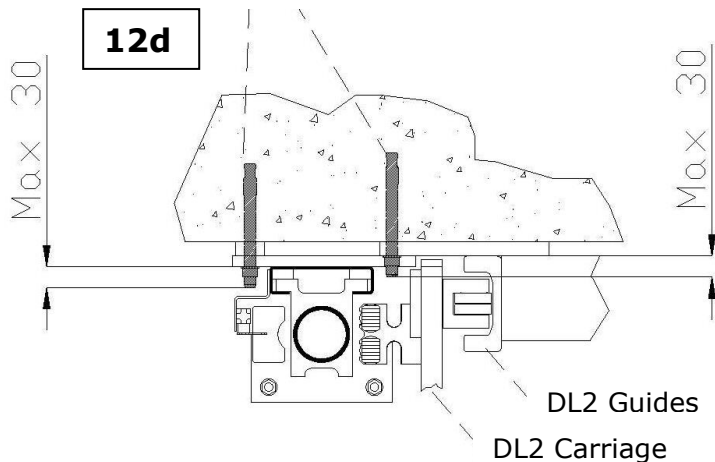
To compensate for the errors of a not perfectly flat wall, you can insert the plastic spacers provided in order to recover the space between the reinforced concrete wall and the plate.

Fasten the screw anchor using a torque wrench and tighten it to the torque indicated in the specific screw anchor manual.

Carry out the operation for all the fastening holes present.

IMPORTANT:

- Take care to protect the bearings and all the mechanical and electrical parts that require high protection. Clean the guides and bearings removing any dust and drilling remains before moving the carriage [12d].
- It is important that the screw anchors do not protrude by more than 30mm to prevent interference with the platform during travel [12e].



18. FASTENING THE NEXT MODULES

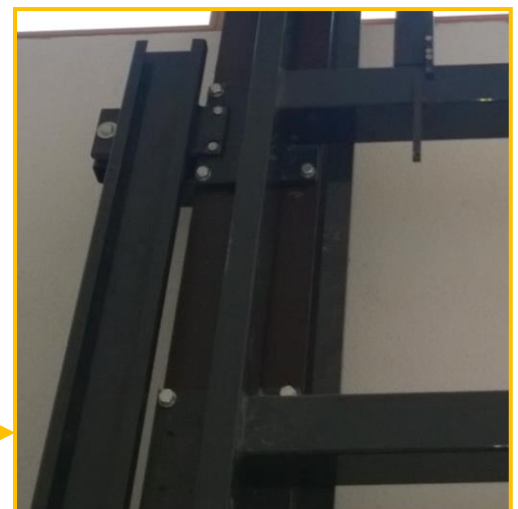
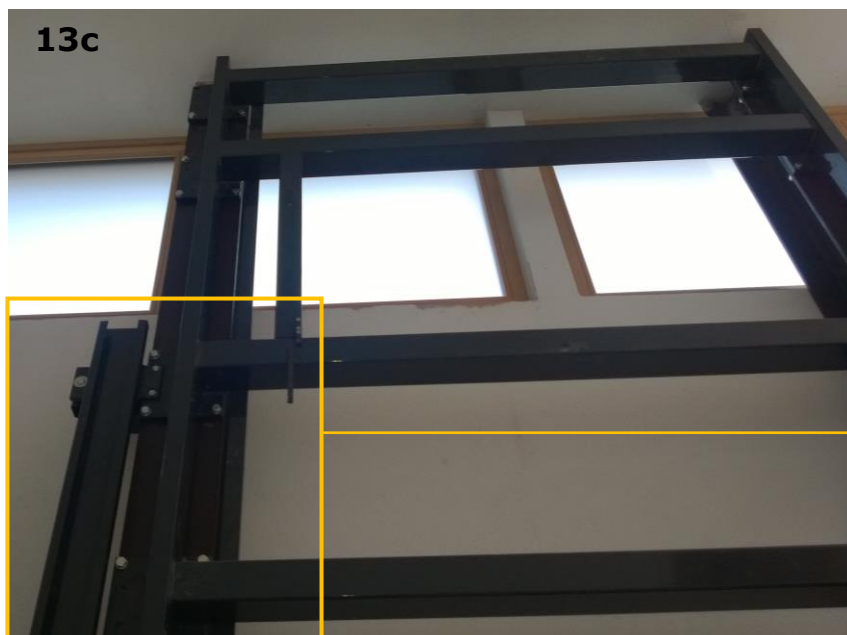
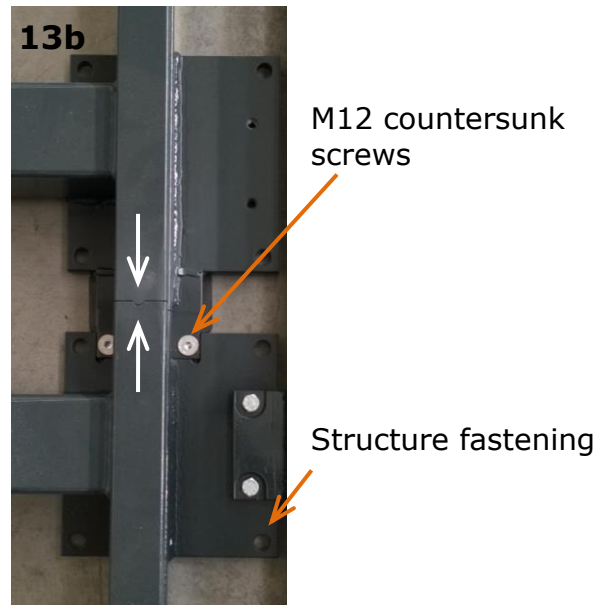
Carry out the lifting and installation operations of the next modules following the same procedure described above [13a].

Fit the upper module from top to bottom [13b] taking care to perfectly position the male/female joint of the modules; after making the guides coincide, check that the bearing sliding surface is smooth and on the same level without interferences at the guide joining points.

Always pay the utmost attention to keep the structure level.

Fasten the joint with the dedicated bolts and lock them with thread locker.

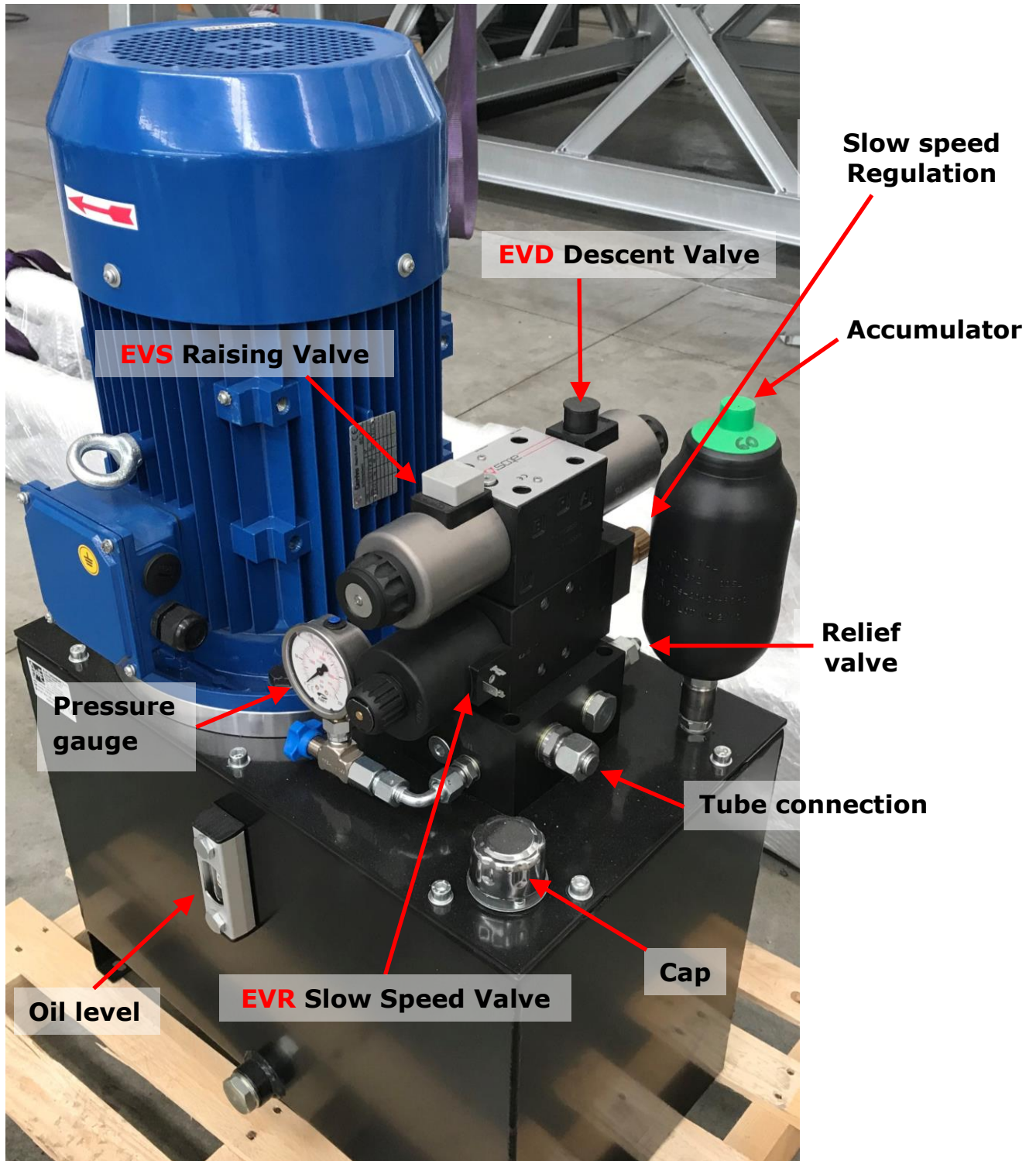
Proceed as described above until completing the structure.



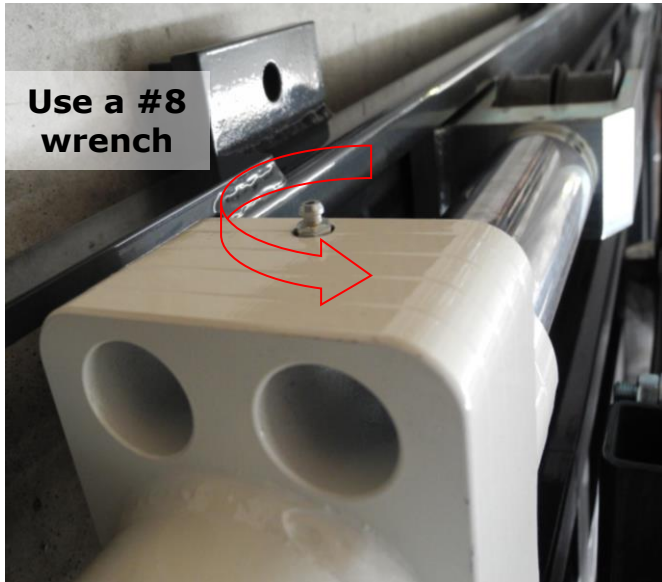
Fastening on beams [13c]

HYDRAULIC SYSTEM DESCRIPTION

19. HYDRAULIC CONTROL UNIT



20. BLEEDING THE SYSTEM



To bleed the cylinders, act on the breather pipe on the upper part of the cylinders.

Carry out the operation holding the loading platform stably lifted by about 10cm for at least half an hour so that the air in the cylinders flows towards the top of the cylinders.

Simultaneously open the dedicated screw at the top of the 2 cylinders to bleed the air from the hydraulic cylinders. To prevent splashes, fit the Nylon tube provided on the bleeding screw.

It is advisable to repeat the operation after a 30-minute pause.

WARNING: the cylinders must be bled in order to prevent jumping during travel.

21. FILLING THE TANK

The hydraulic unit tank is to be filled with oil for hydraulic systems, type Wladoil Engine HY SY. It is important to use special filters that prevent polluting particles from entering. To start system operation, the oil must be above the minimum level indicated on the tank.

Wladoil Engine HY SY (approximate average characteristics)

- | | |
|----------------------------------|-------|
| - Density at 15°C: | 0.852 |
| - cSt viscosity at 40°C: | 32 |
| - Engler viscosity at 50°C: | 3.2 |
| - Viscosity index: | 100 |
| - Pour point °C: | -33 |
| - Flammability VA °C: | 192 |
| - Aniline point °C: | 96 |
| - DIN 51 524 HLP classification: | 32 |

22. ADJUSTING THE RELIEF VALVE

Adjust the relief valve setting a maximum operating pressure as shown in the table below:

Model	Max cylinder load (kg)	Maximum capacity (kg)	Rod diameter (mm)	Max platform travel (mm)	Max operating pressure (bar)
DL2-DEC2	4800	2000	Ø60	7000	170
			Ø70	8900	125
			* Ø70 *	16000	125
DL2-DEC1	5300	2500	Ø60	6600	190
			Ø70	8500	140
			* Ø70 *	16000	140
DL2-SPB	5800	3000	Ø60	6200	200
			Ø70	8100	155
			* Ø70 *	16000	155
DL2-MAG1	5800	3500			
			Ø70	8000	155
			* Ø70 *	16000	155
DL2-MAG2	6100	4000			
			Ø70	7900	160
			* Ø70 *	16000	160

NB: Rod Ø60mm is out of production, it was used only up to a capacity of 3000Kg

* Ø70 * = Cylinder with 2 rod guide carriages, to halve the peak load



Loosen the lock nut and act on the Allen screw:

Clockwise = Increase the pressure

Counterclockwise = Decrease the pressure



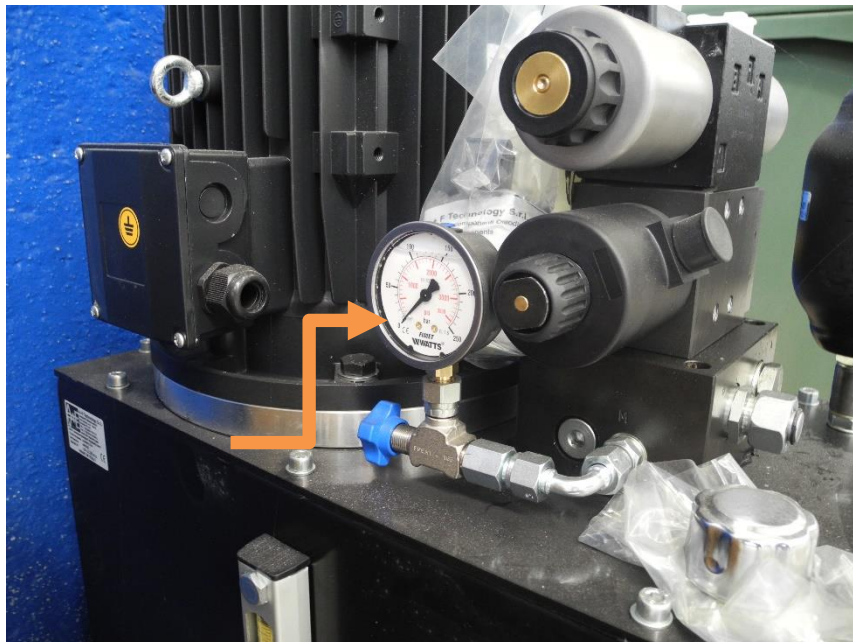
ADJUSTMENT PROCEDURE FOR OVERLOAD CONTROL

- Load the flatbed with the maximum transportable weight (see "maximum flow rate" table).
- Make the ascent manouvre and make sure the flatbed remains stationary (the pressure is not sufficient to lift the load)
- Act on the regulating grain by increasing the pressure until the flatbed starts to move
- Check the working pressure and compare it with the maximum pressure indicated in the previous table according to the hoist model

Note: If the pressure is higher than indicated in the table, please inform Updynamic Technical Assistance

Perform a +20% overload test by verifying that the hoist can lift the overload

Transcribe LOAD used for calibration and WORKING PRESSURE on the installation check list



23. ADJUSTING THE DESCENT SPEED

To adjust the descent speed:



ANTICLOCKWISE = accelerates descent

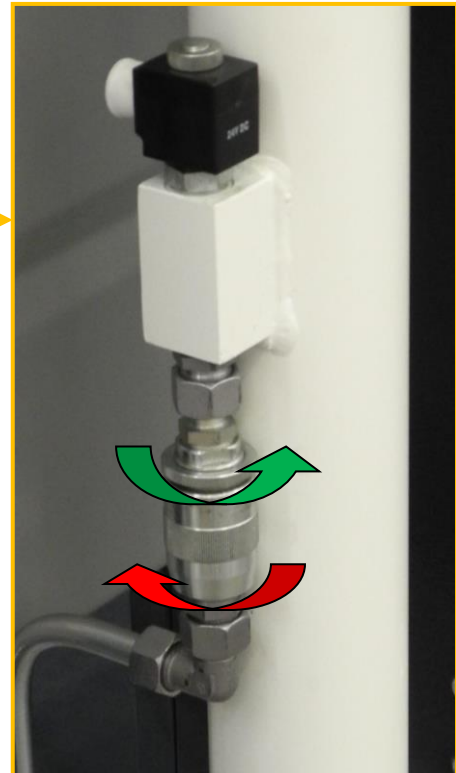
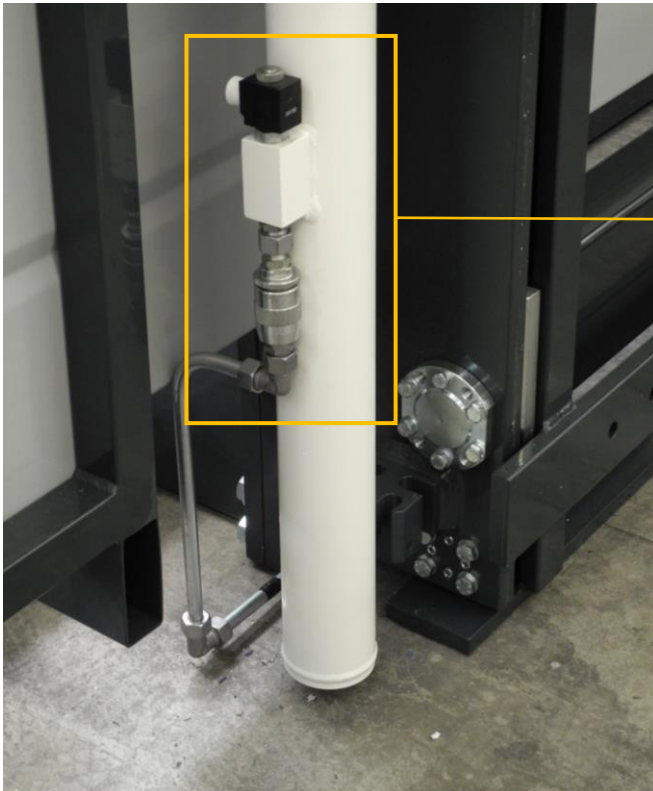


CLOCKWISE = decelerates descent

WARNING:

- The speed varies in relation to the load!
- The regulator can be installed in proximity of the cylinders [18a]

Adjust the descent speed so that it is always less than 15 cm/s at full load.



