



INSTALLATION MANUAL

Rev.03.02 Updated 09/27/2022

Per informazioni:

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Via Franco Modigliani, 22

37045 - Legnago (VR) Italy

One level ahead.

UPDINAMIC srl

Via Modigliani, 22

37045 - LEGNAGO (VR)

INSTALLATION MANUAL

GOODS LIFT AND CARGO LIFT MODEL:

DL4-CM4

Rev. 03.02 – 27/09/2022

(vehicle used for the transport of goods/cars only

or by goods/cars with an operator)

SERIAL NUMBER:

THE FOLLOWING MANUAL IS INTENDED FOR THE INSTALLER AND MAINTENANCE PERSONNEL OF THE MACHINE. THIS MANUAL AND THE RELATED ATTACHMENTS LISTED MUST BE STORED IN THE TECHNICAL COMPARTMENT BY THE OWNER:

- ☒ MACHINE BOOKLET
- ☒ MACHINE USER MANUAL
- ☒ ELECTRICAL PART MANUAL
- ☒ MAINTENANCE MANUAL



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

- MACHINERY DIRECTIVE 2006/42/EC
- EMC DIRECTIVE 2014/30/EU

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

The manufacturer has designed the machine considering that it must not be put into service until it has been declared compliant with all the provisions of the Machinery Directive 2006/42/EC.

This manual is therefore a guide to provide correct instructions for commissioning the machine, with the aim of ensuring safe operating conditions: bypassing electrical safety devices and dismantling the guards provided by the manufacturer seriously compromise the safety of the machine. Correct use also requires compliance with the instructions relating to installation, power supply, and maintenance of the machine, which must be strictly adhered to.

The machine must be used in accordance with the use intended by the manufacturer and specified in this manual: we therefore recommend reading it carefully before reading this manual.

Maintenance involves a few simple operations that can be performed by the machine operator. To achieve maximum durability and the best operating economy, it is recommended to follow: scrupulously the rules contained in this document.

The manufacturer will not be held responsible for breakages, accidents, or other inconveniences resulting from failure to comply with (or otherwise fail to apply) the instructions contained in this manual. The same applies to the implementation of modifications, variations, or the installation of unauthorized accessories.

This installation manual is an integral part of the machine:

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

PLEASE READ CAREFULLY AND KEEP THIS INSTALLATION MANUAL.



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OWNER'S OBLIGATION

For the maintenance and installation of elevators and freight elevators, Article 15 of Presidential Decree 162/99 and subsequent amendments requires the owner of the system to employ a person equipped with:

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

It should also be noted that Article 12 of Presidential Decree 162/99 requires the commissioning of private elevators and freight lifts to be notified to the competent local municipality; this notification must include, among other things, the name of the company, authorized pursuant to Law No. 46 of March 5, 1990 [now Ministerial Decree 37/08], to which the owner has entrusted the maintenance of the system. Therefore, it must be concluded that the company performing extraordinary maintenance of lifting systems must also meet the requirements set forth in Ministerial Decree 37/08.

The CE certificate of the system will be delivered to the customer after the installer has sent the completed Checklist to UpDinamic.

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CHECKLIST FOR INSTALLING A GOODS LIFT

Address where the system is located:	Installation company:
Plant model:	Operator(s):
Serial number:	Signature of technical manager:

MARK WITH A "X" ONLY IF THE CHECK HAS BEEN POSITIVE

STRUCTURE

- FIXING ANCHORS SUPPLIED BY UPDINAMIC USED (Fischer, Hilti or equivalent approved anchors) ANCHORING RESISTANCE
- OF ANCHORS ON LOAD-BEARING WALLS VERIFIED
- TIGHTENING THE ANCHORS WITH A TORQUE WRENCH AS PER THE MANUFACTURER'S TECHNICAL DATA SHEET
- THE CHAINS HAVE BEEN INSTALLED CORRECTLY WITH PINS AND COTTER PINS SUPPLIED BY UPDINAMIC (in the case of 2 chains, tension both chains by balancing the load)
- ANTI-TIPPING BOLTS HAVE BEEN INSERTED AT THE ENDS OF THE GUIDES (to prevent the trolley from slipping out of the guides)
- THE MAXIMUM TRAVEL OF THE SYSTEM (extra-travel) HAS BEEN VERIFIED. THE
- MECHANICAL SUPPORTS ON EACH FLOOR ARE STABLE AND SAFE.
- THE HOOK MECHANICS ON BOARD THE TROLLEY ARE FLUID AND WELL GREASE. THERE ARE
- NO DANGEROUS RECESSES INSIDE THE COMPARTMENT.
- (setbacks, beams, irons or any other object installed subsequently, e.g. door handles) PHOTOCELLS ALWAYS
- PRESENT ON THE OPEN SIDES (only for systems with driver on board)
- ON EACH FLOOR, IF THE SPACE BETWEEN THE WALLS AND THE PLATFORM, AND BETWEEN THE LANDING AND THE PLATFORM IS BETWEEN 20mm AND 150mm, THERE MUST BE A CHAMFER ON THE WALL
- ON EACH FLOOR, IF THE SPACE BETWEEN THE WALLS AND THE PLATFORM, AND BETWEEN THE LANDING AND THE PLATFORM IS GREATER THAN 150mm, THERE MUST BE A PROTECTION WHICH CANNOT BE OPENED DURING MOVEMENT

PLANT ENGINEERING

- PIPES AND CABLES HAVE BEEN POSITIONED IN A WAY THAT THEY CANNOT BE DAMAGED. THE
- CLIMBING SPEED IS LESS THAN 15cm/s.
- THE DESCENT SPEED IS LESS THAN 15cm/s
- EMERGENCY STOP STOPS THE SYSTEM IN ANY SITUATION
- THE ELECTRIC LOCKS ARE POWERED ONLY WITH THE PRESENCE OF THE PLATFORM ON THE CORRESPONDING FLOOR THE ELECTRIC
- LOCKS ARE CORRECTLY INSTALLED AND THE ENGAGEMENT IS MECHANICALLY SAFE THE SYSTEM DOES NOT WORK WITH THE DOORS
- OPEN
- THE DOORS AND PERIMETER PROTECTIONS ARE SOLID WITH BLIND WALLS OR A MAXIMUM FIRM MESH OF 12x12mm ALL THE
- LIMIT SWITCHES PRESENT WORK CORRECTLY
- ALL SEND AND CALL COMMANDS MATCH ALL SIGNAL LAMPS MATCH
-
- THE PROXIMITY SWITCHES ON BOARD THE CARRIAGE WORK CORRECTLY, 2mm OF AIR WILL BE REQUIRED FROM THE STOP. THE
- CABLE THAT REACHES THE MOVING PART IS WELL FIXED WITHOUT ANY RISK OF ENTANGLEMENT.
- THE SYSTEM STOPS IF THE PHOTOCELLS ON THE OPEN SIDES ARE PASSED. THE DOORS HAVE BEEN INSTALLED
- LEVEL-WISE.
- DOORS ARE INSTALLED MAX 10cm FROM THE COMPARTMENT WITH THE POSSIBILITY OF OPENING FROM THE
- INSIDE. DOORS MUST OPEN OUTWARDS
- THE STRUT AND THE STOP IN THE PIT HAVE BEEN INSTALLED AND VERIFIED
- OVERLOAD TEST: SYSTEM CAPACITY + 10%:

FINAL LOAD TEST:

WEIGHT USED FOR TESTING: Kg PRESSURE CALIBRATION TEST bar

THE SYSTEM IS DELIVERED WITH THE PRESSURE CALIBRATED AS PER THE FINAL LOAD TEST

TECHNICAL COMPARTMENT

- PLACE THE CONTROL UNIT AND ELECTRIC PANEL IN AN AREA NOT ACCESSIBLE TO UNAUTHORIZED PERSONS. THE TECHNICAL
- AREA MUST BE EQUIPPED WITH LIGHTING. ☐ THE TECHNICAL AREA MUST BE VENTILATED

NOTE:

The installer declares that he has carried out all assembly operations only after having read and understood the instructions in the machine's installation manual.
To receive the Certificate of Conformity and the CE plate to apply to the system, send this signed document by fax, email, or post, attaching photos of the completed installation.

Date:

Signature of the
client:

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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:

- TECHNICAL DATA OF THE MACHINE
- GENERAL SAFETY REGULATIONS
- INSTALLATION REQUIREMENTS AND METHODS

1. DEFINITIONS AND MACHINE COMPONENTS

DEFINITIONS

Description Elements:	Name
Car loading platform:	Flatbed;
Proximity sensor	Px
Position switch	End of the line
Electric safety lock	Electric lock
Electromechanical fall arrest device	Fall protection

GENERAL WARNINGS

This manual describes the safety and installation instructions, which must be followed during all unloading and installation operations. This manual is an integral part of the machine and should be retained for future reference.

It is therefore recommended:

- read all instructions carefully before starting the machine installation phases;
- to therefore scrupulously carry out each operation described, adhering to the required safety regulations;



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UPDINAMIC Srl declines all responsibility for damages caused to people or things due to:

- failure to comply with these rules and instructions;
- the change of destination;
- incorrect assembly of the machine and not corresponding to the instructions provided;
- improper use of the machine;
- any modifications made without the consent of the manufacturing company.

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



DANGER: Rules and/or instructions marked with this symbol concern safety. This sign warns that if the described operations are not performed correctly, the operator is exposed to the risk of possible injury, long-term damage, or death.



ATTENTION Standards and/or instructions marked with this symbol concern safety. This type of warning indicates the dangers to which personnel performing the machine installation phases are exposed. Failure to follow the instructions marked with this symbol could damage the machine, posing a risk to the personnel involved.



PROHIBITED: The rules and/or instructions marked with this symbol concern actions that **THEY MUST NOT** must be strictly followed. Failure to comply with these rules could damage the machine and/or cause serious danger to the personnel responsible for operating it.

Important

IMPORTANT This type of warning indicates that special care must be taken during installation, cleaning, and/or maintenance. Failure to comply with these instructions could damage the machine and/or cause serious danger to the user or others.



2.BASIC SAFETY RULES

Personnel responsible for installation (assembly and commissioning) must have the necessary qualifications. In Italy, the installation company must meet the required technical and professional qualifications, letter "f" in reference to Presidential Decree 30-4-1999 no. 162, and be authorized by the competent authority. The installer must therefore be able to read and understand the diagrams and drawings. The system must be assembled in accordance with the instructions in the relevant documentation, and all necessary safety measures must be in place to ensure the safety of the personnel involved.

The owner/operator of the machine must ensure that anyone who may have access to the installation devices has read this manual in its entirety and fully understands its contents. It is also important that the operator enforces all regulations and/or requirements for the prevention of accidents at work, also considering the specific circumstances of the installation site.

ATTENTION

The work environment must be kept clean and tidy. In particular, danger zones must be properly demarcated.

ATTENTION

Tools and materials for use must not be left on the machine (or in any case in positions where they could interfere with the mechanical movements of the lift) or where they could fall and cause damage to people and/or things.

ATTENTION

Each tool should be used only for its intended purpose and in the most suitable manner. Any damaged or poorly maintained tool is a potential source of danger.

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ATTENTION

The use of loose-fitting clothing (e.g. scarves, ties, etc.) may be dangerous. Always wear close-fitting clothing.

ATTENTION

Oil or grease on the floor must be removed immediately to avoid any risk of slipping or falling.

3. SAFETY CONDITIONS FOR INSTALLATION



All personnel involved in installation operations must use the necessary personal protective equipment and clothing as prescribed by current regulations for the prevention of accidents at work.

PPE: harnesses, helmets, shoes, gloves



To ensure construction site safety, access to the pit must be limited. If there is no fixed fence, the installer is responsible for installing a temporary perimeter fence around the pit. These fences may only be crossed by authorized personnel.

INSTALLER'S EQUIPMENT

- Scaffolding
- Electric construction site hoist
- Fall arrest systems, harnesses
- PPE
- Standard tools
- Portable welder
- Grinder
- Portable lamps for hard-to-reach and poorly lit areas
- No. 04 Props H=2000mm (approximately), to support the platform (500kg) in case of interventions under the platform.
- Thermometer for monitoring operating temperatures
- Stopwatch to check operating speed
- Ammeter clamp for checking electric motor absorption



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4. PREPARING THE CONSTRUCTION SITE

- Check the straightness of walls with plumb lines;
- Check for the presence of recesses to be eliminated on the masonry part;
- Clean and dry the pit cavity properly;
- Check that the scaffolding is correctly positioned, and must be accompanied by a declaration of conformity;
- Ensure that all access points to the compartment are properly closed with doors or securely fastened guardrails to avoid the risk of falling;
- Position the external control panels so that the distance between them and the floor is between 900mm and 1100mm
- Provide adequate lighting system:
- 50 Lux in the lift shaft; 200 Lux in the technical shaft



To install the DL4-CM4 freight elevator, you must first perform the operations indicated in the technical drawings provided by the manufacturer. Verify the adequacy of the load-bearing walls in relation to the loads associated with its use. Analyze the project layout, verifying that all the shaft measurements correspond to the theoretical study.

Verify that all construction and preparation works have been carried out:

- Preparation of conduits, corrugated pipes and holes for the passage of electrical cables and hydraulic pipes, as per the manufacturer's instructions:
 - On each floor, two 20 mm diameter corrugated pipes are provided to connect the push-button panel and electric lock to the utility room.
 - A 120 mm diameter hole is provided inside the extra pit for the passage of hydraulic pipes.
- Wall hole for inserting closing doors on the floors;
- Provision of a technical compartment in accordance with regulations, located on the lower floor on a wall adjacent to the lift shaft, for the positioning of the hydraulic power unit and electrical panel.
- The technical compartment must be large enough to allow maintenance operations by authorized personnel (minimum 100x160x h200cm), positioned in a place accessible for maintenance, yet remote and protected from access by unauthorized persons.

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- The technical compartment must be placed in a dry place and protected from water.
- It is recommended to protect the technical area with a masonry compartment, panels, or a specific technical cabinet.
- Presence of adequate electricity;
- Check the squareness of the pit with plumb lines, mark the references on the wall for centering the lift.
- Check the presence of a load-bearing concrete wall of minimum quality 20/25, with resistance performance equal to or greater than that indicated for the model of goods lift in question;
- Check the accessibility of the compartment for placing the goods inside;
- Check that the dimensions of the shaft, stroke, pit and head coincide with the measurements shown on the drawings provided by the manufacturer;

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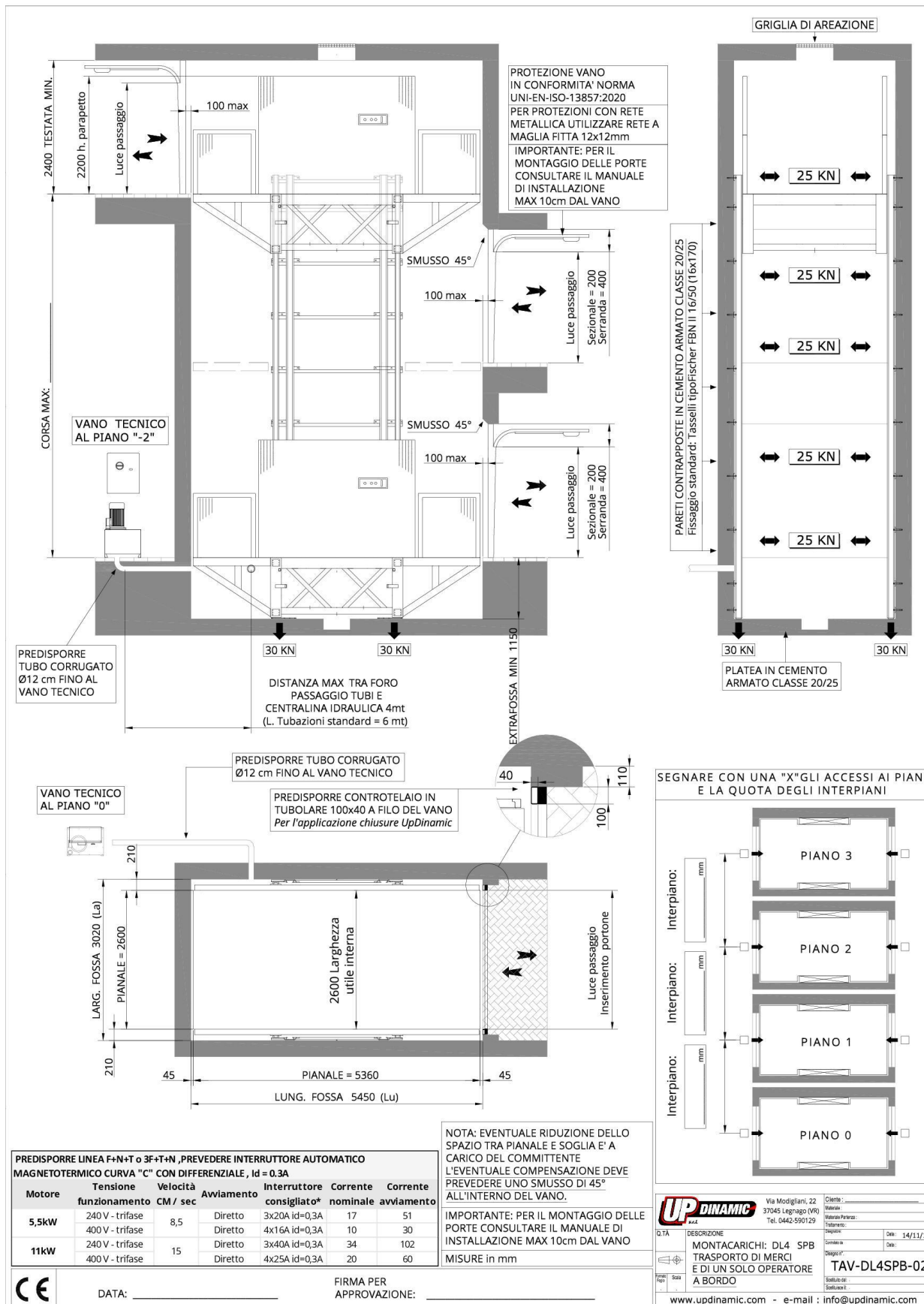
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5.DL4-CM4 MACHINE DIAGRAM



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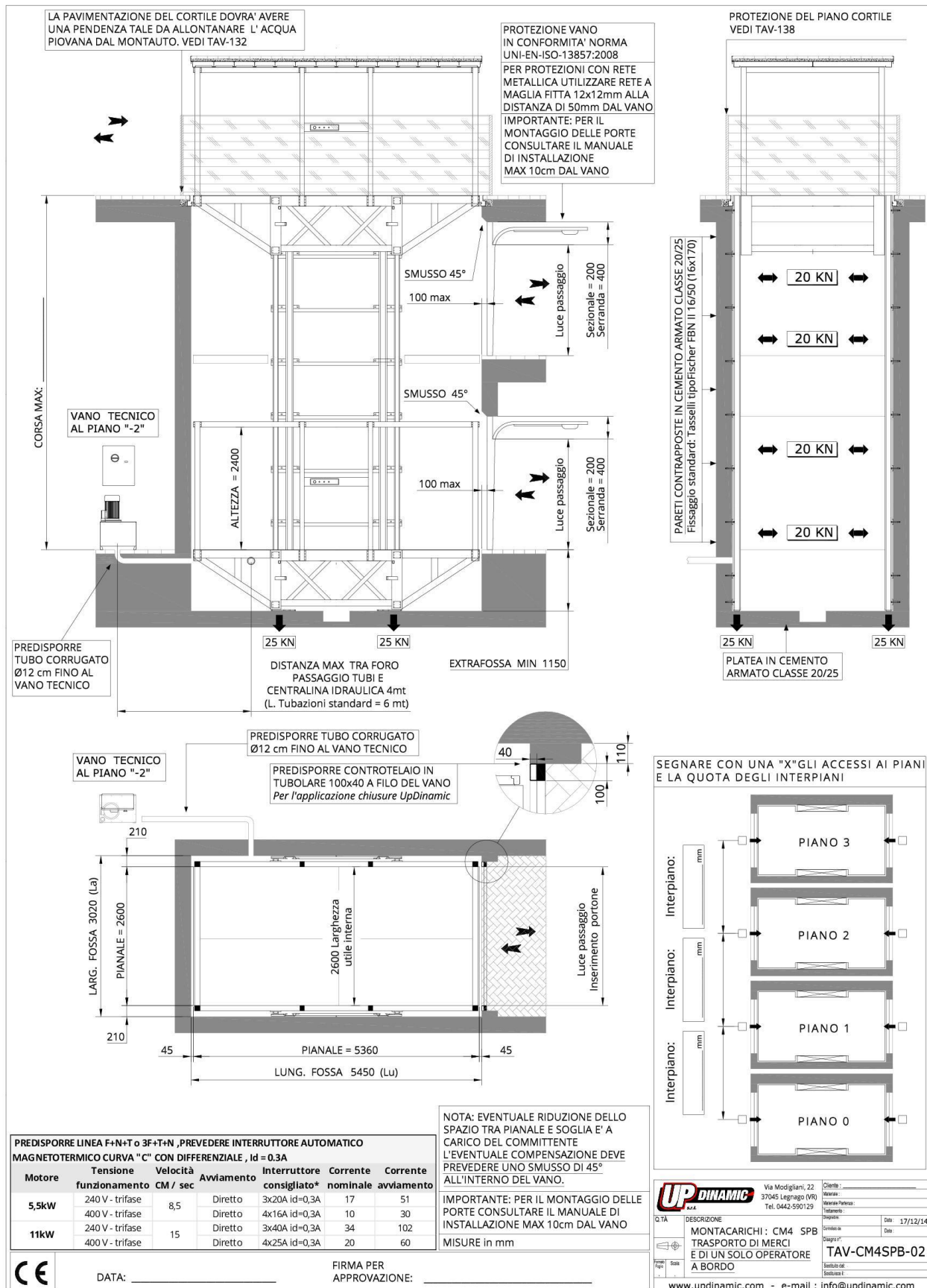


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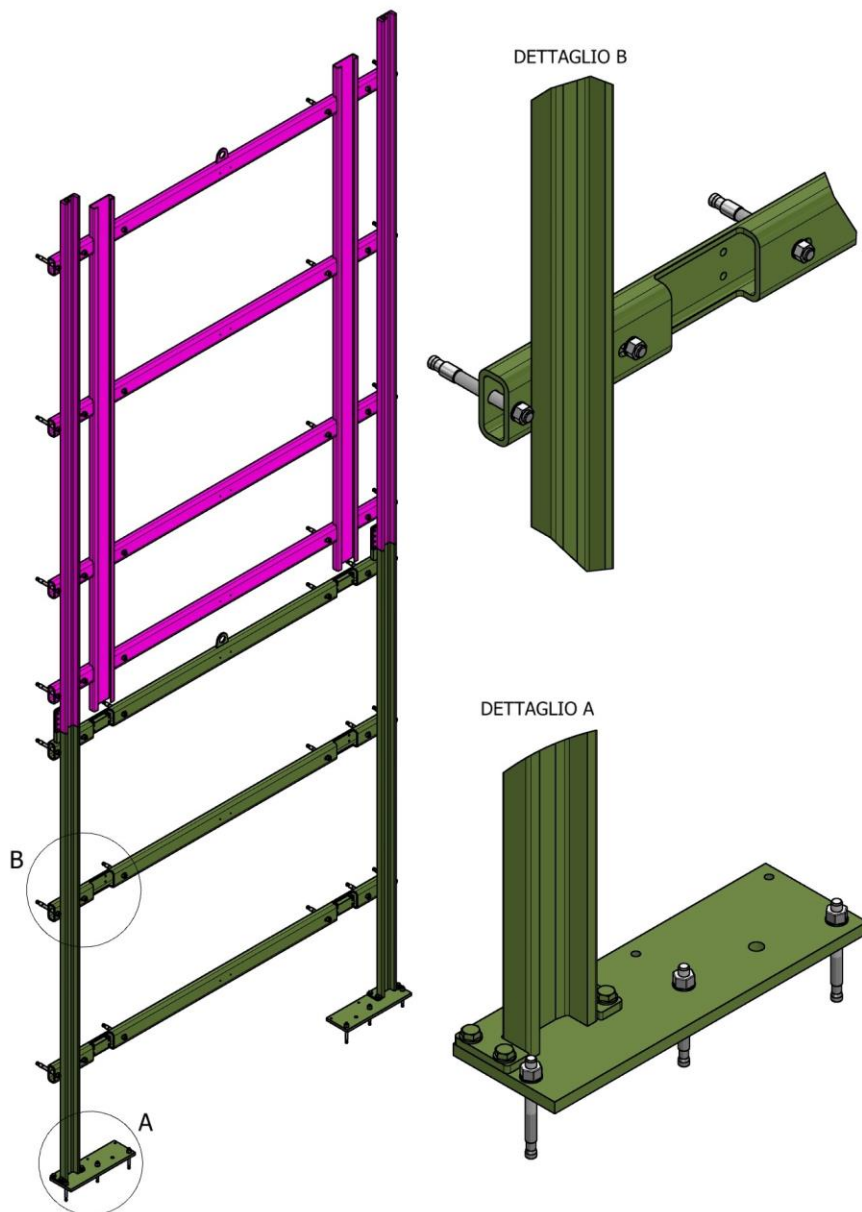
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6. FIXING ON REINFORCED CONCRETE WALL



Wall mounts are placed on the load-bearing wall or a steel structure. Standard mounting is on class 20/25 reinforced concrete with anchors such as:

- Fischer mod:

FBN II 16/50 (16x170)

THE CLIENT MUST GUARANTEE THAT :
THE LOAD-BEARING WALL CAN RESIST THE INDICATED LOADS, UP TO 220 cm BEYOND THE MAXIMUM TRAVEL.

