



INSTALLATION MANUAL

Rev.8 Updated 26/06/2018

Per informazioni:

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Via Franco Modigliani, 22

37045 - Legnago (VR) Italy

One level ahead.

UPDINAMIC S.r.l.

Via Modigliani, 22

37045 - LEGNAGO(VR)

INSTALLATION MANUAL FOR UP GOODS LIFT:

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

- UP 3 - 6
- UP 10 - 15
- UP 20 - 25
- UP 25 DEC

SERIAL NUMBER

THE OWNER MUST KEEP THIS MANUAL AND THE ATTACHMENTS LISTED BELOW IN THE OWNER'S
UTILITY SHAFT:

MACHINE MANUAL

USER MANUAL

MAINTENANCE MANUAL

ELECTRIC SYSTEM 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 be strictly 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.



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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.

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SYSTEM CHECKLIST

Address of the place where the system is installed:	Installation company:
System model:	Operator/s:
Serial number:	Technical manager's signature:

CROSS THE BOX ONLY IF THE CHECK HAD A POSITIVE OUTCOME

STRUCTURE

- ☐ THE SCREW ANCHORS PROVIDED BY UPDINAMIC HAVE BEEN USED (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
- ☐ 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 HAZARDOUS RECESSES IN THE SHAFT
- ☐ 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 THE 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 RELIEF VALVE HAS BEEN ADJUSTED TO ALLOW LIFTING THE MAXIMUM PERMITTED LOAD
- ☐ PRESSURE CALIBRATION bar
- ☐ MAXIMUM LOAD LIFTABLE: kg
- ☐ 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 FROM THE HOOK
- ☐ 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
- ☐ (stop enabled + sending to the upper floor held for 10 seconds)

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 WELL VENTILATED

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. 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.

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

MACHINE DEFINITIONS AND COMPONENTS

DEFINITIONS

Parts 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

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:

- Non-observance of these standards and instructions;

- 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.

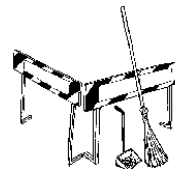
BASIC SAFETY RULES

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 personnel.

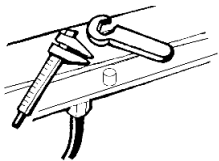
The lift owner must ensure that anyone who has access to the installation devices has read through and fully understood the contents of this manual. In addition, it is important that the owner ensure that the operators comply with all the regulations and/or requirements for the prevention of accidents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

WARNING

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



danger

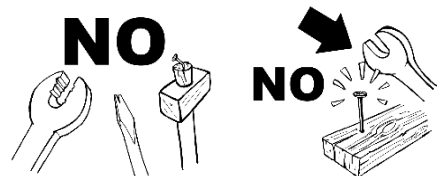


WARNING

Do not leave working tools and materials on the lift (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 condition is a potential hazard.



WARNING

Loose-fitting 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 or falling.



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 personnel may access the fenced-off area.

1. 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
- No. 04 Props H=2000mm (approx.) 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

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 fencing 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 goods lift shaft; 200 Lux in the utility shaft



In order to allow installing the UP 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 project layout checking that all the shaft measurements correspond to the theoretical values.

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

- Predispose ducts, corrugated pipes and holes for passage of electric cables and hydraulic tubes, in accordance with the constructor'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 100mm Ø hole is made 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 100x160xH200cm) 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.



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- 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 goods 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;

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GOODS LIFTS UP3 - UP6

PROTEZIONE VANO IN CONFORMITA' NORMA UNI-EN-ISO-13857:2008
PER PROTEZIONI CON RETE METALLICA UTILIZZARE RETE A MAGLIA FITTA 12x12mm ALLA DISTANZA DI 50mm DAL VANO

IMPORTANTE: PER IL MONTAGGIO DELLE PORTE CONSULTARE IL MANUALE DI INSTALLAZIONE MAX 10cm DAL VANO

SMUSSO 45°

40

luce passaggio

Inserimento porta

100 max

VANO TECNICO AL PIANO "0"

18kN

DISTANZA MAX TRA MONTACARICHI E CENTRALINA IDRAULICA 4mt (L. Tubazioni standard = 6 mt)

PREDISPORRE TUBO CORRUGATO Ø10cm FINO AL VANO TECNICO

TUTTA LA PARETE IN CEMENTO ARMATO CLASSE 20/25
Passaggio standard: tasselli tipo Fischer FBH112/50 (12x146)

12kN (Fx)

1800 PARAPETTO

2150 - 2300 TESTATA

40

SMUSSO 45°

luce passaggio

Inserimento porta

100 max

18kN

PIATEA IN CEMENTO ARMATO CLASSE 20/25

120 EXTRAFOSSA Esistente:

CORSA MAX:

VANO TECNICO

PREDISPORRE TUBO CORRUGATO Ø10cm FINO AL VANO TECNICO

660

40

luce passaggio

Inserimento porta

40

luce passaggio

Inserimento porta

40

PIANALE = (L)

LARG. FOSSA = L + 60

NOTA: EVENTUALE RIDUZIONE DELLO SPAZIO TRA PIANALE E SOGLIA E' A CARICO DEL COMMITTENTE

TUBOLARE 100x30

PREDISPORRE CONTROTELAIO IN TUBOLARE 100x30 A FILO DEL VANO
Solo per l'applicazione delle porte standard

SEGNARE CON UNA "X" GLI ACCESSI AI PIANI E LA QUOTA DEGLI INTERPANI

PIANO 3

PIANO 2

PIANO 1

PIANO 0

Interpiano:

mm

MODELLO: ☐ UP3 - 300Kg ☐ UP6 - 600Kg

Data: _____

Firma per approvazione: _____

MISURE IN mm

MODELLO	LARGHEZZA (mm)	PROFONDITA' (mm)	CORSA MAX (mm)
UP 3	1700	1300	7000
UP 6	1700	1300	7000

PREDISPORRE LINEA F+T, PREVEDERE INTERRUTTORE AUTOMATICO MAGNETOTERMICO CON DIFFERENZIALE CURVA "C", Id = 0.3A

Motore	Tensione funzionamento	Avviamento	Interruttore consigliato*	Corrente nominale	Corrente avviamento
1.5kW	220V - monofase	Diretto	2x16A Id=0.3A	9.5	28
2.2kW	220V - monofase	Diretto	2x16A Id=0.3A	10.5	32

Carichi a parete Fx in funzione della profondità pianale

UP 3

UP 6

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Q.T.A.

DESCRIZIONE:

MODELLO: UP3 - 300Kg
UP6 - 600Kg

CORSA MAX: 7000mm

CON OPERATORE A BORDO

Cliente: _____

Modello: _____

Disegno: _____

TAV-UP36-SPB01

Subito ok: _____

Subito E: _____

Data: 07/11/14

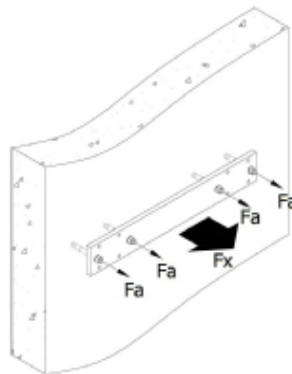
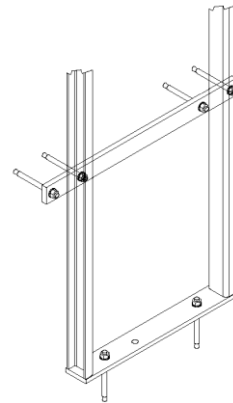
FASTENING ON A REINFORCED CONCRETE WALL UP3 - UP6

	UP3	UP6
Maximum capacity [Kg]	300	600
P max [mm]	1300	1300
L max [mm]	1700	1700
Max travel [m]	7	7
Max. no. of stops	5	5
Extra pit [mm]	120	120
Head min [mm]	2000	2000
Fx max [kN]	8	12
Fy max [kN]	15	18
Motor [kW]	1.5	2.2

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 12/50 (12x146)

- Hilti mod:
HSA M12x150/55/75



The wall fittings are positioned on the load-bearing wall with a 600mm pitch. A maximum traction force F_x acts at each attachment. This force unloads on the wall screw anchors subjected to the traction force

$$F_a = F_x/4$$

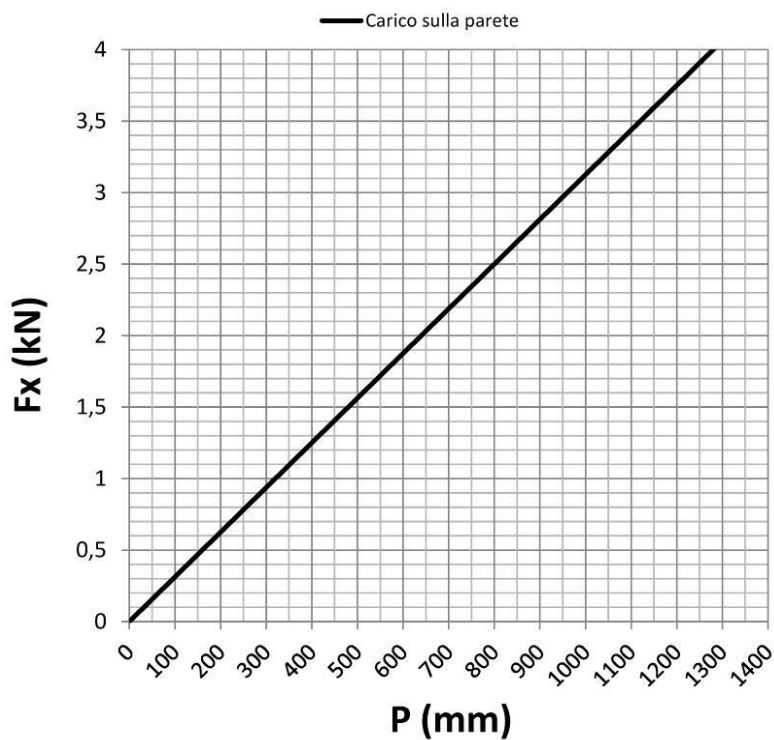
THE CUSTOMER MUST ENSURE THAT:

THE LOAD-BEARING WALL CAN RESIST THE LOADS INDICATED UP TO 120cm BEYOND THE MAXIMUM TRAVEL.