24. FITTING THE CHAINS

The chains are supplied custom pre-assembled; the following are present at the two ends:

CARRIAGE/PLATFORM SIDE



**Fixed stay on
carriage/platform
side**



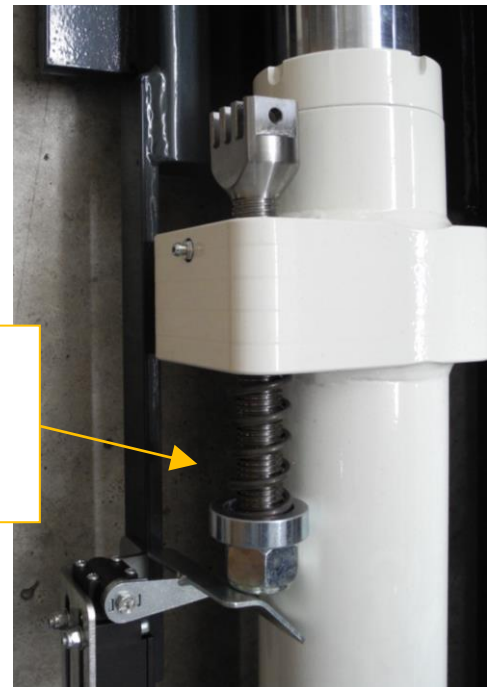
**Fit the M8 safety
screw provided**

CYLINDER SIDE



**Screw stay (for
adjustment) on
cylinder side**

**Control spring and
limit switch for SPB
only (person on
board)**



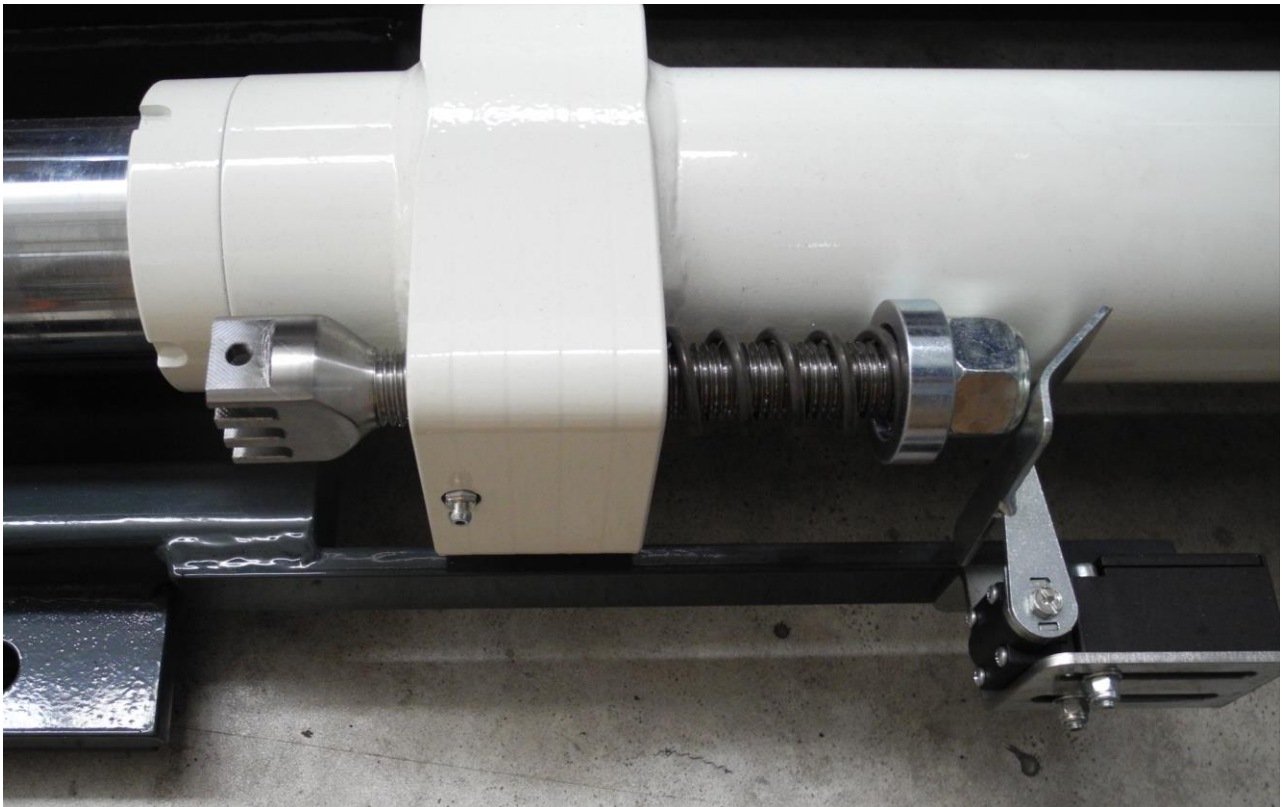
IMPORTANT: After handling the machine for the first time, adjust and tension the chains keeping the same tension on both chains.

25. INSTALLING THE CHAIN BREAKING CONTROL SYSTEM (SPB ONLY)

Assemble the chain control system at the height of the coupling of both hydraulic cylinders.

The limit switch connection must be a NC contact.

During normal operation, the limit switch is not active and the contact hence remains closed and the chains tensioned.

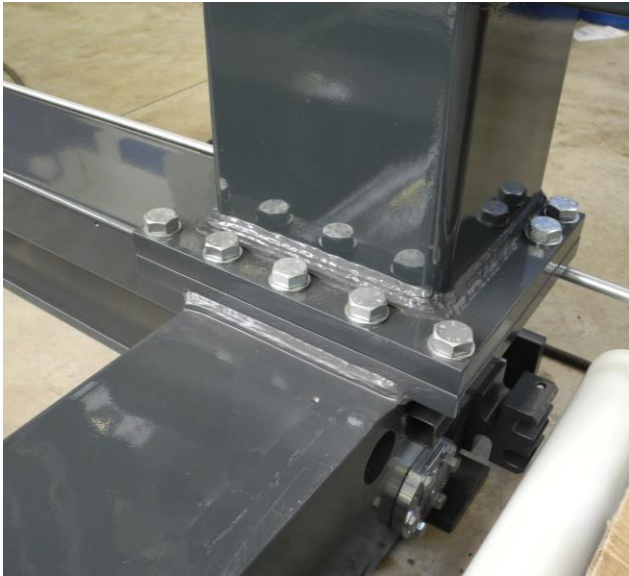


In the event of slackening of even only one chain, the limit switch is activated and locks system operation.

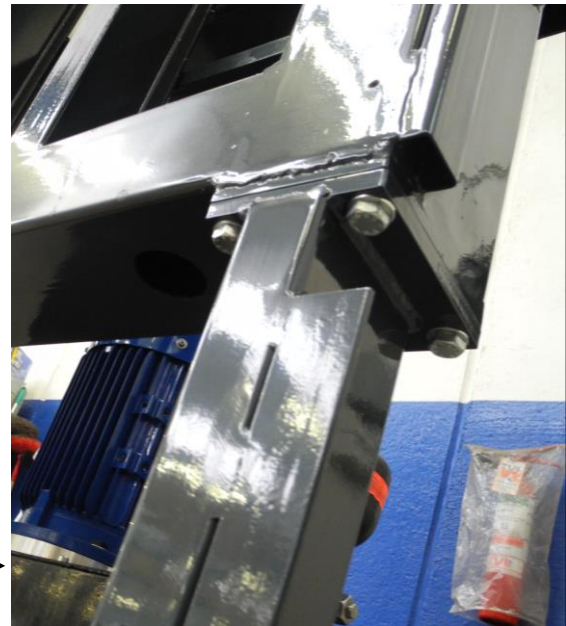
NB: The chains may also slacken when the loading platform rests at the floors; in this case, the limit switch signal is not considered.

**NB: USE THREAD LOCKER ON ALL THE
BOLTED CONNECTIONS USED**

26. ASSEMBLING THE PLATFORM



Assemble the platform by
screwing it onto the carriage



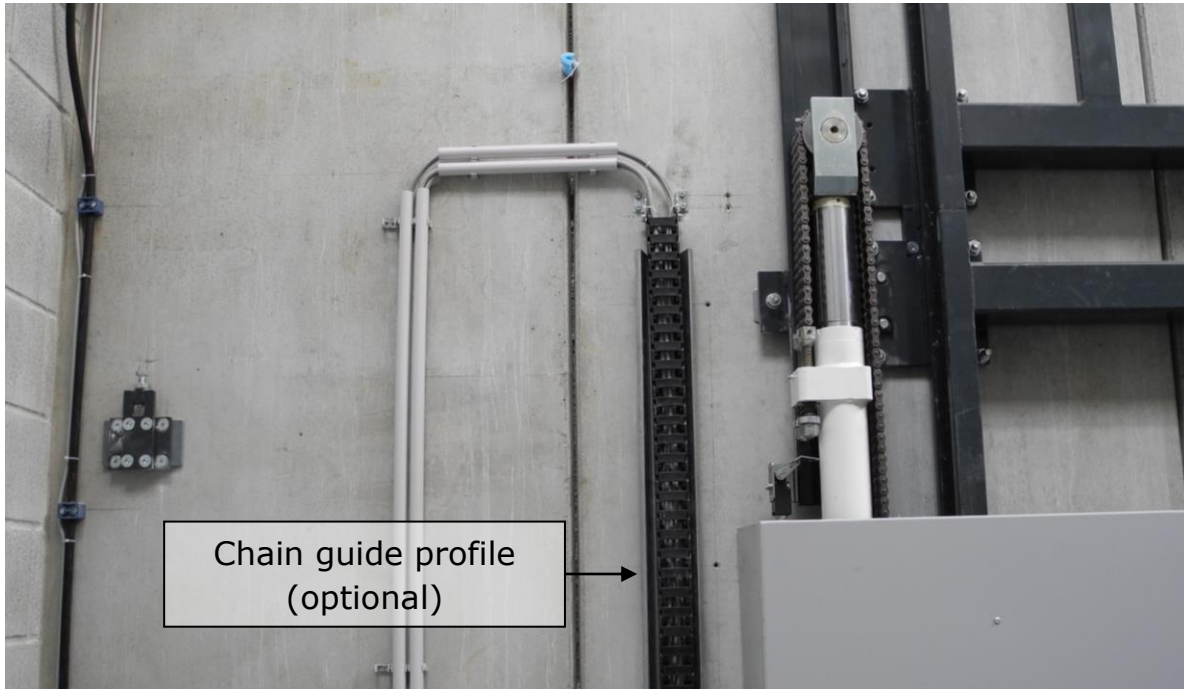
Assemble the railings by screwing
them onto the platform



IT IS STRICTLY PROHIBITED
to stand underneath the loading platform
during the functional tests

27. FASTENING THE CABLE CHAIN

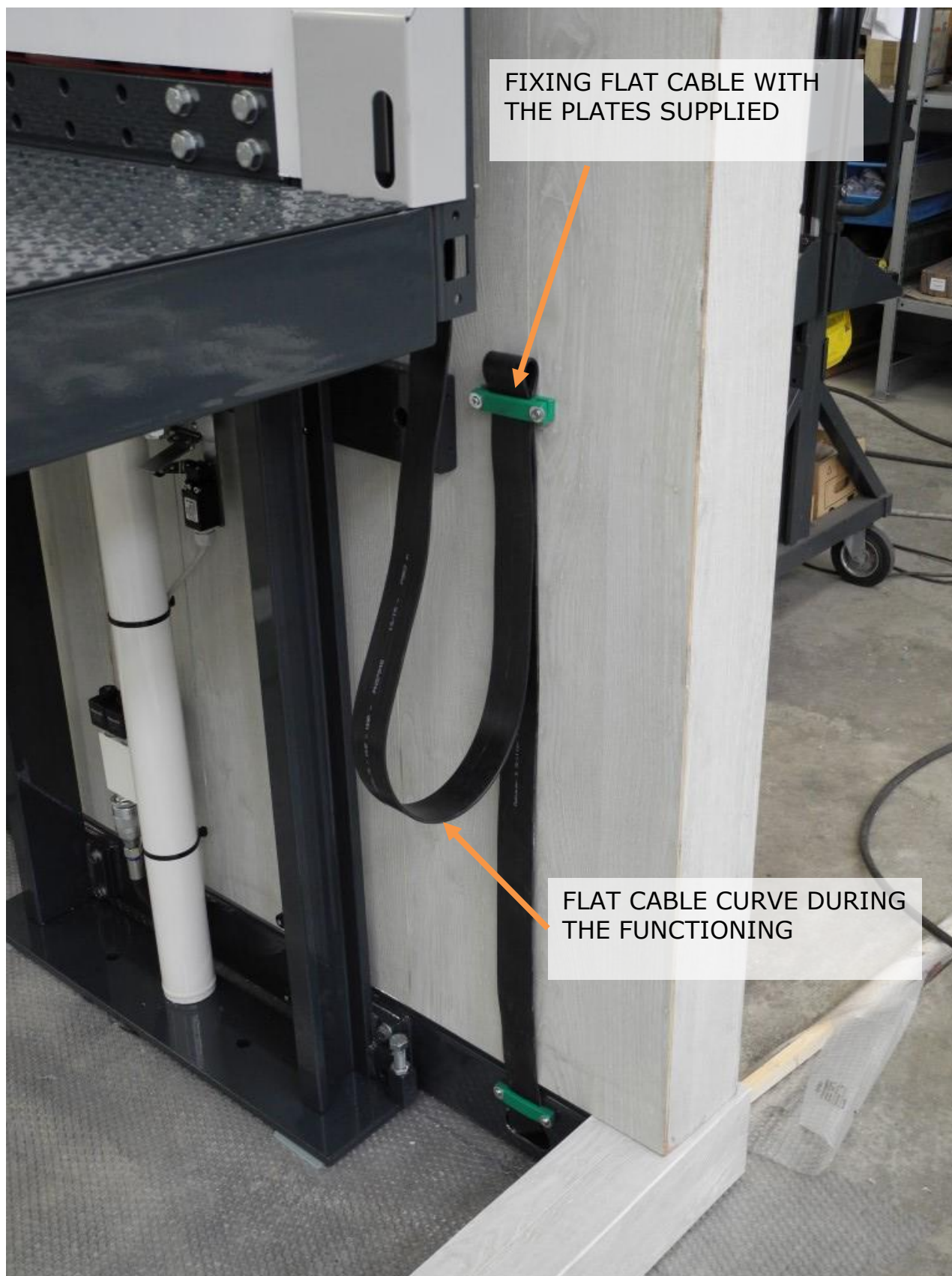
- Fasten the cable chain to the wall keeping the platform stationary at the lowest floor.



- Then move the platform to the highest floor to check that the chain length is exact.

WARNING: If the chain were too short, it would be damaged during ascent with the risk of also damaging the cables inside!