THE LOAD-BEARING WALL MUST BE MADE OF ORDINARY CONCRETE WITH CLASS OF
RESISTANCE NOT LESS THAN C20/25

7. CHECK THE ELECTRIC AND HYDRAULIC LINE

It is necessary to verify the presence of a power line, socket, and power supply adequate for the system's characteristics. The system's electrical characteristics are shown on the wiring diagram inside the panel and on the motor's nameplate.

- Standard length of hydraulic pipes and electrical cables 6m;
- Provide a differential switch upstream of the electrical system of the goods lift, positioning it inside the technical compartment;
- Provide for the installation of a stop button in the pit;
- If there is an operator on board, a single-beam photoelectric barrier must be provided for each free side of the platform;
- If there is an operator on board, a control panel is provided on the machine;
- On each floor there is a button panel and an electromagnetic lock connected to the system's electrical panel;
- The flat cable supplied must be connected on board the machine to power the electromagnets, the px, the photocells and the button panel

1.2. SAFETY STOP IN THE PIT



A stop contact is provided in the pit to be activated during maintenance, in order to disable any movement carried out from outside



It is strictly forbidden for unauthorized persons to stand underneath the lift for reasons other than those mentioned above.



8. ELECTRICAL PART AND SAFETY COMPONENTS

- LOCKS PLANNED

Pizzato Elettrica srl:

Safety switches with separately operated solenoid: FD series, FG series, FP series, FS series

(Compliant with the requirements of: Low Voltage Directive 2014/35/EU, Machinery Directive 2006/42/EC and Electromagnetic Compatibility Directive 2014/30/EU)

For the following brands, check the current consumption and, if necessary, insert a support relay with a suitable power supply:

Tieffe srl:

TF2000 series locks

(EC Type Examination Certificate No. 50LR00104 in compliance with Directive 2014/33EU issued by IMQ Spa, notified body No. 0051)

Hans & Jos. Kronenberg GmbH: DLF

series locks, DL series

(Compliant with the requirements of: EN 81-1, EN 81-2, EN 60947-5-1; EU-DL 808/1 certificate issued by TÜV SÜD Industrie Service GmbH, notified body no. 0036)

Prudhomme Sa:

Mechanical locks: LR series, electric locks: LR series

(EC Type Examination Certificate No. 0060-IV-A-086P-08-2017 in compliance with Directive 2014/33EU and the requirements of standards EN 81-1, 81-2, 81-20 and 81-50 issued by Apave, notified body No. 0060)

- PHOTOELECTRIC BARRIERS



Place photoelectric barriers on the free sides of the platform. This beam must be positioned at the edge of the platform; during the

If the movement is crossed, it causes the system to stop, thus avoiding crushing. Once the initial conditions are re-established, it is possible to resume operation. movement.

For each side there is an emitter and a receiver, whose connections will be contained in the electrical box on board the machine.

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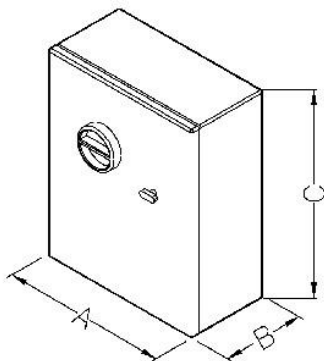
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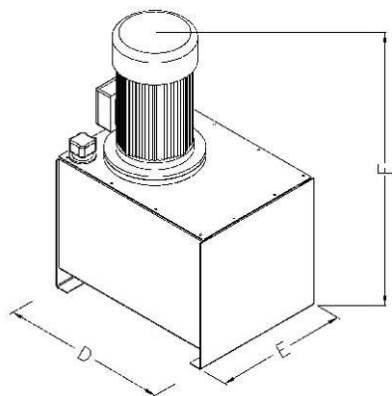
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- ELECTRICAL PANEL DIMENSIONS:

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



- HYDRAULIC POWER UNIT DIMENSIONS



	5.5kW	11kW
F	80cm	100cm
D	60cm	60cm
AND	45cm	50cm
	220-380V three-phase	220-380V three-phase

- AVAILABLE THREE-PHASE MOTORS

Motor	Voltage operation	Start-up	Switch advised*	Current nominal	Current start-up
5.5kW	220 V - single phase	Direct	3x16A id=0.3A	22	60
	380 V - three-phase	Direct	4x16A id=0.3A	11	35
11 kW	220 V - single phase	Direct	3x40A id=0.3A	34	102
	380 V - three-phase	Direct	4x25A id=0.3A	20	60

* Automatic circuit breaker with differential, "C" curve. Provide a five-pole 3F+N+T power supply.

9. SAFETY STRUT:

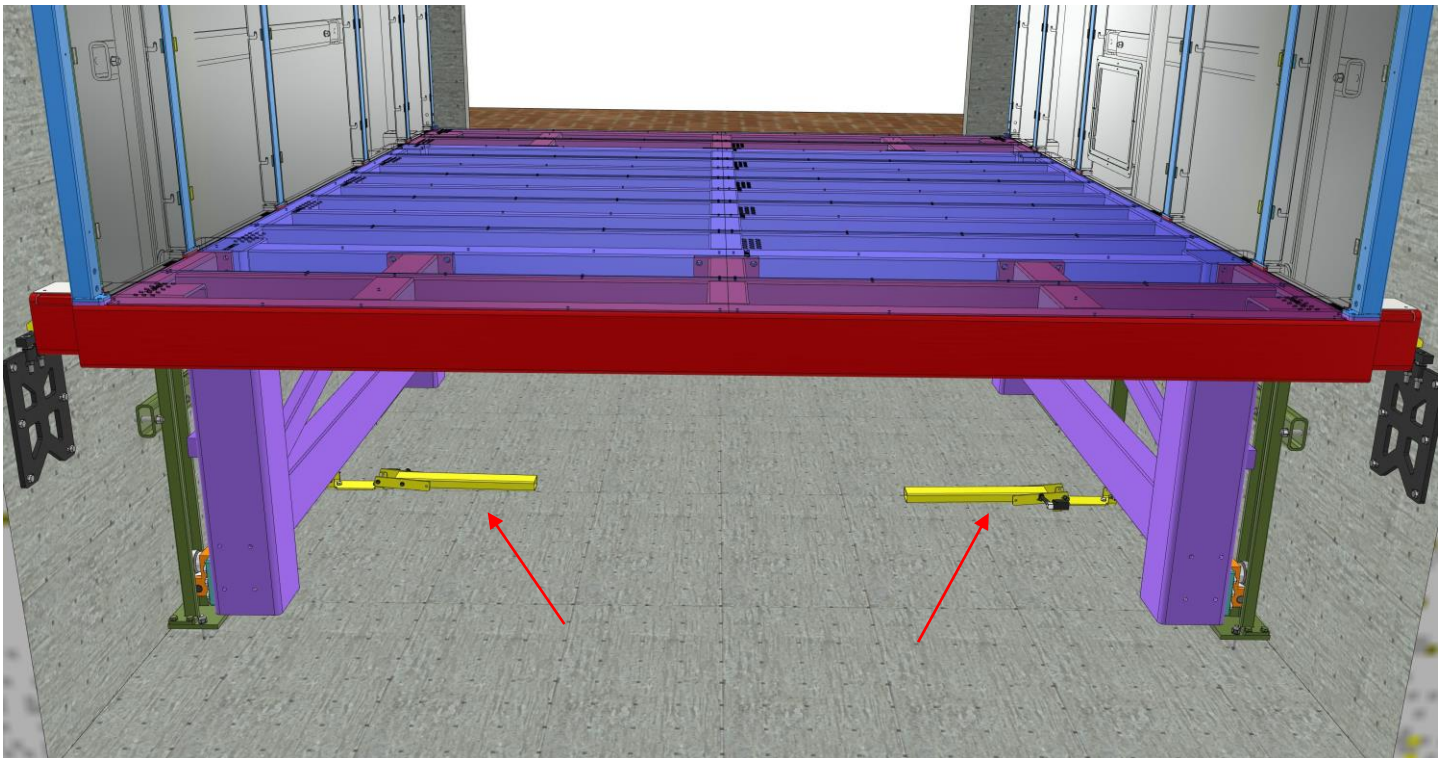
Installing the strut is essential for safety purposes if you find yourself working underneath the lift during installation or maintenance.



It is strictly forbidden for unauthorized persons to stand underneath the lift for reasons other than those mentioned above.

To install the strut, follow the instructions below:

- Anchor the base plate to the pit floor
- Screw one end of the side plates to the base plate
- Screw the tube to the side plates
- Temporarily anchor the base plate to the floor of the pit (respect the coupling with the tube)
- Screw the limit switch to the base plate
- Check the correct contact between the tube and the limit switch
- Fix the limit switch permanently
- Connect the limit switch to the electrical panel (see electrical manual)



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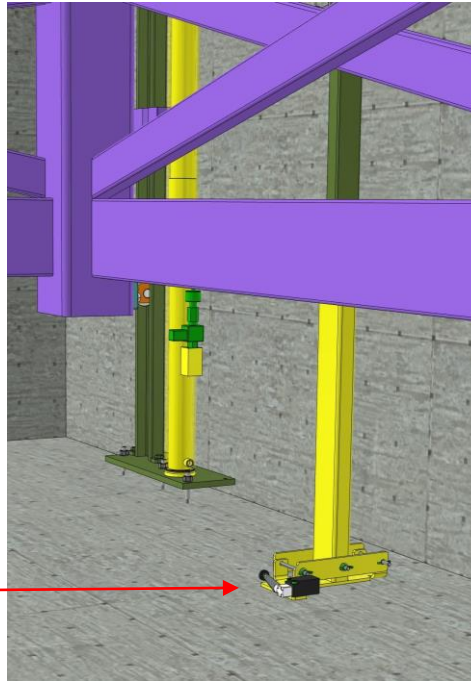
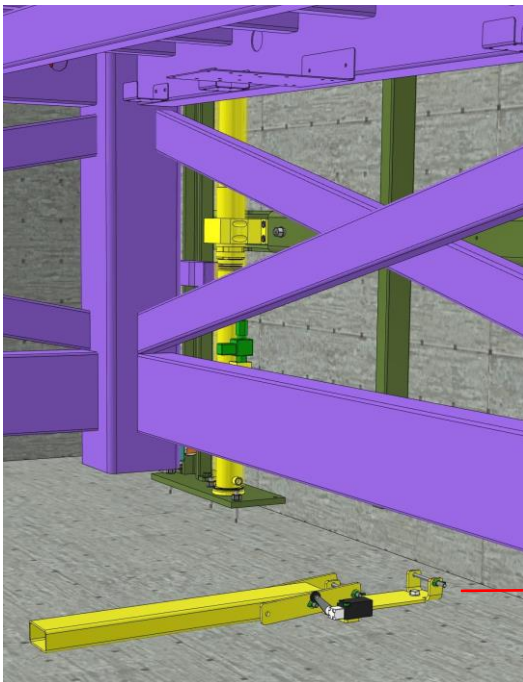


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When resting, secure the tube to the base plate

When in use, the tube must be positioned vertically by screwing the other end of the side plates to the base plate. Ensure the correct position to ensure proper support for the platform.



The strut guarantees a maximum load capacity of 2000 kg



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



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10. INSTALLATION

Installation operations (assembly and start-up) are performed exclusively by the manufacturer or by qualified and authorized personnel, capable of reading and understanding the diagrams and drawings. The system must be assembled in accordance with the instructions in the relevant documentation.

11. PIT CLEANING

Cleaning the pit for the correct and safe performance of subsequent operations:

- Prepare a dry pit
- Remove any objects from the floor
- Clean the pit floor properly
- Smooth the surface to ensure a perfectly horizontal finish
- Check for the presence of recesses to be eliminated on the masonry part
- Remove any protrusions from the floor and walls (pipes, irons, etc.)
- Clean the walls of the pit properly
- Smooth the walls to ensure a perfectly vertical finish

12. SCAFFOLDING PREPARATION

Scaffolding must be set up inside the shaft. The scaffolding must be used for the mechanical and electrical system installation phases, and for any floor closures. The scaffolding must have a work platform at each shaft entrance. This platform must be approximately 30 cm lower than the stop level to facilitate the installation of the fall arrest system support plates at each floor. The scaffolding must be positioned approximately 45 cm from the wall where the guide rails are attached, with sufficient perimeter clearance to maneuver the loads.

If the scaffolding is made even partially of metal structures, it must be grounded. The scaffolding must be accompanied by its own declaration of conformity.

13. RECEIPT OF GOODS

The accompanying delivery note will indicate:

Origin of the goods
Machine type and model Plant
number
Any additional accessories Indication whether
delivery is on account or on balance



Upon receipt of the goods, the assembler must verify that the material listed on the document corresponds to what was received.

The packaging of the goods will normally consist of the following packages:

Sliding guides in 3000mm modules (max) Loading platform
Chequered plates for floor covering + any parapets. Trolley complete with sliding bearings.
Hydraulic cylinder + spacer extension Lifting chains
Hydraulic power unit and hydraulic pipes Pre-assembled electrical panel and electrical cables
Heavy duty anchors for fixing the structure
Accessory box

After removing the packaging, check the integrity of the various parts. Report any missing parts to the manufacturer.

14. UNLOADING AND HANDLING OF GOODS



Unloading and handling operations require the use of a crane or forklift. The above-mentioned means must be used only by qualified personnel with the necessary certificates. During operations, it is necessary to ensure that the goods are lifted and moved without causing damage to them.

making sure to collect it in protected, guarded areas and in environmental conditions that do not compromise the good condition of the goods.

15. LIFTING SYSTEM APPLICATION

To move loads inside the compartment, it is first necessary to install a construction site jib crane with an electric hoist with a declared capacity of at least 1500kg at the head of the shaft. The jib crane and hoist must be provided with a declaration of conformity.

The position of the hoist must be useful for moving loads from the lower floor to the upper floor.

The jib crane must be fixed to the reinforced concrete wall with suitable anchors to ensure the maximum lifting load. To install a jib crane with an electric hoist, follow the instructions provided by the manufacturer.

There chain length The hoist must allow the anchoring and transport of the goods to the lowest floor.



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



Per informazioni:

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- LIFTING AND HANDLING OF GOODS



Before proceeding with the lifting operations of the goods, it is necessary to ensure the maximum capacity of the lifting systems used.



Pay attention to the edges and take care not to cause the goods to sway when lifting.



Take all precautions regarding suspended loads.



It is absolutely forbidden to stand or walk under suspended loads.

- LIFTING AND HANDLING LOADS INSIDE THE SHAFT



Check the maximum capacity of the hoist attachment point and indicate the maximum working load with a clearly visible sign



All used lifting equipment must be checked before use and must be provided with an inspection certificate;



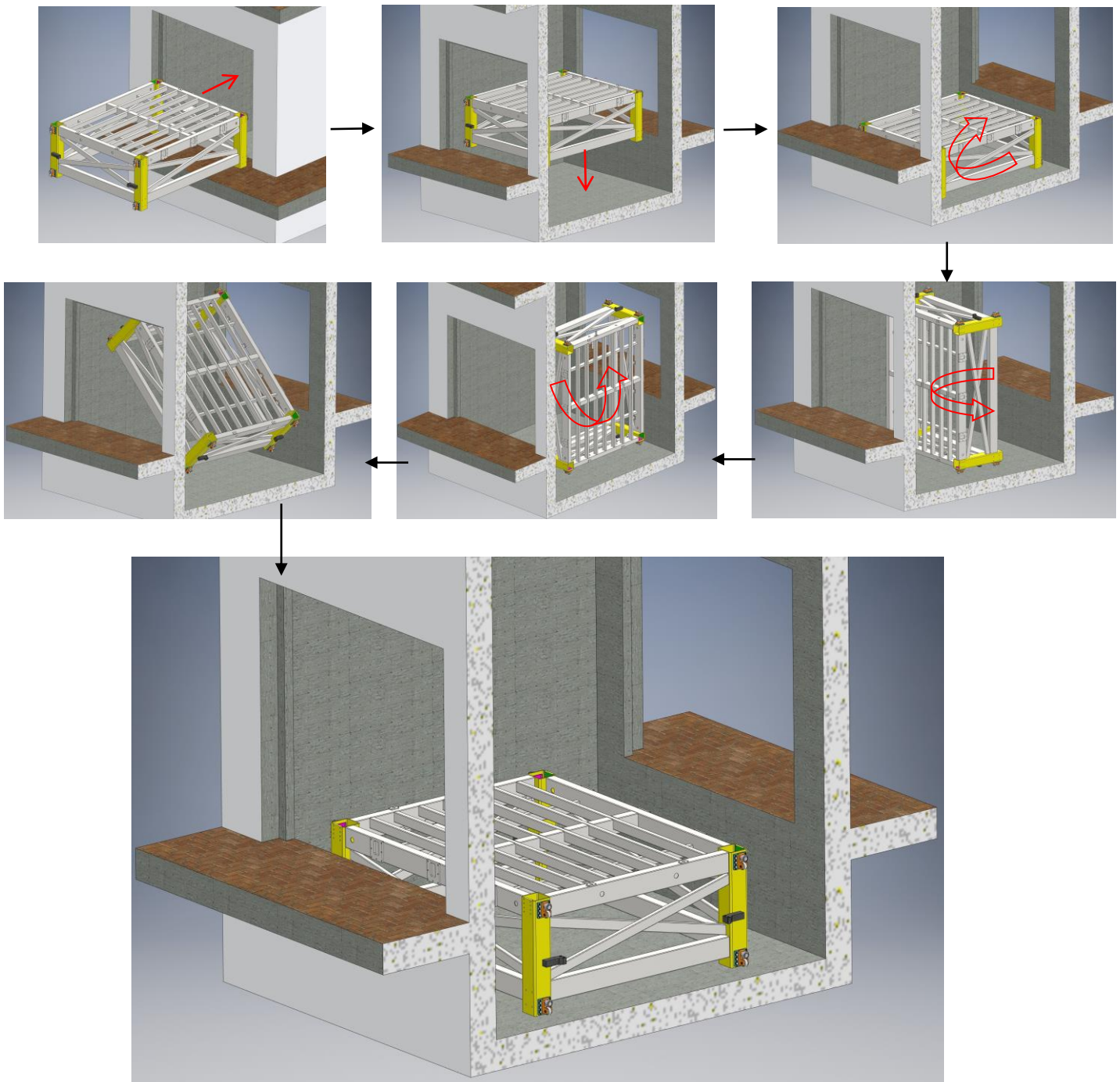
It is absolutely forbidden to stand or walk under suspended loads.

16. CENTRAL FLOOR BLOCK INSERTION

ATTENTION The central floor block with the assembled bearings is always inserted first when material enters the lift shaft from the LOWER FLOOR. If it is possible to insert materials from the UPPER FLOOR, it is necessary to evaluate whether to insert the base guide modules before the floor block.

Narrow access insertion sequence.

(For wide accesses, insert the platform directly with the bearings already oriented on the two mechanical sides).