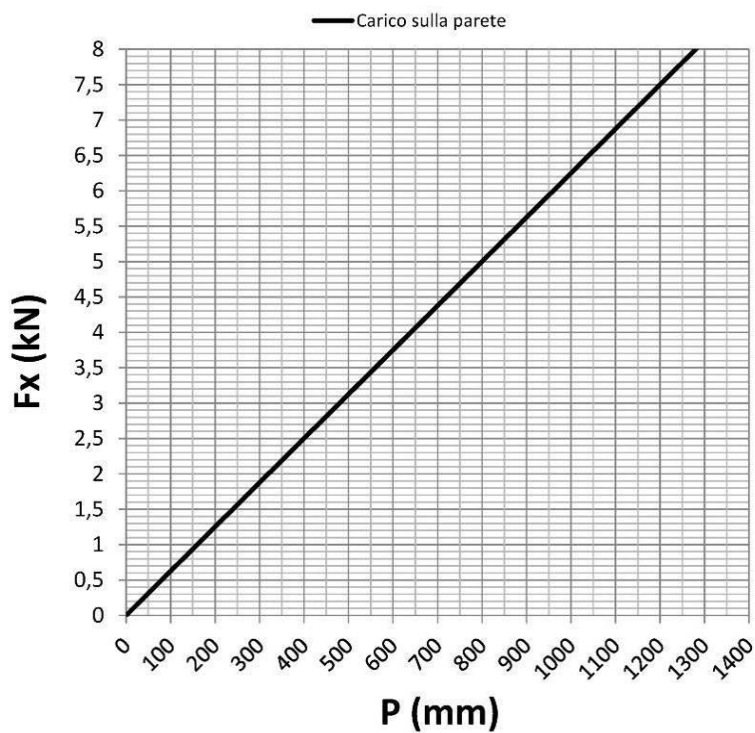
THE LOAD-BEARING WALL IS CONSTRUCTED OF ORDINARY CONCRETE WITH A STRENGTH CLASS NOT BELOW C20/25

LOADING ON THE WALL OR STRUCTURE UP3 - UP6

UP 3



UP 6



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2. GOODS LIFTS UP10 - UP15

PROTEZIONE VANO
IN CONFORMITA' NORMA
UNI-EN-ISO-13857:2008
PER PROTEZIONI CON RETE
METALLICA UTILIZZARE RETE
A MAGLIA FITTA 12x12mm
ALLA DISTANZA DI 50mm
DAL VANO

SMUSSO 45°

40

luce passaggio

Inserimento porta

100 max

18kN

**DISTANZA MAX TRA
MONTACARICHI E
CENTRALINA IDRAULICA 4mt
(L. Tubazioni standard = 6 mt)**

**PREDISPORRE TUBO
CORRUGATO Ø10cm
FINO AL VANO TECNICO**

**VANO TECNICO
AL PIANO "0"**

**IMPORTANTE: PER IL MONTAGGIO
DELLE PORTE CONSULTARE IL
MANUALE DI INSTALLAZIONE
MAX 10cm DAL VANO.**

12kN (Fx)

1800 PARAPETTO

2150 - 2300 TESTATA

SMUSSO 45°

40

luce passaggio

Inserimento porta

100 max

18kN

**PLATEA IN CEMENTO
ARMATO CLASSE 20/25**

**120 EXTRAFOSSA
Esistente:**

**TUTTA LA PARETE IN CEMENTO ARMATO CLASSE 20/25
Fissaggio standard: tasselli tipo Fischer FBN II (12x140)**

CORSA MAX:

VANO TECNICO

**PREDISPORRE TUBO CORRUGATO
Ø10cm FINO AL VANO TECNICO**

660

160

PIANALE = P + 190

30

40

luce passaggio

Inserimento porta

40

PIANALE = (L)

LARG. FOSSA = L + 60

**NOTA: EVENTUALE
RIDUZIONE DELLO SPAZIO
TRA PIANALE E SOGLIA E' A
CARICO DEL COMMITTENTE**

TUBOLARE 100x30

**PREDISPORRE CONTROTELAIO IN
TUBOLARE 100x30 A FILO DEL VANO
Solo per l'applicazione delle porte standard**

A (4:1)

40

luce passaggio

Inserimento porta

**SEGNARE CON UNA "X" GLI ACCESSI AI PIANI
E LA QUOTA DEGLI INTERPiani**

PIANO 3

PIANO 2

PIANO 1

PIANO 0

Interpiano:

mm

Interpiano:

mm

Interpiano:

mm

MODELLO: ☐ UP3 - 300Kg ☐ UP6 - 600Kg

Data: _____

Firma per approvazione: _____

MISURE IN mm

MODELLO	LARGHEZZA (mm)	PROFONDITA' (mm)	CORSA MAX (mm)
UP 3	1700	1300	7000
UP 6	1700	1300	7000

**PREDISPORRE LINEA F+T, PREVEDERE INTERRUTTORE AUTOMATICO MAGNETOTERMICO
CON DIFFERENZIALE CURVA "C", Id = 0.3A**

Motore	Tensione funzionamento	Avviamento	Interruttore consigliato*	Corrente nominale	Corrente avviamento
1.5kW	220 V - monofase	Diretto	2x16A Id=0.3A	9.5	28
2.2kW	220 V - monofase	Diretto	2x16A Id=0.3A	10.5	32

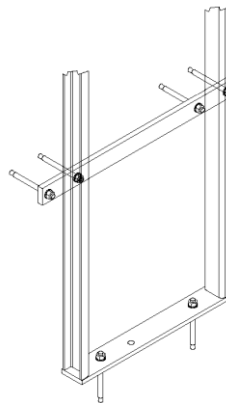
Carichi a parete Fx in funzione della profondità pianale

UP 3

UP 6

FASTENING ON A REINFORCED CONCRETE WALL UP10 - UP15

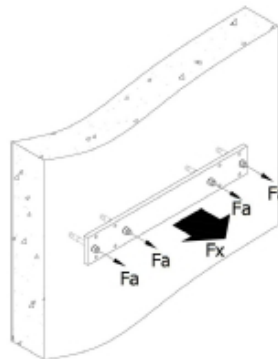
	UP10	UP15
Maximum capacity [Kg]	1000	1500
P max [mm]	See graph	See graph
L max [mm]	See graph	See graph
Max travel [m]	16	16
No. of stops	5	5
Extra pit [mm]	150	150
Head min [mm]	2000	2000
Fx Max [kN]	25	25
Fy Max [kN]	30	35
Motor [kW]	2.2/3	3/4



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 16/25 (16x145)

- Hilti mod:
HSA M16x190/75/95



The wall fittings are positioned on the load-bearing wall with a 1000mm pitch. A maximum traction force Fx acts at each attachment. This force unloads on the wall screw anchors subjected to the traction force.

Fa

$$= Fx/4$$

THE CUSTOMER MUST ENSURE THAT:

THE LOAD-BEARING WALL CAN RESIST THE LOADS INDICATED UP TO 150cm BEYOND THE MAXIMUM TRAVEL.

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

INSTALLATION MANUAL

Rev.8 Updated 26/06/2018



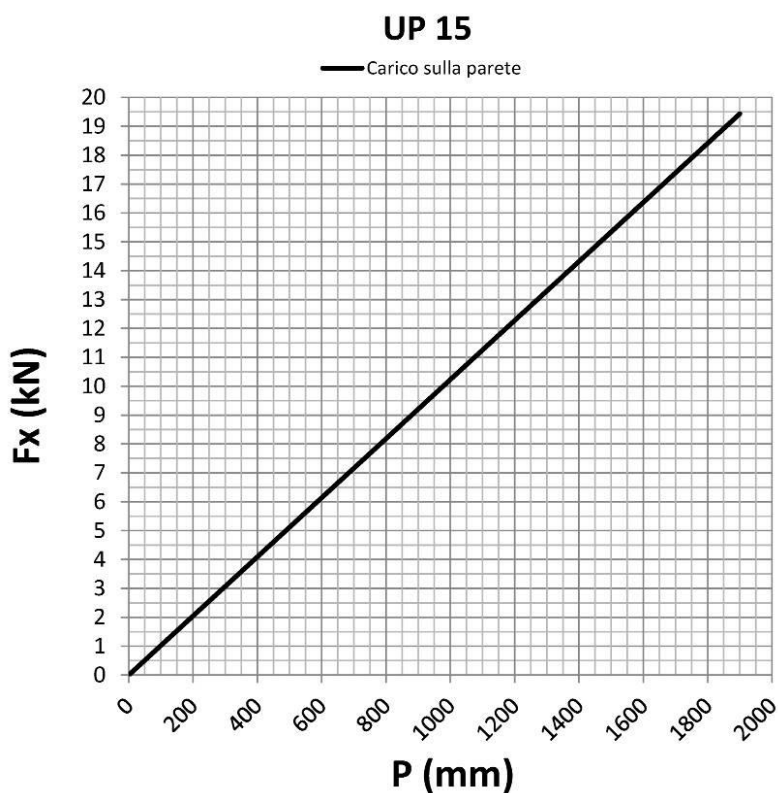
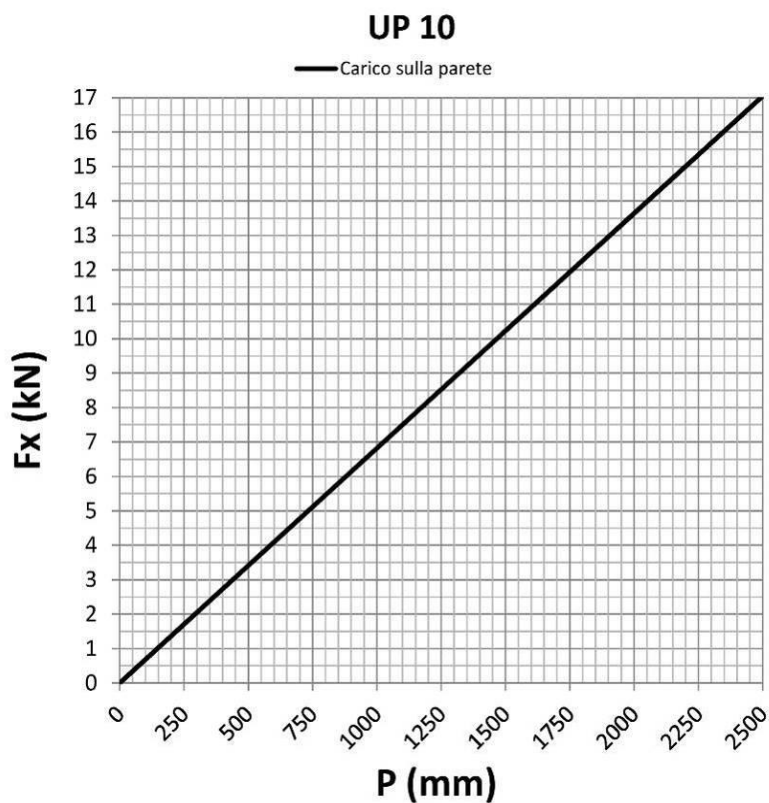
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One level ahead.

LOADING ON THE WALL OR STRUCTURE UP10 - UP15



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3. GOODS LIFTS UP20 - UP25

PROTEZIONE VANO
IN CONFORMITA' NORMA
UNI-EN-ISO-13857:2008
PER PROTEZIONI CON RETE
METALLICA UTILIZZARE RETE
A MAGLIA FITTA 12x12mm
ALLA DISTANZA DI 50mm
DAL VANO

SMUSSO 45°

luce passaggio
Inserimento porta

100 max

45KN

**DISTANZA MAX TRA
MONTACARICHI E
CENTRALINA IDRAULICA 4mt
(L. Tubazioni standard = 6 mt)**

**PREDISPORRE TUBO
CORRUGATO Ø10cm
FINO AL VANO TECNICO**

**VARO TECNICO
AL PIANO "0"**

**IMPORTANTE: PER IL MONTAGGIO
DELLE PORTE CONSULTARE IL
MANUALE DI INSTALLAZIONE
MAX 10cm DAL VANO**

40

40KN (Fx)

40KN (Fx)

40KN (Fx)

40KN (Fx)

45KN

**1800 PARAPETTO
2150 - 2300 TESTATA**

SMUSSO 45°

luce passaggio
Inserimento porta

100 max

40

CORSA MAX:

**TUTTA LA PARETE IN CEMENTO ARMATO CLASSE 20/25
Fissaggio standard: tasselli tipo Fischer FBN II 16/50 (16x170)**

**PLATEA IN CEMENTO
ARMATO CLASSE 20/25**

**250 EXTRAFOSSA
Esistente:**

PREDISPORRE TUBO CORRUGATO Ø10cm FINO AL VANO TECNICO

1000

40

PROF. FOSSA = P + 280

PIANALE =

35

luce passaggio
Inserimento porta

40

40

luce passaggio
Inserimento porta

40

PIANALE = (L)