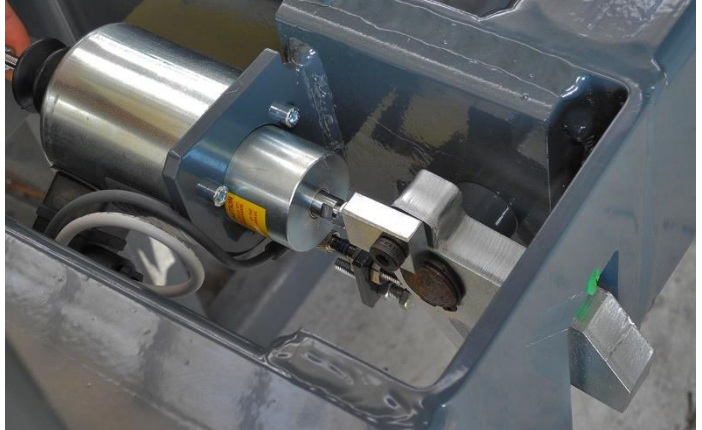
FASTENING THE FLAT CABLE



28. ADJUSTING THE ANTI-FALL SYSTEM



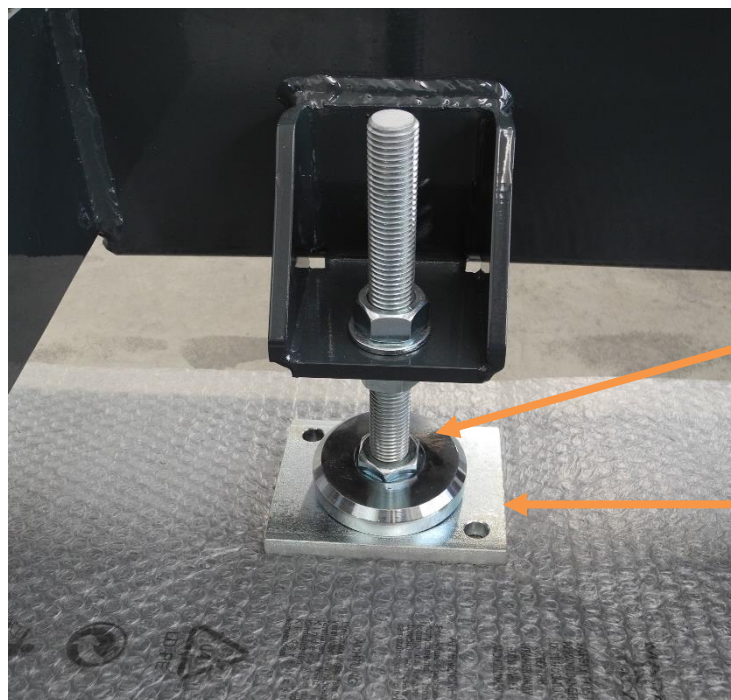
Hook deactivated



Hook activated

Fix the supports to the wall taking care that there is no interference with the flatbed during the run (both empty and fully loaded)

Use the registry screw to adjust the support of the hook



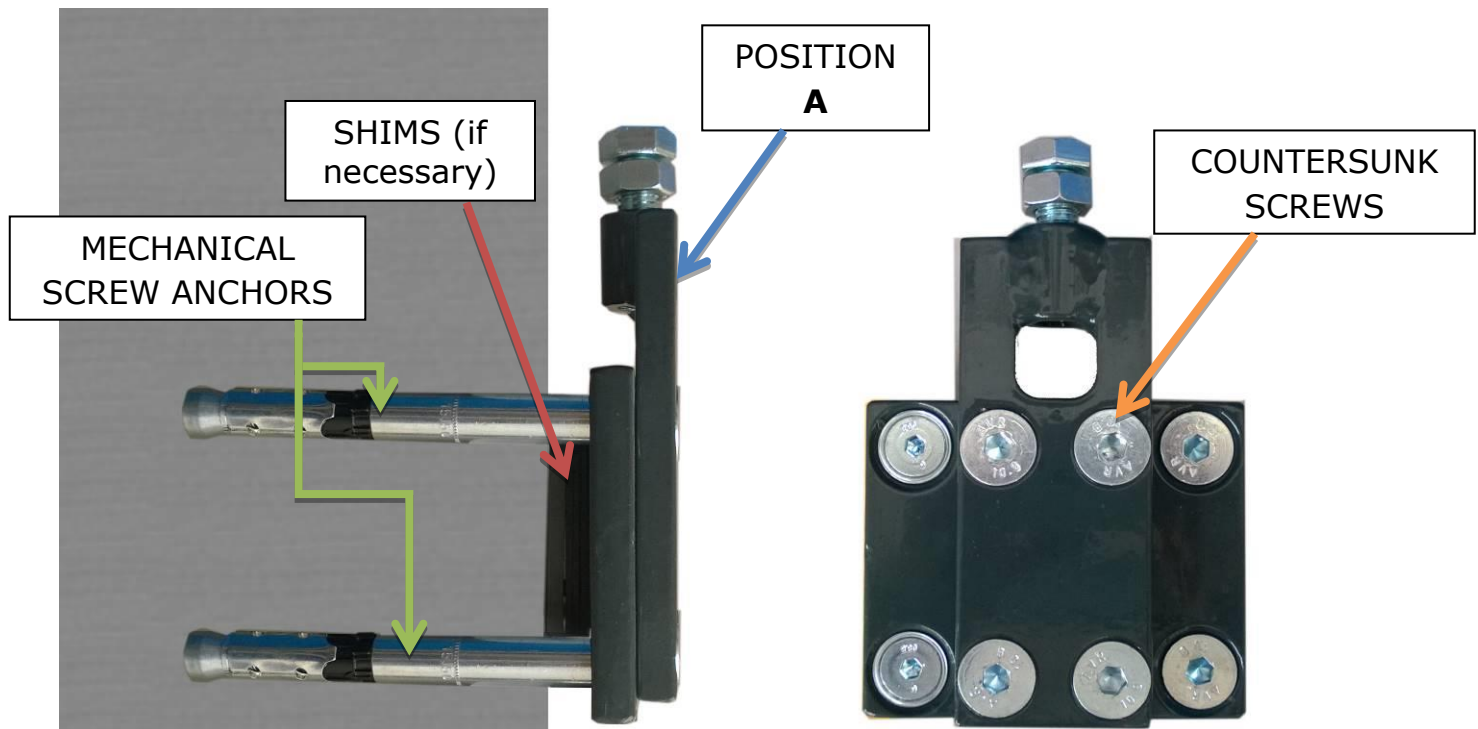
On the lower floor use adjustable support feet

Fix the support plate to the bottom of the pit with the anchors supplied.

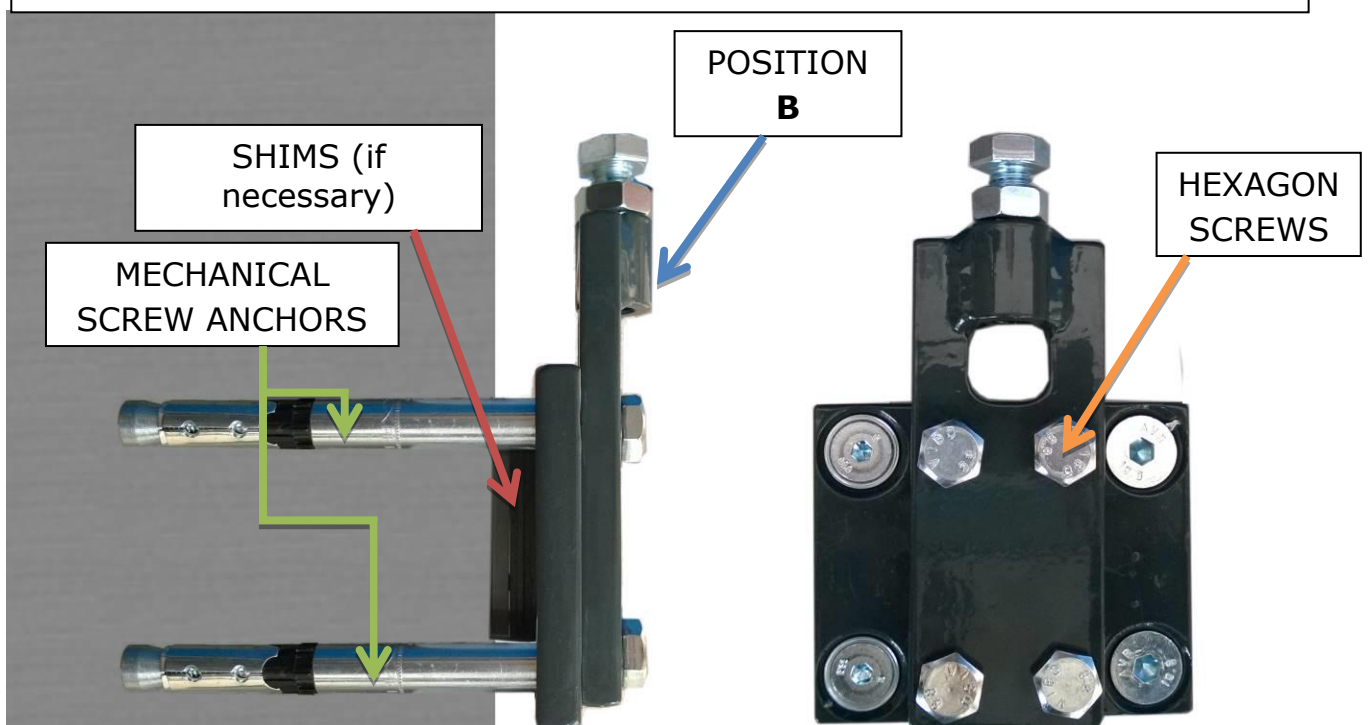
Use a plastic/rubber between the foot and the plate to avoid noise when the flatbed reach the lower floor

29. ANTI-FALL PLATES TO BE FASTENED TO THE WALL

VERSION WITH COUNTERSUNK SCREWS



VERSION WITH HEXAGON SCREWS



30. PERIMETER GUARDS AND LIFT SHAFT CHARACTERISTICS

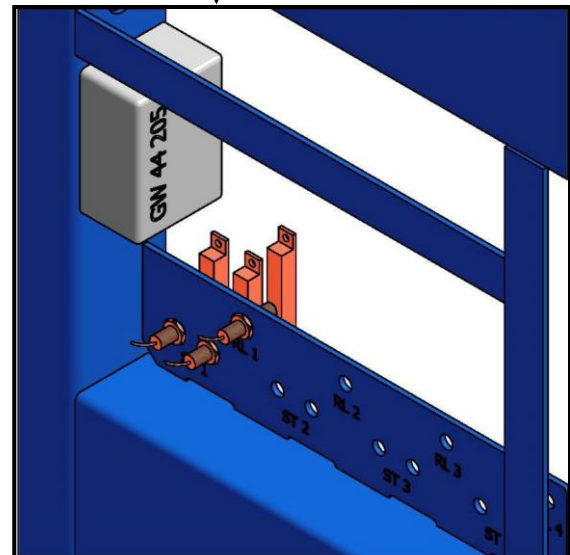
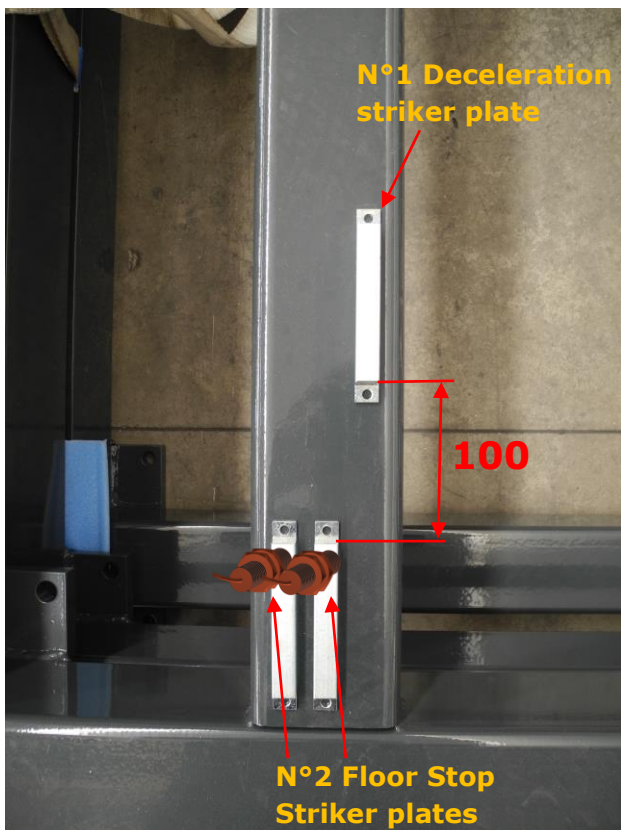
In order to be used, the machine must be inserted in a suitable context and meet all the safety requirements indicated in the Machinery Directive. The Directive lays down that, where possible, harmonised standards should be followed in order to put a conform machine into service. In this connection, refer to the UNI EN ISO 13857 standard for setting up the perimeter guards.

- The lift shaft must be completely closed on all sides for the entire lift travel.
- The height of the guard on the upper floor must be at least 1100mm.
- The curtain walls must be solid, i.e. blind walls or 12x12mm dense wire mesh through which fingers cannot pass.
- The lift shaft walls must be smooth without recesses or protrusions; the distance between the wall and the loading platform may vary between 20mm and 40mm.
- The lift shaft accesses must be protected with electrically-controlled landing doors.
- If there are protrusions between 0 and <150, it is essential to make a 45° bevel on the crushing area. In addition, protection photocells should be fitted on the loading platform.
- If a protrusion is <150mm, the loading platform must have a fixed closure.



31. POSITIONING THE FLOOR STOP SENSORS

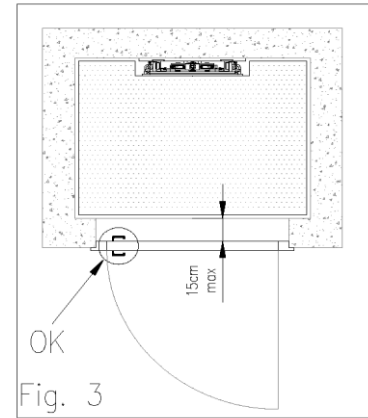
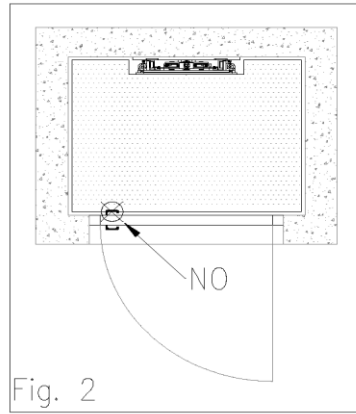
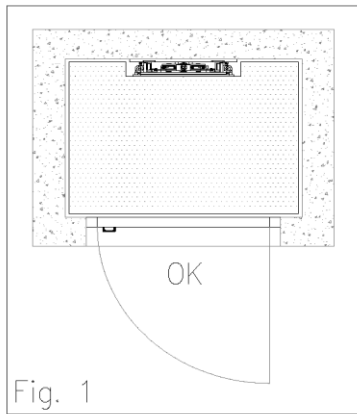
The sensors are positioned on the carriage and are accessible through the hatch on the protection cover on the guide side.



Fasten the striker plates on the crosspieces welded to the guides.
Use the magnets provided to facilitate installation.
Respect the measurements indicated and verify the operation both empty and fully loaded, if necessary, **adjust the deceleration speed.**
(See Pag. 25)

32. LANDING DOORS

The landing doors must satisfy the following characteristics:



- The doors may be lift-type swing doors with an integrated electric lock (type Tieffe, Kronenberg, Prudhomme) or an external electric lock. The doors must also be openable from inside the lift to prevent the risk of persons getting trapped inside (see Figure 1).
- The doors may be the standard multipurpose type with handles on both sides. They must be at a maximum distance of 15cm from the loading platform with a 45° bevel on the upper jamb (see Figure 3).
This type of door must not have a spring closure to prevent accidental closing.
External safety electric locks must be installed on these doors.
- The multipurpose doors must be installed level to prevent accidental closing. The internal handle must not interfere with the lift platform (see Figure 2).

Standard multipurpose door

- The doors must be solid, completely closed or in fine wire mesh according to UNI EN ISO 13857.



- The doors may not have any slits through which hands, fingers or feet can pass (ref. UNI EN ISO 13857).
- The doors must be fitted with an integrated electric lock or an external electric lock securely fastened to the door (follow the instructions provided by the manufacturer). External electric locks must be fitted on the upper parts of the door so that they are not easily accessible.

- The doors may be garage-type doors with handles on both sides to allow opening them from either side.
They must be at a maximum distance of 15cm from the loading platform with a 45° bevel on the upper jamb.

External safety electric locks must be installed on these doors.

Automation of these doors must be interfaced with the UpDinamic PLC so that it is active only if the loading platform is stationary on the floor.



Sectional door on courtyard level



Sectional door on underground level



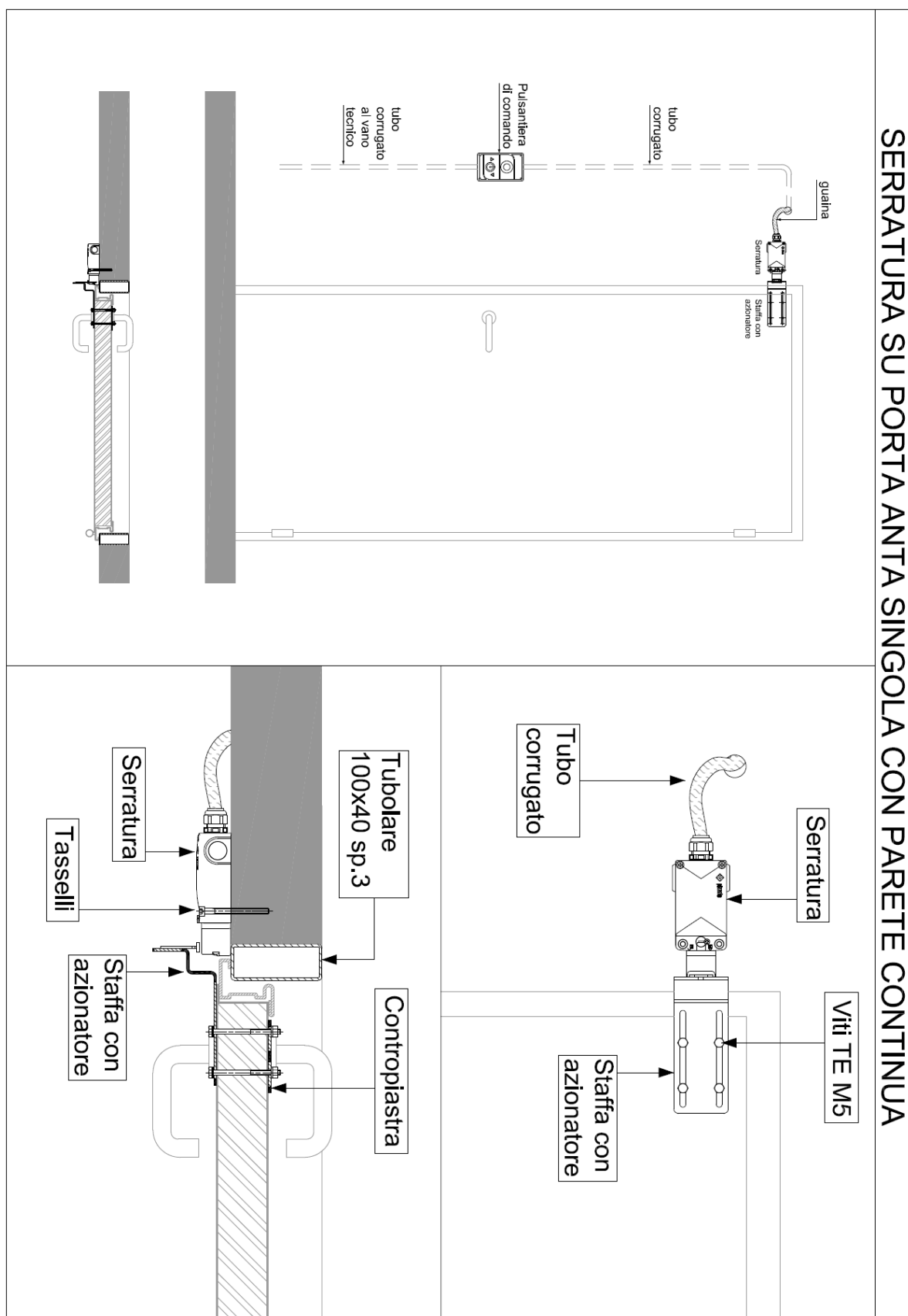
Vertical door



In case of a vertical foldaway gate on the upper floor, **MAKE SURE** that you position the loading platform on the upper floor before finally turning off the system.