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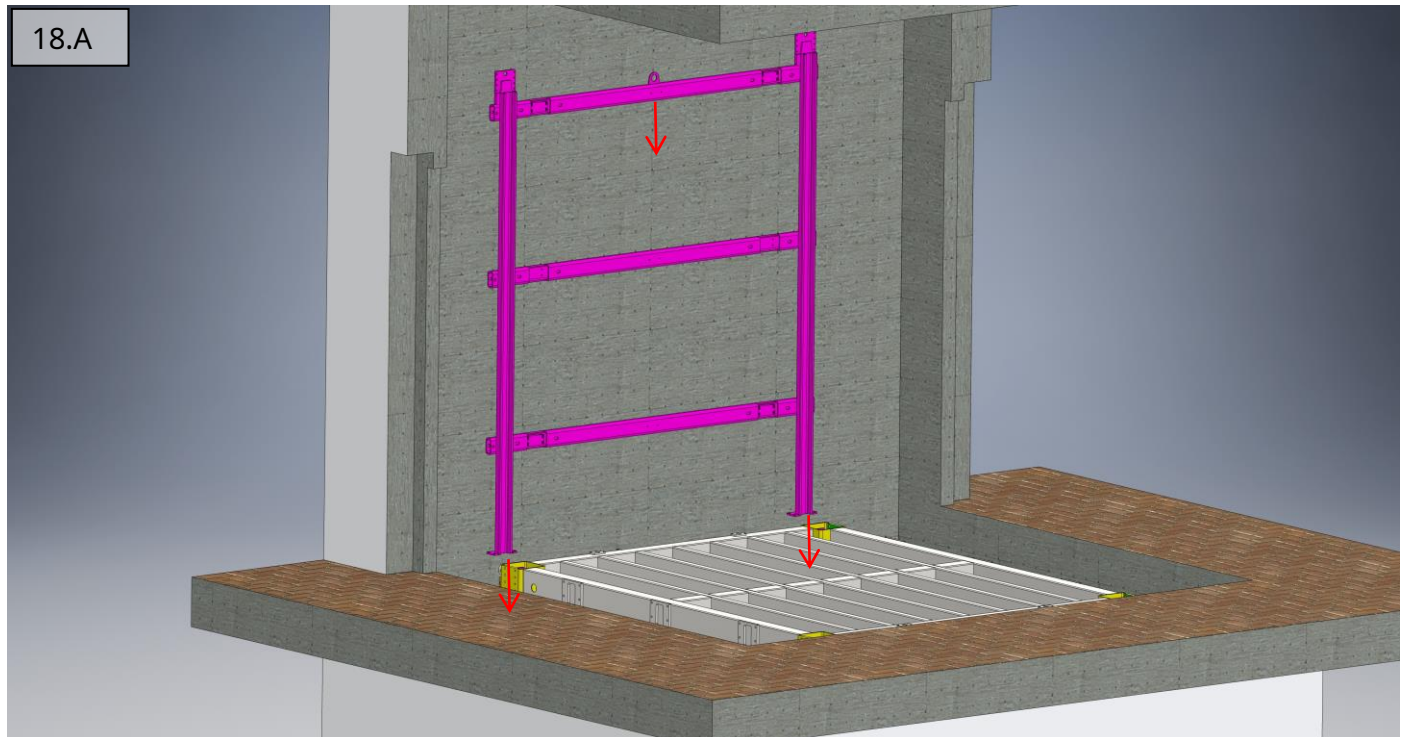
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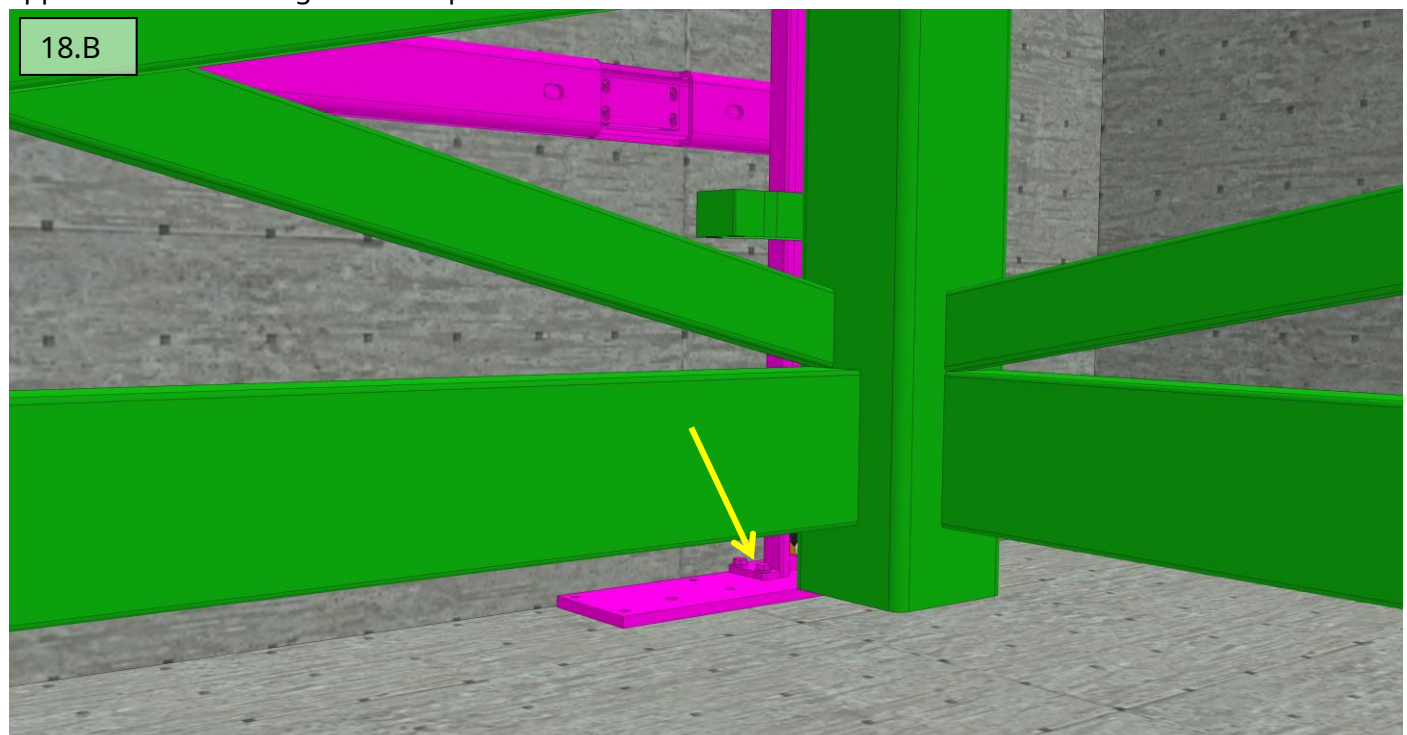
17. INSERTING GUIDES BASIC MODULE

18.A - Attach the module to the hoist and lift it into a vertical position, resting it against the fixing wall.

Lower the base module by inserting the "C" guides into the bearings. Caution: At this stage, the lower support plates must be removed.



18.B - Screw the lower plates as shown in the figure below and also insert the guide module on the opposite side following the same procedure



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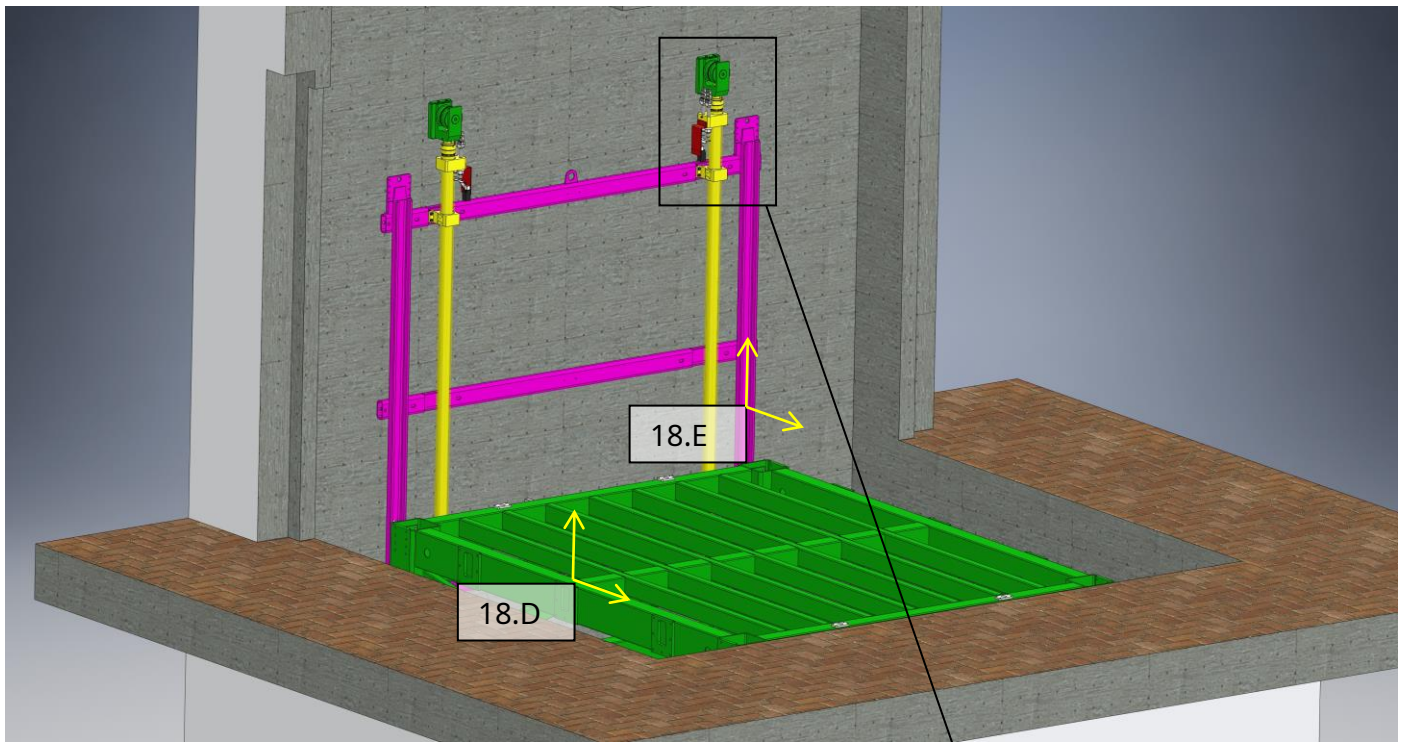


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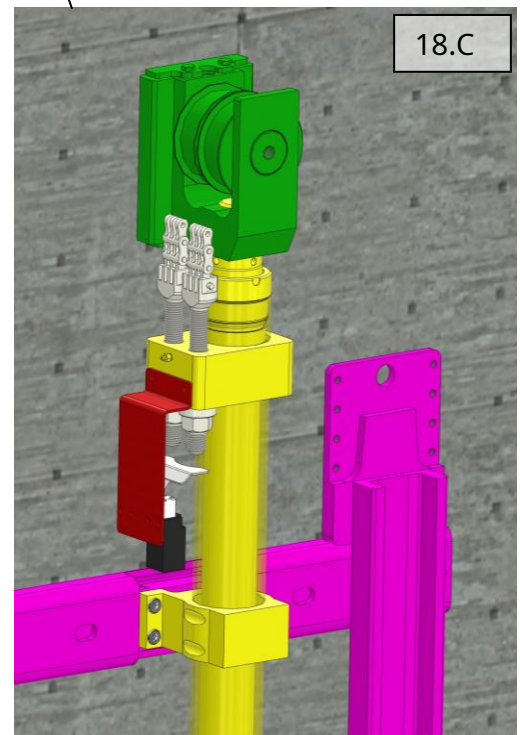
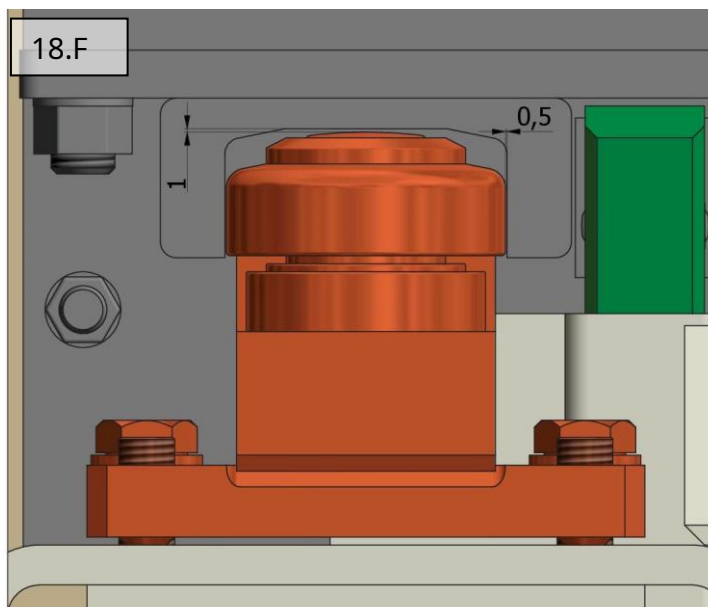


18.C - Insert and secure the cylinders with their respective chain breaking brackets.

18.D - Then LEVEL the central block of the floor so that you can use the pre-installed bearings as a template for fixing the guides to size.

18.E - Start fixing the form bubble between the x and y axes

18.F - The guides must be fixed respecting the space between the bearing and the "C" profile indicated in the figure



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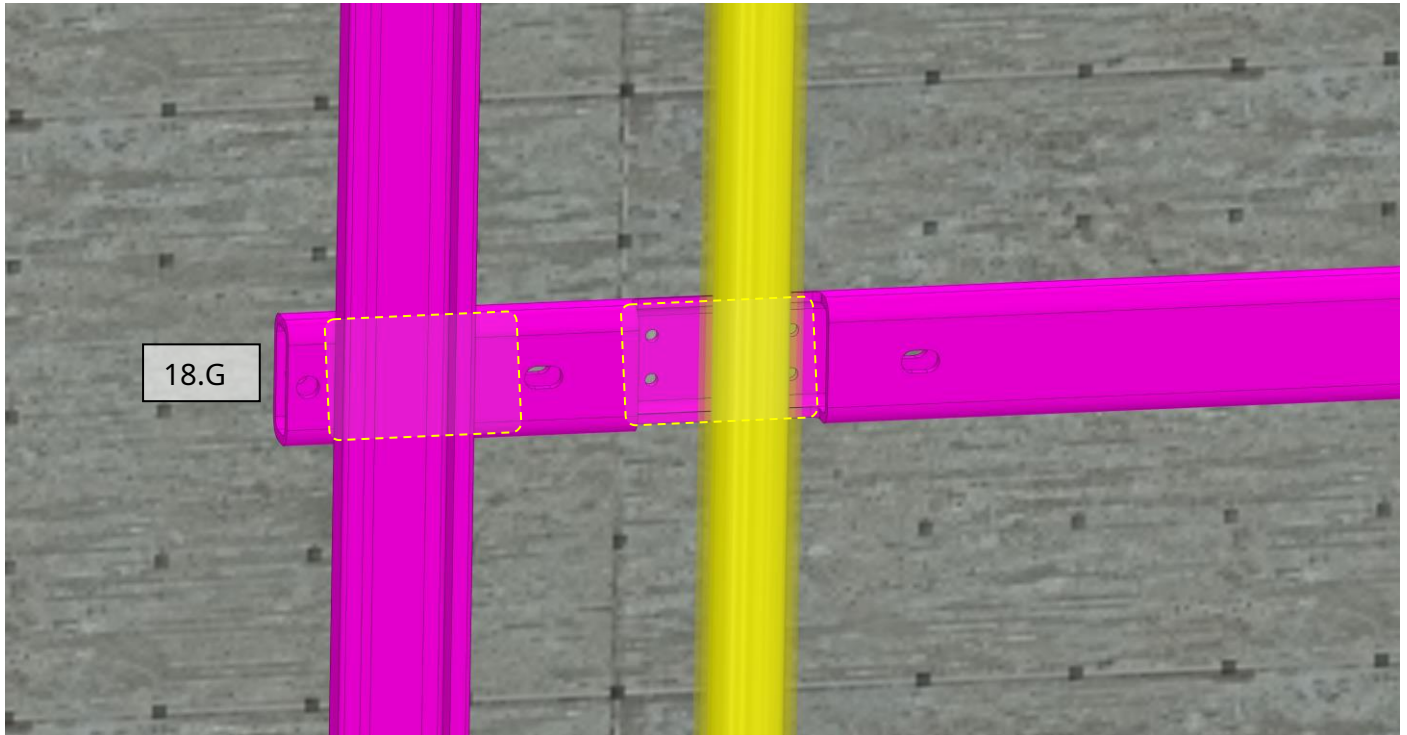
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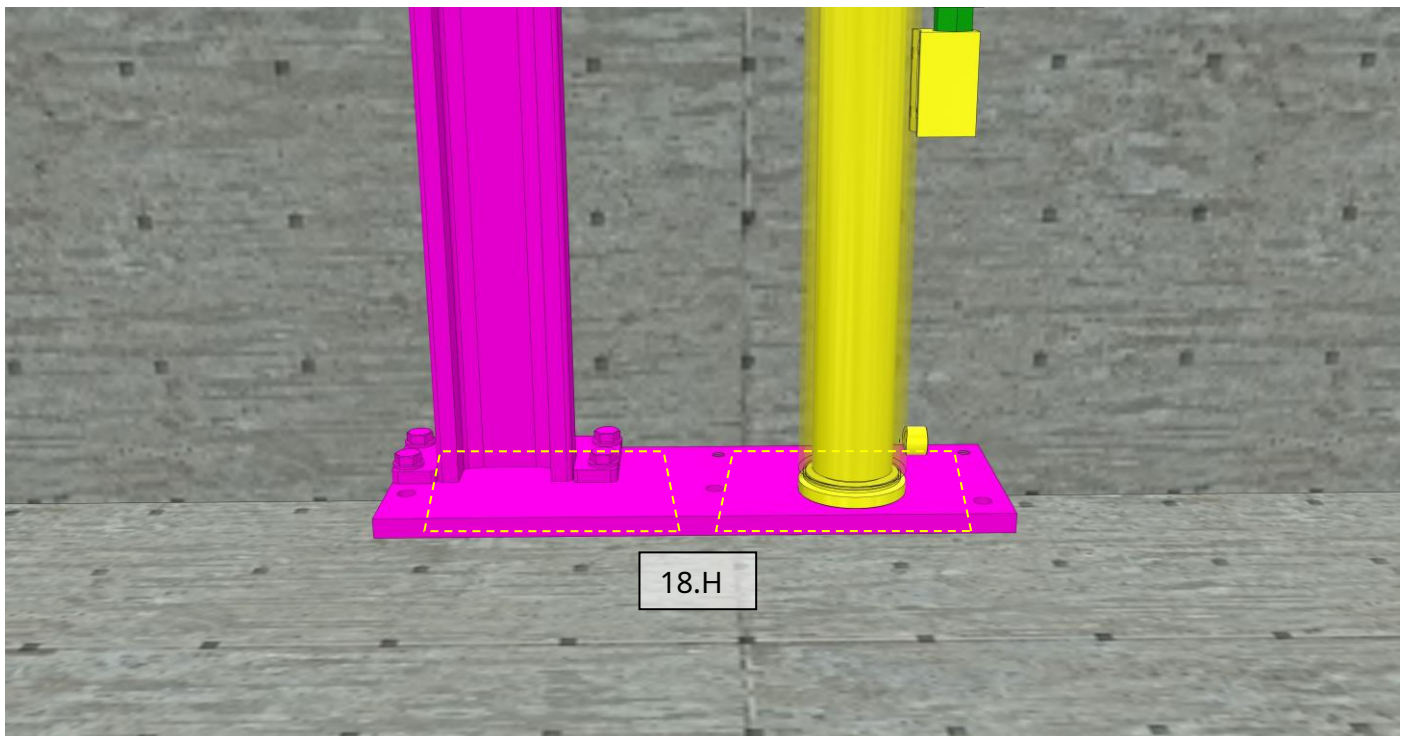
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18.G - Shim by positioning the plastics as shown in the image below.



18.H - At the base the load bears in line with the cylinder, therefore it is essential that the base plate is in complete contact with the floor at this point.



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- STRUCTURE FIXING WITH HEAVY ANCHORS

The structure must be fixed with the appropriate anchors supplied by UpDinamic.

Drilling must be carried out following the instructions in the manual.
anchors .

To compensate for the errors of a wall that is not perfectly flat it is possible insert plastic shims supplied in order to recover the space between the reinforced concrete wall and the support.

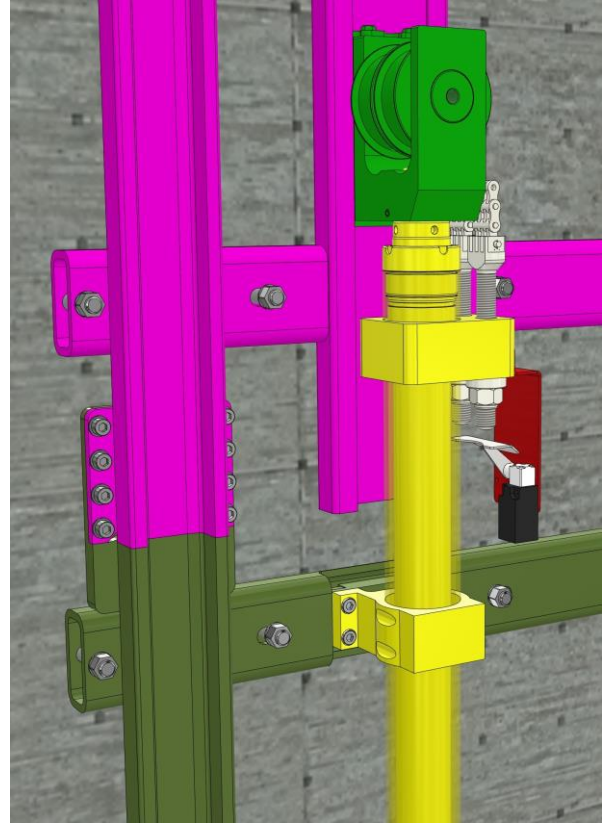
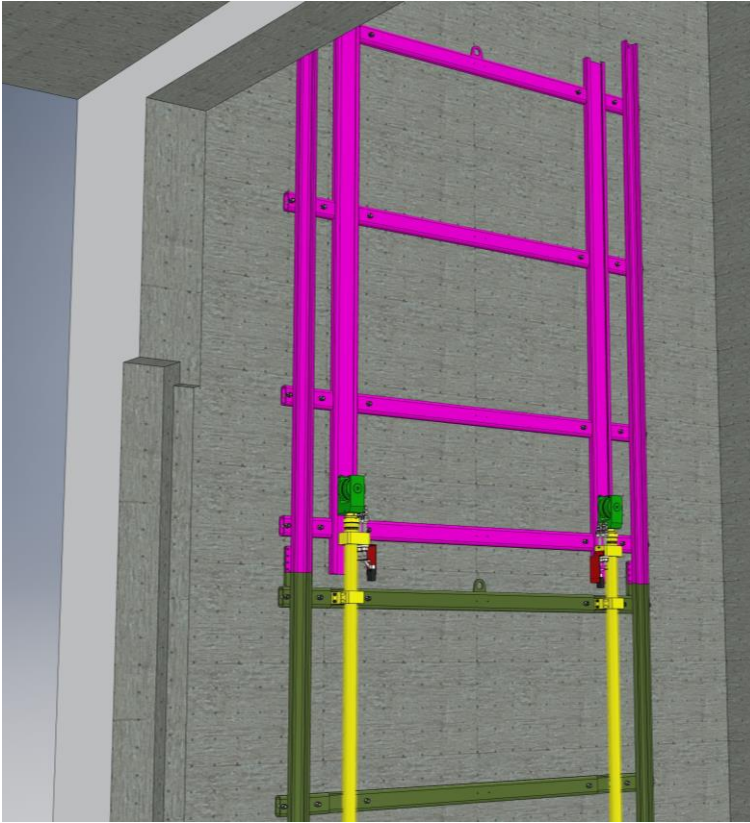
Tighten the anchor with a torque wrench to the force indicated in the specific anchor's manual.