LARG. FOSSA = L + 70

**NOTA: EVENTUALE
RIDUZIONE DELLO SPAZIO
TRA PIANALE E SOGLIA E A
CARICO DEL COMMITTENTE**

TUBOLARE 100x30

**PREDISPORRE CONTROTELAIO IN
TUBOLARE 100x30 A FILO DEL VANO
Solo per l'applicazione delle porte standard**

**SEGNARE CON UNA "X" GLI ACCESSI AI PIANI
E LA QUOTA DEGLI INTERPiani**

PIANO 3

PIANO 2

PIANO 1

PIANO 0

Interpiano:

Interpiano:

Interpiano:

Interpiano:

**PREDISPORRE LINEA F-H-V-T O 3F-T-H, PREVEDERE INTERRUTTORE AUTOMATICO MAGNETOTERMICO
CON DIFFERENZIALE CURVA "C" Id=0.3A**

Motore	Tensione funzionamento	Avviamento	Interruttore consigliato*	Corrente nominale	Corrente avviamento
3kW	220 V - trifase	Diretto	3x16A Id=0.3A	10	35
	380 V - trifase	Diretto	4x16A Id=0.3A	5	22
4kW	220 V - trifase	Diretto	3x20A Id=0.3A	16	50
	380 V - trifase	Diretto	4x16A Id=0.3A	8	25
5.5kW	220 V - trifase	Diretto	4x25A Id=0.3A	22	60
	380 V - trifase	Diretto	4x16A Id=0.3A	11	35

DIMENSIONI DEL PIANALE (area grigia)

UP 20

UP 25

MODELLO: ☐ UP20 - 2000Kg ☐ UP25 - 2500Kg

Data: _____ Firma per approvazione: _____

MISURE IN mm

Carichi a parete Fx in funzione della profondità pianale

UP 20

UP 25

UP DINAMIC

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DESCRIZIONE:
MODELLO: UP20 - 2000Kg
UP25 - 2500Kg
CORSA MAX: 12000mm
CON OPERATORE A BORDO

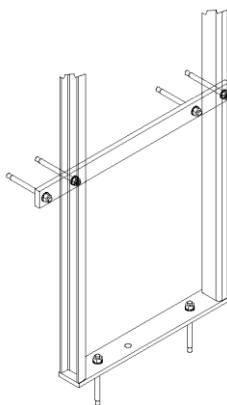
Clienti:
Modello:
Data: 07/11/14

TAV-UP2025-SPB01

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FASTENING ON A REINFORCED CONCRETE WALL UP20 - UP25

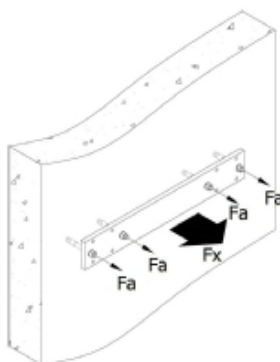
	UP20	UP25
Maximum capacity [Kg]	2000	2500
P max [mm]	See graph	See graph
L max [mm]	See graph	See graph
Max travel [m]	16	16
No. of stops	5	5
Extra pit [mm]	250	250
Head min [mm]	2000	2000
Fx Max [kN]	35	35
Fy Max [kN]	40	45
Motor [kW]	4/5.5	5.5/7



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 16/25 (16x145)

- Hilti mod:
HSA M16x190/75/95



The wall fittings are positioned on the load-bearing wall with a 1000mm pitch. A maximum traction force F_x acts at each attachment.

This force unloads on the wall screw anchors subjected to the traction force.

$$F_a = F_x/4$$

THE CUSTOMER MUST ENSURE THAT:

THE LOAD-BEARING WALL CAN RESIST THE LOADS INDICATED UP TO 150cm BEYOND THE MAXIMUM TRAVEL.

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

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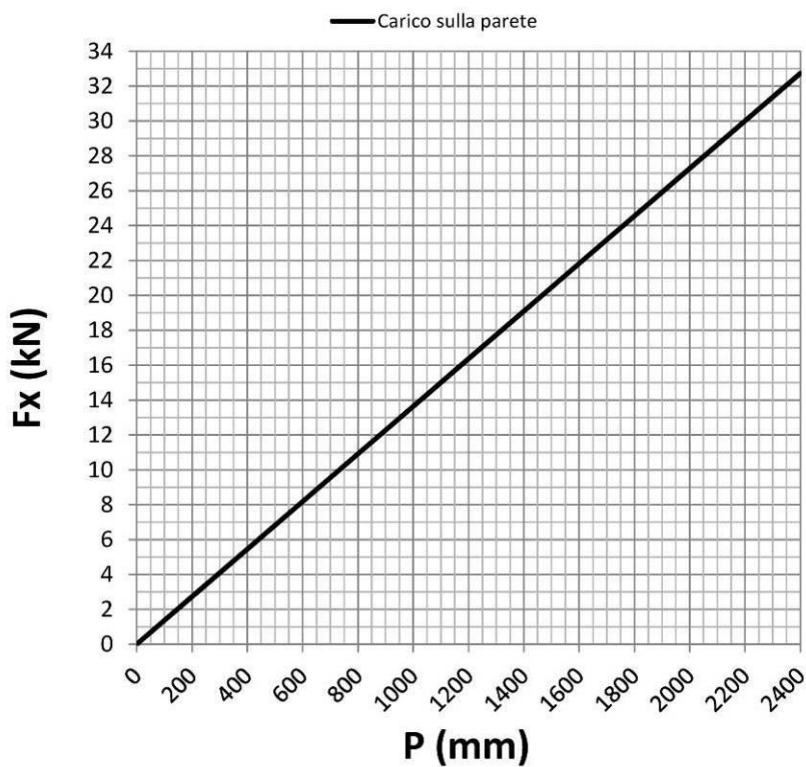
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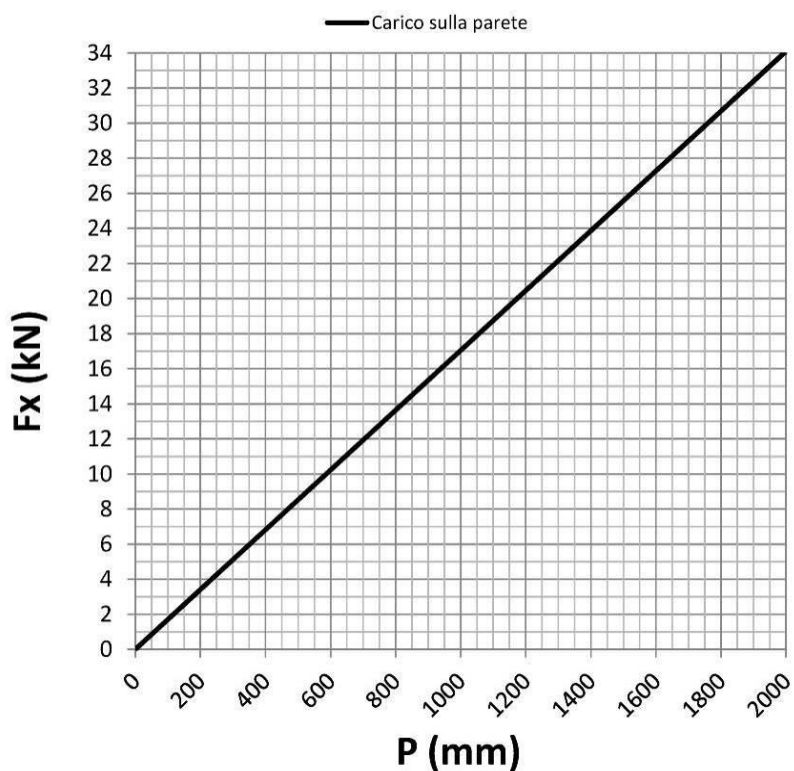
One level ahead.

LOADING ON THE WALL OR STRUCTURE UP20 - UP25

UP 20

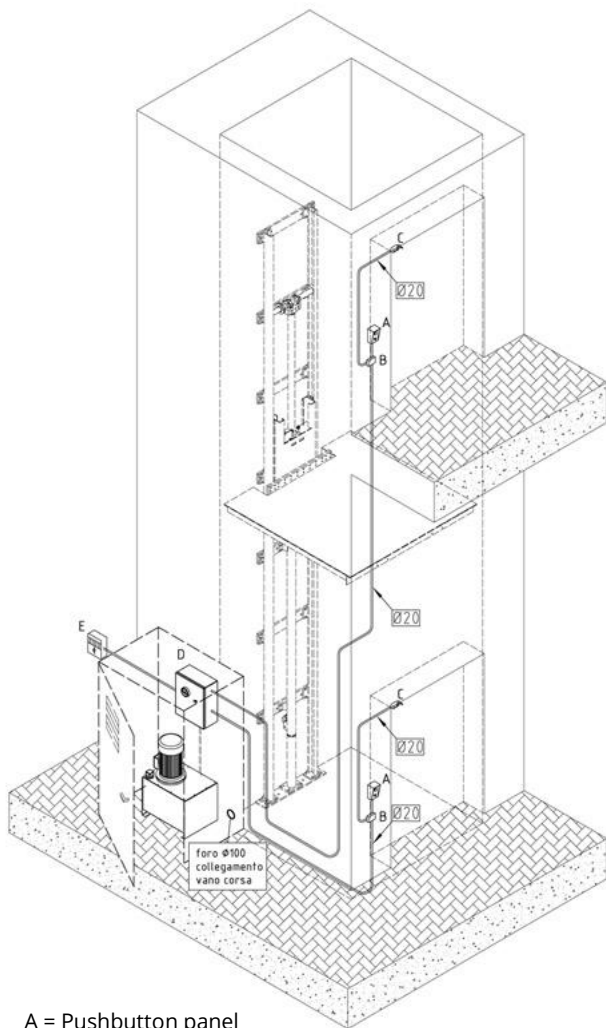


UP 25



CHECKING THE ELECTRIC LINE

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.