In case of prolonged machine stops, the vertical gate might go down a few centimetres.

APPLICATION OF ELECTRIC LOCKS ON THE MULTIPURPOSE DOORS





Per informazioni:

www.updynamic.com

E-mail: info@updynamic.com

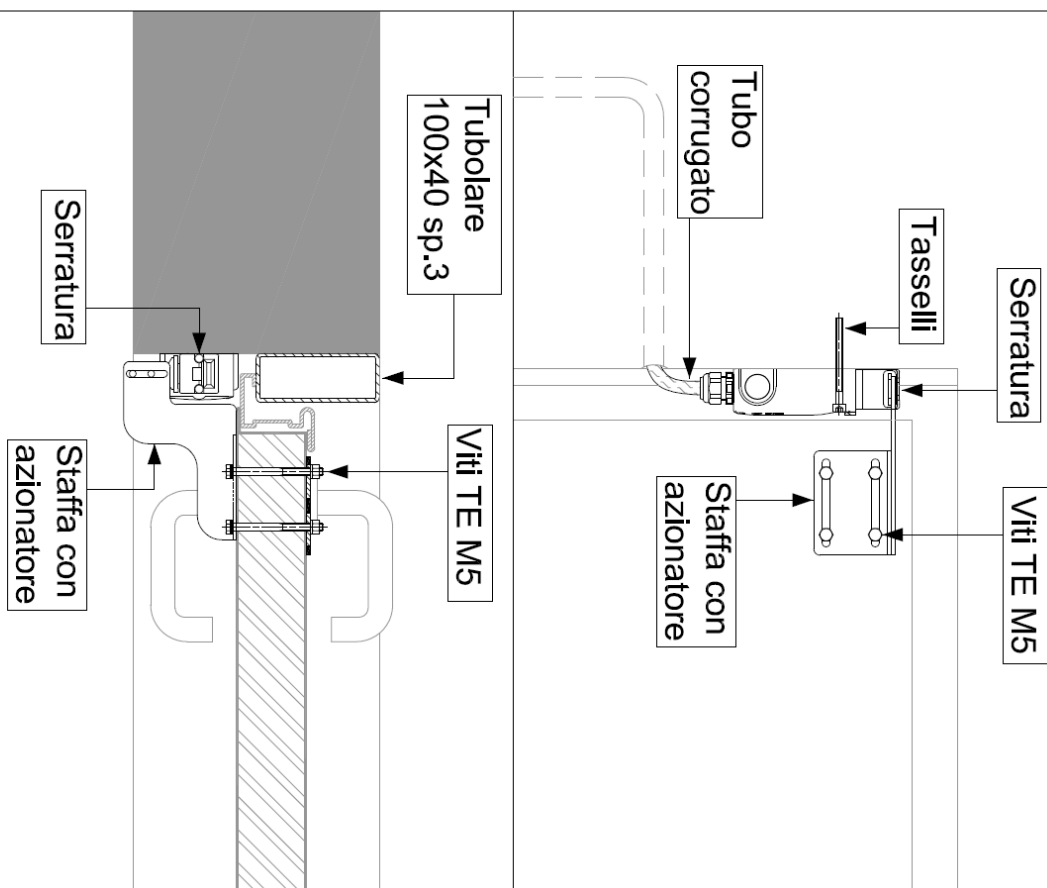
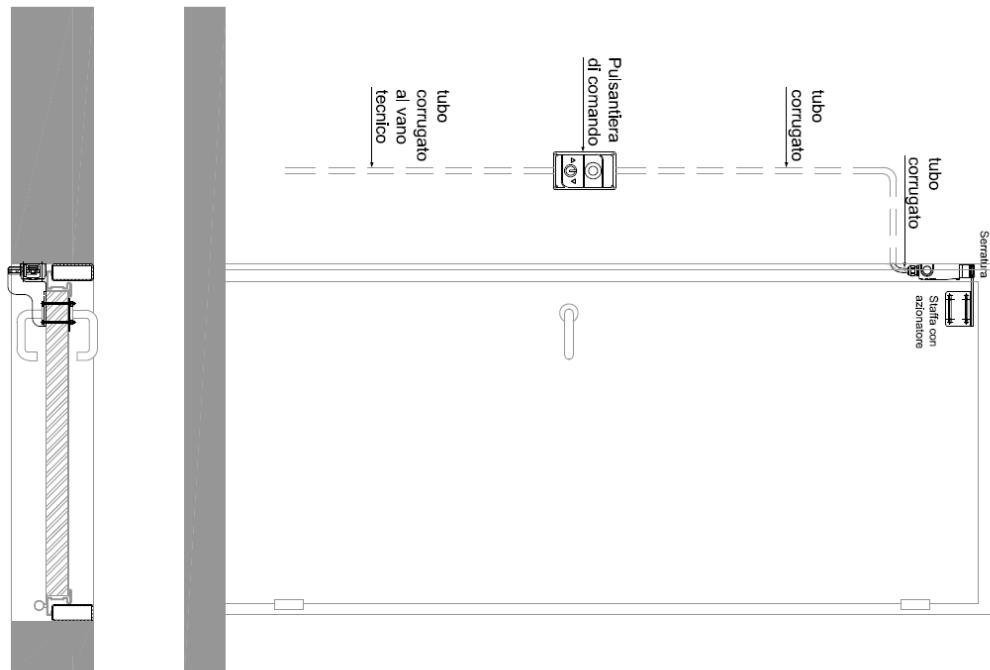
Tel. + 39.0442.590.129

Fax +39.0442.599.091

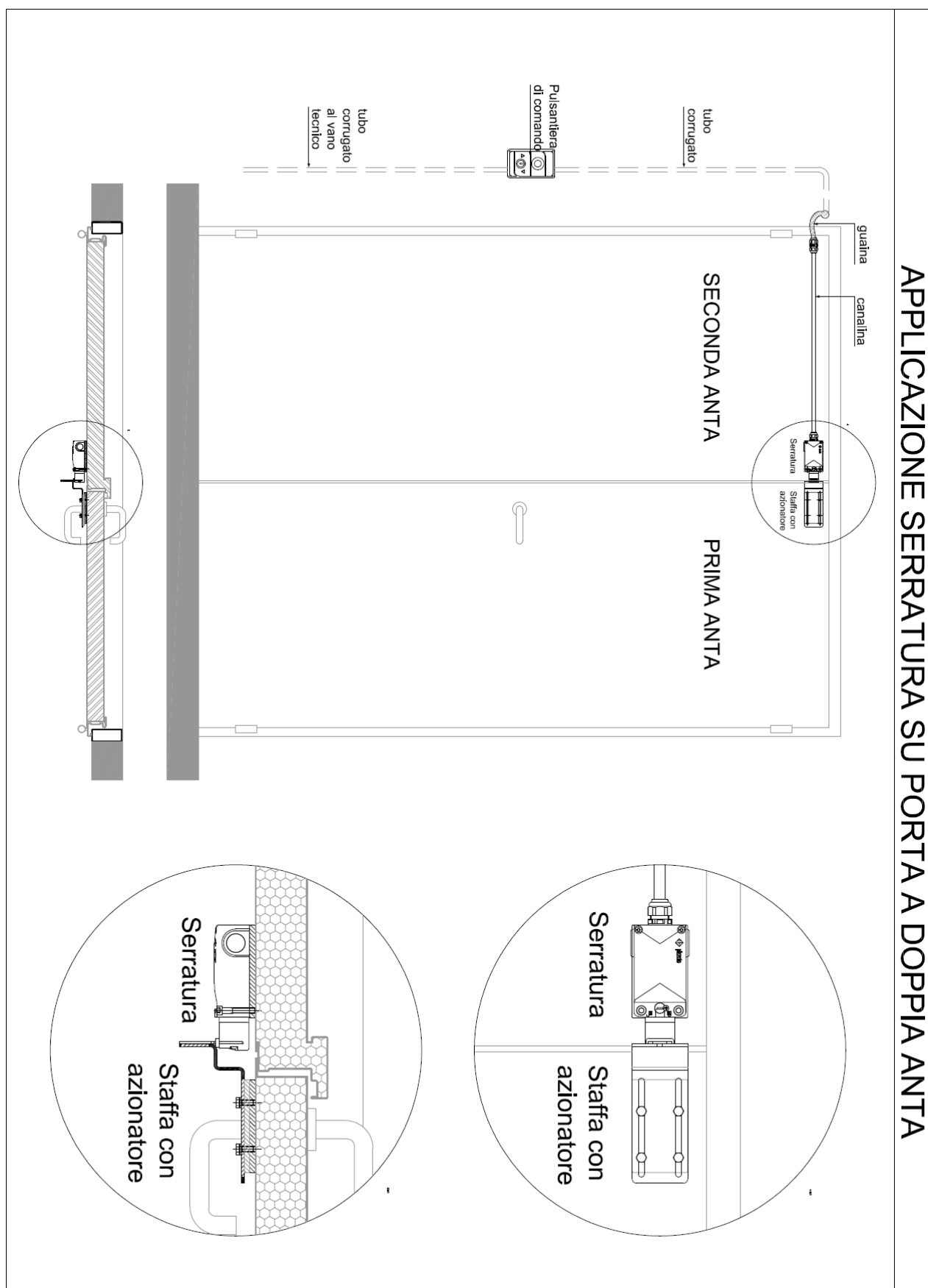
Via Franco Modigliani, 22
37045 - Legnago (VR) Italy

One level ahead.

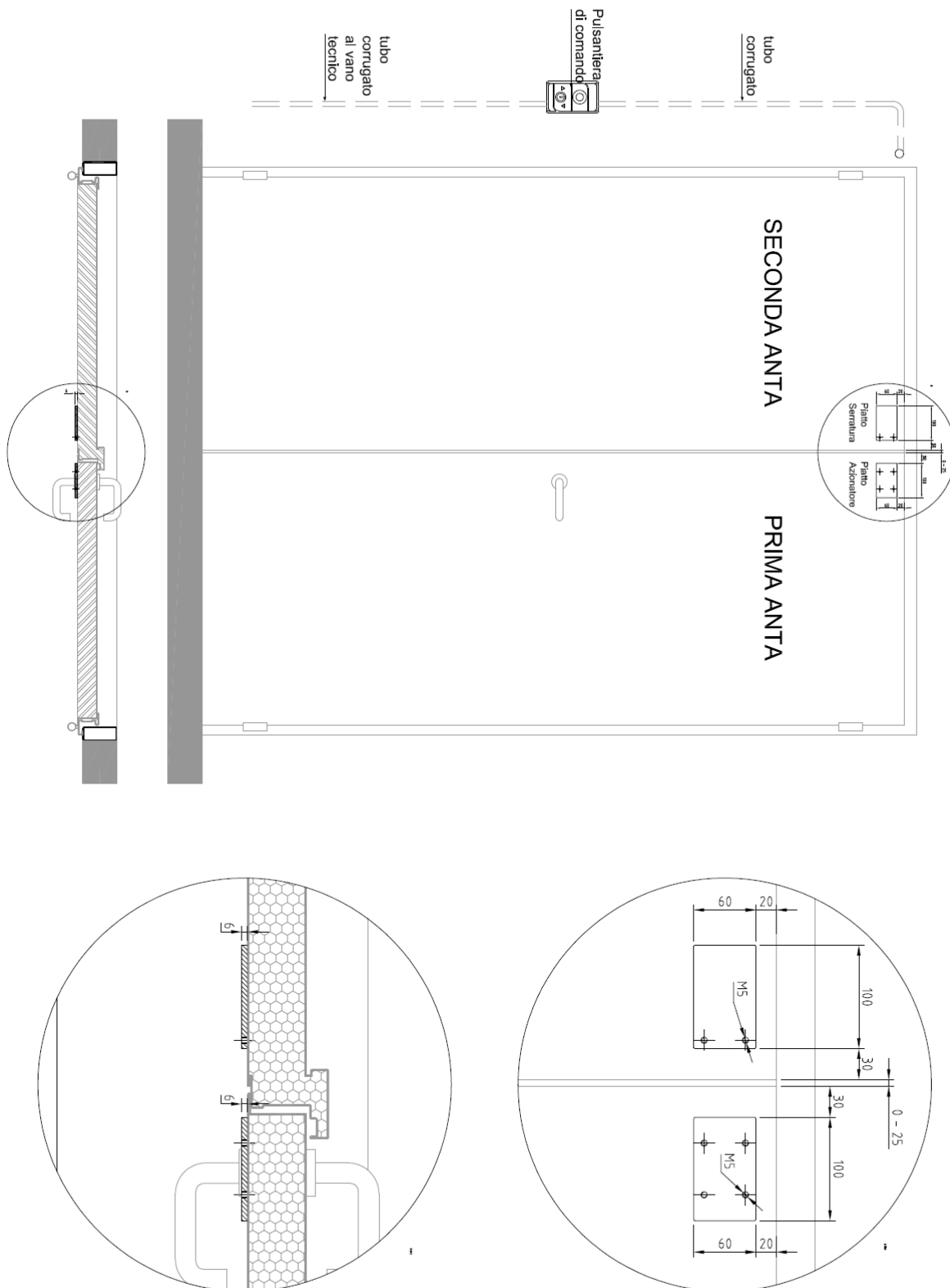
SERRATURA SU PORTA ANTA SINGOLA CON PARETE DISCONTINUA



APPLICATION ON EI (REI) DOORS, WITHOUT FORCING



PREDISPOSIZIONE PIATTI FISSAGGIO SERRATURA

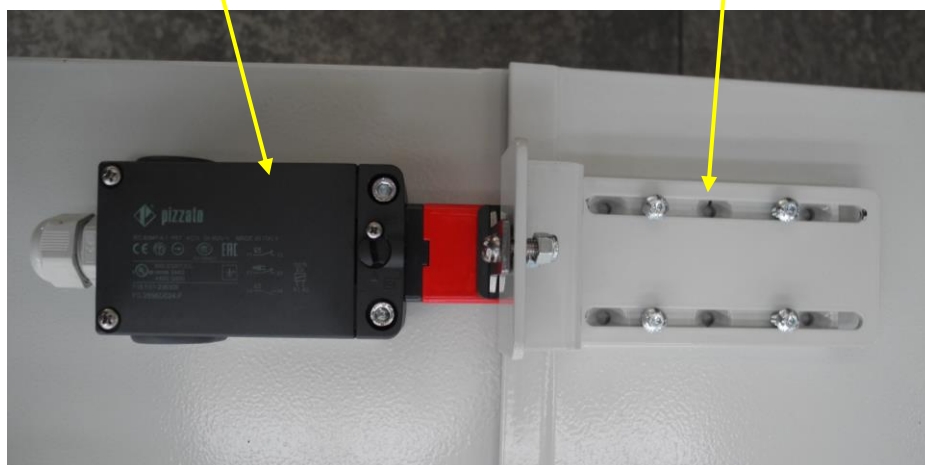


PREDISPOSING LOCKS ON FIRE DOORS EI60-120

To predispose the locks through-holes must not be drilled in REI doors

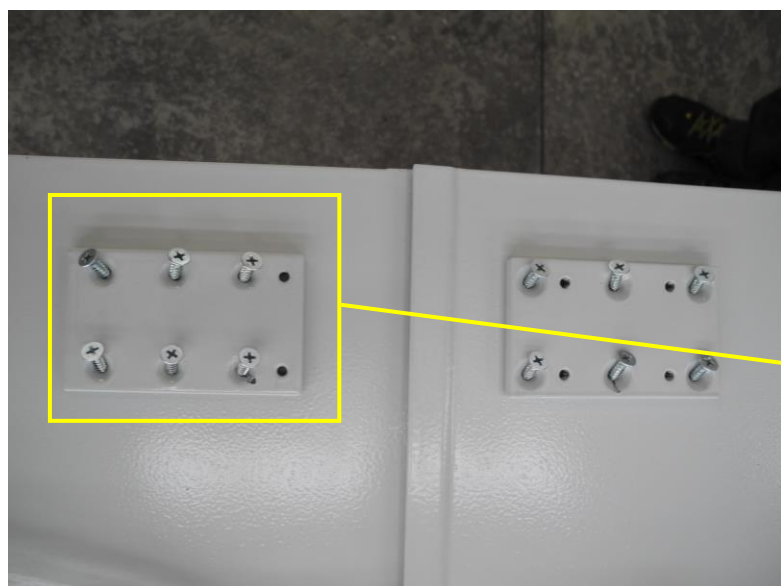


Position the two plates supplied on the upper part of the door, at about 30-40 mm from the upper edge; on the active door, position the plate on which the bracket with activator will be installed (thickness 8mm, 4 M5 holes); on the second door the plate for the lock (thickness 6mm, 2 M5 holes).