Perform the operation for all fixing holes present .

IMPORTANT:

- Be sure to repair bearings and all mechanical and electrical parts that require high levels of protection. Clean guides and bearings of dust and drilling debris before moving the trolley.
- It is important that the studs do not protrude more than 20 mm to avoid interference with the floor during the ride.

18. FIXING SUBSEQUENT MODULES



Carry out the lifting and installation operations of the subsequent modules using the same procedure described above.

Be careful to insert the upper module from top to bottom, making sure to perfectly position the male-female interlocking of the modules. After having matched the guides, check that the sliding surface of the bearing is smooth and on the same plane, without interference at the joint points of the guides.

Always pay close attention to maintaining the structure's bubble.

Secure the joint with the appropriate bolts locked with thread-locking anchor.

Proceed as described above until the structure is complete.

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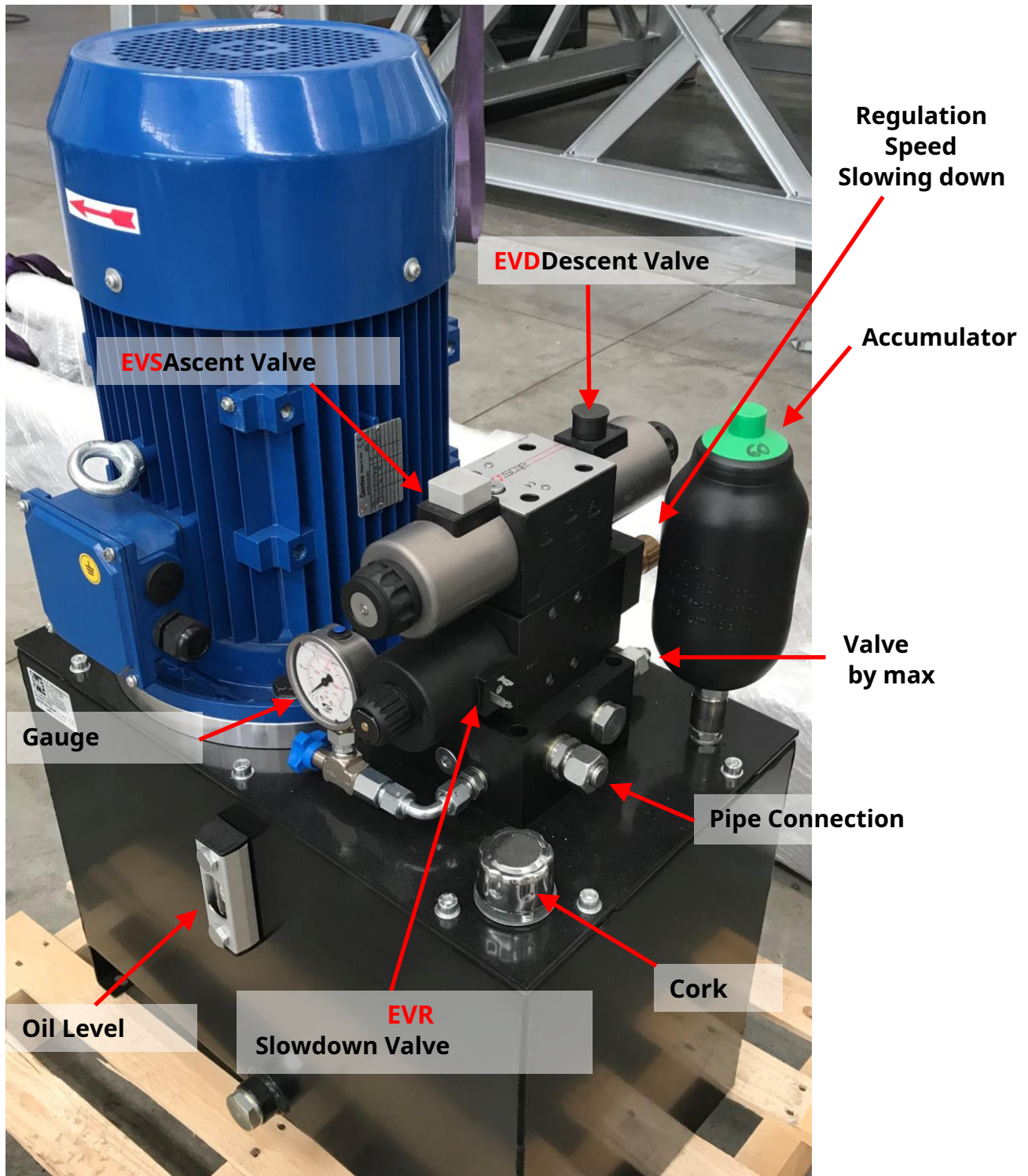
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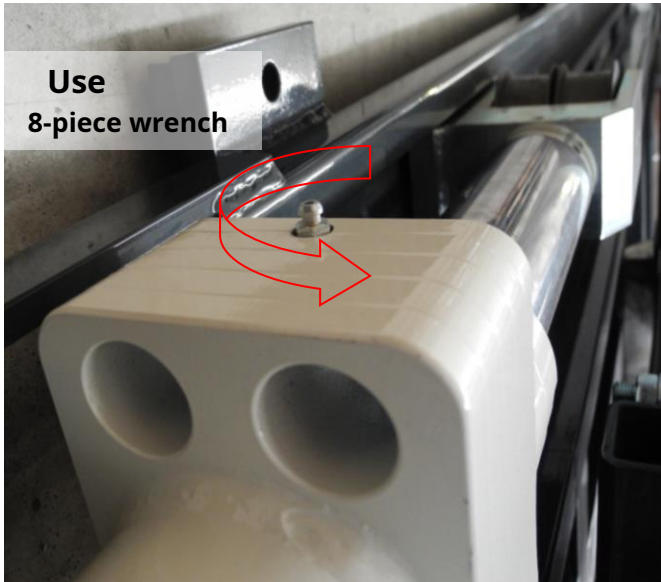
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HYDRAULIC SYSTEM DESCRIPTION

19. HYDRAULIC POWER PLANT



20. SYSTEM BLEEDING



To bleed the cylinders, act on the breather fixed on the upper part of the cylinders

The operation takes place while keeping the loading platform stablaised by about 10cm For at least half an hour so that the air inside the cylinders flows towards the top of the cylinders themselves.

Opening at the same time On the cylinders, the appropriate screw located at the top of the cylinder is used to bleed the air from the hydraulic cylinders. To avoid splashes, attach the supplied nylon tube to the bleed screw.

It is recommended to repeat the operation after another 30 minutes of break.

ATTENTION: the cylinders must be well bled of air to avoid bouncing during the stroke.

21. TANK FILLING

The hydraulic unit's tank must be filled with Wladoil Engine HY SY hydraulic oil. It is important to use special filters that prevent the entry of polluting particles. To operate the system, the oil level must be above the minimum level indicated on the tank.

Wladoil Engine HY SY (approximate average characteristics)

- Density at 15°C:	0.852
- Viscosity cSt 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:	96
- DIN 51 524 HLP classification:	22

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22. RELIEF VALVE ADJUSTMENT

Adjust the pressure relief valve by setting a maximum working pressure as per the following table:

Model	Load max cyl. (kg)	Flow rate max (kg)	Diameter stem (mm)	Max stroke platform (mm)	Pressure of work max (bar)
CM4	3600	3000	Ø60	7600	150
			Ø70	10440	110
			* Ø70 *	16000	
DL4-MAG	3600	4000	Ø60	7600	150
			Ø70	10440	110
			* Ø70 *	16000	



Loosen the lock nut and turn the Allen screw:

Clockwise = Raises blood pressure

Counterclockwise = Lowers blood pressure



Write the working pressure on the installation checklist

23. DESCENT SPEED ADJUSTMENT

To adjust the descent speed:



COUNTERCLOCKWISE = accelerates the descent

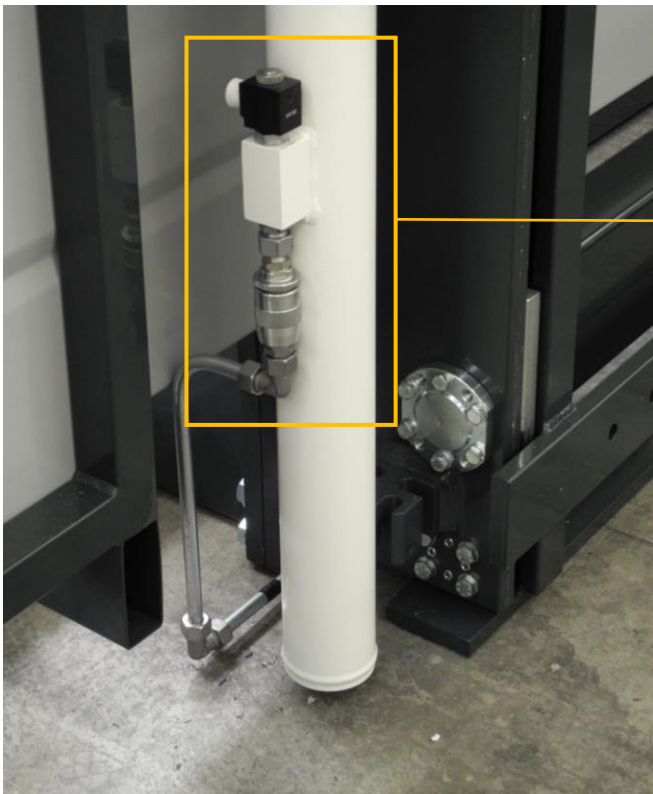


TIME = slow down the descent

ATTENTION:

- Speed varies depending on load!
- The regulator is installed near the cylinders [18a]

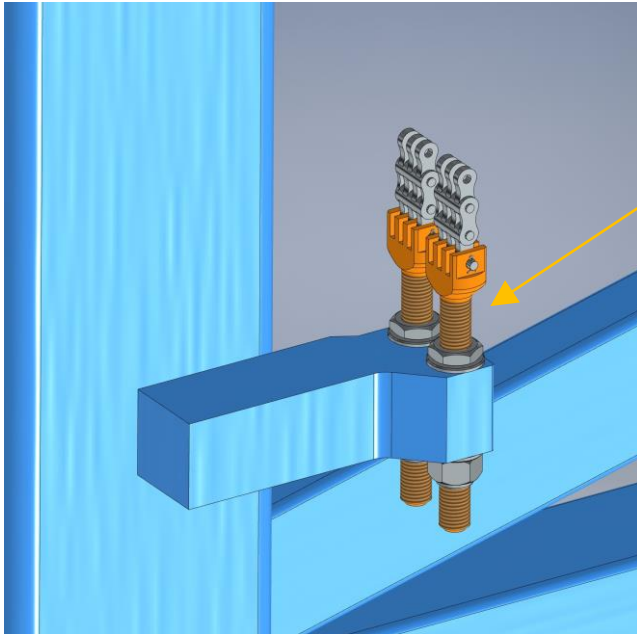
Adjust the descent speed so that at full load the speed is always less than 15cm/s



24. CHAIN INSERTION

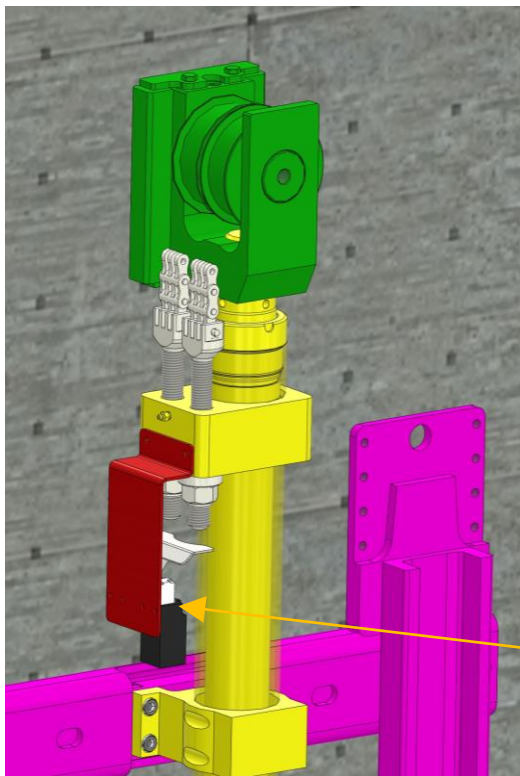
The chains are supplied pre-assembled to size, at both ends there are:

TROLLEY-PLATFORM SIDE



**Screw tie rod
Flatbed Side**

CYLINDER SIDE



**Screw tie rod
(for adjustment)
Cylinder Side**

**Spring and limit switch
of control**



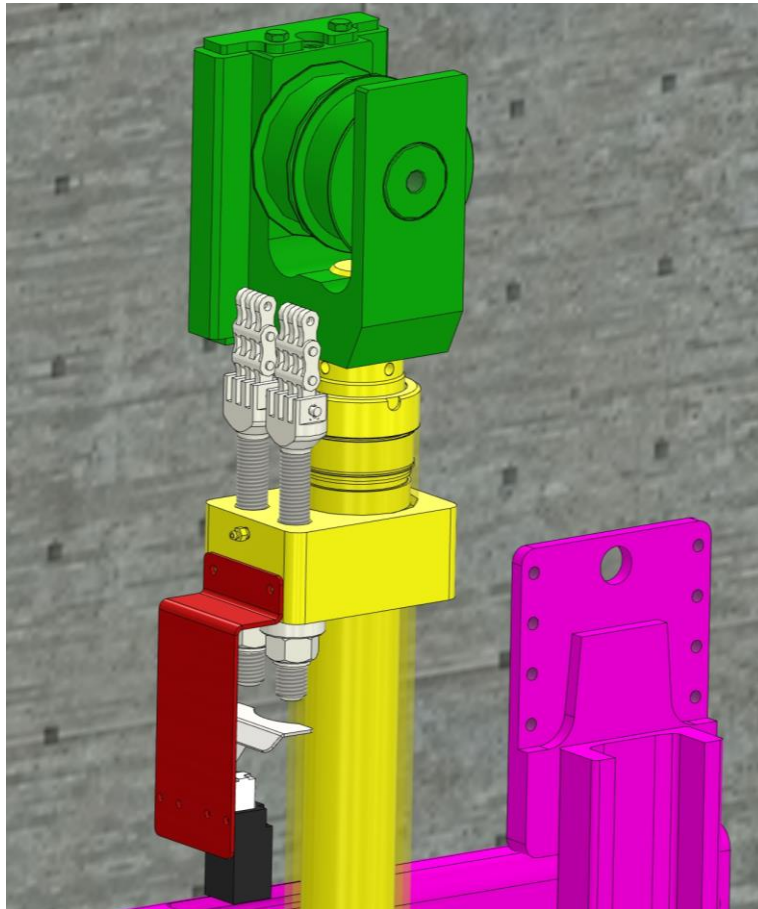
IMPORTANT: After the first movement of the machine, adjust and tighten, maintaining the same tension on both chains.

25. ASSEMBLY OF CHAIN BREAKAGE CONTROL SYSTEM (SPB ONLY)

Assemble the chain control system at the attachment point of both hydraulic cylinders.

The limit switch connection must be an NC contact.

During normal operation the limit switch is not affected, therefore the contact remains closed and the chains are tensioned.



If even just one chain loosens, the limit switch is affected and blocks the operation of the system.

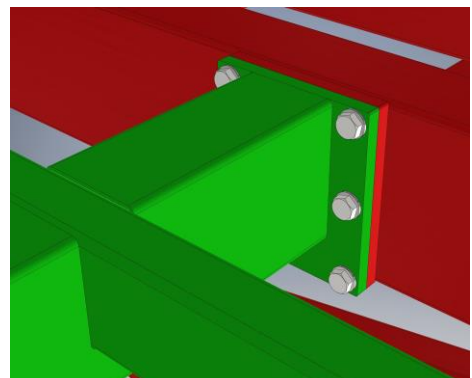
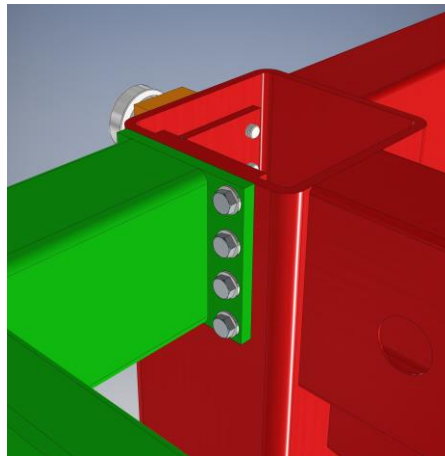
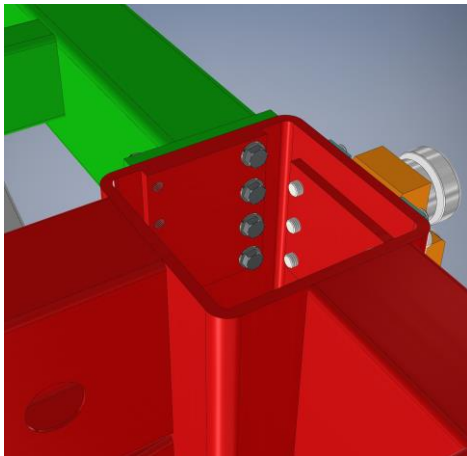
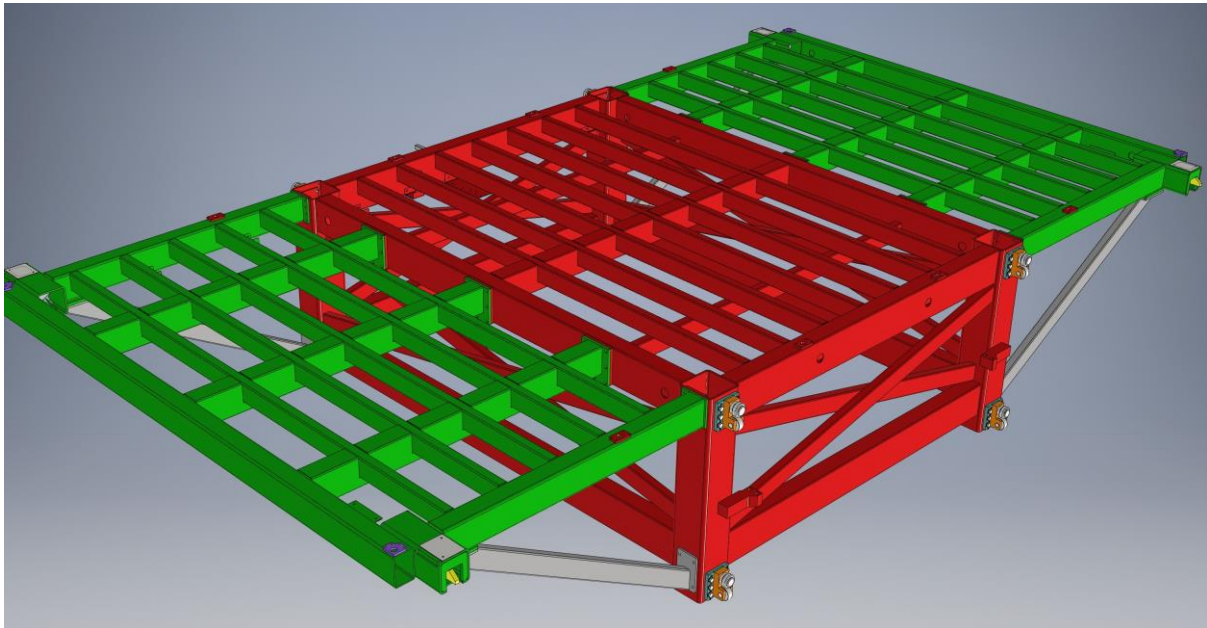
NB: The chains could also loosen when the loading platform is placed on the floors, in this case the limit switch signal is not considered.