- A = Pushbutton panel
- B=Box type 503
- C=Electric lock
- D=Electric panel
- E = Differential magnetothermal switch
(to be provided by the customer)

- Two 20mm Ø corrugated pipes must reach each floor for connection of the pushbutton panel and the electric lock to the utility shaft.
- The utility shaft must be located on the lower floor on a wall adjacent to the goods lift shaft for positioning of the hydraulic control unit and the electric panel.
- One 100mm Ø hole is required in the extra pit for the hydraulic tubes to run through.
- The utility shaft must be large enough to allow maintenance operations by qualified operators (minimum 100x160xH200cm) and be positioned in a place accessible for maintenance and at the same time away from and protected against access by unauthorised persons, and must be 200 Lux illuminated.
- 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.
- The standard length of the hydraulic tubes and the electric cables is 6m.
- Install a differential switch upstream of the electric system of the goods lift positioning it in the utility shaft.
- Provide lighting in the lift shaft: Prepare an adequate lighting system: 50 Lux in the goods lift shaft; 200 Lux in the utility shaft

INSTALLATION MANUAL

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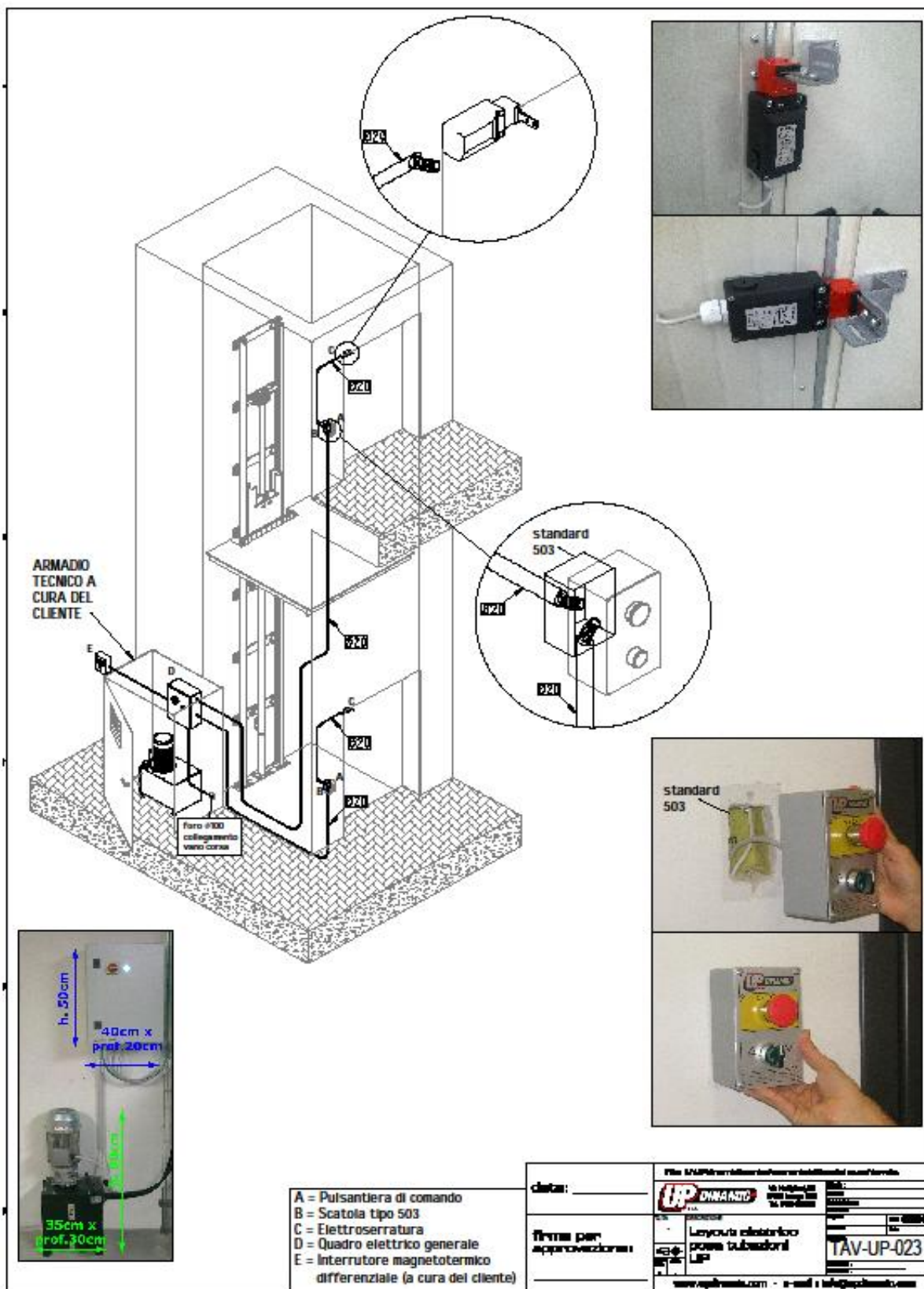


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LOCKS PROVIDED

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; certified 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; ISO 9001 certificate)

PHOTOELECTRIC BARRIERS

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 on-board the lift.

INSTALLATION MANUAL

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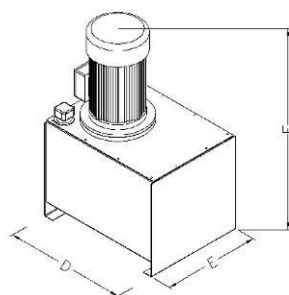
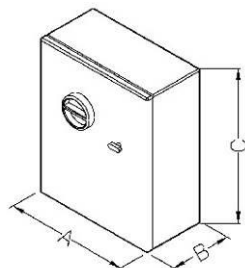
ELECTRIC PANEL DIMENSIONS

DIMENSIONS:

A = 51 cm

B = 25 cm

C = 65 cm



ELECTRICAL HYDRAULIC CONTROL UNIT

	1.5kW 2.2kW	3kW	4 kW	5.5kW
F	70cm	75cm	80cm	80cm
D	30cm	40cm	60cm	60cm
E	25cm	35cm	45cm	45cm
	220V single-phase	220-380V three-phas	220-380V three-phas	220-380V three-phas

SINGLE-PHASE MOTORS AVAILABLE

Motor	Operating voltage	Starting	Recommended switch*	Rated current	Starting current
1.5 kW	220V - single-phase	Direct	2x16A id=0.3A	9.5	28
2.2 kW	220V - single-phase	Direct	2x16A id=0.3A	10.5	32

* Automatic magnetothermal switch with differential, curve "C".

THREE-PHASE MOTORS AVAILABLE

Motor	Operating voltage	Starting	Recommended switch*	Rated current	Starting current
3 kW	220V - three-phase	Direct	3x16A id=0.3A	10	70
	380V - three-phase	Direct	4x16A id=0.3A	5	40
4 kW	220V - three-phase	Direct	3x20A id=0.3A	16	100
	380V - three-phase	Direct	4x16A id=0.3A	8	70
5.5 kW	220V - three-phase	Direct	4x25A id=0.3A	22	140
	380V - three-phase	Direct	4x16A id=0.3A	11	75

* Automatic magnetothermal switch with differential, curve "C".

Provide for pentapolar 3P+N+G power supply

UTILITY SHAFT INSPECTION

The utility shaft is the area where the hydraulic control unit and the electric panel of the lift are housed. The utility shaft should preferably be located adjacent to the lift shaft and should be clean and damp-free



Check that there are holes for passage of the cables and hydraulic tubes between the lift shaft and the utility shaft, recommended minimum passage hole diameter 100mm;



Check that there is an electric line with characteristics suited to the system for power supply and wiring to the electric panel;



Check that there is adequate space for the maintenance operations as required by the regulations in force (recommended space of at least 1000x1000mm);

POWER IN THE ELECTRIC PANEL:



In the case of systems with UPS, to cut the power in the electric panel, it is important to disconnect the power supply from the UPS before opening the panel



Electrical connections

Connection of the power supply must be carried out by an authorised electrician according to the local regulations.

Before making the connections, disconnect the power supply. The wiring diagram and the electric panel labels show the information necessary for connection and the required power supply values

SAFETY STRUT

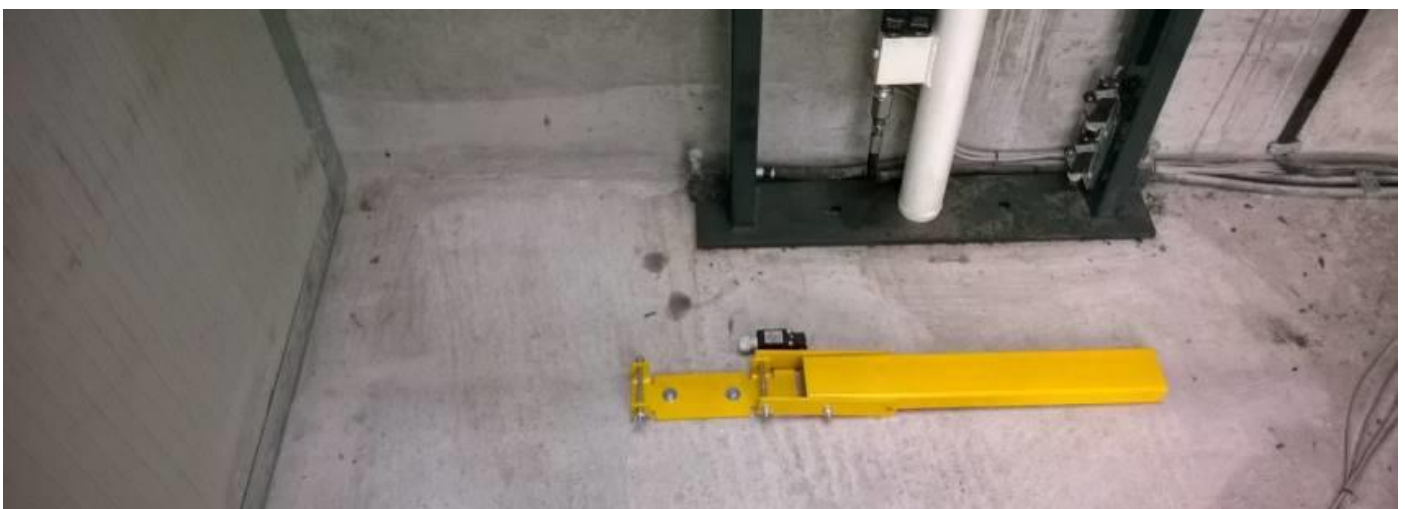
For safety reasons, it is essential to install the strut if working underneath the lift during installation and maintenance.



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 angle bar to the pit floor (respect coupling with the tube)
- Screw the limit switch onto the angle bar
- 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)



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One level ahead.



In the rest phase, fasten the tube to the angle bar

During operation 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

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 goods lift and for reasons other than those mentioned above.

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.

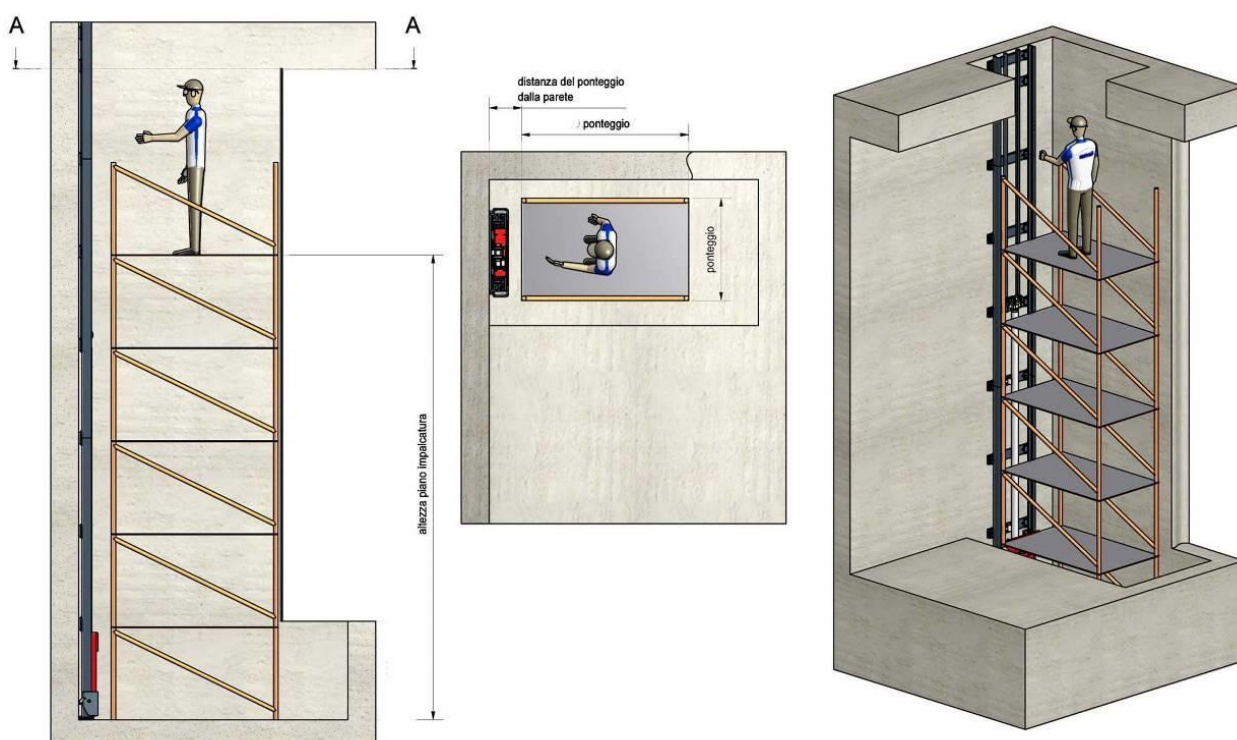
CLEANING THE PIT

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

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.