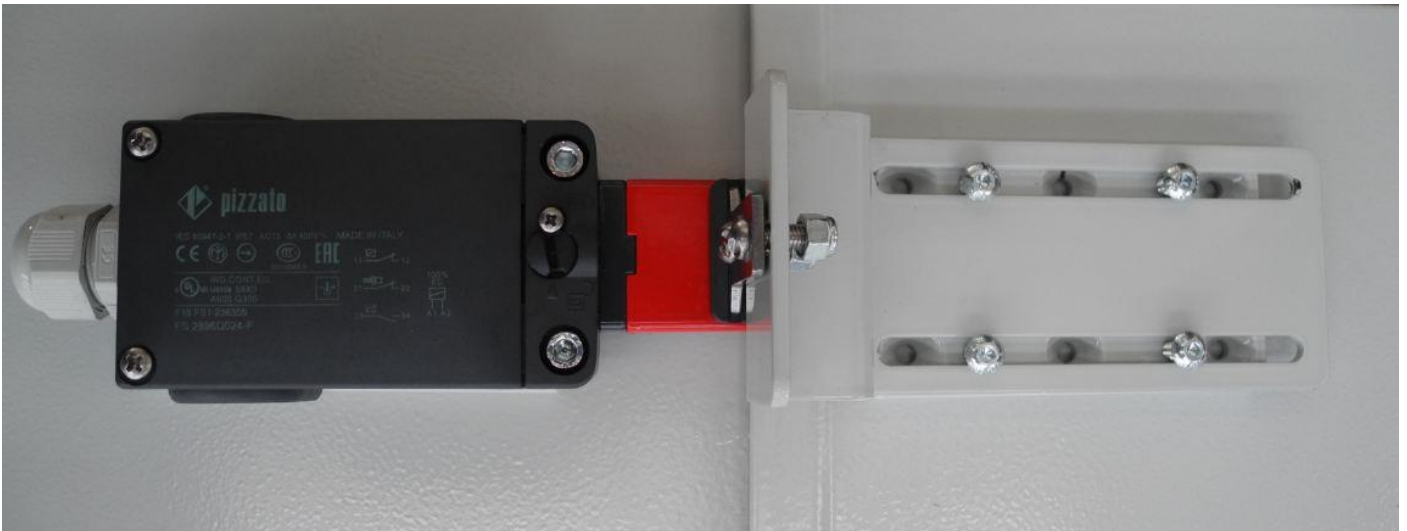
Ready the lock and the bracket with activator: once it is confirmed that there are no interferences and that the brackets are in the correct position, proceed to fixing the two plates.

Proceed to fixing the plates to the doors using exclusively **T.S.P. crosshead self tapping D.4.8x16** screws supplied with the plates (6 per plate).



Install the lock and the bracket with the M5 screws supplied (2 in number) for the lock bracket and 4 in number for the plate with bracket and activator

Install the duct on the door using the supplied adhesive straps, without piercing the door.



Procedure for adapting the electric locks to standard UNI EN ISO 14119:2013.

33. ADAPTING THE ELECTRIC LOCKS TO UNI EN ISO 14119:2013

As the system complies with the safety standards, the following modifications need to be made on the interlock devices.

Connect the 6x0.5 cable according to the diagram provided (if the system is adapted, the old 4x0.5 cable should be replaced).

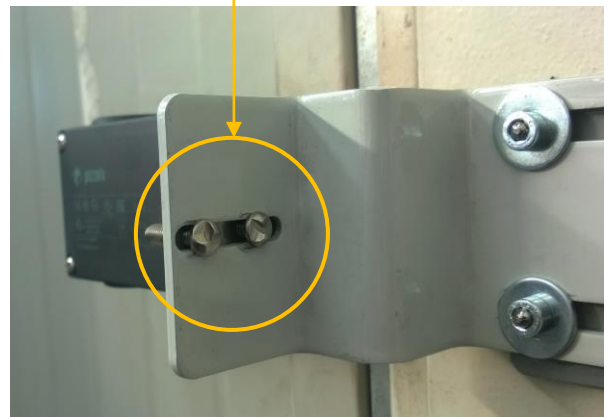
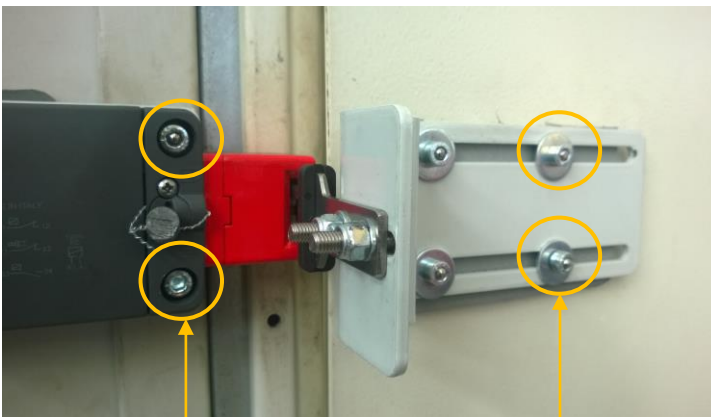
11 Pink	12 Grey	Coil excited signal
21 Green	22 Yellow	Door closed signal Preliminary
A1 White	A2 Brown	24VDC coil power supply



After testing the system, seal the lock to prevent its release and make sure that you keep the slider in profile.



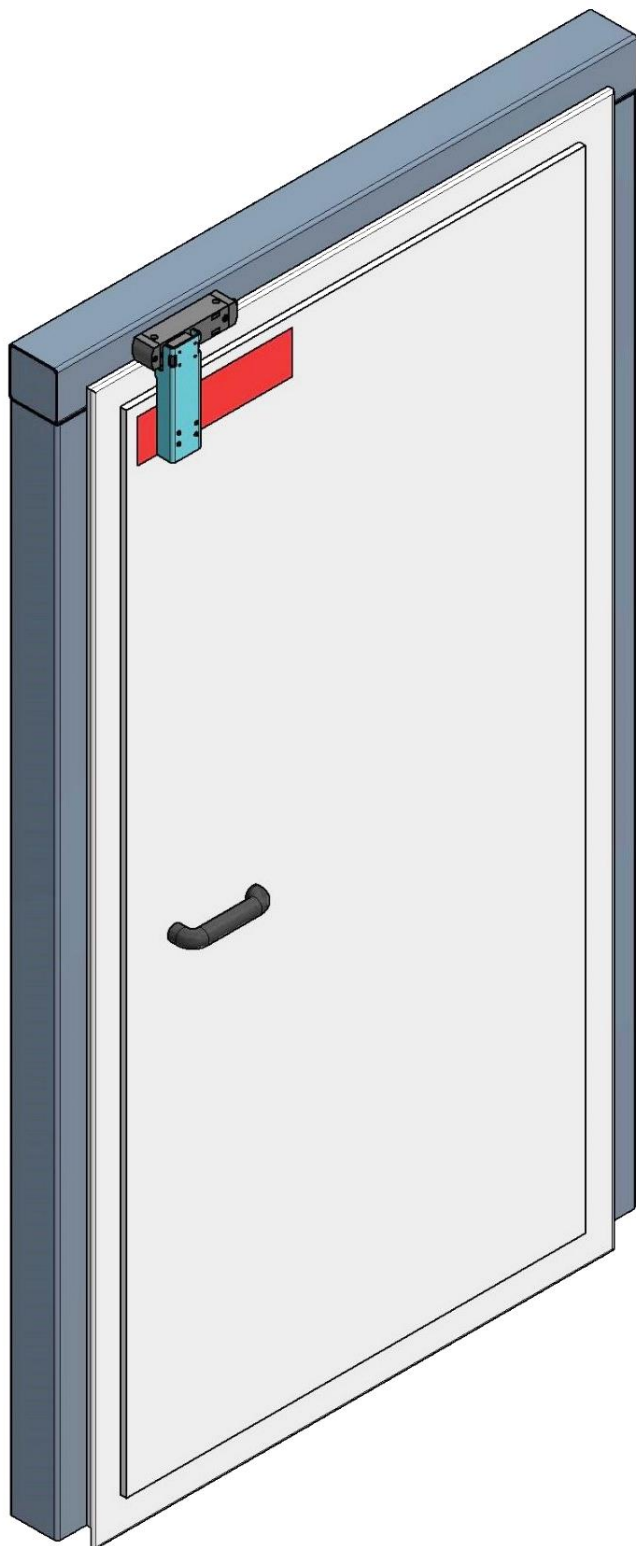
To fasten the actuator, use the OneWay screws provided.
(M5 anti-loosening screws and self-locking nuts)



Only after checking proper functioning of the locks, fit the spheres provided to prevent the screws from unscrewing and hence removing the locks and the actuator (use self-locking nuts).

34. ADAPTING ELECTRICLOCK NS MODEL ON STANDARD DOORS

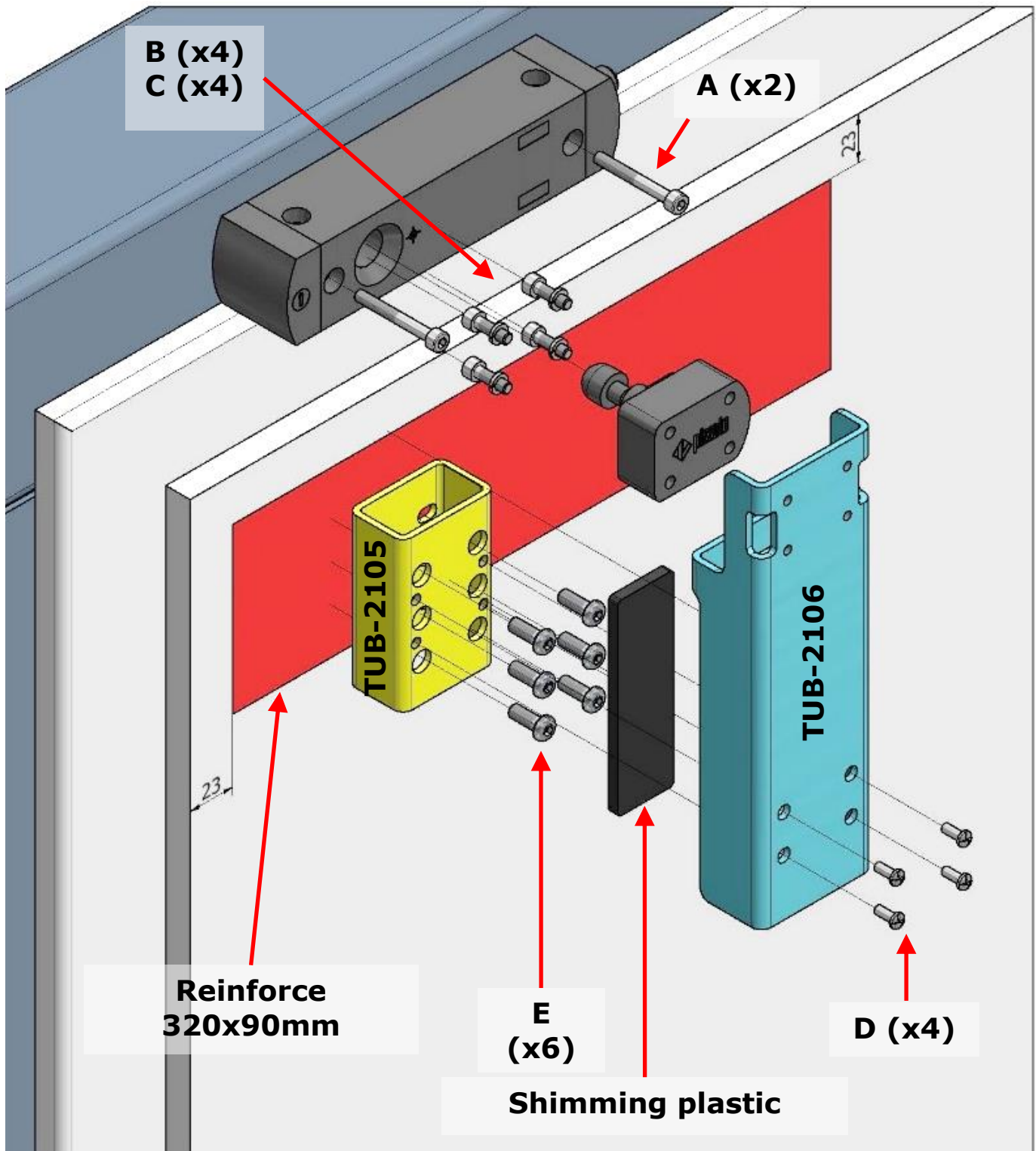
ELECTRIC LOCK NS D4AZ1SMK-F41 ON DOOR 1 LEAVE PROVIDED BY UPDINAMIC



On UPDINAMIC's doors there are an **internal reinforcement** to guarantee the fixing (the red rectangle on the picture).

Warning: Check always that all the holes are inside the rectangle or the prepared area.

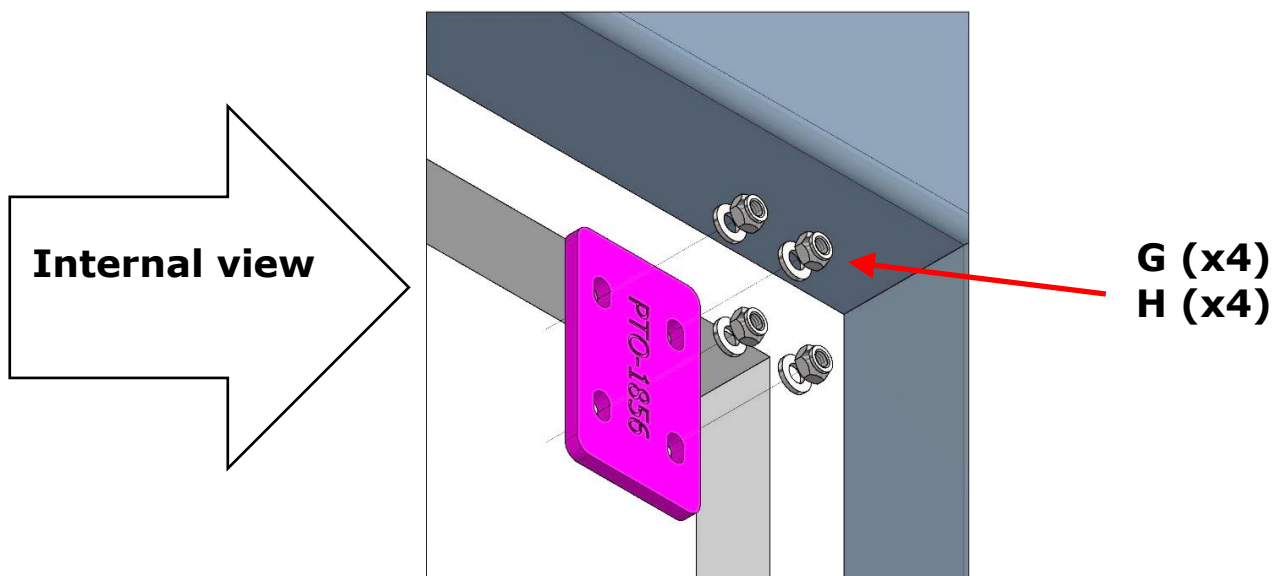
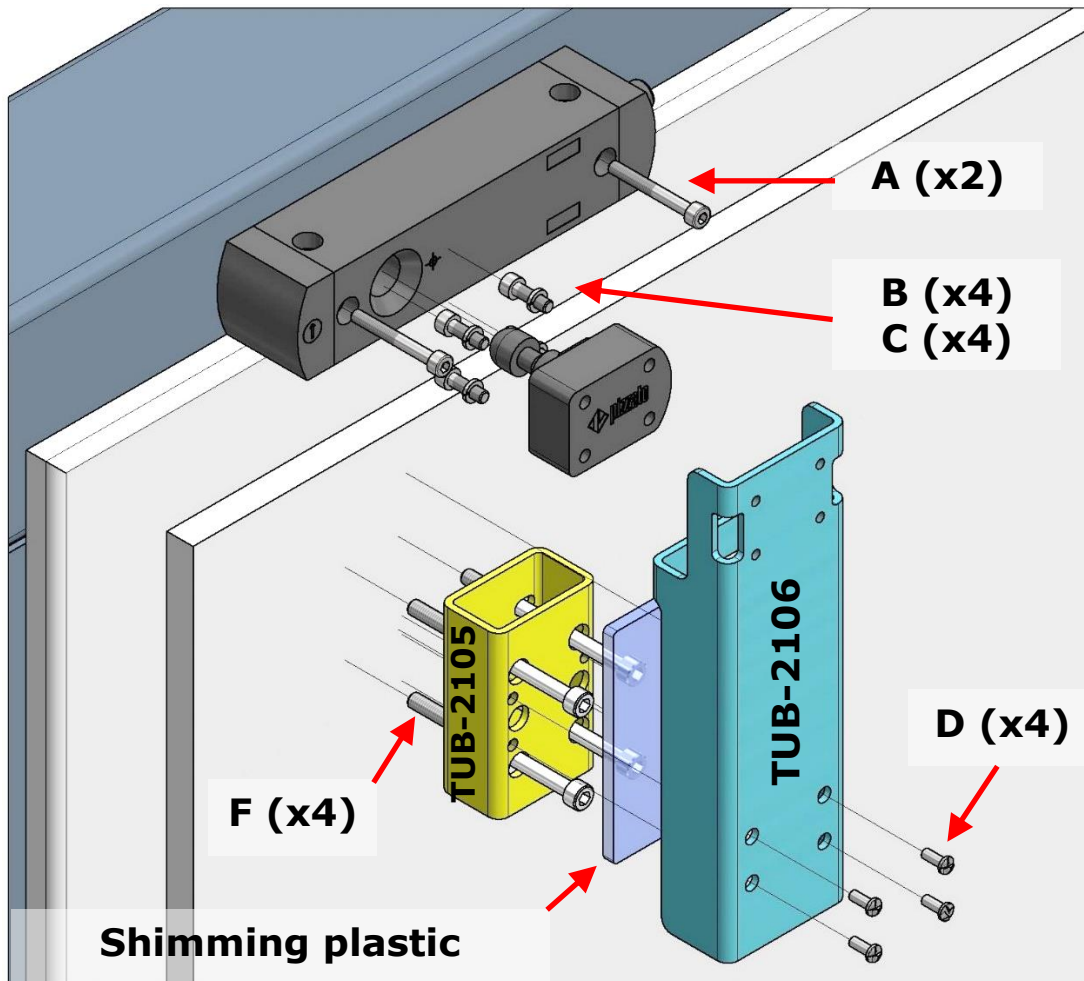
Detail of the door provided by Updynamic:



ELECTRIC LOCK NS D4AZ1SMK-F41 ON 1 LEAVE DOOR MULTI USE

Multi use doors not provided by UPDINAMIC don't have the internal reinforcement for electric lock.