**NB: USE THREADLOCK ON ALL
BOLTED CONNECTIONS USED**

26. PLATFORM ASSEMBLY

Screw the two side extensions using the supplied screws:

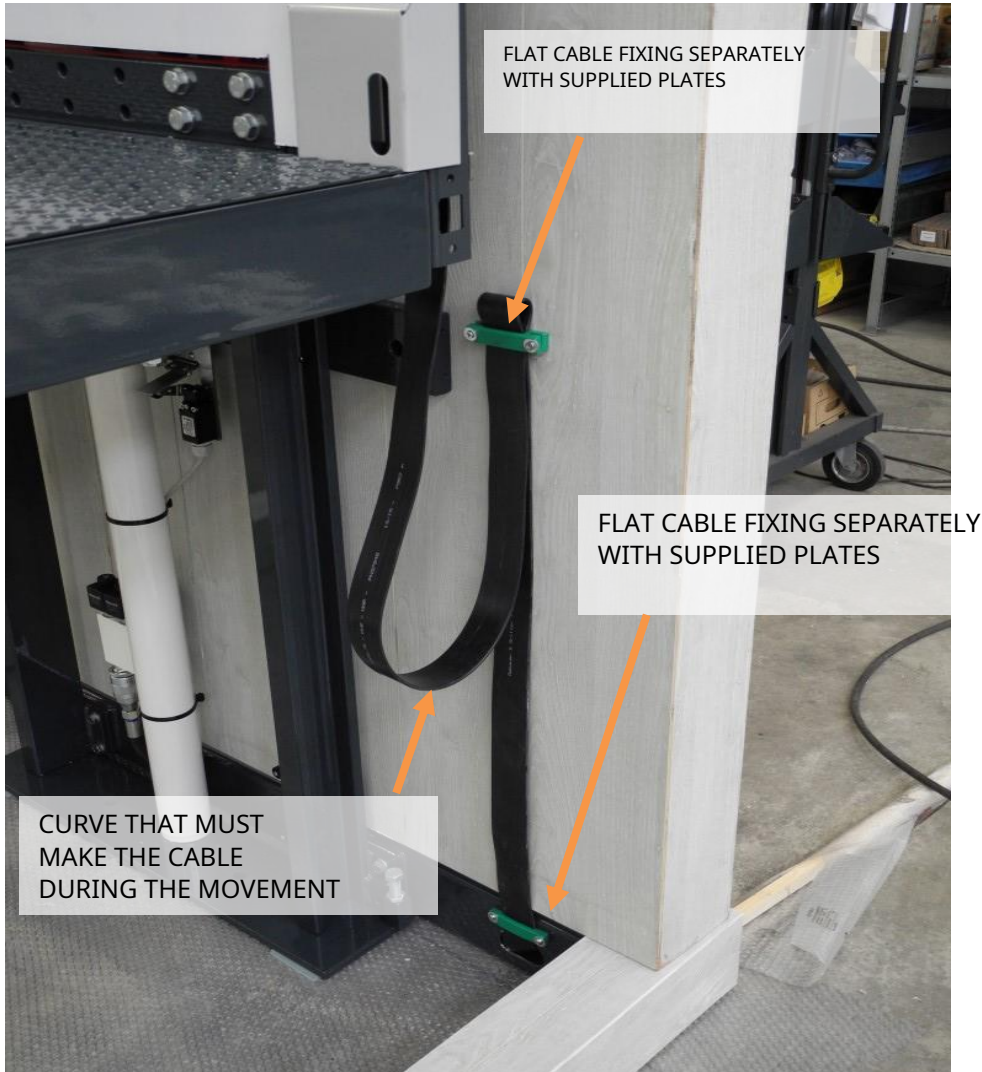
- Use a torque wrench to tighten the screws
Check and set the correct tightening torque according to the thread
- Use threadlocker to prevent possible loosening in the future



IT IS ABSOLUTELY FORBIDDEN stand under the loading platform during operational tests

27. FLAT CABLE FIXING

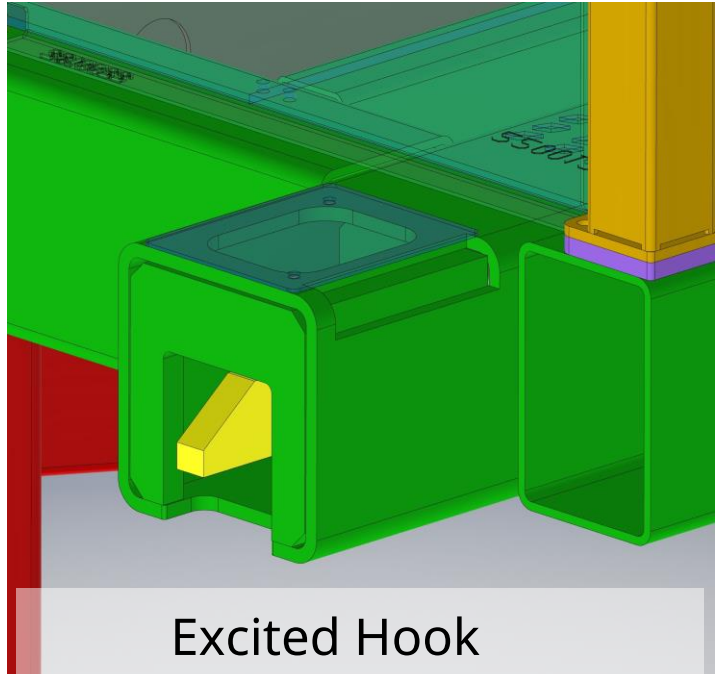
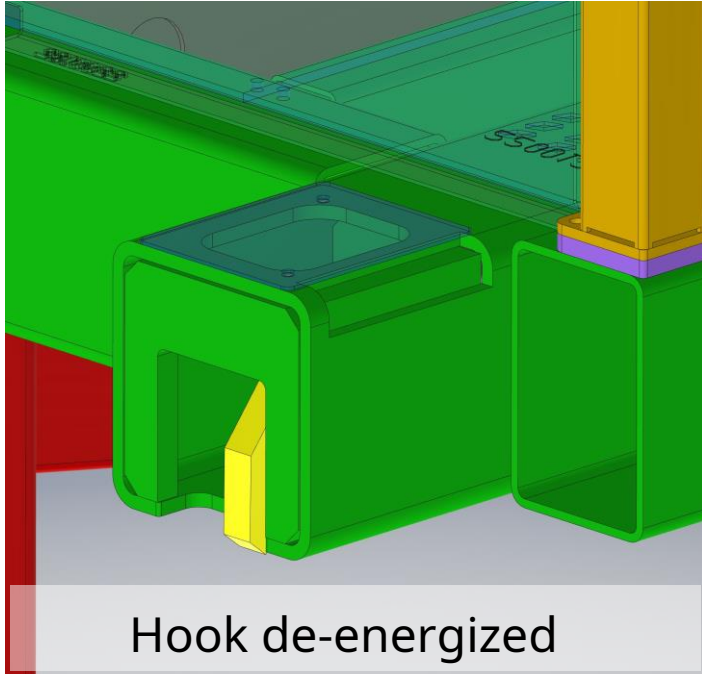
- Fix the flat cable to the wall of the guides holding the platform still at the lowest level



- Then take the flatbed to the highest floor to check if the position of the flat cable is correct

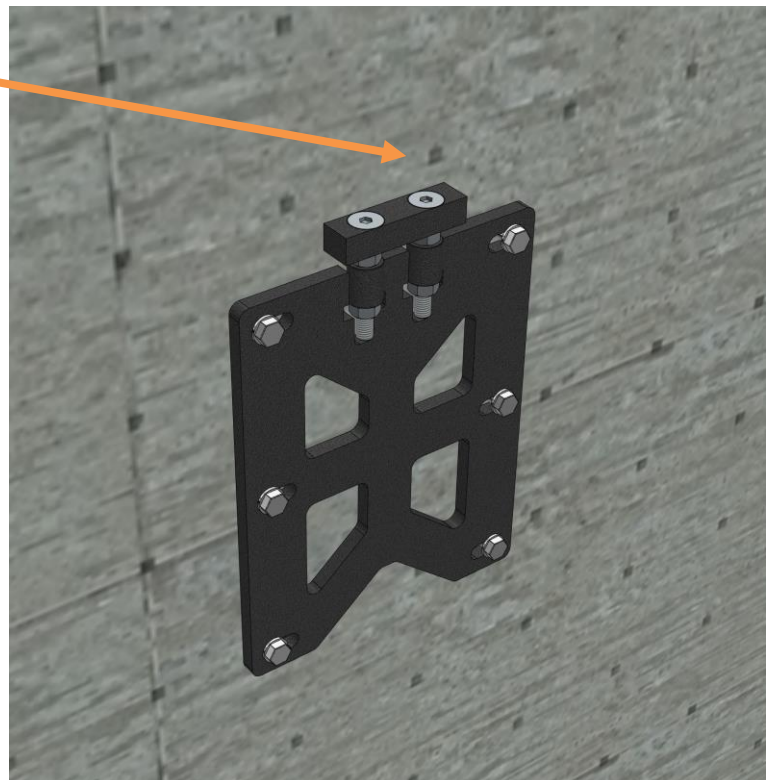
PLEASE NOTE: Pay maximum attention during the first climbing cycle, INCORRECT fastening of the flat cable could lead to its tearing with irreparable consequences!

28. FALL ARREST SYSTEM ADJUSTMENT



Fix the support to the wall, making sure that there are no interference with the platform during the ride (both empty and fully loaded)

Use the adjusting screws to adjust the hook for correct support.





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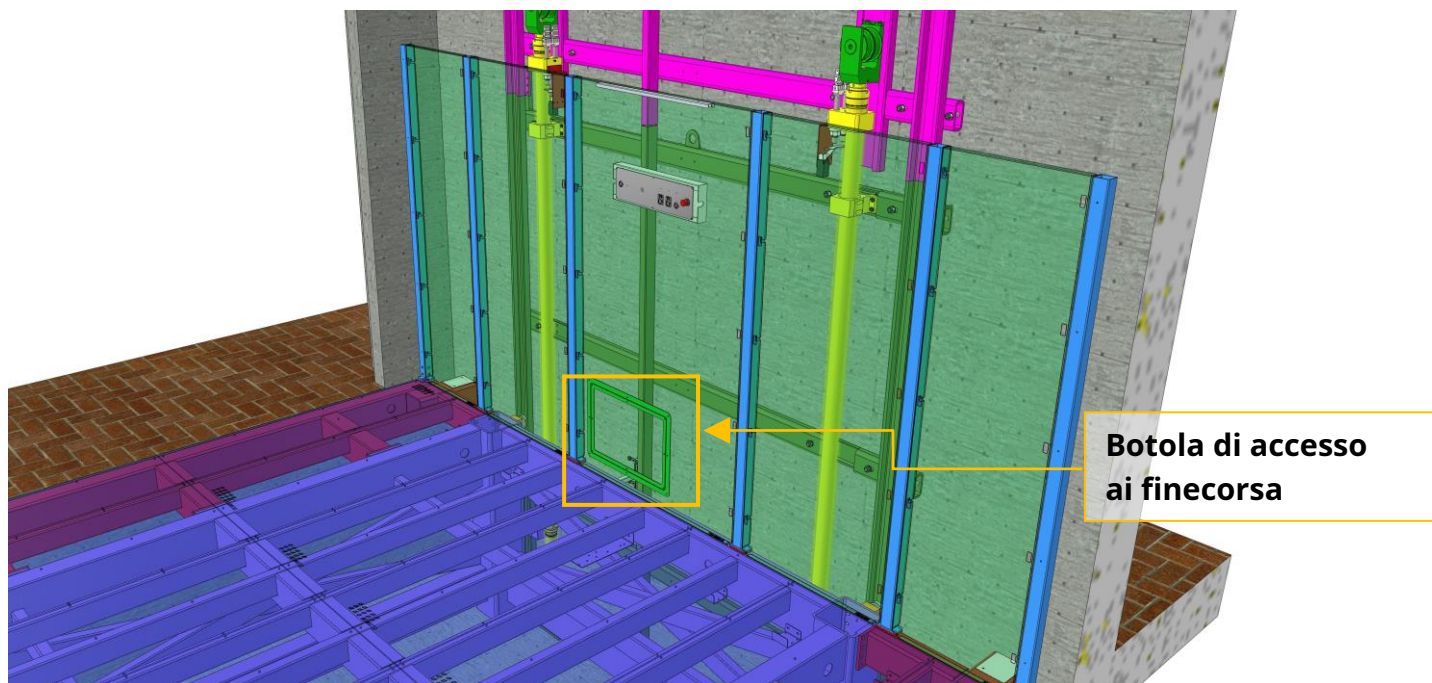
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29. PROTEZIONI PERIMETRALI E CARATTERISTICHE DEL VANO CORSA

La macchina per essere utilizzata deve essere inserita in un contesto idoneo completo di tutti i requisiti di sicurezza indicati nella direttiva macchine. La direttiva rimanda dove possibile a seguire norme armonizzate al fine di mettere in servizio una macchina conforme. A tal proposito indichiamo di far riferimento alla norma UNI EN ISO 13857 per la predisposizione delle protezioni perimetrali.

- Il vano corsa deve essere completamente chiuso su tutti i lati, per tutta la corsa del montacarichi.
- Altezza della protezione al piano superiore deve essere di almeno 1100mm.
- Le pareti di tamponatura devono essere solide, pareti cieche o in rete metallica a maglia fitta 12x12mm, non devono permettere il passaggio delle dita.
- Le pareti del vano corsa devono essere lisce, senza rientranze o sporgenze, la distanza tra la parete e il pianale di carico può variare da 20mm a 40mm
- Gli accessi del vano corsa devono essere protetti da opportune porte di piano controllate elettricamente.
- Nel caso di sporgenze comprese tra $0 < 150$ è indispensabile eseguire uno smusso a 45° sulla zona di schiacciamento. Inoltre il pianale di carico dovrà essere provvisto di fotocellule di protezione.
- Nel caso di una sporgenza < 150 mm il pianale di carico deve essere provvisto di una chiusura fissa.

30. POSIZIONAMENTO SENSORI PER STOP AI PIANI



Posizionare accuratamente la piastrina zincata assicurandosi che all'arrivo al piano la piattaforma stia cliccando il finecorsa di stop verso il basso.

N.B. L'arresto del pianale di carico presenta un leggero ritardo programmabile, consentendo così l'appoggio meccanico sui ganci e lo scarico delle catene.

**Finecorsa
Rallentamento**

**Finecorsa di
STOP al piano**

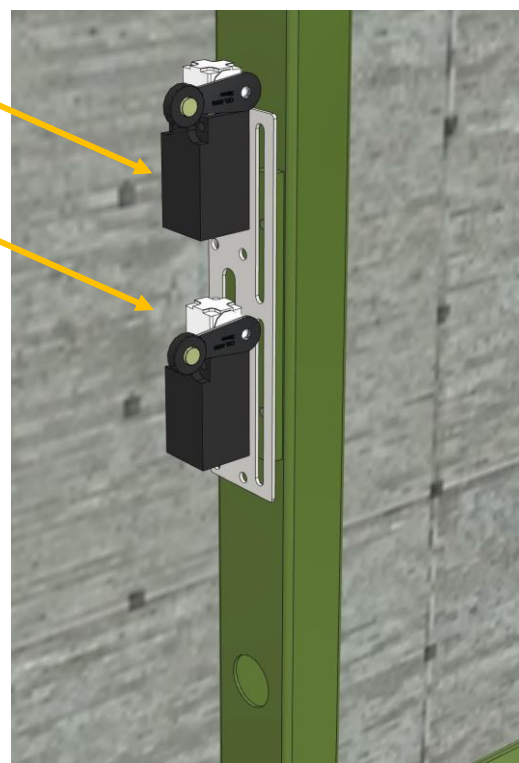
Arrivo al piano basso :

- Click verso il basso del FC rallentamento: rallentamento + apertura ganci
- Click verso il basso del FC di stop: Fine ciclo

Arrivo al piano alto :

- Click verso l'alto del FC di stop: prosegue in extracorsa
- Click verso l'alto del FC rallentamento: rallentamento + apertura ganci
- Click verso il basso del FC di stop: Fine ciclo

N.B. Al piano alto il montacarichi effettua un extra corsa per l'apertura dei ganci di appoggio, abbassandosi poi al piano. Quindi, il primo click sul sensore inferiore non viene letto



31. PORTE AI PIANI

Le porte installate ai piani devono soddisfare le seguenti caratteristiche:

- Le porte possono essere di tipo a battente di piano da ascensore/montacarichi, con elettroserratura integrata (tipo tieffe , *kronenberg*, *prudhomme*) o elettroserratura esterna, l'apertura deve avvenire anche dall'interno del montacarichi per evitare rischi di imprigionamento della persona (vedi figura 1).



Standard multipurpose door application

- Le porte possono essere di tipo multiuso standard con maniglie da entrambi i lati, devono mantenere una distanza massima dal pianale di carico di 15cm con smusso di 45° sullo stipite superiore. (vedi figura 3)

This type of door must not be spring-loaded to prevent accidental closing.

External electric security locks must be installed on these doors.

- Multipurpose doors must be installed level, preventing them from accidentally closing. The internal handle must not interfere with the floor of the lift (see figure 2).

- Doors must be solid, completely closed or have a fine mesh as per UNI EN ISO 13857 standard

- Doors must not have gaps that allow the passage of hands, fingers or feet (ref. UNI EN ISO 13857 standard).

- Doors must be equipped with an integrated or external electric lock, securely attached to the door leaf (follow the manufacturer's instructions); external electric locks must be mounted on the upper part of the door, so that they are not easily accessible.

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- The doors can be of the "garage door" type with handles on both sides, to allow opening from both sides.

They must maintain a maximum distance of 15cm from the loading platform, with a 45° bevel on the upper jamb.

External electric security locks must be installed on these doors. The automation of these doors must be interfaced with the UpDinamic PLC, so that it is active only when the loading platform is stationary on the floor.



Sectional door application on the courtyard floor



Sectional door application in the basement



Vertical door application



If you have a retractable vertical gate installed on the upper floor, **MAKE SURE** to position the loading platform on the upper floor before definitively turning off the system.

In the event of prolonged machine downtime, the vertical gate may lower a few centimetres.

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APPLICATION OF FS ELECTRIC LOCKS ON MULTIPURPOSE DOORS

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APPLICATION ON EI (REI) DOORS, WITHOUT DRILLING

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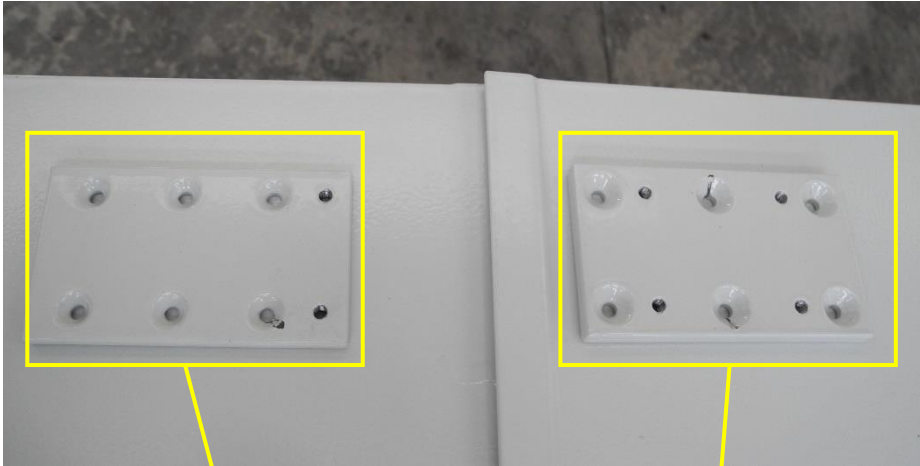
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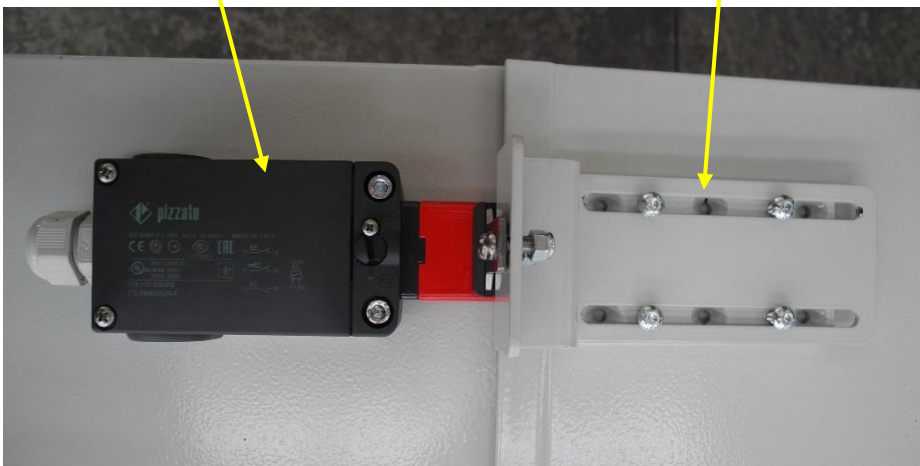
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LOCK PREPARATION ON FIRE DOORS EI60-120

To prepare the locks on REI doors, through holes must not be made

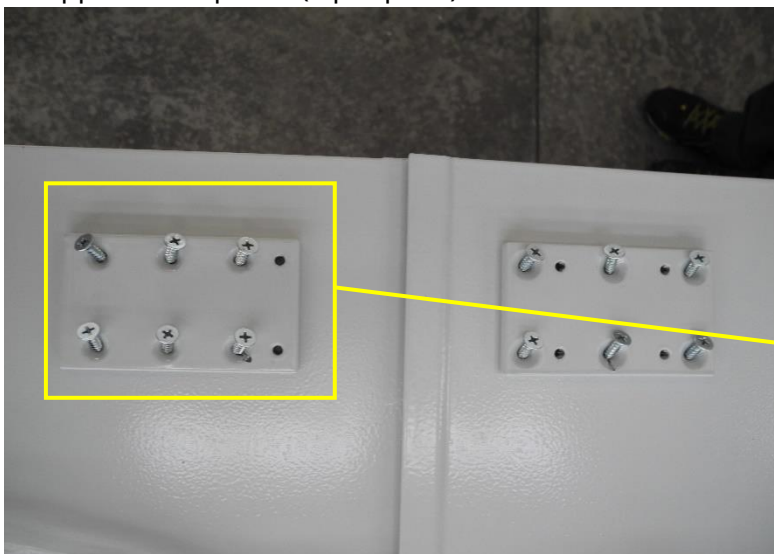


Place the two plates supplied on the top of the door, approximately 30-40 mm from the top edge, in the active leaf place the plate on which the bracket with actuator will be installed (8 mm thick, 4 M5 holes) on the second the plate for the lock (6mm thick 2 M5 holes).