GOODS RECEIPT

The following will be indicated on the accompanying delivery note:

- Origin of the goods
- Type of machine 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 3000mm (max) modules
- Loading platform
- Almond-pattern sheets to cover the platform + any fencing
- 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.

UNLOADING AND HANDLING THE GOODS

The unloading and handling operations require the use of a crane truck or a forklift truck. The above mentioned equipment 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.

APPLICATION OF THE LIFTING DEVICE



2a

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 250 kg at the location of 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

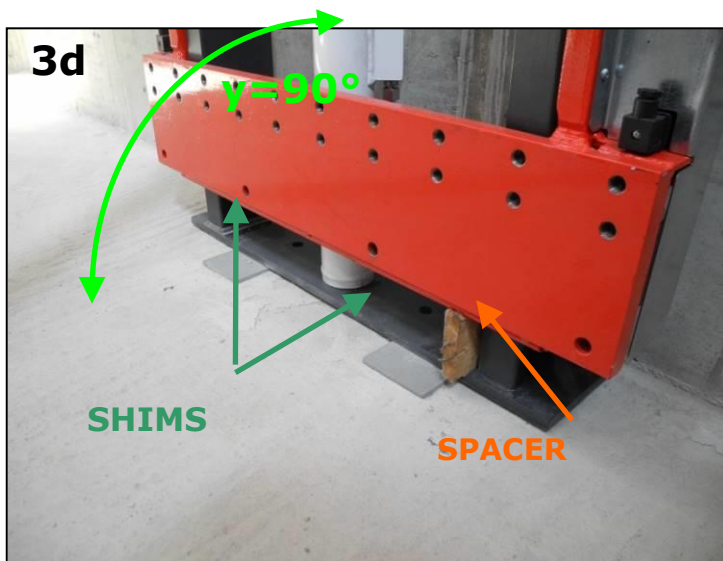


All the lifting devices used must be checked before use and must have an inspection certificate;



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

4. FASTENING THE FIRST MODULE



Position the first module complete with carriage and hydraulic cylinder on the bottom of the pit [3a].

Hook the module onto the hoist and lift it in vertical position resting it against the fastening wall [3b].

Position the module level between the X and Y axes inserting plastic shims under the support plate [3c/d].

WARNING: the entire load bears axially with the cylinder, so it is indispensable that at the cylinder the base plate rests completely on the floor.

NB: insert a shim of about 10cm below the carriage to enable the successive operations.

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.

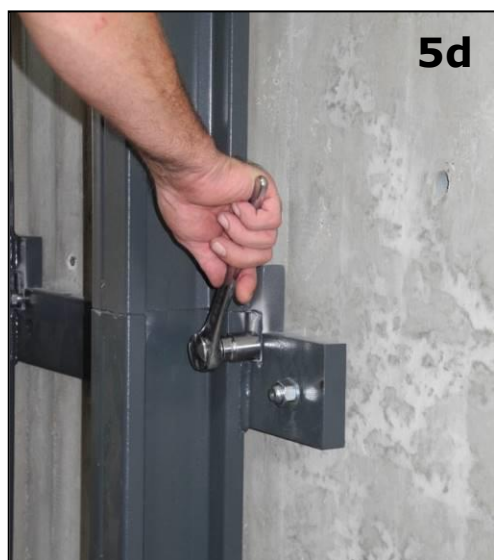
To compensate for the errors of a not perfectly flat wall, you can insert the plastic shims provided in order to recover the space between the reinforced concrete wall and the plate. [4d].

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.

NB: Take care to protect the bearings, electromagnets and all components which require a high degree of protection. Clean the guides and bearings removing any debris and drilling remains before moving the carriage.

FASTENING THE NEXT MODULES



Carry out the lifting and installation operations of the next modules following the same procedure described above in point 3.

Fit the upper module from top to bottom 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.

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

Proceed as described in point 4 until completing the structure.

HYDRAULIC SYSTEM

Control unit UP3 - UP6



Control unit UP10 - UP15



Control unit UP 20 - UP25



INSTALLATION MANUAL

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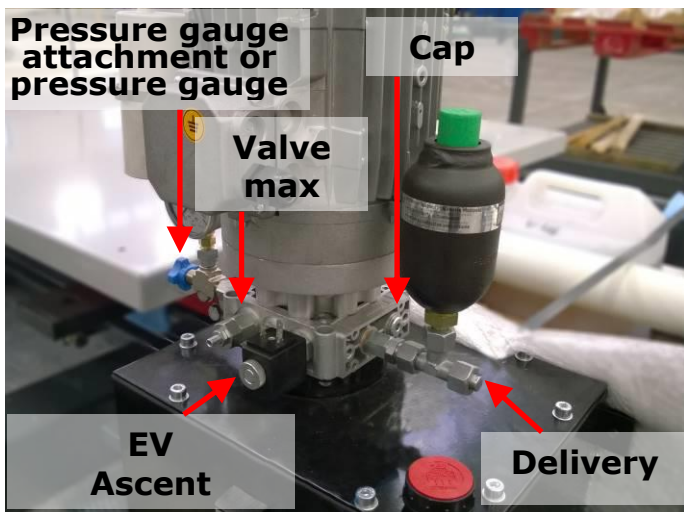
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One level ahead.

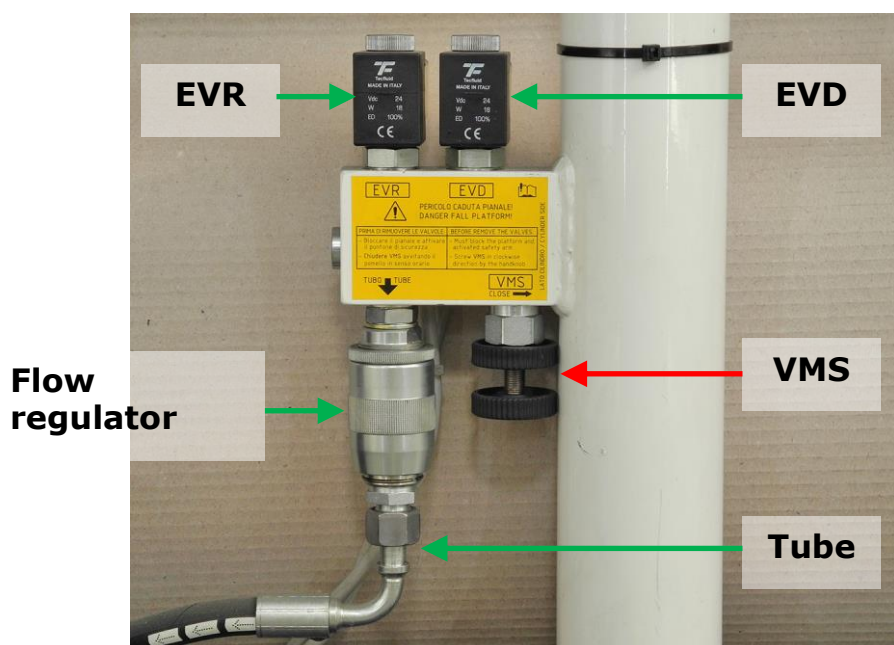
HYDRAULIC CIRCUIT



Insert the tube on the delivery and make the hydraulic connection between the cylinder and the control unit.

Take care to tighten the nut to prevent oil leaks during operation.

The solenoids present on the cylinder block have the following function:



EVR = Deceleration valve

EVD = Descent valve

VMS = Manual safety valve (normally open) during maintenance on the EVD and EVR valves; close the VMS valve

Flow regulator = adjusts the descent speed

Tube = delivery tube, not at pressure with the system switched off.



IT IS ABSOLUTELY FORBIDDEN to stand underneath the loading platform during

Page 38 of 76

functioning tests



HYDRAULIC OIL

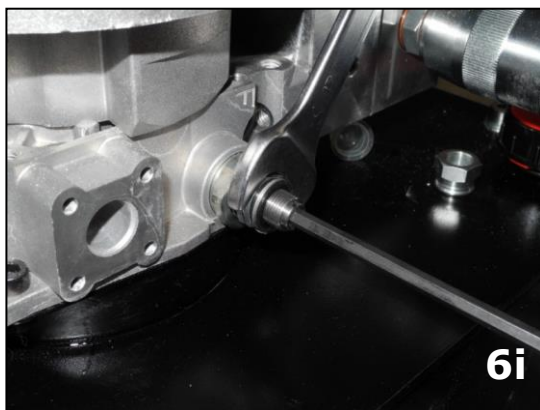
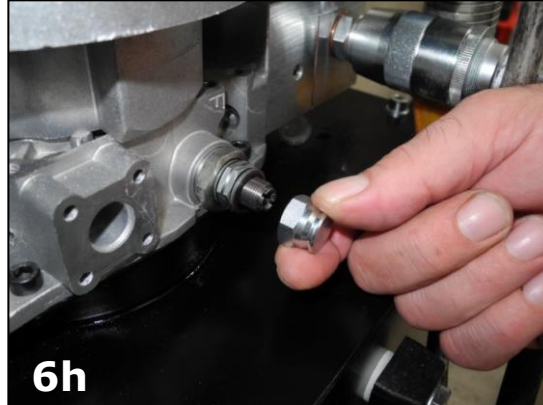
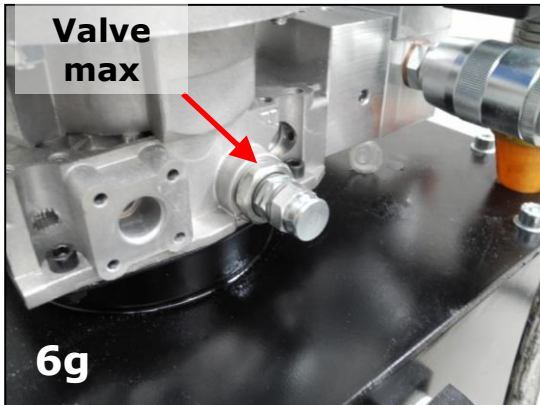
Fill the tank with the hydraulic oil provided. Top up the control unit after having tested the system. check the oil level using the indicator [6d].

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. For the system to be operated the oil must be above the minimum level indicated on the tank

Wladoil Engine HY SY 32/B (approximate average characteristics)

- | | |
|----------------------------------|-------|
| - Density at 15°C: | 0.868 |
| - cSt viscosity at 40°C: | 31.9 |
| - Engler viscosity at 50°C: | 3 |
| - Viscosity index: | 107 |
| - Pour point °C: | -32 |
| - Flammability VA °C: | 224 |
| - Aniline point: | 97 |
| - DIN 51 524 HLP classification: | 32 |



Zero set the max. pressure relief valve to drain the hydraulic cylinder:

Remove the sealing cap and act on the slider [6i] to lower the operating pressure to 0 bar.

Loosen the bleed located behind the cylinder in proximity of the head and insert a tube to collect the draining oil.



Activate the control unit motor and manually power up the ascent valve (if present), wait for the air present in the hydraulic circuit to escape; this operation should be repeated from after about two hours.