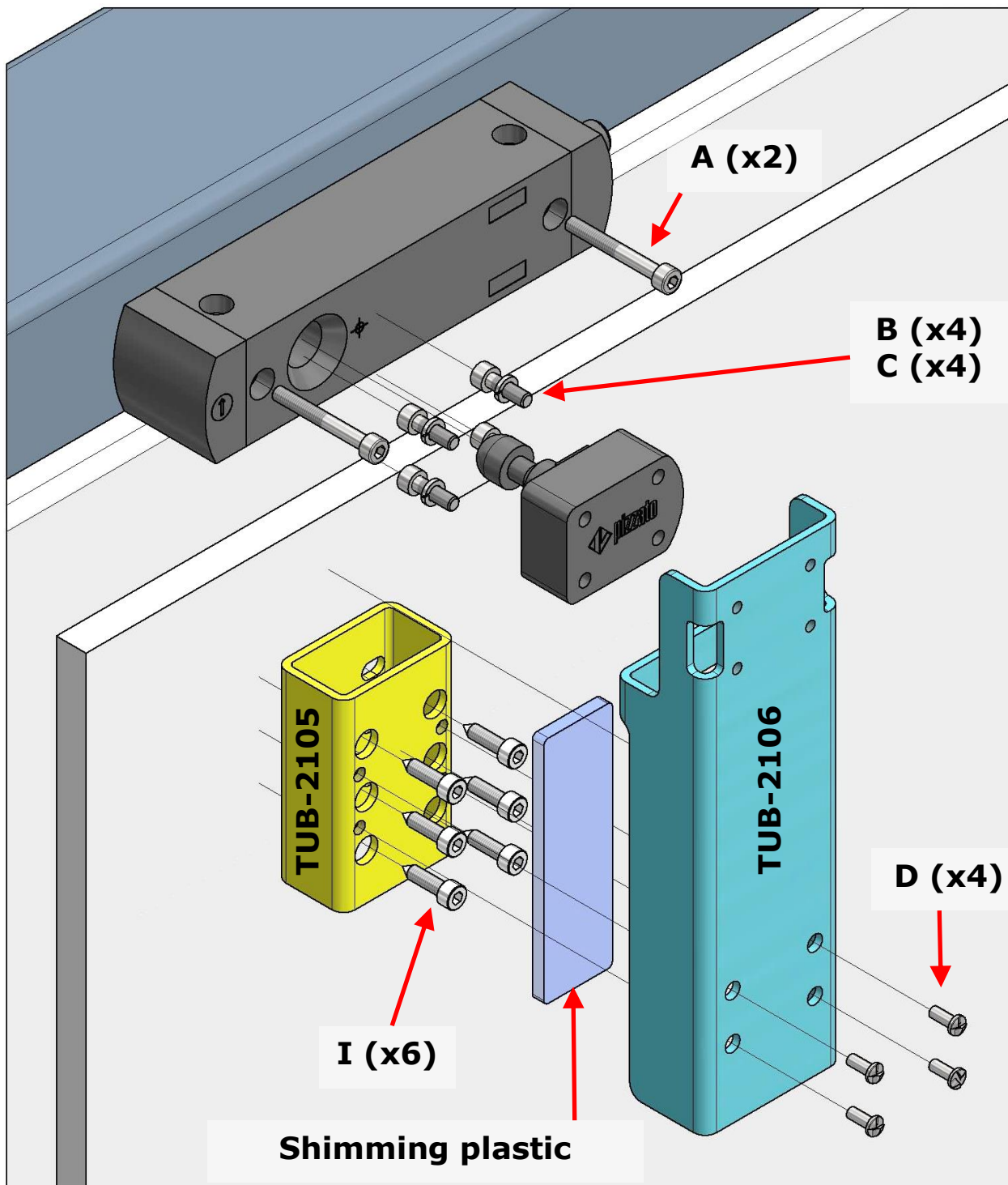
For this reason you have to use the counterplate on the opposite side provided by UPDINAMIC.

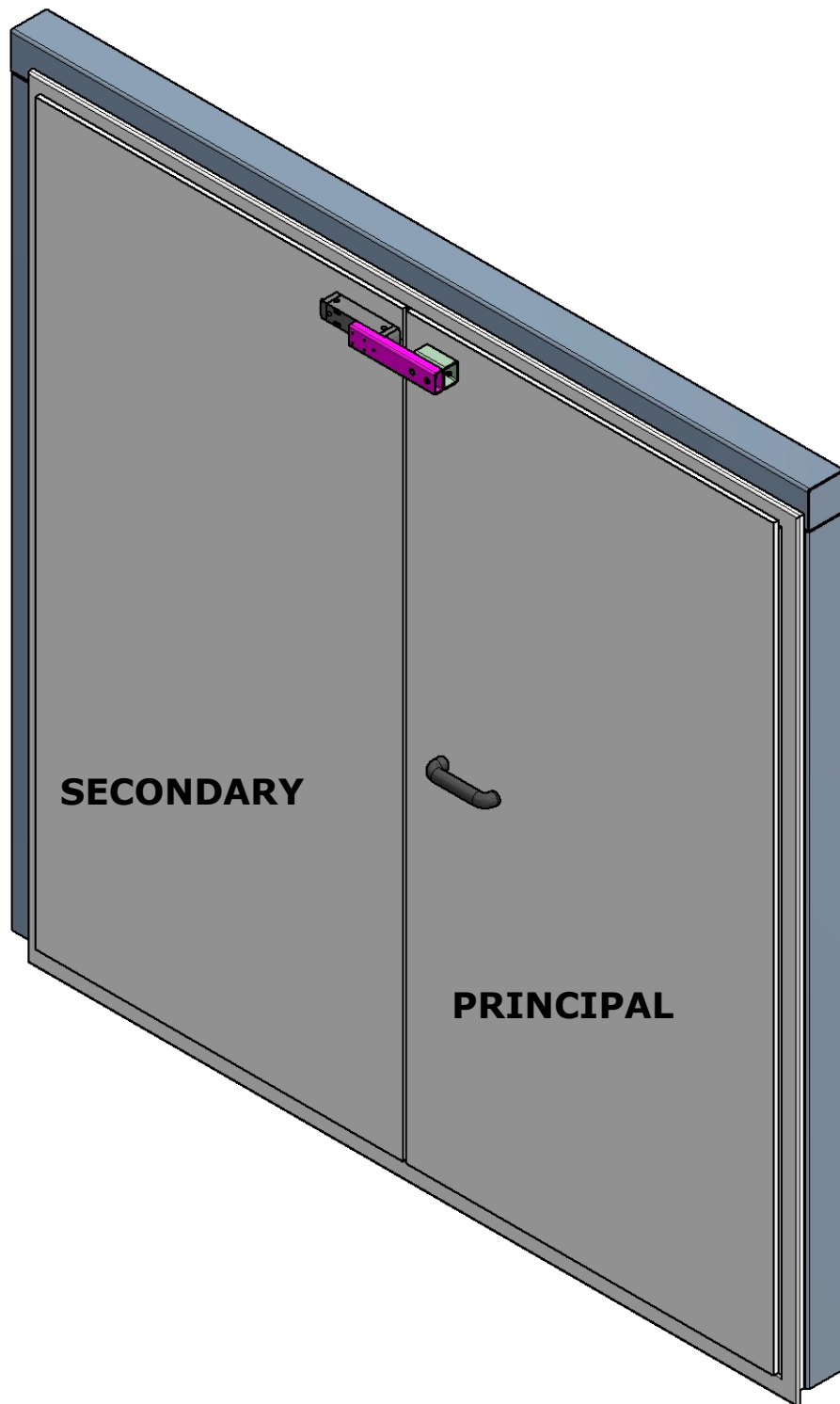


ELECTRIC LOCK NS D4AZ1SMK-F41 ON 1 LEAVE DOOR REI MODEL

REI doors not provided by UPDINAMIC don't have the internal reinforcement for electric lock.

For this reason you have to use the self-drilling screw provided by UPDINAMIC.



ELECTRIC LOCK NS D4AZ1SMK-F41 ON DOOR 2 LEAVES PROVIDED BY UPDINAMIC

On UPDINAMIC's doors there are an **internal reinforcement** to guarantee the fixing (the red rectangle on the picture).

PRINCIPAL LEAVE =

Graft fixing

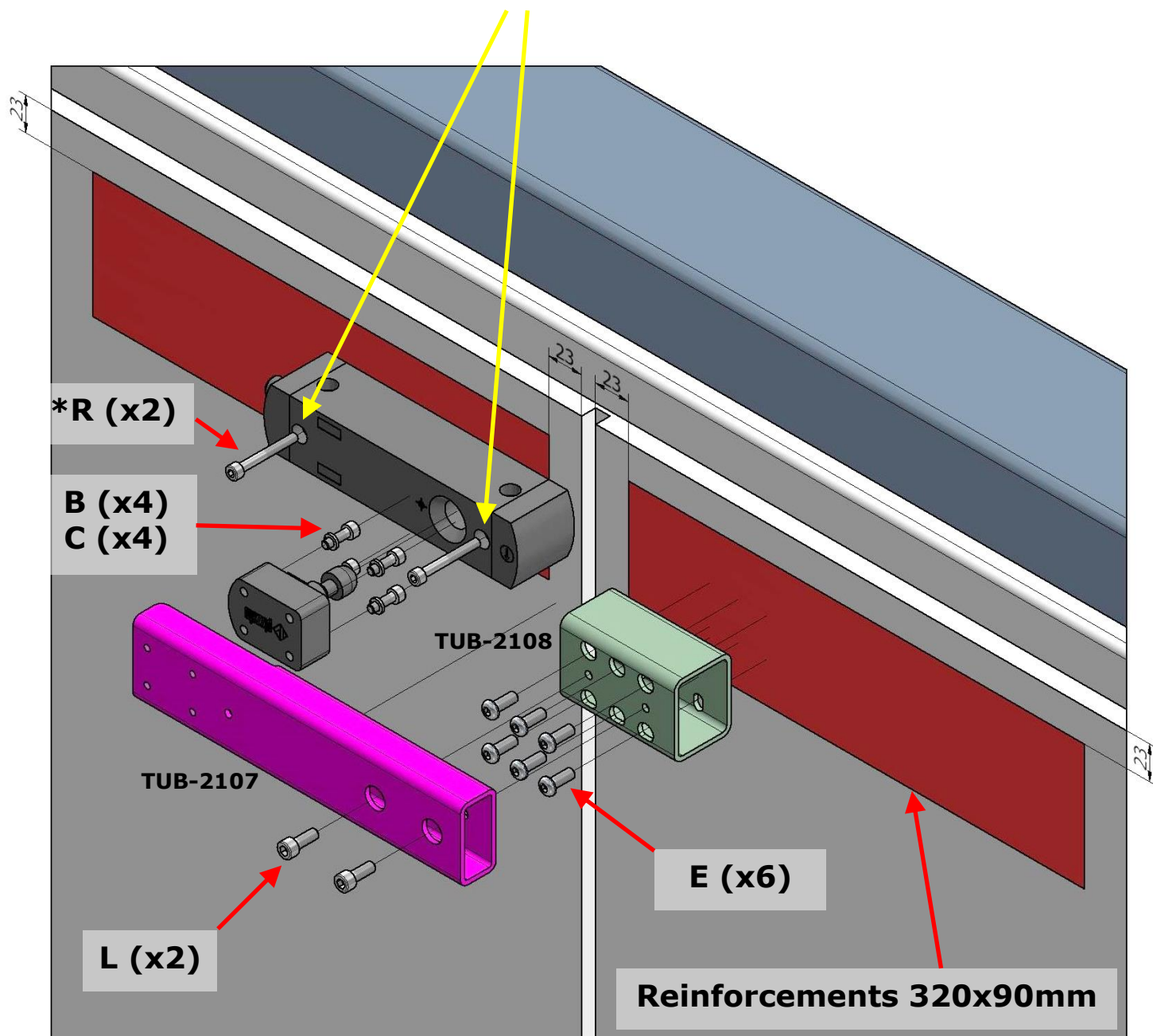
SECONDARY LEAVE =

Electric lock fixing

Detail of the door provided by Updynamic:

***R (x2)** Screw self-threading TCEI 4,8x45 ZN

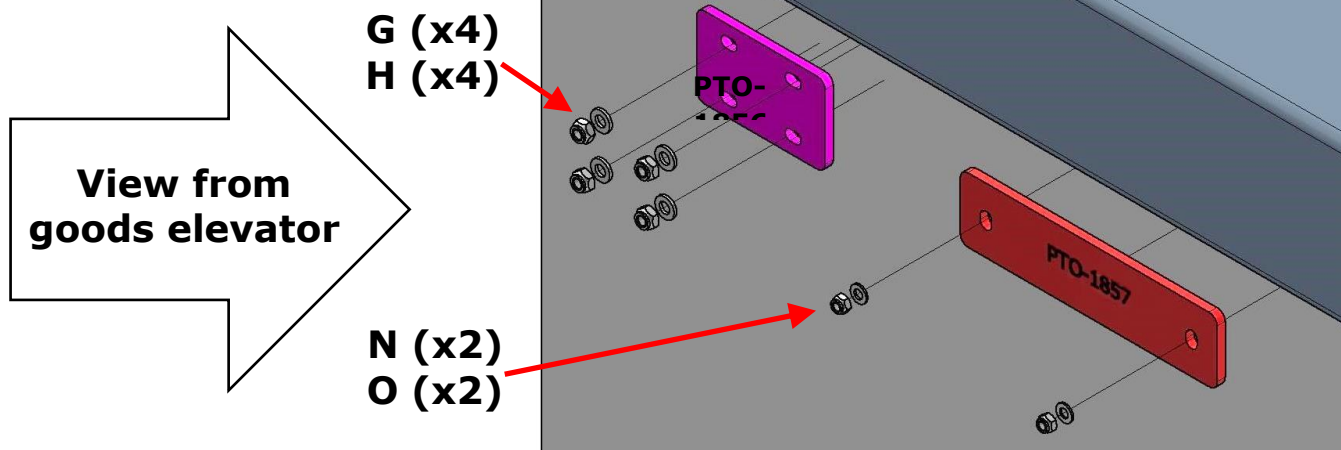
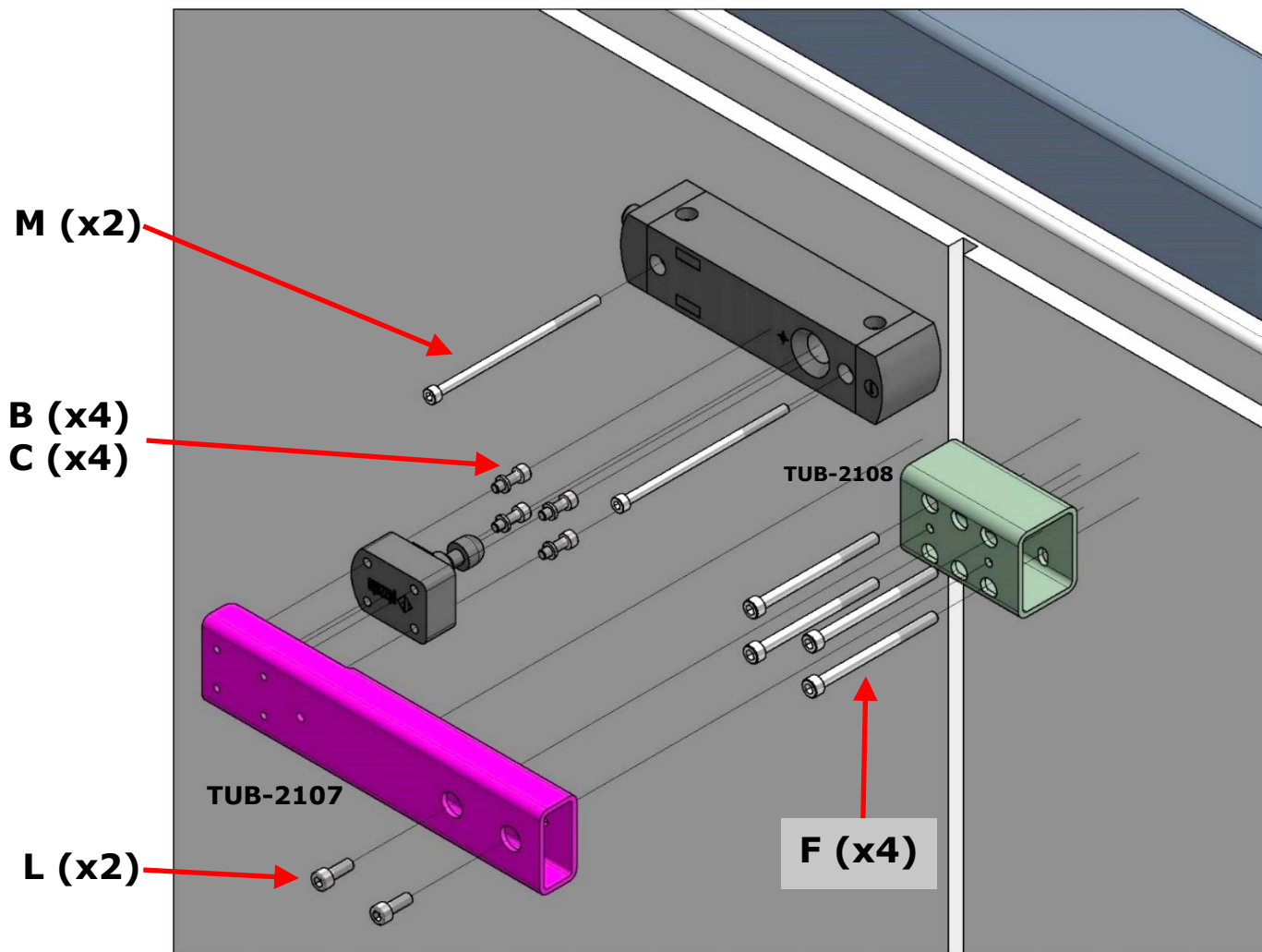
IMPORTANT: PRE HOLE MAX Ø2mm FOR THE CORRECT FIXING OF THE SCREW



ELECTRIC LOCK NS D4AZ1SMK-F41 ON 2 LEAVES DOOR MULTI USE

Multi use doors not provided by UPDINAMIC don't have the internal reinforcement for electric lock.