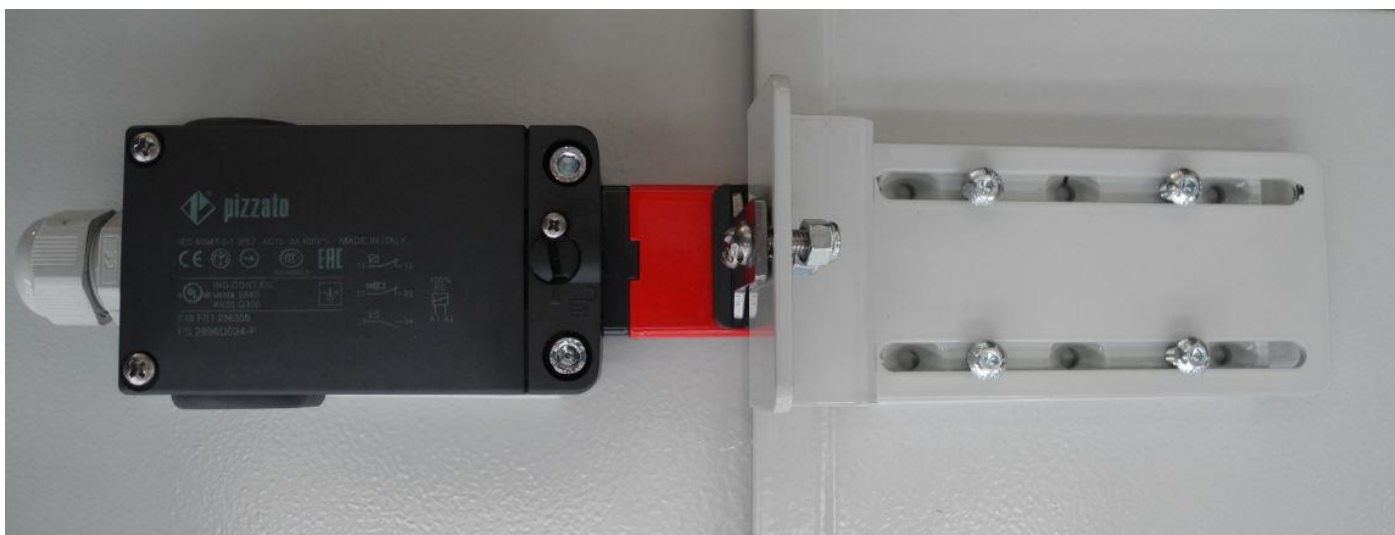
Prepare the lock and the actuator bracket once you have checked that there is no interference and that the brackets are in the correct position, proceed to fixing the two plates.

Proceed to fix the plates to the doors exclusively with screws **Self-tapping cross TSP D.4.8x16** supplied with plates (6 per plate).



Install the lock and bracket with the supplied M5 screws No. 2 for the plate with the lock No. 4 for the plate with bracket and actuator

Install the channel to the door using the appropriate adhesive strips, without drilling the door.



Proceed with the adaptation of the electric locks in accordance with UNI EN ISO 14119:2013.

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32. ADAPTATION OF ELECTRIC LOCKS IN COMPLIANCE WITH UNI EN ISO 14119:2013 STANDARD

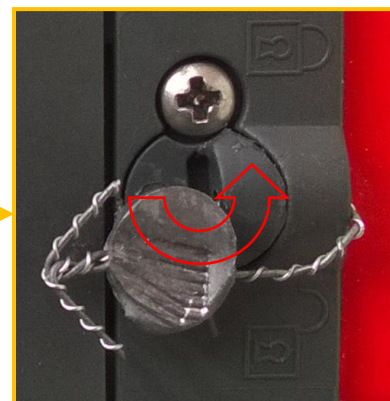
In order for the system to comply with safety regulations, the following modifications must be made to the interlocking devices.

Connect the 6x0.5 cable as per the diagram provided (if the system needs to be adapted, the old 4x0.5 cable will need to be replaced)

11 Rose	12 Grey	Coil energized signal
21 Green	22 Yellow	Closed door signal Preliminary
A1 White	A2 Brown	Coil power supply 24V DC

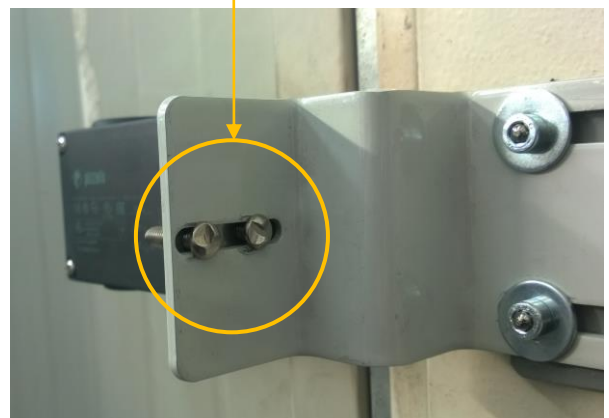
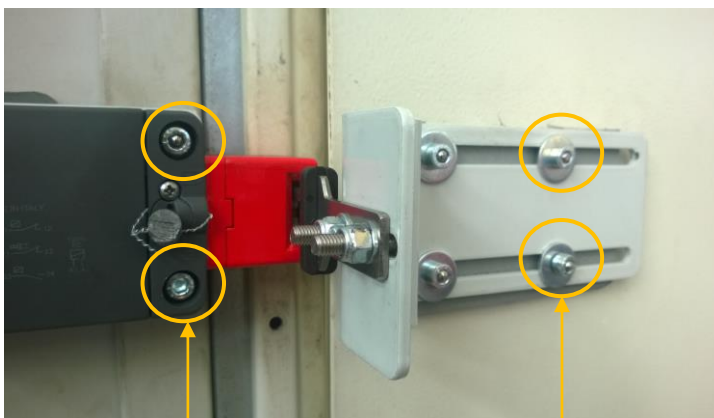


After testing the system, seal the lock to prevent it from unlocking and make sure to keep the cursor in shape.



To fix the actuator use OneW screws
(M5 anti-unscrewing screws and self-locking nuts

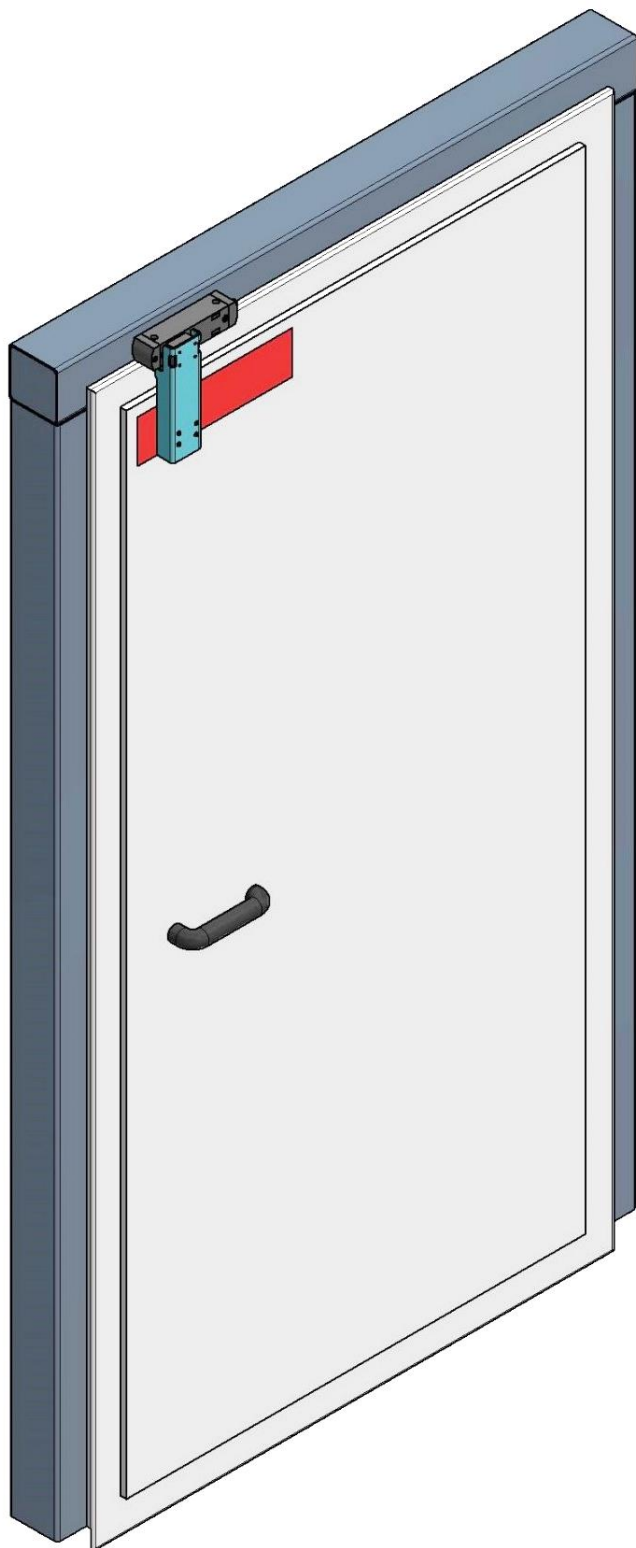
ay provided
you)



Only after having checked the correct functioning of the locks, insert the balls supplied to prevent the screws from unscrewing and therefore the removal of the locks and the actuator (use nuts self-locking)

33. APPLICATION OF NS ELECTRIC LOCKS ON MULTIPURPOSE DOORS

ELECTRIC LOCKS *NS D4AZ1SMK-F41* ON 1-LEAF DOORS PROVIDED BY UPDINAMIC



On the doors supplied by Updinamic it is foreseen a reinforcement **internal** to ensure fixing of the locking device (in the image it is represented in red).

NB: Check that all fixing holes are within the measures in which it is reinforcement expected

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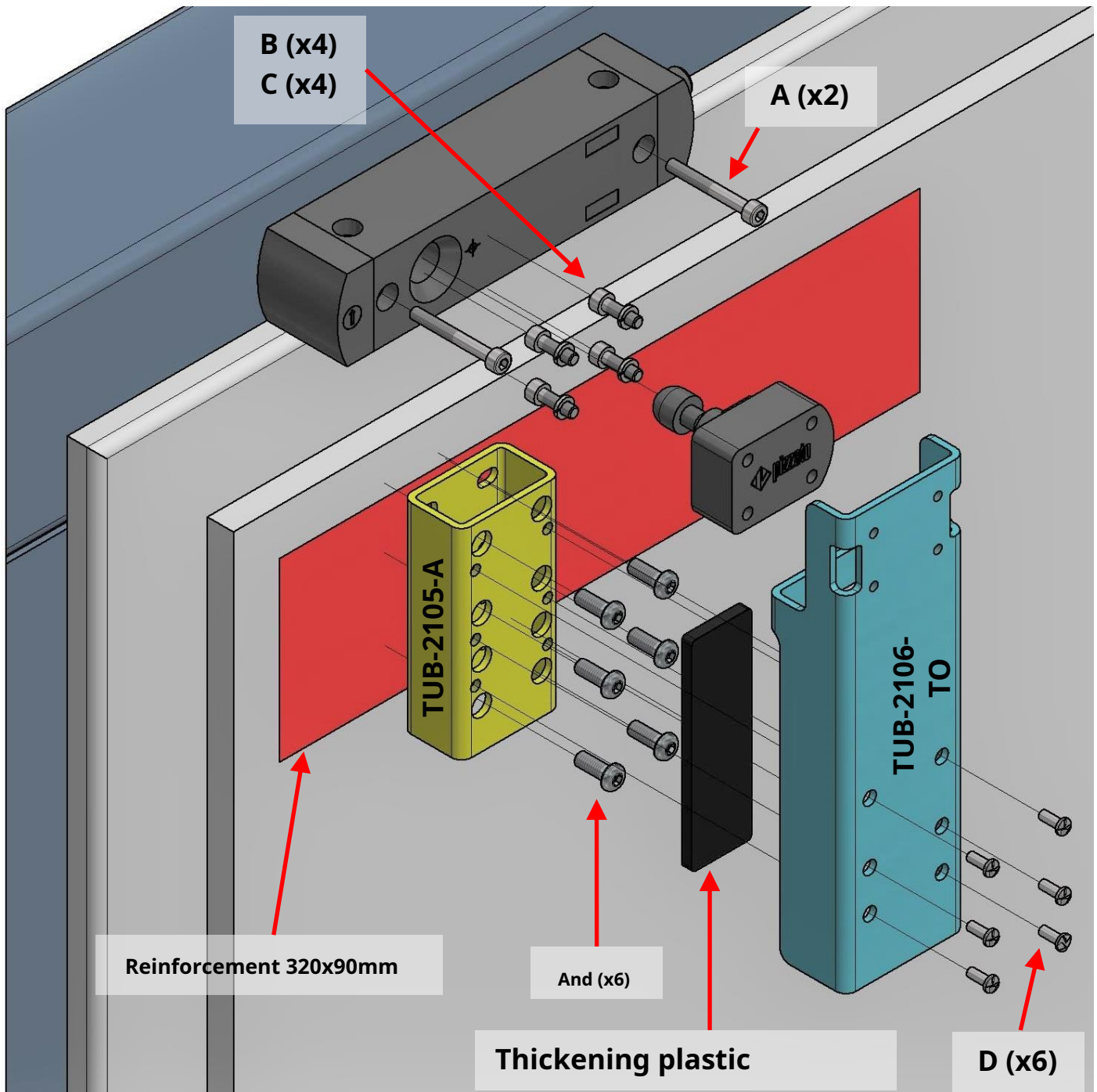
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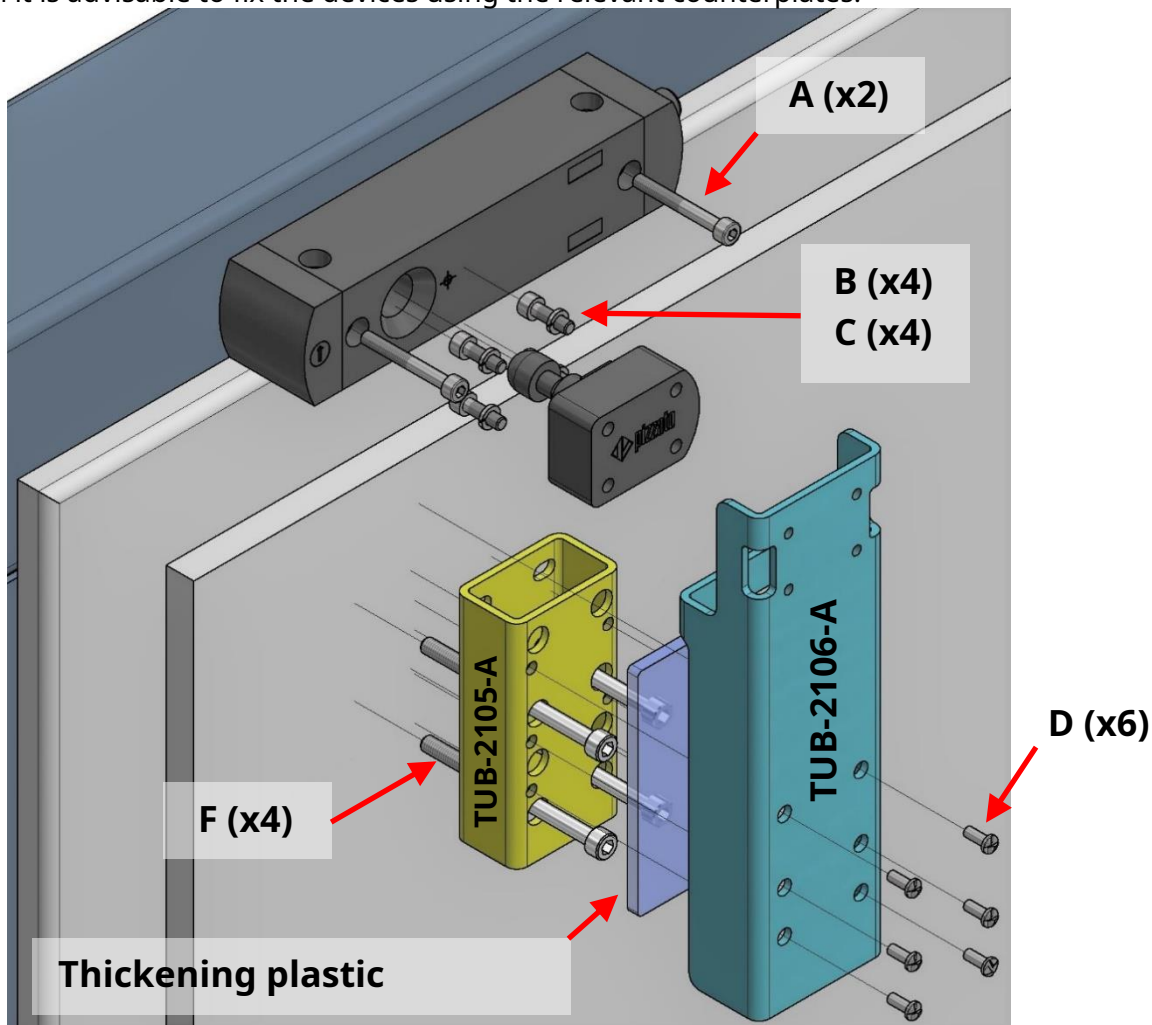
Door details supplied by Updinaric:



ELECTRIC LOCKS *NS D4AZ1SMK-F41* ON 1-LEAF MULTIPURPOSE DOORS

The standard doors not provided by Updynamic they do not have reinforcement for fixing the locks

For this reason it is advisable to fix the devices using the relevant counterplates.



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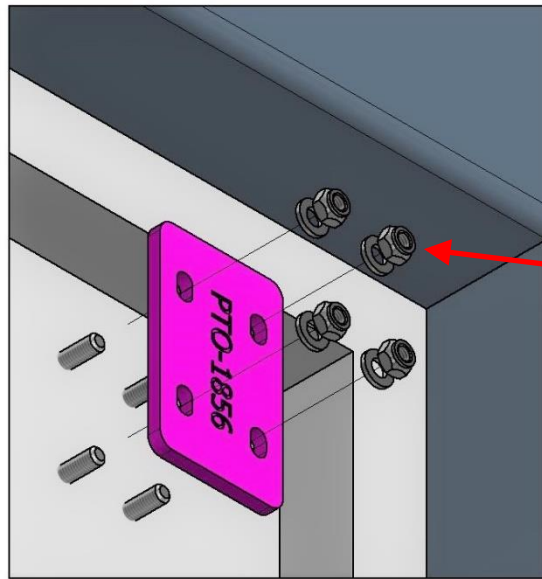
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Inside view
freight elevator



ELECTRIC LOCKS NS D4AZ1SMK-F41 ON 1-LEAF REI DOORS

The King's Gates not provided by Updynamic They lack the reinforcement for securing the locks. For this reason, it is advisable to use the self-drilling screws provided.

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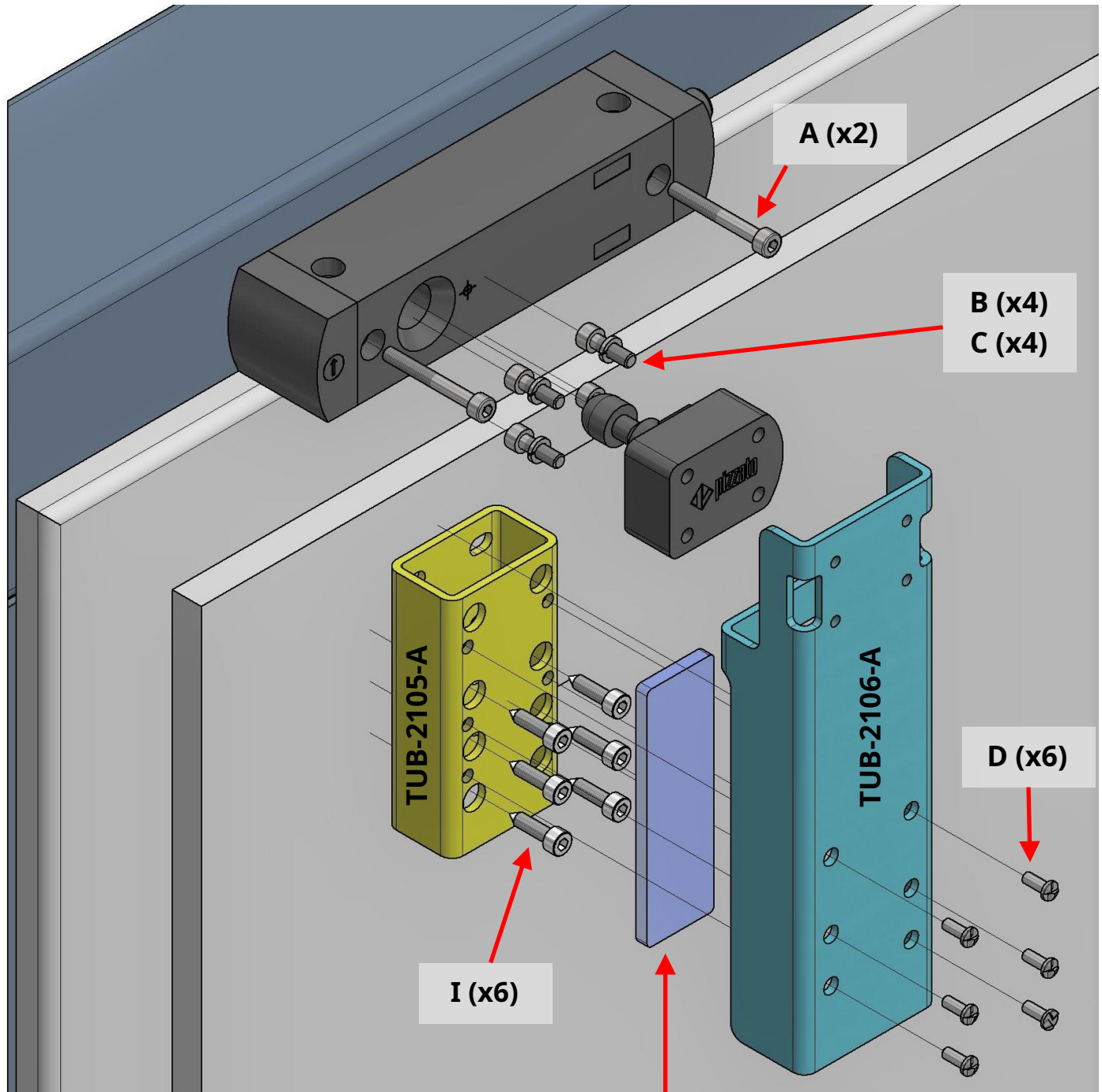