Lastly restore the bleed and the relief valve.

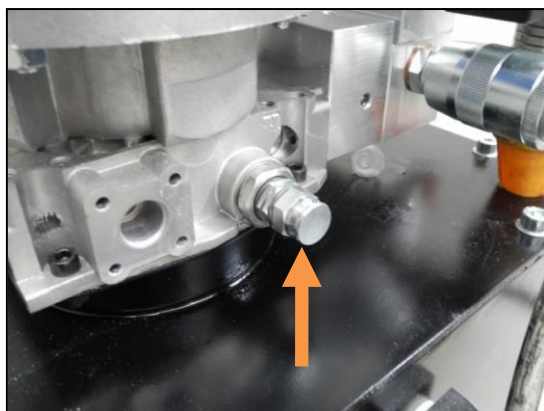


ADJUSTING THE RELIEF VALVE

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

GOODS LIFT CONTROL UNITS							
MODEL	CYLINDER		DATA CONTROL UNIT				
	Rod diameter (mm)	Cylinder max travel (mm)	Maximum operating pressure (bar)	Vol. Acc. (Lt)	Prec. Acc. (Bar)	Motor (kW)	Pump (cc)
UP3	40	3850	75	0.15	30	1.5	2.67
UP6	40	3100	115	0.15	30	2.2	2.67
	45	3600	95	0.15	20	2.2	3.34
UP10	55	3750	140	0.15	50	3	5.8
	60	4250	120	0.15	40	3	7.9
	70	5600	90	0.15	30	3	11
UP15	55	3350	170	0.15	50	4	5.8
	60	3800	145	0.15	40	4	7.9
	70	5100	110	0.15	30	4	11
	70 (with carriage)	6600	110	0.15	30	4	11
UP20	60	3250	195	0.35	50	4	7.9
	70	4450	145	0.35	40	4	11
	70 (with carriage)	7600	145	0.35	40	4	11
UP25	70	4100	165	0.35	40	5.5	11
	70 (with carriage)	7600	165	0.35	40	5.5	11

Relief valve position



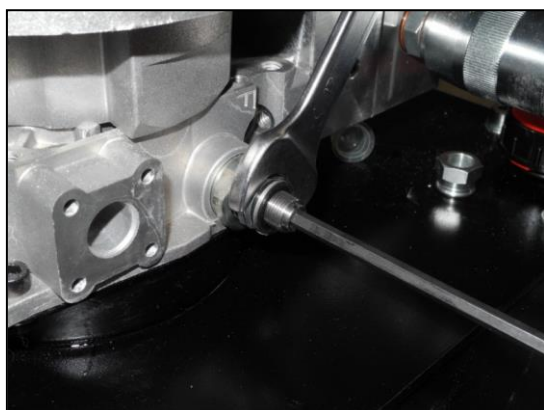
UP3 – UP6 – UP10 – UP15



UP20 – UP25



Remove the cap to access the Allen screw



Loosen the nut screw and act on the Allen screw:

Clockwise Direction = Increases the pressure

Anticlockwise Direction = Decreases the pressure

Carry out the operation with the mechanical limit switch system



Note down the operating pressure on the installation checklist

ADJUSTING THE DESCENT SPEED



To adjust the descent speed:

Act on the flow regulator located between the tube and the cylinder



ANTICLOCKWISE = accelerates descent



CLOCKWISE = decelerates descent

WARNING:

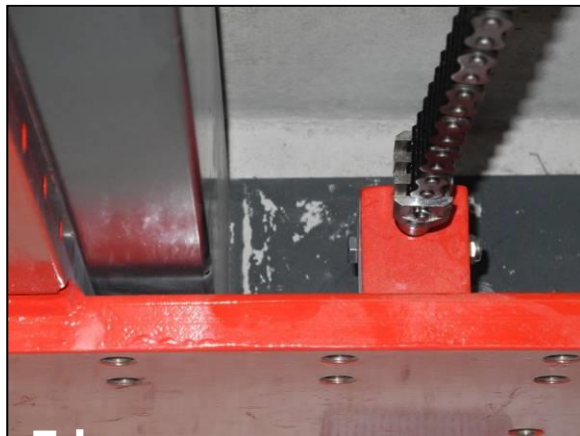
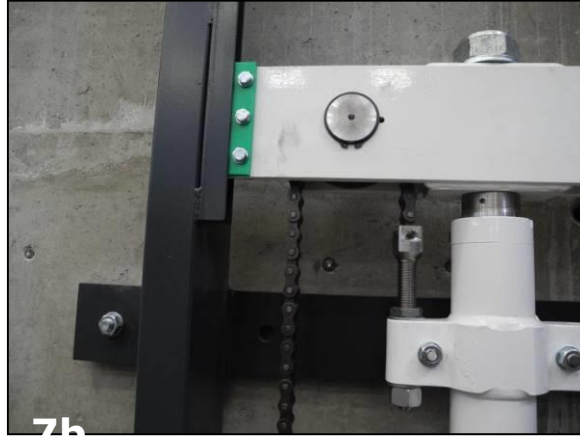
The speed varies in relation to the load!

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

REPLACEMENT TANK CAP



FITTING THE CHAINS



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

- screw stay (for adjustment and precision) to be applied on the cylinder side
- fixed stay to be applied in the carriage side.

Lock the chains in proximity of the cylinder by inserting a long nut below (strain zone) and a normal nut to lock above.

Insert the carriage side stay taking care to orientate the anti-rotation pin as indicated in the figure.

After handling the machine for the first time, adjust and tension the chains keeping the same tension on both chains. Then remove the previously-positioned shim as in figure 3d.

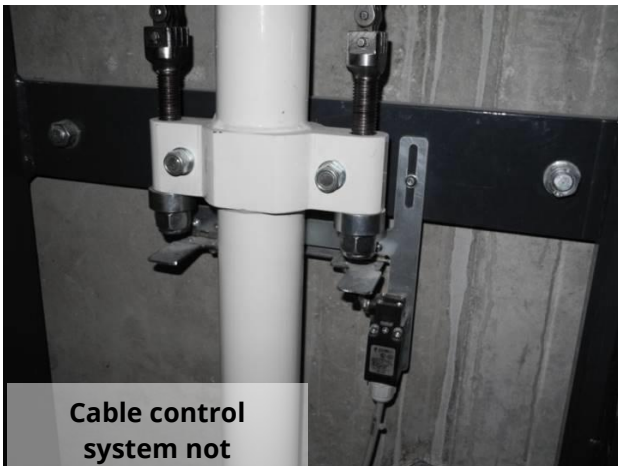
STAY FASTENING



Insert the spring in its seat and in the containment tray supplied.

Tighten the supplied self-locking nut until the plastic full contacts the threads of the tie rod.

INSTALLING THE CHAIN BREAKING CONTROL SYSTEM (SPB ONLY)



Cable control
system not
activated

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

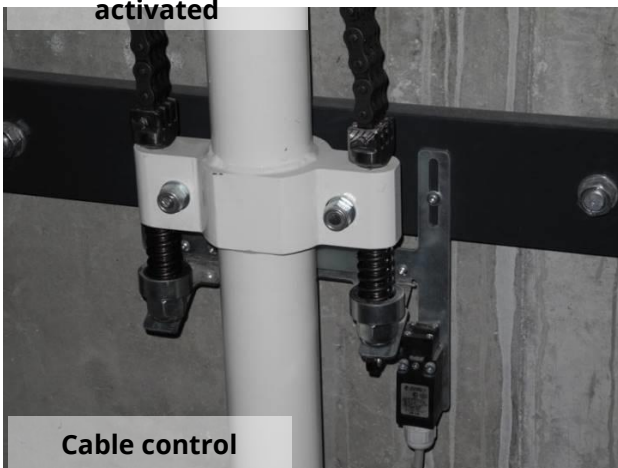
The limit switch connection must be an NC contact.

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



Cable control
system activated

CENTRAL PLATFORM MODULE

(OR COMPLETE PLATFORM IF COMPLETELY WELDED)



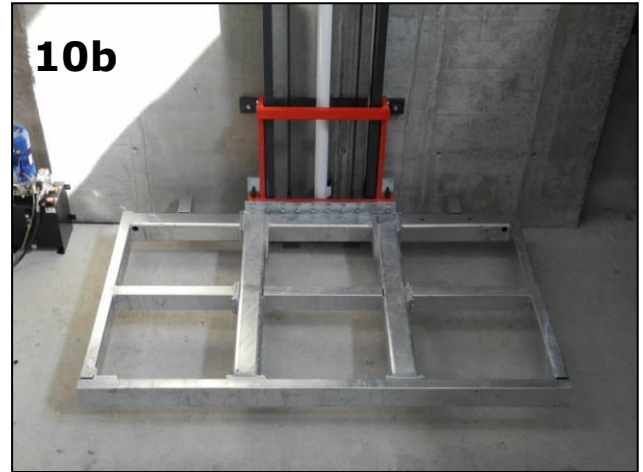
Position the central module of the platform in proximity of the carriage, bring the two plates together and insert the front bolts; tighten them with the torque wrench.

Fix the platform with the rear bolts, with the two plates brought together.

NB: The rear bolts have the aim of eliminating play between the 2 plates to reduce the flexion of the platform during the loading step.

The planarity of the platform must be registered by acting with shims to be inserted between the 2 plates so as to adjust for any eventual inclination.

5. ASSEMBLING THE PLATFORM (IN A CASE OF A DEMOUNTABLE PLATFORM:)



Complete the assembly of the platform first by inserting the side modules and lastly the frontal cross-member. Fasten all the bolts and apply the textured metal sheets on the platform.



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

NB: We recommend keeping a slight inclination upwards to compensate for the slight flexion of the platform during the loading step.



PREPARATION OF THE ANTI-FALL SYSTEM WITH PROXIMITY SWITCH



Remove the hooks protection casing and remove the protective film; check that the electromagnet is clean and in perfect condition and that its travel is free and frictionless.

Position the support bracket of the proximity switch and fix it as in figure [9b], adjust the hook rest screw with the head of the screw, taking care that the electromagnet is not at limit position.

Insert the proximity switch and block it, leaving a space of **1-2 mm** between the hook and the proximity switch head.

Check that on switching on the LED located on the tail of the switch is giving the correct proximity switch reading.

INSTALLATION MANUAL

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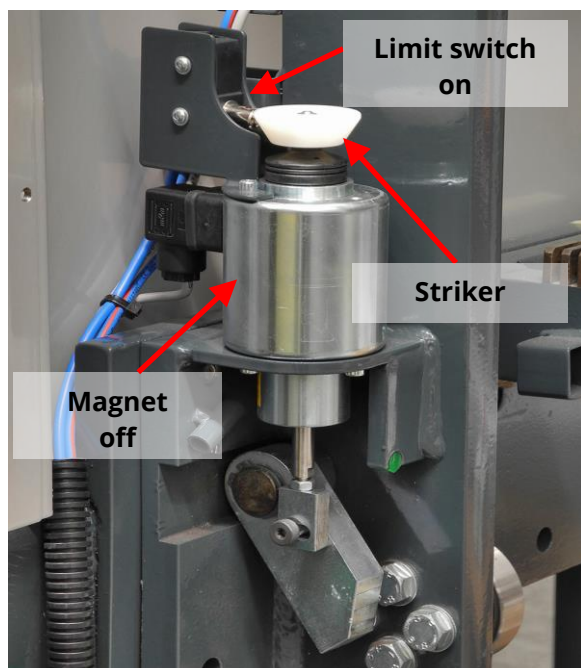
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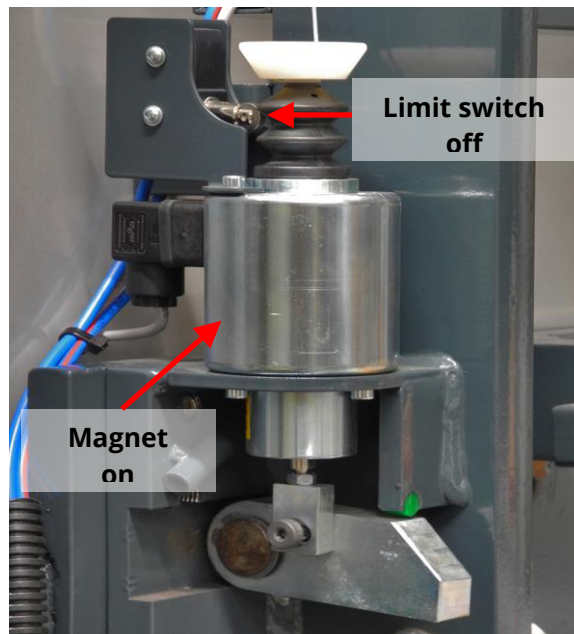
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One level ahead.