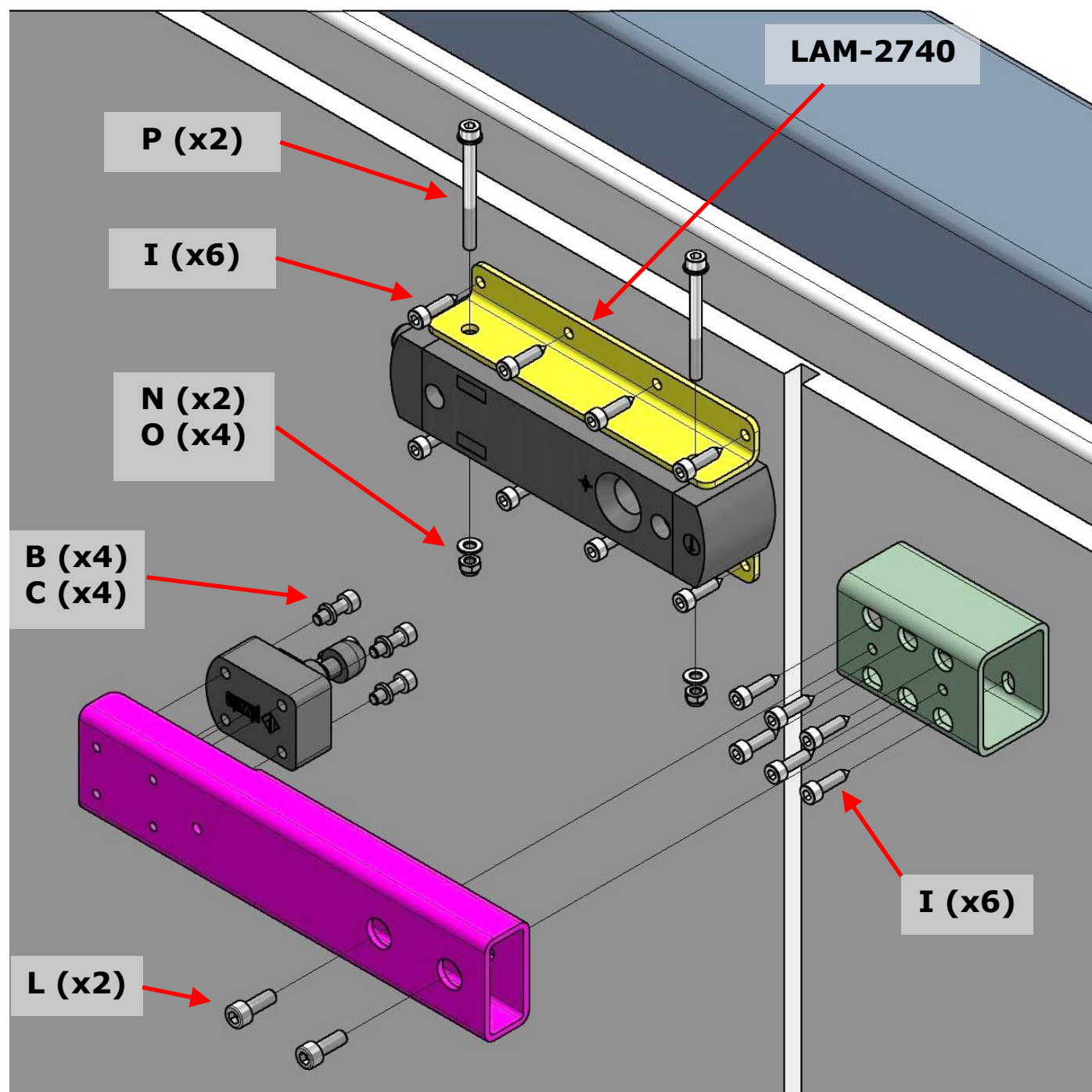
For this reason you have to use the counterplate on the opposite side provided by UPDINAMIC.



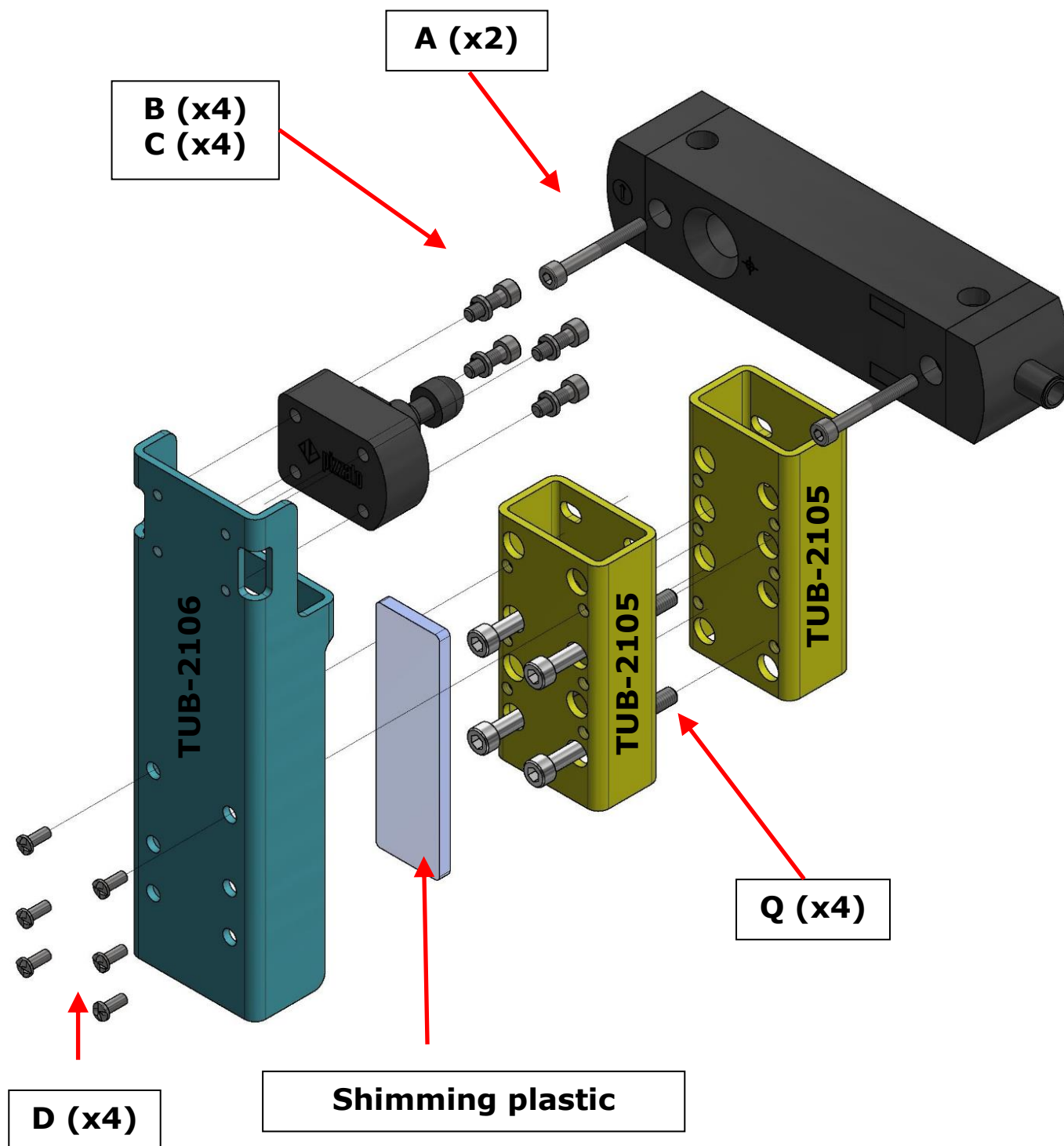
ELECTRIC LOCK NS D4AZ1SMK-F41 ON 2 LEAVE DOOR REI MODEL

REI doors not provided by UPDINAMIC don't have the internal reinforcement for electric lock.

For this reason you have to use the self-drilling screw and the counterplate provided by UPDINAMIC.



ELECTRIC LOCK NS D4AZ1SMK-F41 COMPLANAR FIXING



APPLICAZIONE TAPPI E ADESIVO DI SICUREZZA

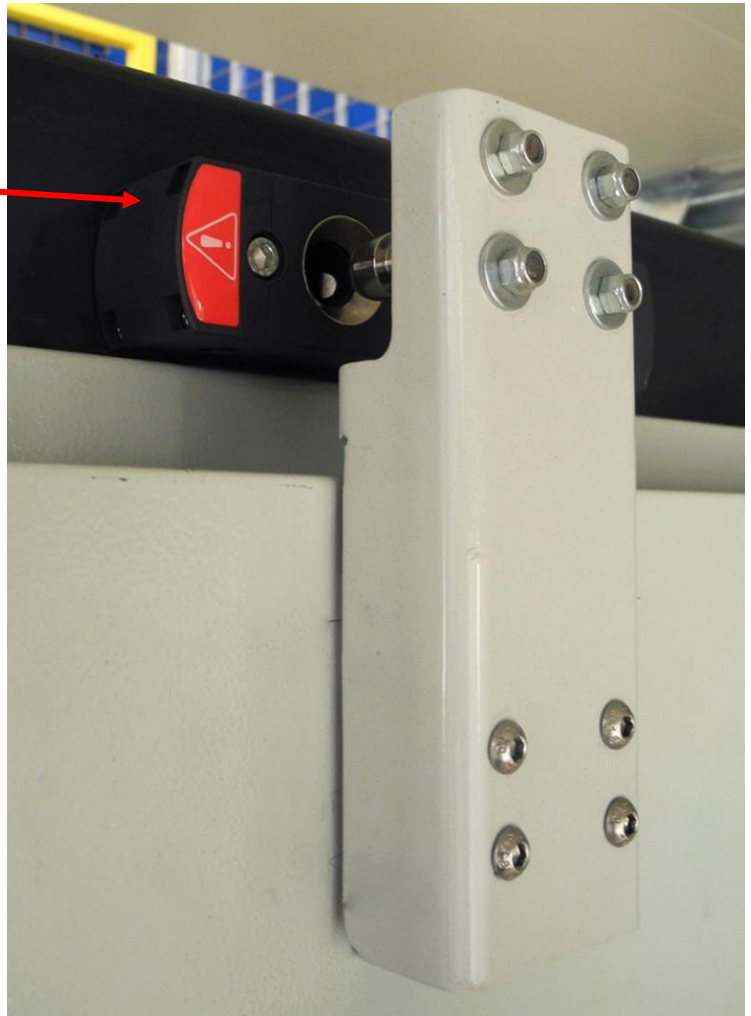
Check the right mounting of the devices opening and closing the door many times.

Before delivering the elevator to the final customers, please test all the installation and mount all the plugs. For 1 leave door please apply the red label as the lower picture.



WARNING: Plugs and sticker provided must be mounted to prevent any manumission or utilization by non authorised personnel.

Sticker applied to prevent any kind of manumission!





Screws legend provided:

A= Screw TCEI M5x40 ZN

B= Screw TCEI M5x16 Inox (Provided with device *NS D4AZ1SMK-F41*)

C= Washer Grower for screw M5 ZN

D= Screw One Way M6x25 Inox

E= Screw TBEI M6x10 Inox

F= Screw TCEI M6x80 ZN

G= Nut M6 self-locking low profil ZN

H= Washer for screw M6 ZN

I= Screw self-threading TCEI 4,8x19 ZN

L= Screw TCEI M6x20 ZN

M= Screw TCEI M5x110 ZN

N= Nut M5 self-locking ZN

O= Washer for screw M5 ZN

P= Screw TCEI M5x55 ZN

Q= Screw TCEI M6x50 ZN

R= Screw self-threading TCEI 4,8x45 ZN

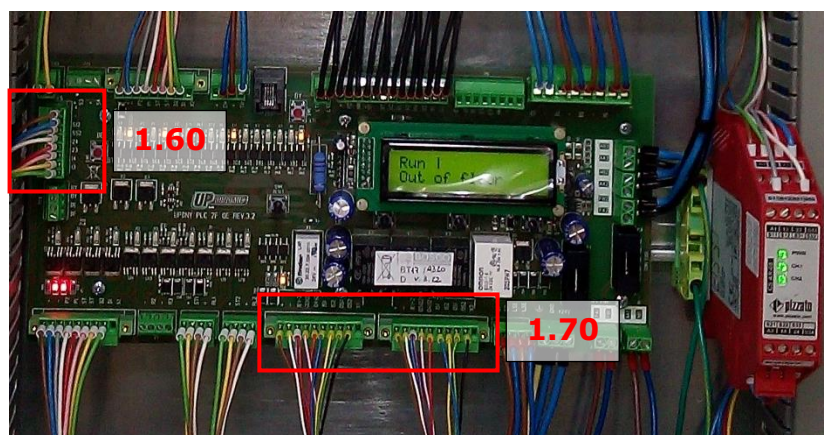
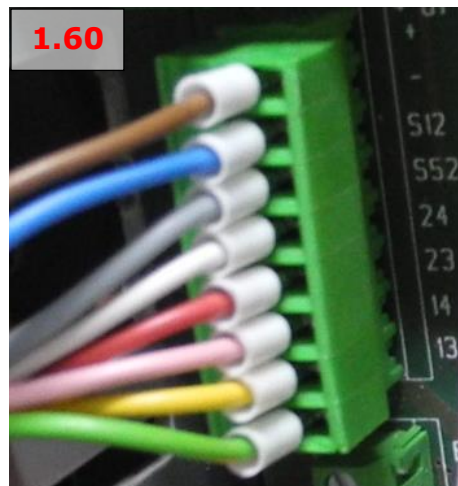
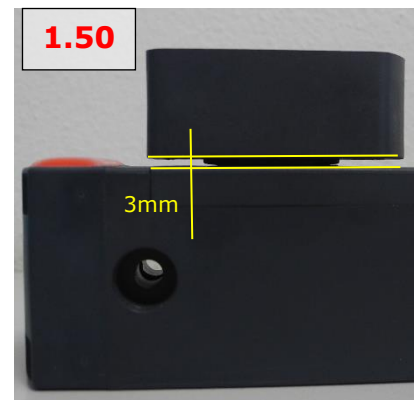
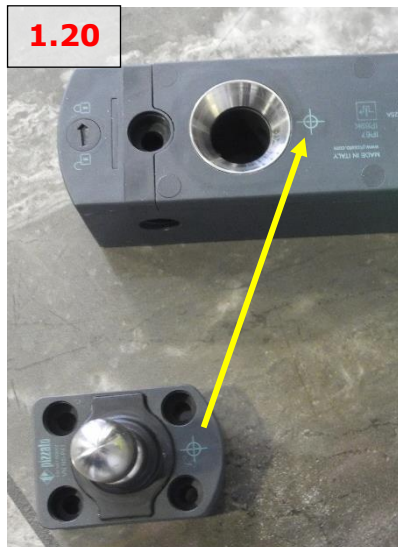
Check the safety series:

If the LED CH1 and LED CH2 are off

1. Preliminary check

- 1.10 Release cursor should be on "Lock" position
- 1.20 Actuator positioned correctly
- 1.30 Device and actuator correctly combined
- 1.40 PIN of the connectors, they must not be bent
- 1.50 Actuator correctly inserted
- 1.60 Check the wiring of Pizzato CS AR-08 on the mainboard
- 1.70 Check the wiring of the Pizzato NS on the mainboard





35. DOORS INTERFACE

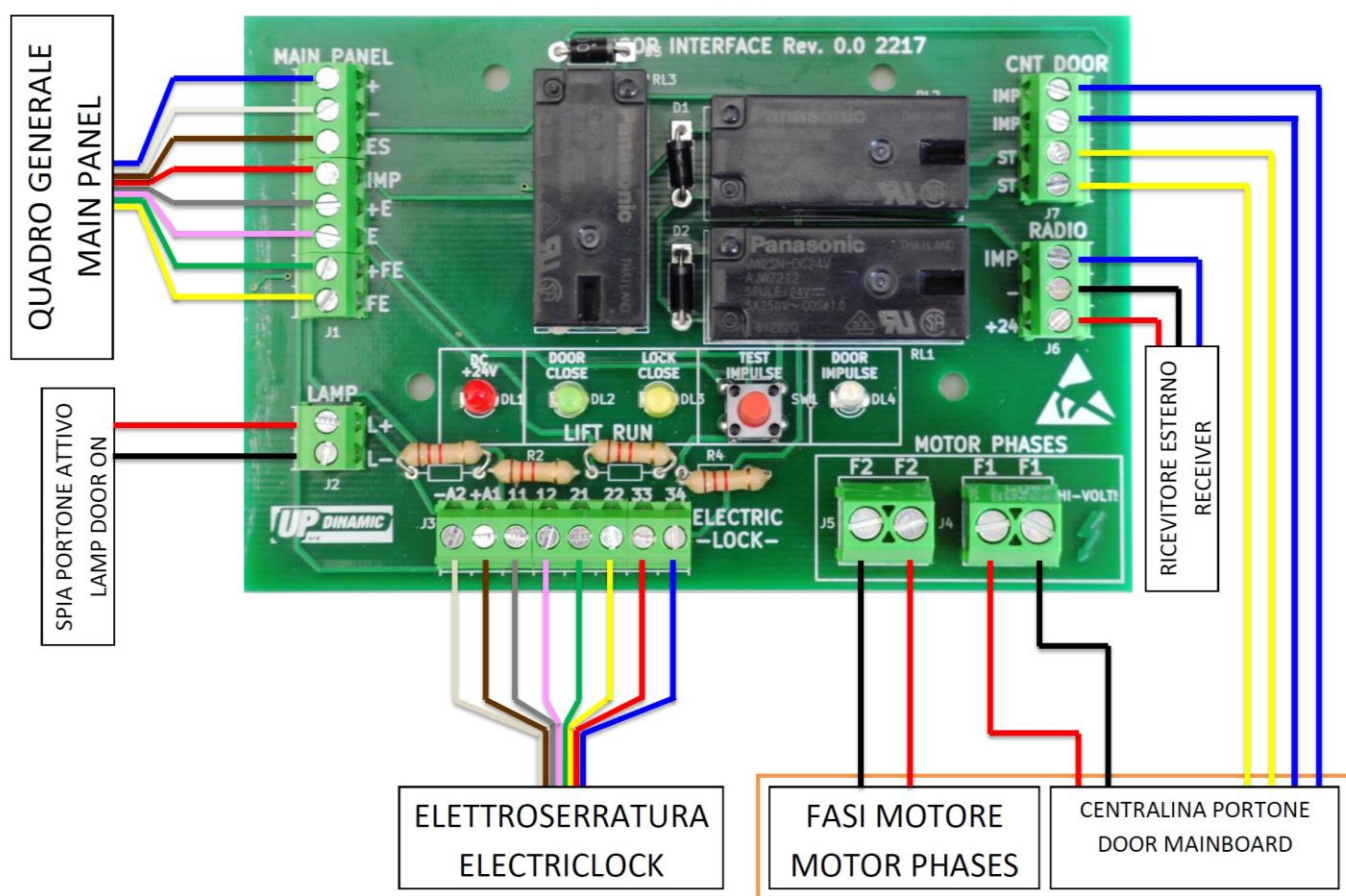
(only with automatic doors)

Connect the doors using the supplied interface.