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Thickening plastic

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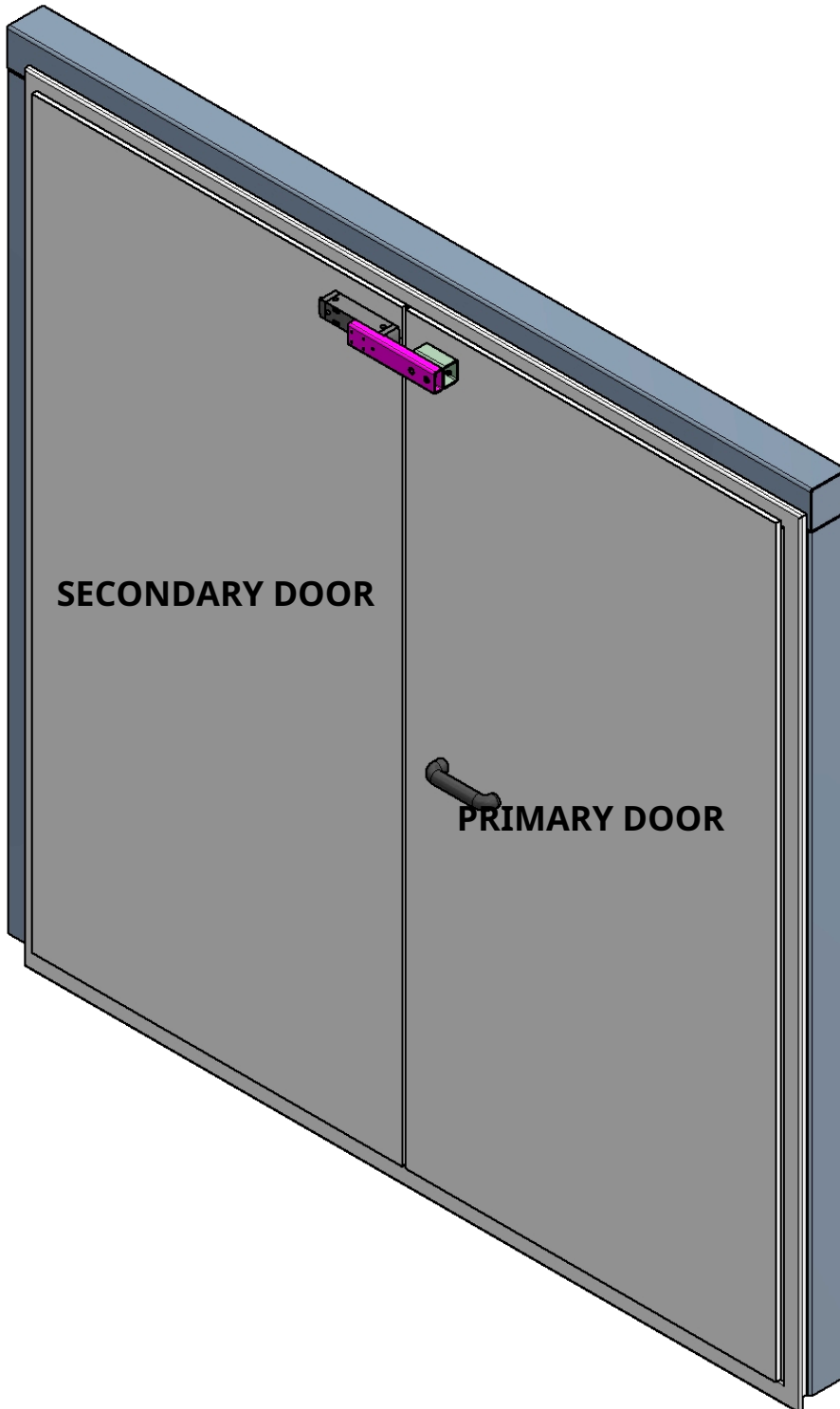
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ELECTRIC LOCKS *NS D4AZ1SMK-F41* ON 2-LEAF DOORS PROVIDED BY UPDINAMIC



The doors supplied by Updinamic are provided with an internal reinforcement to ensure the fixing of the locking device.

**PRIMARY DOOR =
Graft Fixing**

**SECONDARY DOOR =
Electric Lock Fixing**

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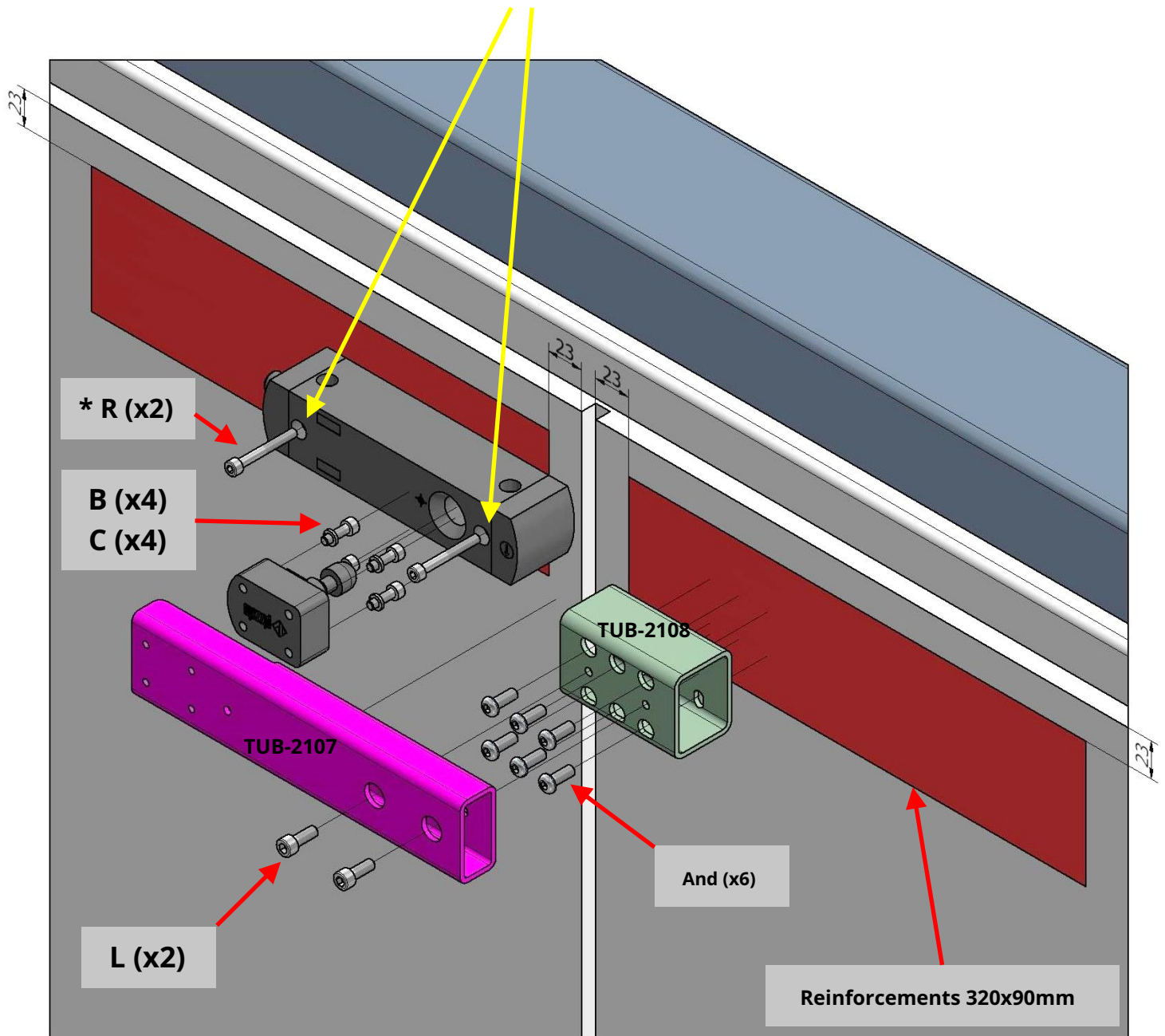
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Door details supplied by Updinamic:

*** R (x2)** Self-tapping screw TCEI 4.8x45 ZN

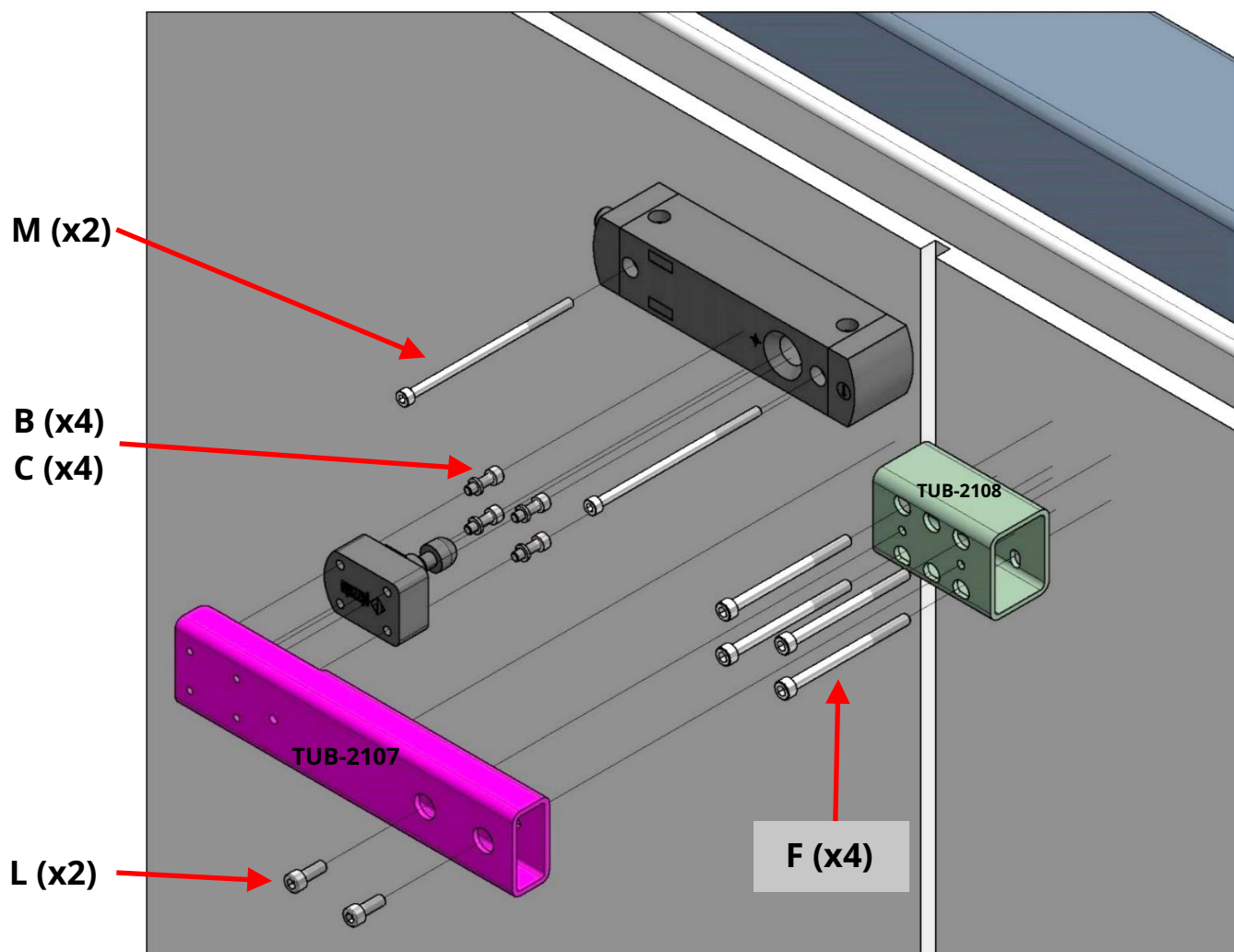
IMPORTANT: PRE-DRILLING MAX Ø2mm TO ENSURE THE SEAL OF THE SCREWS



ELECTRIC LOCKS *NS D4AZ1SMK-F41* ON MULTIPURPOSE 2-LEAF DOORS

The standard doors not provided by Updinamic they do not have reinforcement for fixing the locks

For this reason, it is advisable to secure the devices using the relevant counterplates to ensure correct functioning over time.



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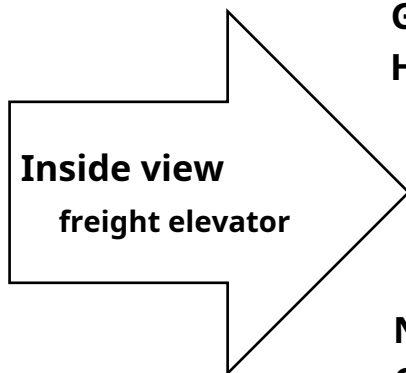


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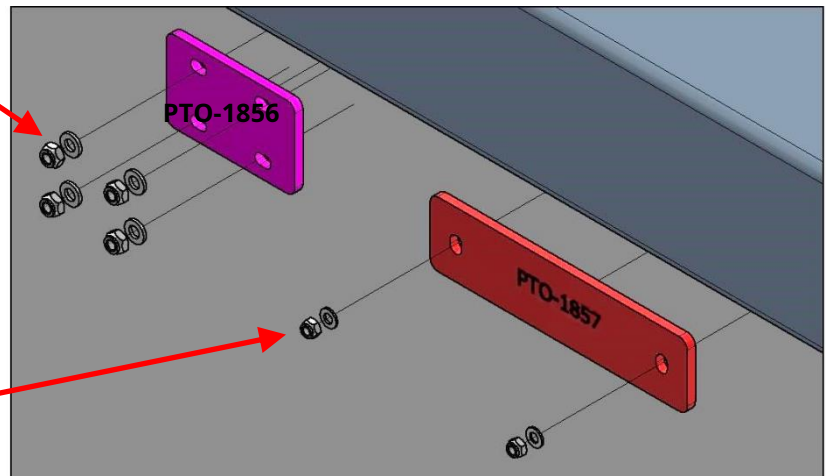
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**Inside view
freight elevator**

**G (x4)
H (x4)**

**N (x2)
O (x2)**



ELECTRIC LOCKS *NS D4AZ1SMK-F41* ON 2-LEAF REI DOORS WITH EXTERNAL REINFORCEMENTS

The King's Gates not provided by Updinamic They lack the reinforcement for securing the locks. For this reason, it's advisable to use the self-drilling screws and additional brackets provided, which will ensure the device's proper functioning over time.

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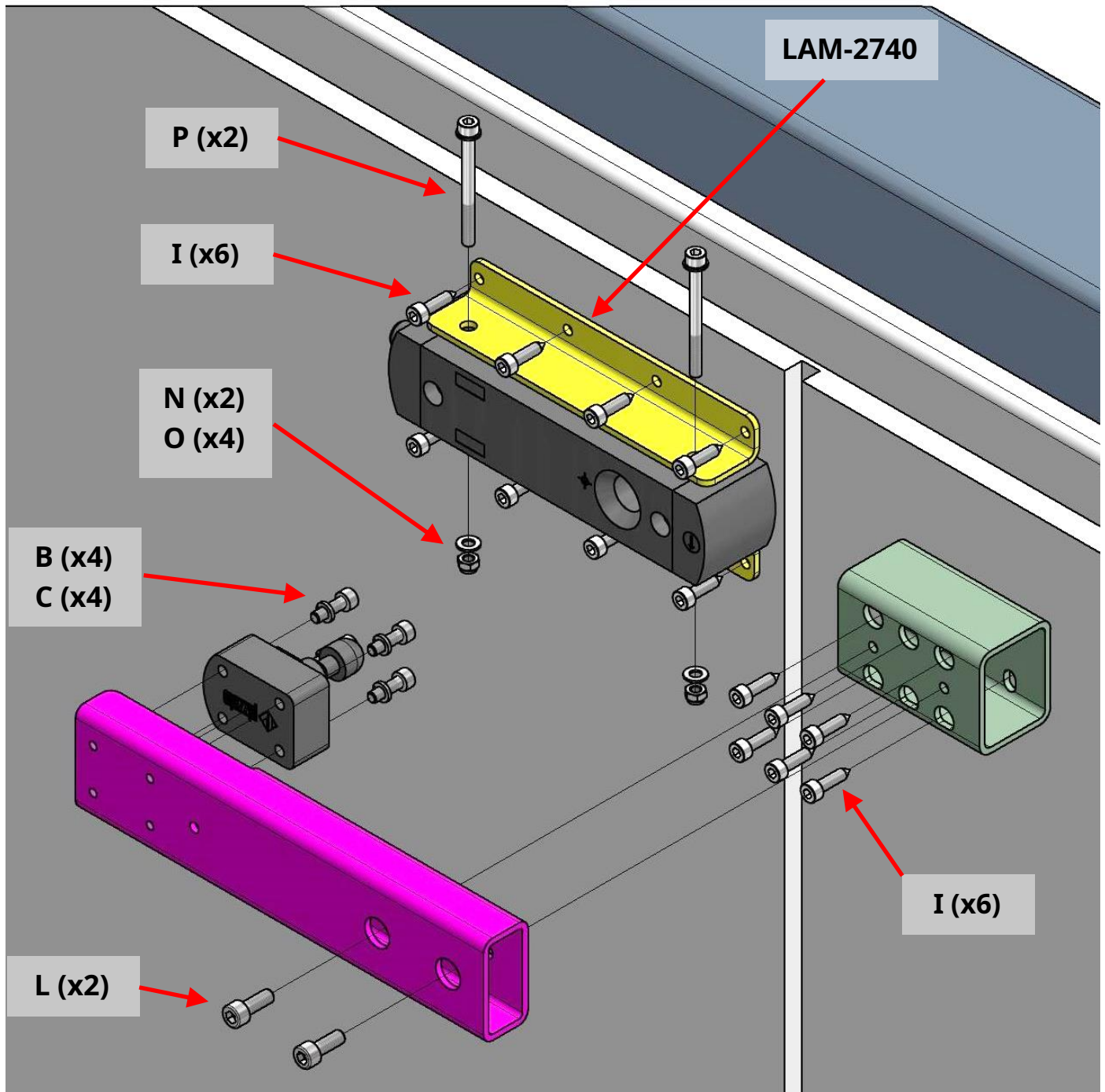


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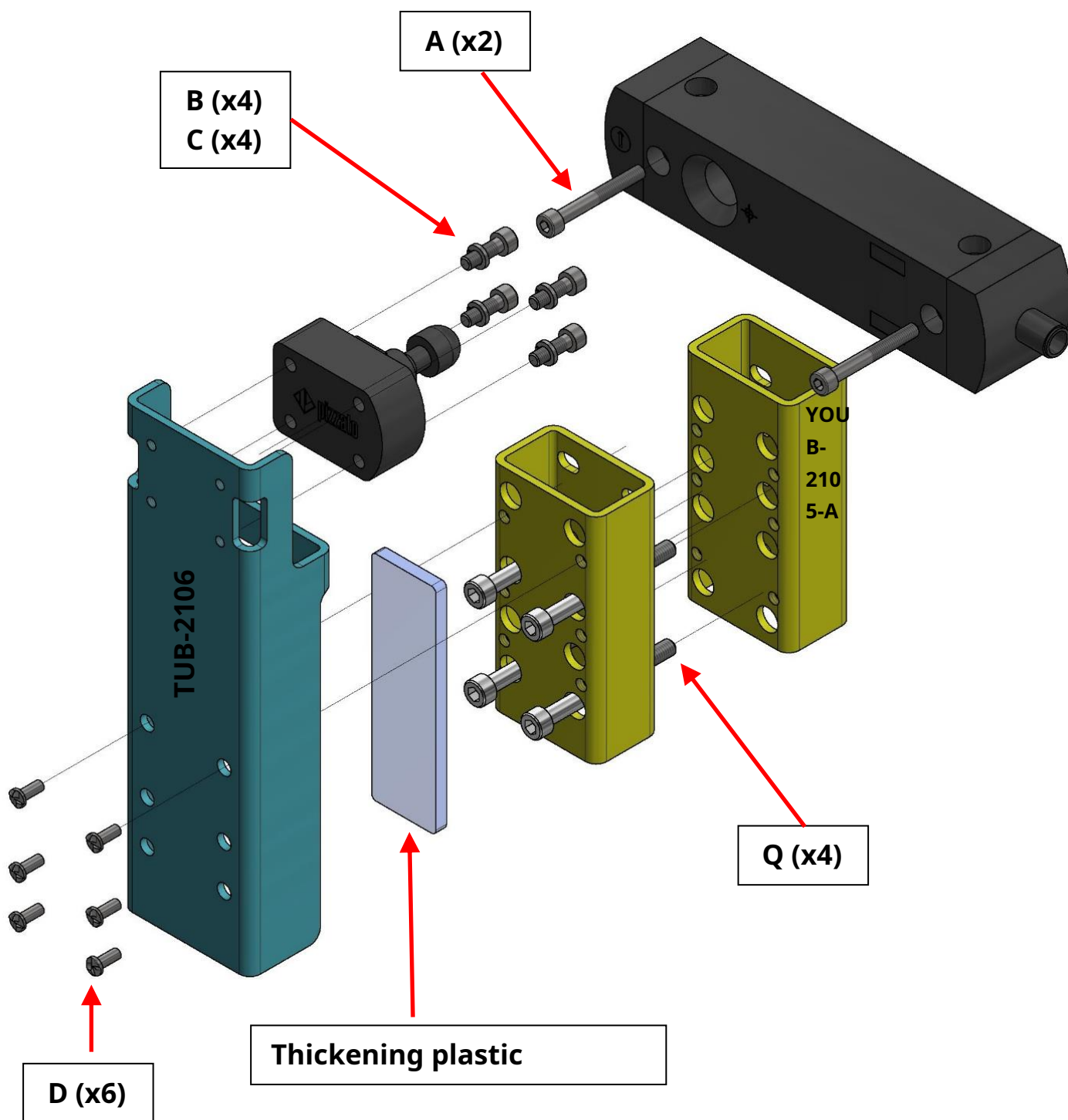
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ELECTRIC LOCKS NS D4AZ1SMK-F41 COPLANAR FIXING



APPLICATION OF CAPS AND SAFETY ADHESIVE

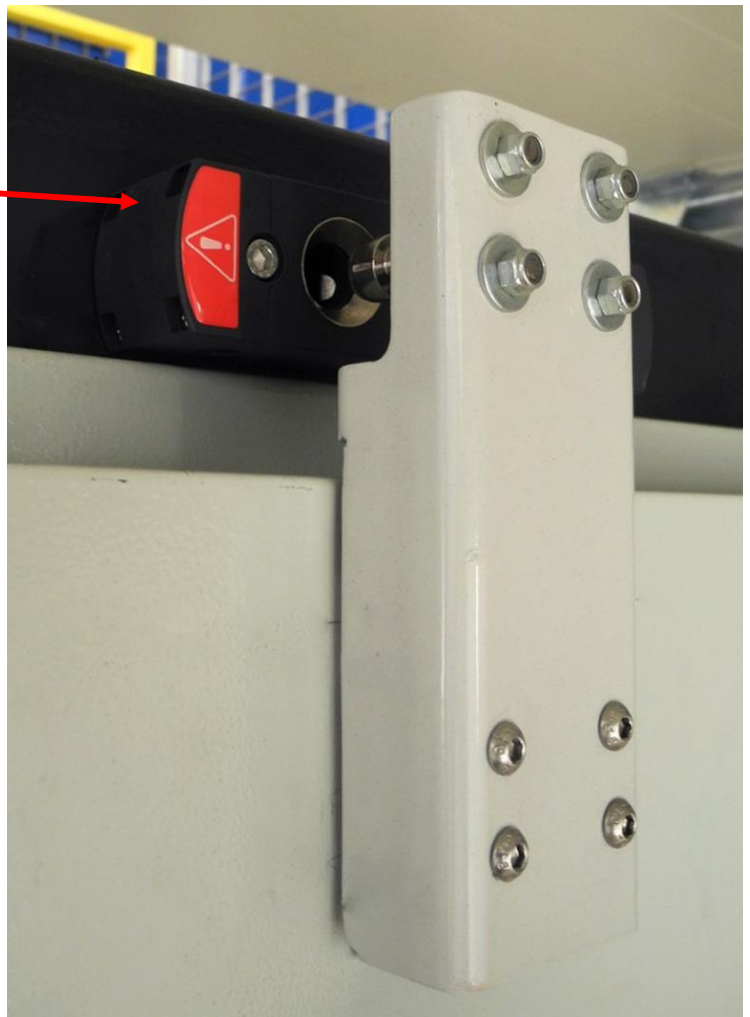
Check that the devices are securely attached by opening and closing the doors several times.