PREPARATION OF THE ANTI-FALL SYSTEM WITH LIMIT SWITCH



Hook not live



Hook live

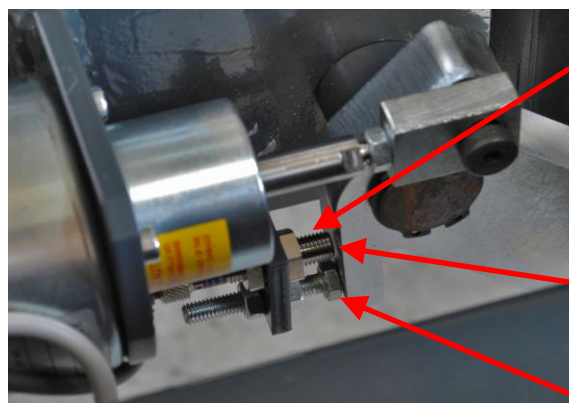
PREPARATION OF THE ANTI-FALL SYSTEM WITH PROXIMITY SWITCH



Hook not live



Hook live



Proximity

Leave a 1-2mm space
between the Proximity switch and the hook

Rest screws

ADJUSTING THE ANTI-FALL SYSTEM



Calibrate all the hook rests to the floors by acting on the bolt [11a], perform the regulation so that the hook rest perfectly meets the arrival of the goods lift at the floor.

The bolt must remain tightened and inserted for at least 1/3 of its length.

Functioning principle of the anti-fall system:



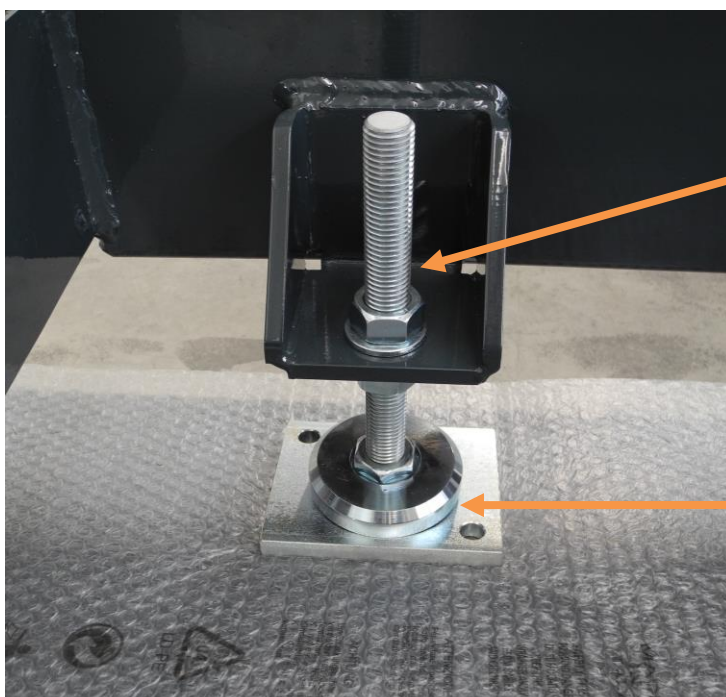
- Hook rest step-> the proximity switch gives its consent to move the system
- Exit of the hook in proximity of the floor -> automatic positioning manoeuvre
- Resting the hook in "deceleration" mode at the floor, contemporaneously the floor limit switch is read.

ADDITIONAL REGULATING HOOKS (OPTIONAL)

Fix the support to the wall taking care that there are no interferences with the platform during travel (both empty and with a full load)

Use the calibrating screw to regulate the correct rest of the hook

To near/distance the rest with respect to the platform unscrew the countersunk screws and rotate the plate by 180°
Lastly tighten the plate using the Allen screws



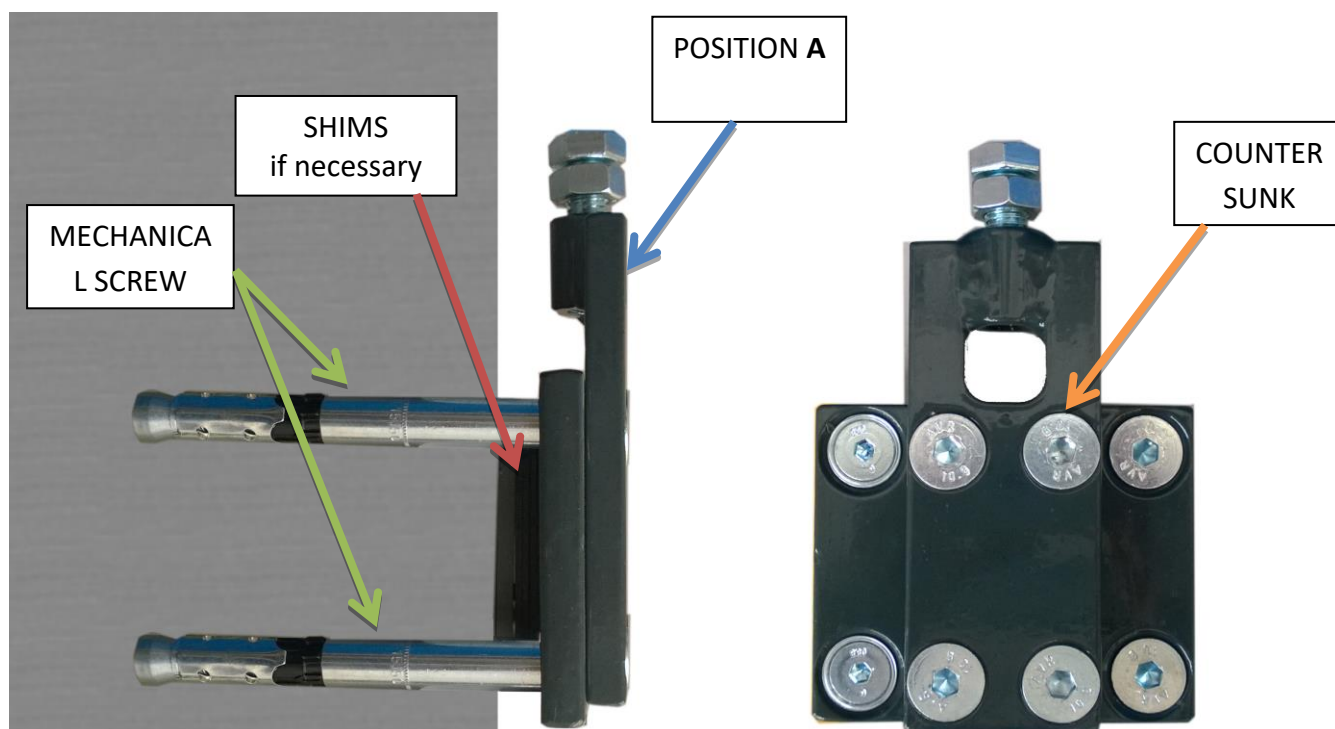
On the lower plane use the adjustable rest feet

Fix the rest plate on the pit bottom using the anchors supplied.

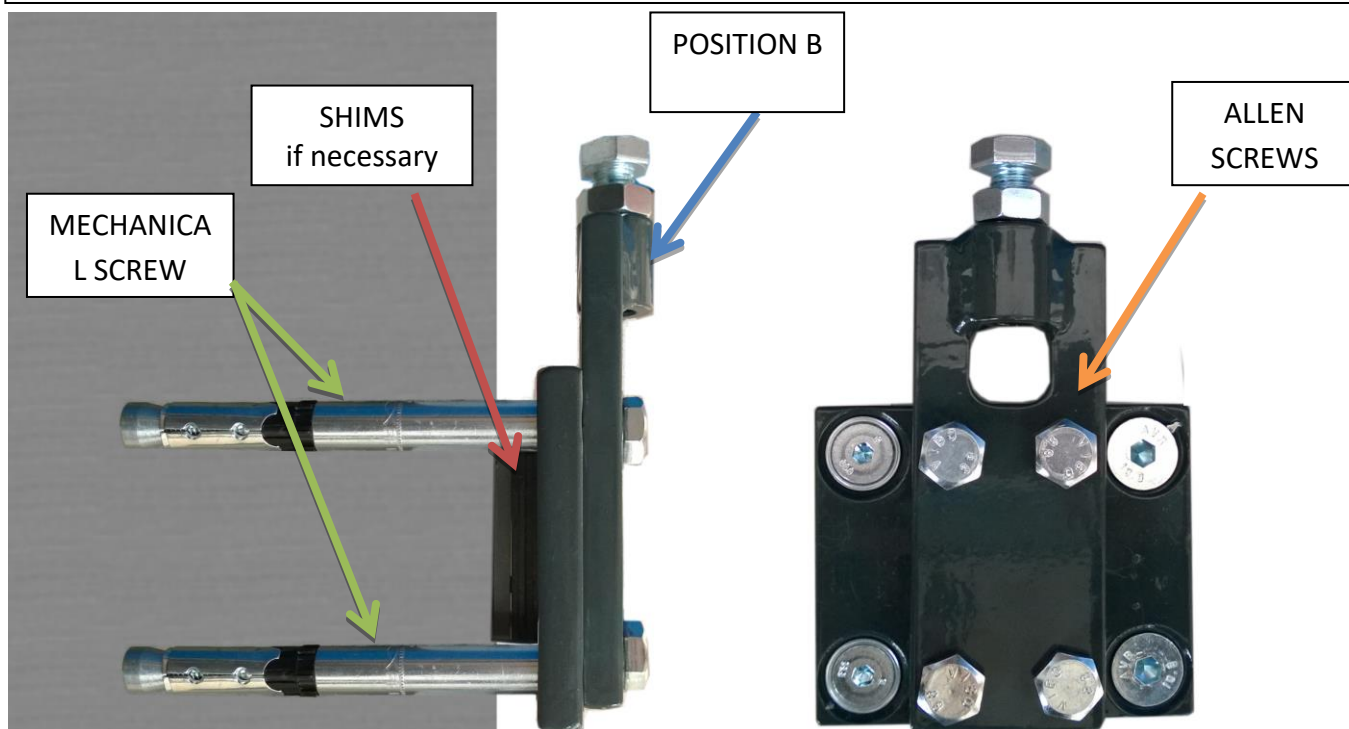
Use a plastic/rubber between the foot and the plate to avoid noise during the resting of the platform