Functions of the interfacing card:

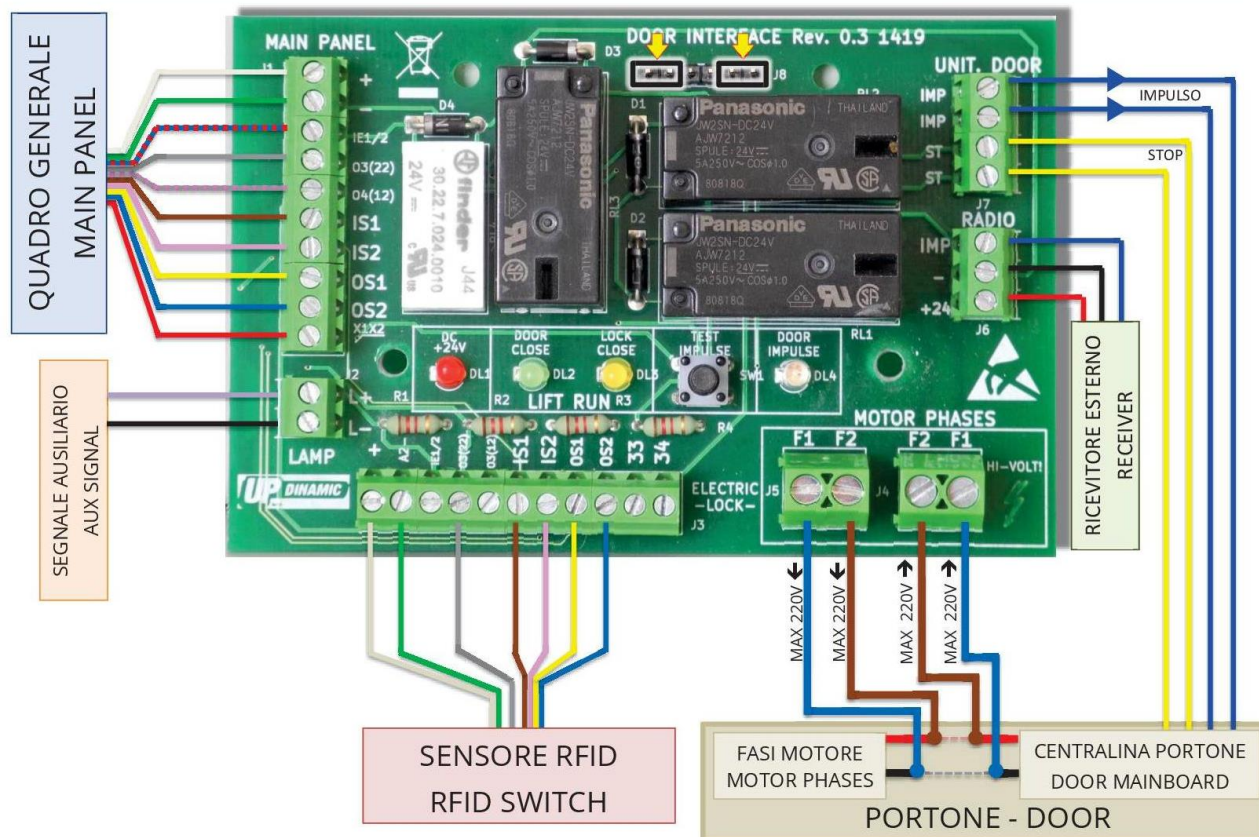
- Connection of interlock device (Electric lock)
- Connection of door motor phases to prevent activation with the system between levels
- Connection of opening signal (IMP) for prohibiting sending of the opening signal with the system between levels
- Management of the door (ST) STOP contact to block the door with the system between levels
- Connection of the transmitter for management of the opening signal
- "Door in action" light connection

INTERFACCIA PORTONI / DOORS INTERFACE



RFID PIZZATO SENSOR WIRING

INTERFACCIA PORTONI + RFID - DOORS INTERFACE + RFID



36. STARTING THE GOODS LIFT

PRELIMINARY CHECKS BEFORE STARTING

Check the hydraulic system: check that each component of the hydraulic system has properly been installed (tubes and fittings well connected and tightened).

Check the electric system: check that the power supply voltage is compatible with that required by the machine components.

FILLING THE TANK

The hydraulic unit tank is to be filled with oil for hydraulic systems, type Wladoil Engine HY SY. It is important to use special filters that prevent polluting particles from entering. To start system operation, the oil must be above the minimum level indicated on the tank.

Wladoil Engine HY SY (approximate average characteristics)

- | | |
|----------------------------------|-------|
| - Density at 15°C: | 0.852 |
| - cSt viscosity at 40°C: | 23.8 |
| - Engler viscosity at 50°C: | 2.3 |
| - Viscosity index: | 105 |
| - Pour point °C: | -33 |
| - Flammability VA °C: | 192 |
| - Aniline point °C: | 96 |
| - DIN 51 524 HLP classification: | 22 |

INSTRUCTIONS FOR STARTING THE GOODS LIFT

The goods lift can be started after completing the following operations:

- Connection of the hydraulic system
- Connection of the electric system and connection to the mains of the user

Starting serves to encourage bleeding and completely filling the hydraulic circuit with oil. Air bubbles in the circuit may be harmful and cause instability during movement.

Instruments required: installed control pushbutton panel.

Checks during starting:

- Check the correct direction of rotation of the electric motor.
- Calibrate the pressure level in relation to the load.
- Check for any noise.
- Constantly monitor the oil level.
- Check for leaks along the hydraulic circuit.
- Check correct attachment/detachment of the anti-fall device.

STARTING

The starting operations may only be carried out by the manufacturer or by persons authorised by the manufacturer.

- The goods lift may only be started after having checked that all the components have correctly been installed and that the system is ready for use.
- Check that the mains characteristics conform to those of the system.
- Check that the fluid level in the electrohydraulic control unit tank is correct and that the oil used is suited to the type of application. For filling, use a filling and filtering unit to prevent foreign particles from entering the system.
- Check that the fluid temperature never exceeds 60°C.

OVERLOAD TESTS

The system load performance must be checked according to Directive 2006/42/EC.

Static overload test: - Position the platform on the lower floor.

- Load a weight equal to 125% of the maximum permitted capacity for that goods lift model.
- Check perfect integrity and staticness of the machine.
- Remove the load after a few minutes.

Dynamic overload test: - Position the platform on the lower floor.

- Load a weight equal to 110% of the maximum permitted capacity for that goods lift model.
- Move the goods lift to the upper floor (using the external pushbutton panel).
- Check perfect integrity of the machine and correct alignment of the platform with the floor.
- Move the goods lift back to the lower floor (using the external pushbutton panel).
- Remove the load.



Per informazioni:
www.updinamic.com
E-mail: info@updinamic.com

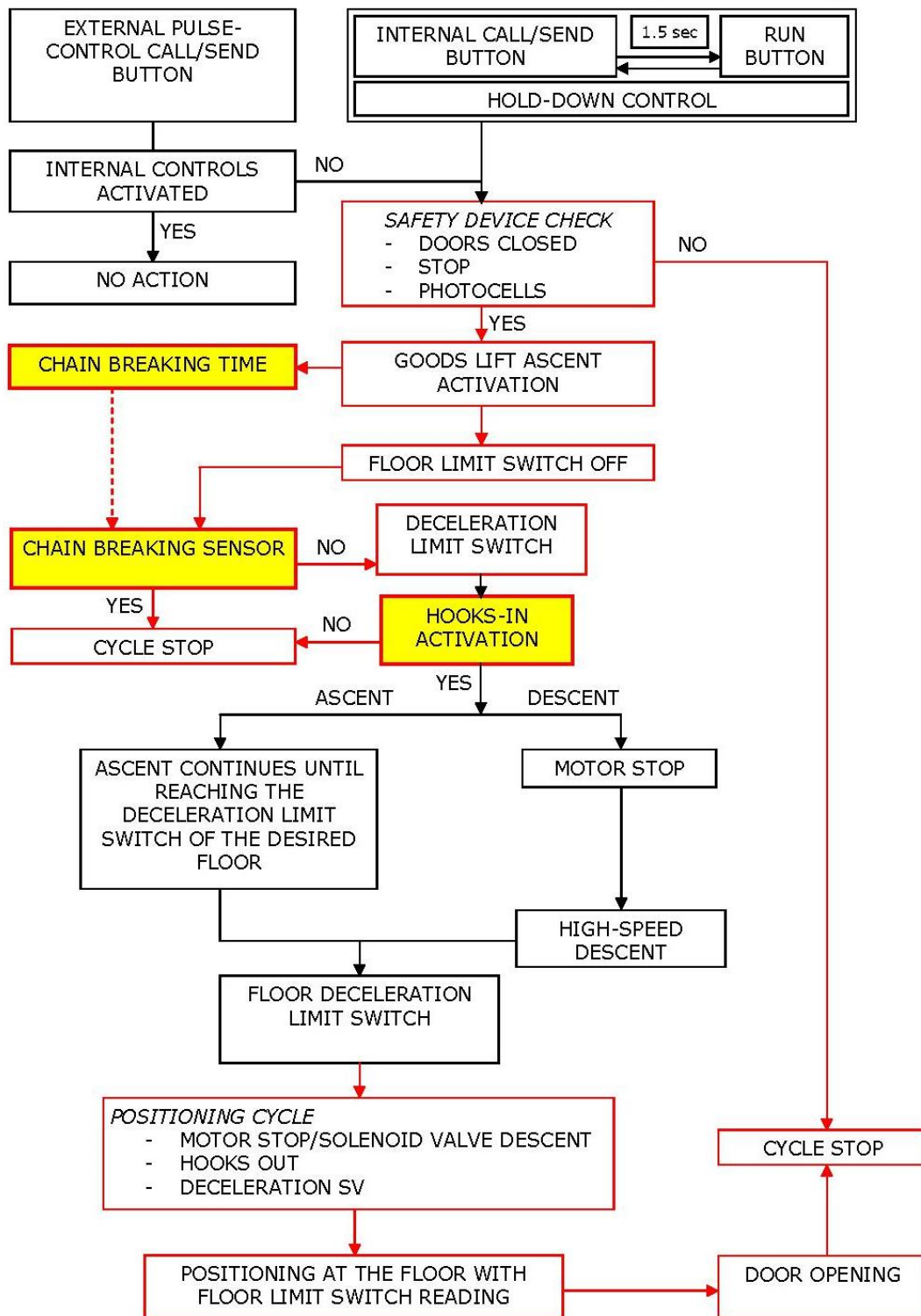
Tel. + 39.0442.590.129
Fax +39.0442.599.091

Via Franco Modigliani, 22
37045 - Legnago (VR) Italy

One level ahead.

37. OPERATING LOGIC

DL2-SPB GOODS LIFT OPERATING CYCLE (12-09-2014)



NOTES: When the "occupied time" of 30 seconds is enabled, the external controls are disabled as soon as the manoeuvre from the inside has ended.

= AUTOMATIC MANOEUVRE

= AUTOMATIC MANOEUVRE ONLY FROM THE OUTSIDE

= SAFETY DEVICE CHECKS

38. LUBRICATING AND GREASING THE MECHANICAL PARTS

Lubricate the bearing, cylinder and chain guides.



39. UNLOCKING THE LANDING DOORS

If for unexpected reasons you cannot open the landing doors equipped with an external electric lock by manual force, you can operate as follows:



NB: This operation is to be carried out with the platform at the floor from where you want to access!

IF YOU RELEASE THE LOCK WITH THE PLATFORM NOT AT THE FLOOR, THERE IS A RISK OF FALLING.

- Manually release the unpowered electric lock following the instructions below:



Unscrew the setscrew.



Using a simple screwdriver, turn the slider from the "locked" to the "open" position.

- Normally open the landing door.



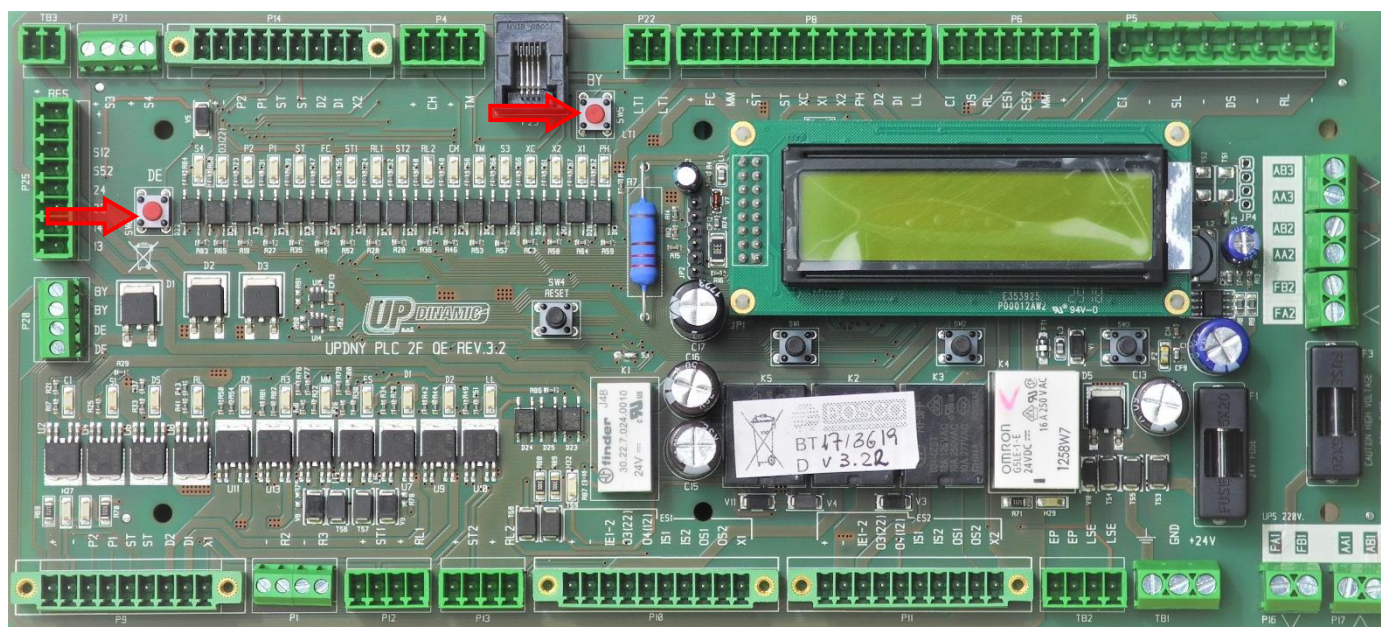
NB: once you have completed the operation, reposition the slider in the "locked" position and retighten the setscrew.

40. EMERGENCY PROCEDURE (FOR AUTHORISED PERSONS ONLY)

VALID FOR 2 STOP GOODSLIFT

For installation and maintenance of car lifts and goods lifts, Art. 15 of Pres. Decree 162/99 requires that the system owner appoint a person holding an appropriate certificate of qualification (LETTER "F") issued by the prefecture.

Press the two buttons indicated at the **same time** to carry out the emergency descent



BYPASS BUTTON (BY)

- Bypass closed door contact
- Bypass stop
- Bypass photocells
- Bypass emergency stop

DESCENT BUTTON (DE)

Actuate the descent valve with deadman command



WARNING: NO SAFETY DEVICE IS ACTIVE DURING MOVEMENT

Wait until the platform reach the lower floor, the display will indicate when the platform reach the floor

VALID FOR 3/4/5 STOP GOODSLIFT



For installation and maintenance of car lifts and goods lifts, Art. 15 of Pres. Decree 162/99 requires that the system owner appoint a person holding an appropriate certificate of qualification (LETTER "F") issued by the prefecture.



Press the two buttons at the same time to carry out the emergency descent

FIRST BYPASS BUTTON (BY):

By Pass – Safety devices + enables Descent Button (DE)

- Doors-closed contact bypass
- Stop bypass
- Photocell bypass
- Emergency stop bypass

SECOND RIGHT DESCENT BUTTON:

it powers the two descent valves with jog control.

WARNING: NO SAFETY DEVICE IS ACTIVE DURING MOVEMENT



41. TECHNICAL SERVICE

Contact our Sales and Technical Service Department for anything you may need.

TECHNICAL SERVICE CENTRE

UPDINAMIC S.r.l.

Via Franco Modigliani, 22

37045 Legnago (VR)

Tel.: 0442 / 590129

Fax: 0442 / 599091

42. REPAIRS - SPARE PARTS

Important

IMPORTANT: For any repairs, contact qualified and authorised persons.

Should you ask our Sales and Technical Service Department for technical information or spare parts, always specify the data indicated on the identification plate.

43. DEVICES FOR MACHINE OPERATOR SAFETY

In order to ensure the safety of the machine operators, particular measures have been adopted as indicated below:

Electrical safety devices:

- Electric panel construction, use of electrical materials and earthing in accordance with the requirements of CEI 44-5.



INSTALLATION MANUAL

ORIGINAL INSTRUCTIONS

Rev.04.01 Updated 24/02/2020

Per informazioni:

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One level ahead.



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