Only after having carried out the testing and before delivering the system to the user, insert all the supplied caps and, in the case of the single-leaf door, apply the adhesive as shown in the image below.



ATTENTION The caps and the sticker provided must be applied to prevent the lock from being unlocked by unauthorized personnel.

Sticker applied to prevent the lock from being opened by staff





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Legend Screws supplied:

A= TCEI screw M5x40 ZN

B= TCEI M5x16 Stainless Steel Screw (Supplied with the device)*NS D4AZ1SMK-F41* C=

Grower washer for M5 ZN screws

D= One Way M6x25 Stainless Steel Screw E=

TBEI M6x10 Stainless Steel Screw

F= TCEI screw M6x80 ZN

G= Low self-locking nut M6 ZN H=

Washer for screw M6 ZN

I= TCEI self-tapping screw 4.8x19 ZN L=

TCEI screw M6x20 ZN

M= TCEI screw M5x110 ZN N=

M5 self-locking nut ZN O=

Washer for M5 screw ZN P=

TCEI screw M5x55 ZN

Q= TCEI screw M6x50 ZN

R= Self-tapping screw TCEI 4.8x45 ZN

Check the safety series:

If both CH1 LED and CH2 LED are off

1. Preliminary operations:

1.10 The unlock slider must be in position

"Blocked"

1.20 The connector must be rotated correctly (RFID)

1.30 The graft and devices must be matched (not they can exchange the grafts because they have a reader high RFID encoding)

1.40 The connector PINs must not be bent/broken

1.50 Graft inserted correctly

1.60 Check the connections of the Pizzato CS AR-08 on the main board

1.70 Check the Pizzato NS connections on the board principal



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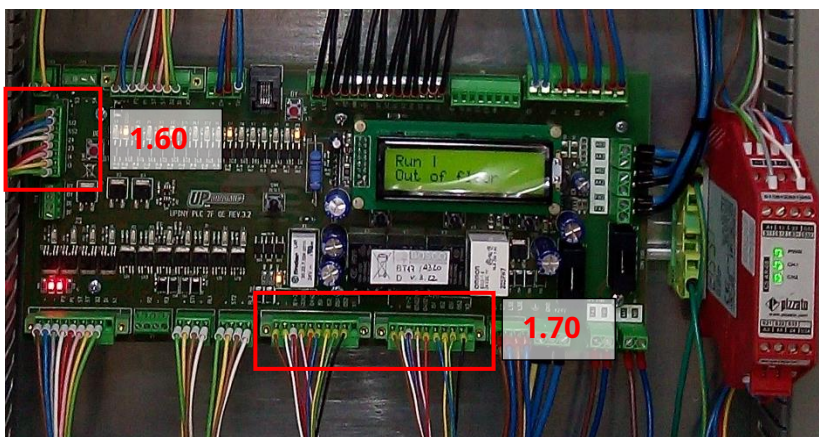
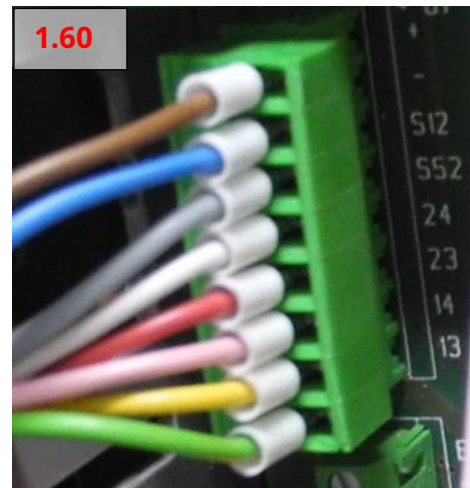
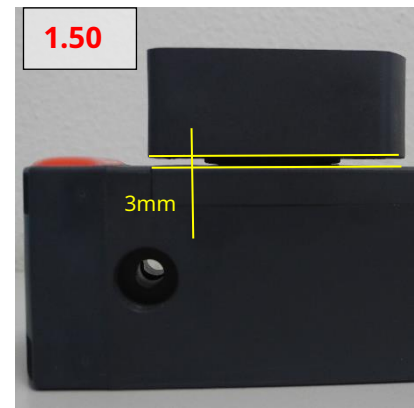
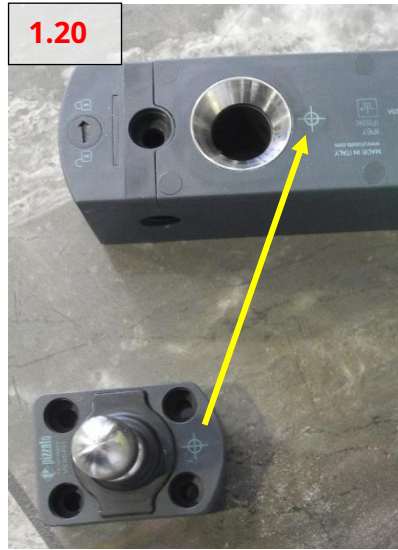


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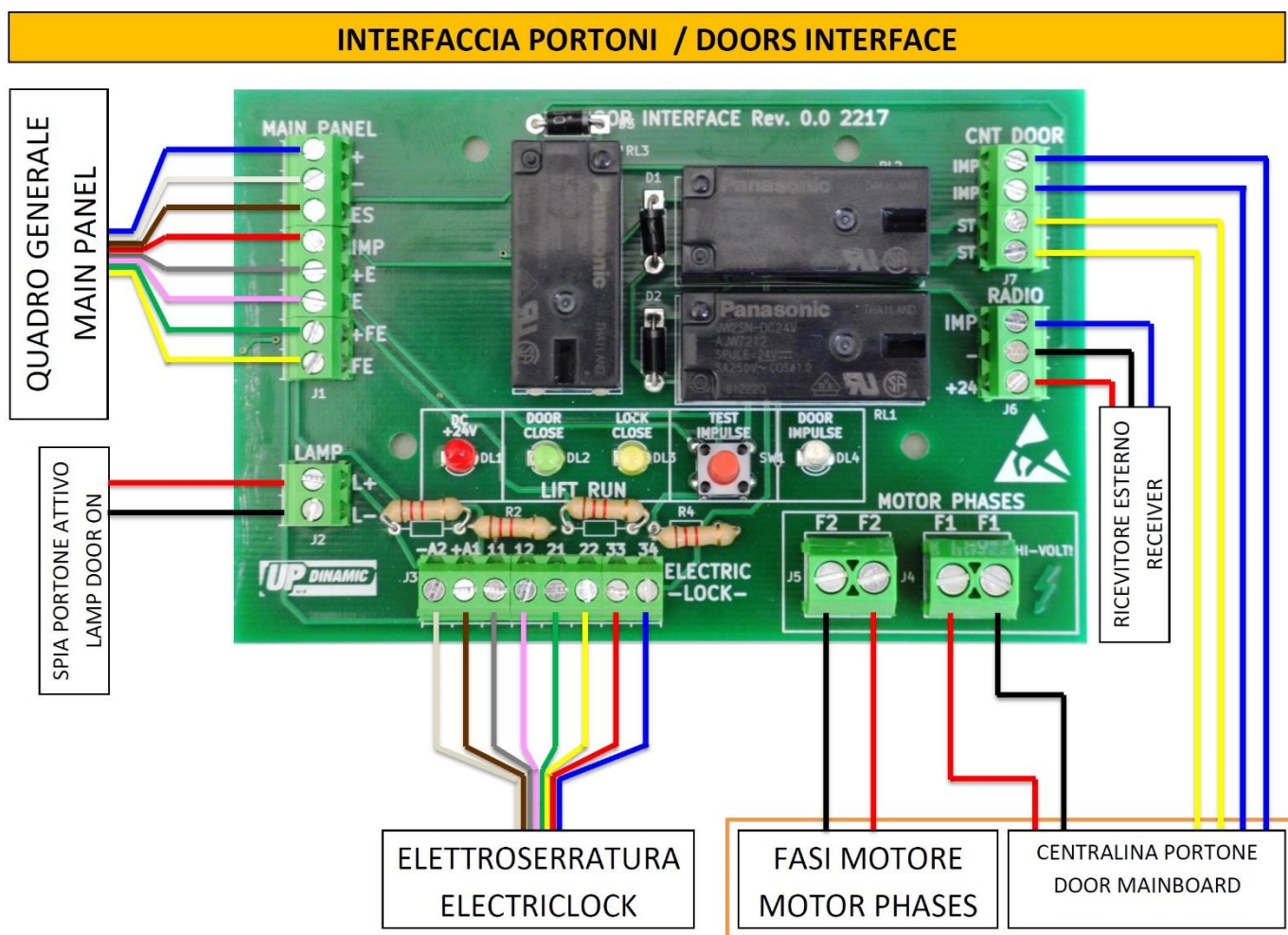
34. DOOR INTERFACE (only with automatic doors)

Connect the gates using the provided interface.

Interface card functions:

- Interlocking device connection (electric lock)
- Connecting the door motor phases to prevent it from being operated when the system is out of level
- Opening signal connection (IMP) to prevent the opening/closing signal from being sent when the system is out of plan
- Management of the door STOP contact (ST) to block the door with the system out of level
- Transmitter connection for managing the opening signal
- "Active door" lamp connection

CONNECTION AND ELECTRIC LOCK PIZED



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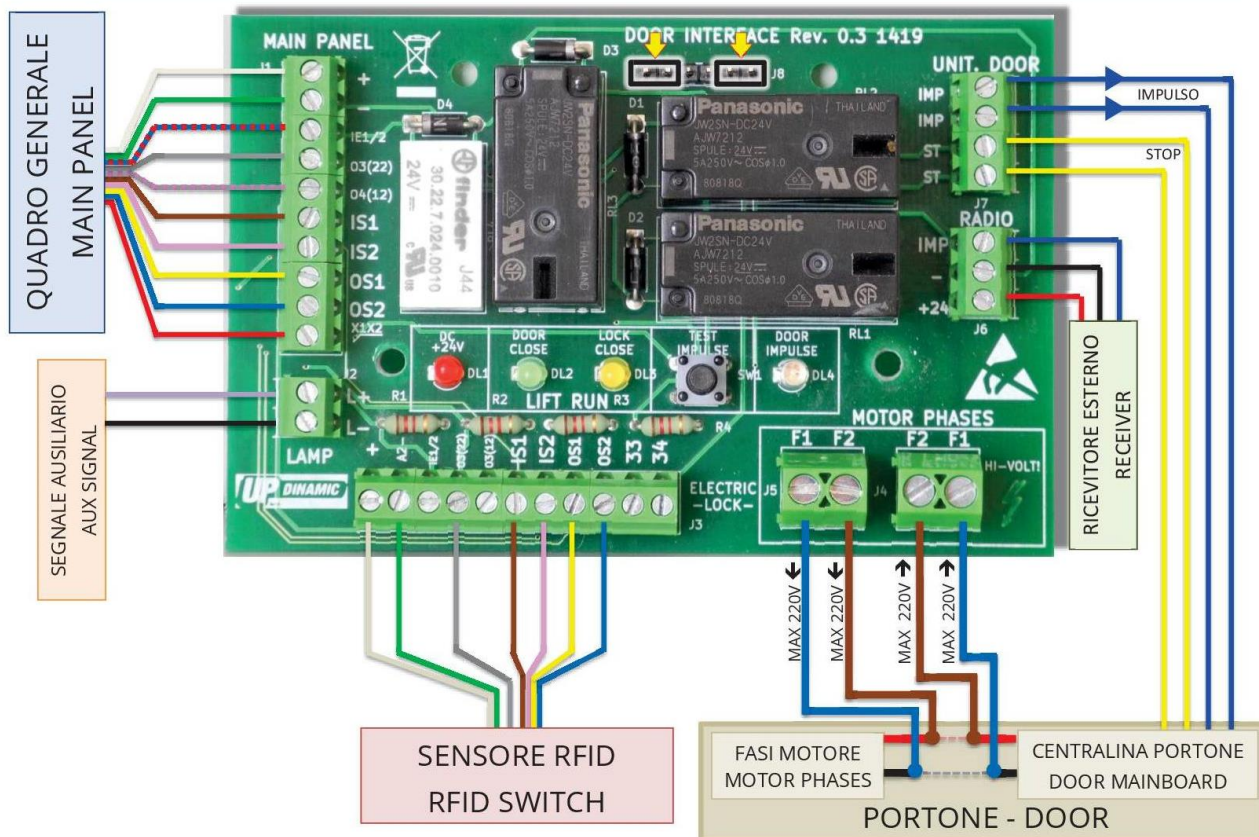
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CCONNECTIONSSENSORRFID PIZED

INTERFACCIA PORTONI + RFID - DOORS INTERFACE + RFID





35. STARTING THE GOODS LIFT

PRELIMINARY CHECKS BEFORE START-UP

Check the hydraulic system: it is necessary to check the correct installation of each component of the hydraulic system (pipes and fittings well connected and tightened)

Check the electrical system: it is necessary to check that the supply voltage is compatible with that required by the machine's components.

TANK FILLING

The hydraulic unit's tank must be filled with Wladoil Engine HY SY hydraulic oil. It is important to use special filters that prevent the entry of polluting particles. To operate the system, the oil level must be above the minimum level indicated on the tank.

Wladoil Engine HY SY (approximate average characteristics)

- Density at 15°C:	0.852
- Viscosity cSt 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:	96
- DIN 51 524 HLP classification:	22

INSTRUCTIONS FOR STARTING THE GOODS LIFT

Commissioning and start-up operations must be carried out after completing:

- plumbing connection
- electrical system connection and connection to the user's electrical network

The start-up process helps to bleed and completely fill the hydraulic circuit with oil. Air bubbles inside the circuit can be harmful and cause instability during movement.

Required equipment: Control panel installed
Checks during start-up phases:

- Check the correct direction of rotation of the electric motor
- Calibrate the pressure level according to the load
- Pay attention to the noise
- Constantly monitor the oil level
- Check for leaks along the hydraulic circuit
- Check correct hook-release fall arrest system



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START-UP

Start-up operations must be carried out only by the manufacturer or by personnel authorised by the latter.

- The start-up must be carried out only after having checked that all the components are assembled correctly and that the system is ready for use.
- It is necessary to check that the characteristics of the electrical network comply with those provided by the system.
- Check the correct fluid level in the electro-hydraulic power unit reservoir and that the oil used is suitable for the type of application. For filling it is necessary equip yourself with a filling and filtering unit to prevent the intrusion of particles foreign in the system.
- Make sure that the fluid temperature never exceeds 60°C

OVERLOAD TESTS

Check system load performance according to regulation 2006/42/EC Static overload

test : - Place the platform on the lower level

- Load a weight equal to 125% of the maximum capacity allowed for that model of lift
- Check the perfect integrity and static condition of the machine
- After a few minutes, remove the load

Dynamic overload test : - Place the platform on the lower level

- Load a weight equal to 110% of the maximum capacity allowed for that model of lift
- Bring the lift to the upper floor (using the external button panel)
- Check the perfect integrity of the machine and the correct alignment of the platform to the floor
- Return the lift to the lower floor (using the external button panel)
- Remove the load

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36.

OPERATING LOGIC

37. LUBRICATION AND GREASING OF MECHANICAL PARTS

Lubricate bearing guides, cylinder guides and chains.



38. UNLOCKING THE FLOOR DOORS:

If, for unforeseen reasons, it is not possible to open the floor doors equipped with external electric locks with simple manual effort, you can proceed as follows:



NB: this operation must be performed only with the platform corresponding to the floor from which you wish to access!

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

- electric lock release, it is possible to manually release the non-powered electric lock by following these instructions:



unscrew the locking screw



with a simple screwdriver rotate the cursor in the "locked" position to "open"

- Open the landing door normally.



NB: once the operation is finished, reposition the cursor to the "locked" position and screw the locking screw back in

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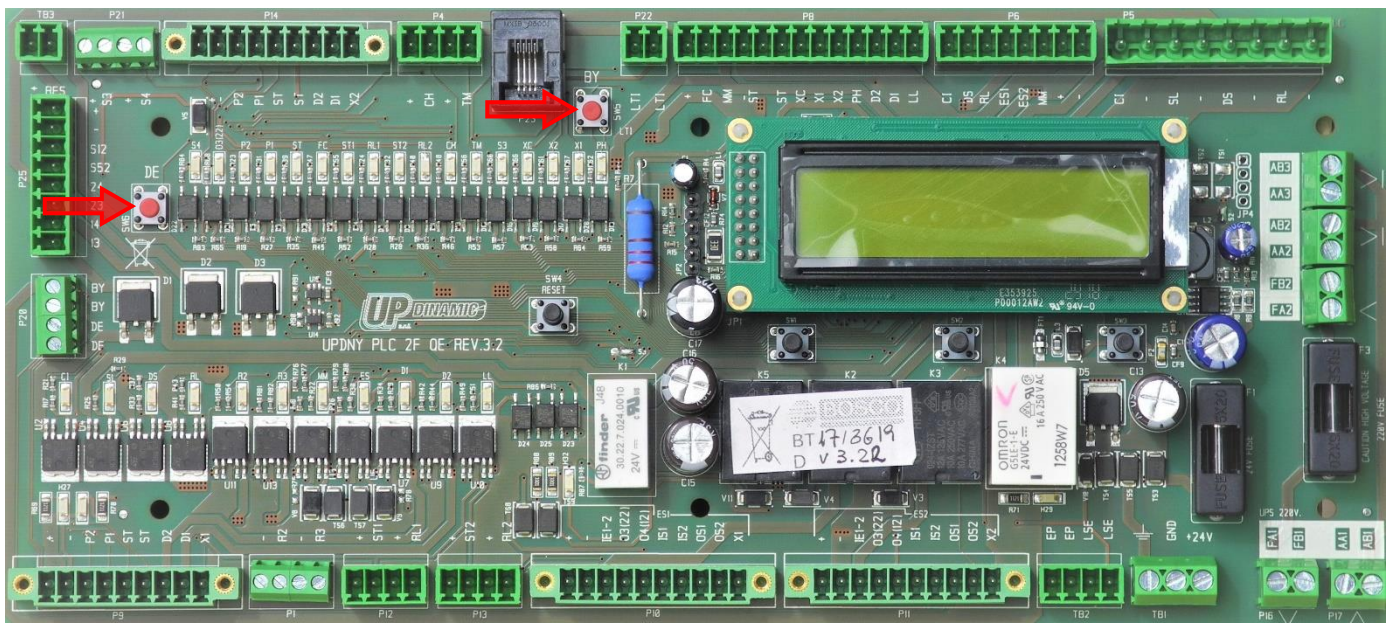
39. EMERGENCY MANOEUVRE (FOR AUTHORIZED PERSONNEL ONLY)

VALID FOR 2-STOP SYSTEMS

For the maintenance and installation of elevators and freight elevators, Article 15 of Presidential Decree 162/99 requires that the owner of the system be required to employ a person with a certificate of qualification.

(LETTER "F") issued by the prefecture.

To perform an emergency descent, press **at the same time** the two buttons indicated by the arrows



BYPASS BUTTON (BY)

What the BY button excludes:

- Closed door contact bypass
- Bypass stop
- Photocell bypass
- Emergency stop bypass

DESCENT BUTTON (DE)

Powers the hold-open control descent valve



WARNING: NO SAFETY DEVICES ARE ACTIVE DURING THE MANOEUVRE

Wait for the platform to arrive on the lower floor, the board display will indicate the arrival of the platform on the lower floor

VALID FOR 3/4/5-STOP SYSTEMS



For the maintenance and installation of elevators and freight elevators, Article 15 of Presidential Decree 162/99 requires that the owner of the system be required to employ a person with a certificate of qualification.

(LETTER "F") issued by the prefecture.



Press both buttons simultaneously to perform an emergency descent

BYPASS BUTTON (BY)

What the BY button excludes:

- Closed door contact bypass
- Bypass stop
- Photocell bypass
- Emergency stop bypass

DESCENT BUTTON (DE)

Powers the hold-open control descent valve



WARNING: NO SAFETY DEVICES ARE ACTIVE DURING THE MANOEUVRE

Wait for the platform to arrive on the lower floor, the board display will indicate the arrival of the platform on the lower floor



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40. ASSISTANCE

For any inquiries, please contact our Sales and Assistance Service.

TECHNICAL ASSISTANCE CENTER

UPDINAMIC Srl

Via Franco Modigliani, 22

37045 Legnago (VR)

Tel. 0442 / 590129 Fax

0442 / 599091

41. REPAIRS - SPARE PARTS

Important

IMPORTANT: For repairs, contact qualified and authorized personnel.

If you need to request technical information or spare parts from our Sales and Assistance Service, always specify the data shown on the identification plate.

42. DEVICES FOR THE SAFETY OF MACHINE OPERATORS

In order to guarantee the safety of the machine for the operators, specific measures have been adopted which are recalled below:

Electrical safety devices :

- construction of electrical panels, use of electrical materials and earthing according to the requirements of CEI 44-5 standards;

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