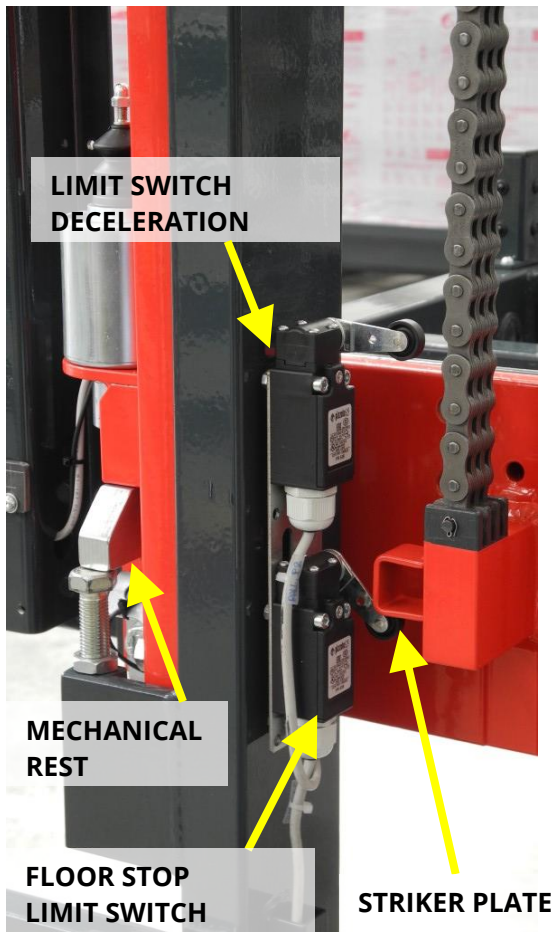
REGULATING PLATES FOR REST

VERSION WITH COUNTERSUNK SCREWS



VERSION WITH ALLEN SCREWS





Correctly position the galvanised plate, ensuring that on arrival at the floor the platform is clicking the limit switch stop in a downwards direction

N.B. The halting of the loading platform has a programmable slight delay, thus enabling the mechanical resting on the hooks and the unloading of the chains.

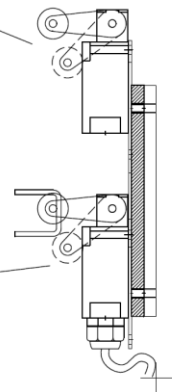
Arrival at the low floor:

- Down click on the stop FC: decelerating + hook opening
- Down click on the stop FC: Cycle end

Rallentamento

Riscontro
carrello

Stop



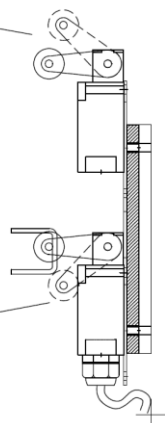
Arrival at the high floor:

- Upwards click on the limit switch: deceleration: proceeds in overlimit
- Upwards click on the limit switch: deceleration + hook opening
- Down click on the stop FC: Cycle end

Rallentamento

Riscontro
carrello

Stop

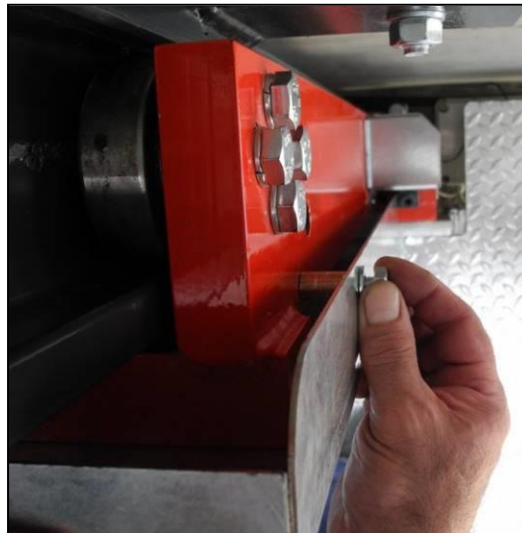


N.B. At the high floor the goods lift performs an overlimit run to open the rest hooks, then to close them at the floor. Then, the first click on the lower sensor is not read

CASINGS AND FINISHING (Only in models without protection bellows)



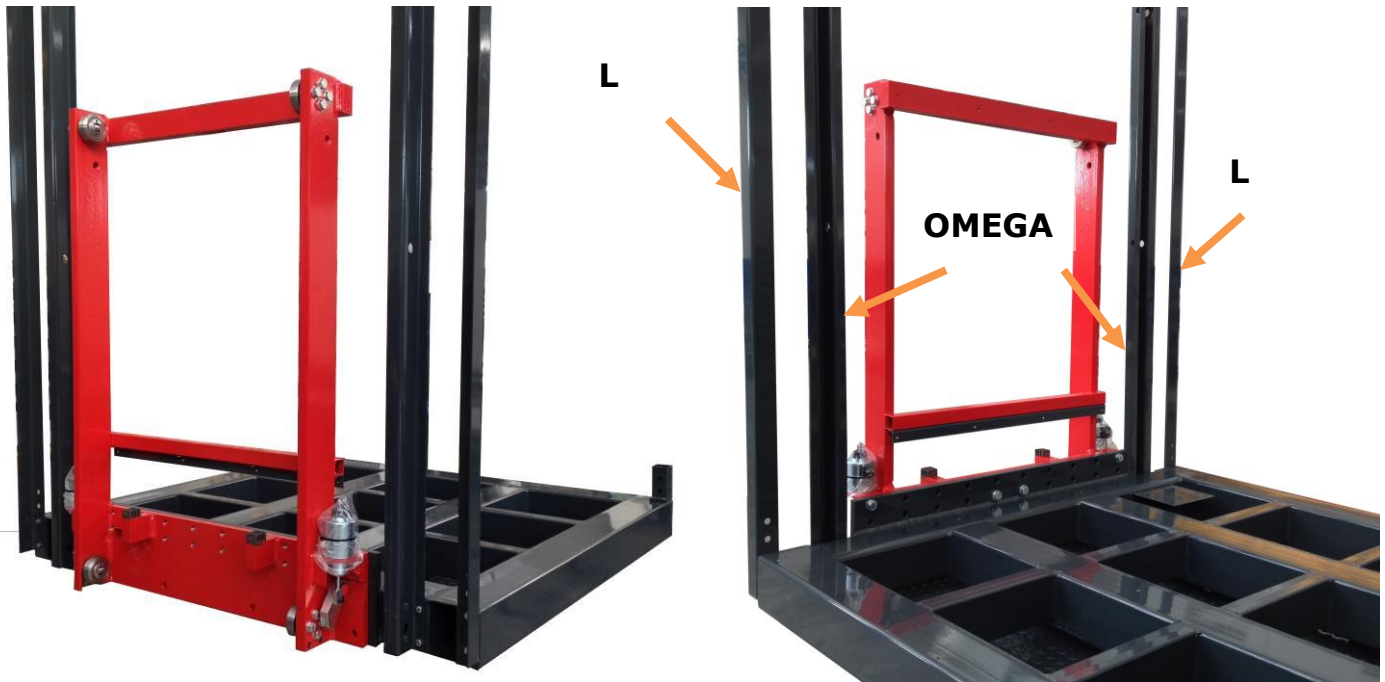
Apply the protection casing, ensure that the casing has been internally sealed, lastly insert the electromagnet connector.



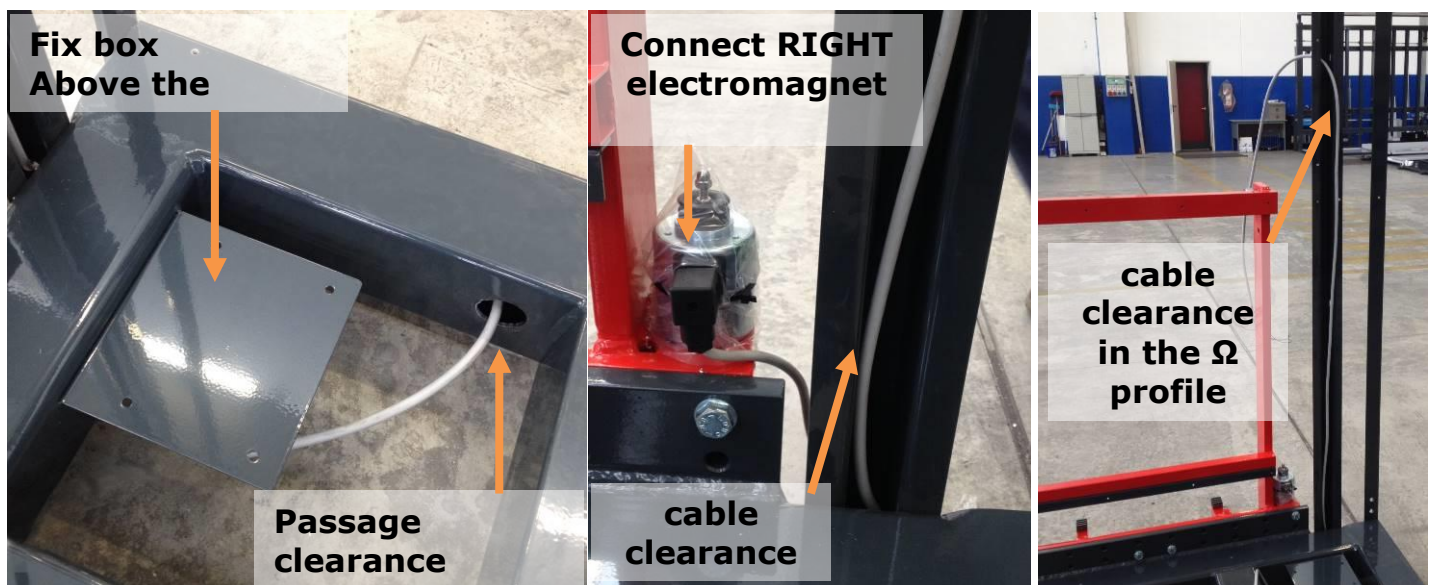
Apply the front protection casing by inserting the centring shims during insertion of the screws (only in models up to 2013).

6. MOUNTING THE SPB RAILING (Only models with SPB)

Position the Ω and L-shaped elements:



Position on-board pushbutton panel:



INSTALLATION MANUAL

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One level ahead.



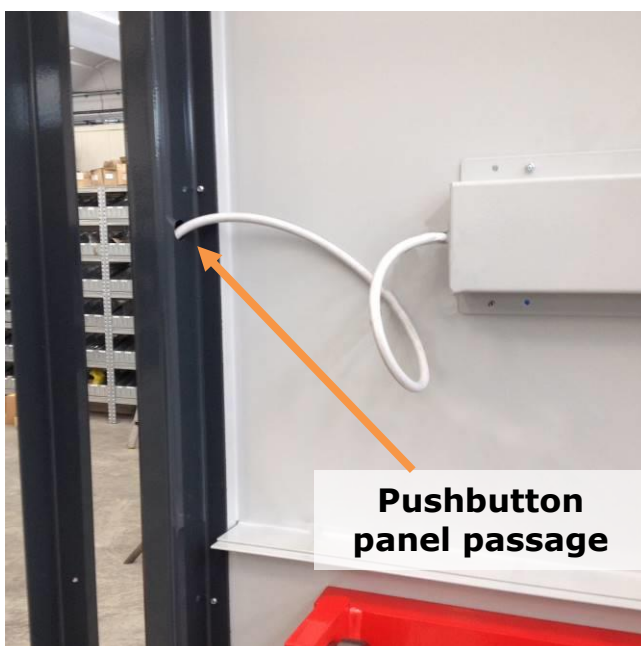
Position lower casing:



Fix upper casing:



Fix rear box:



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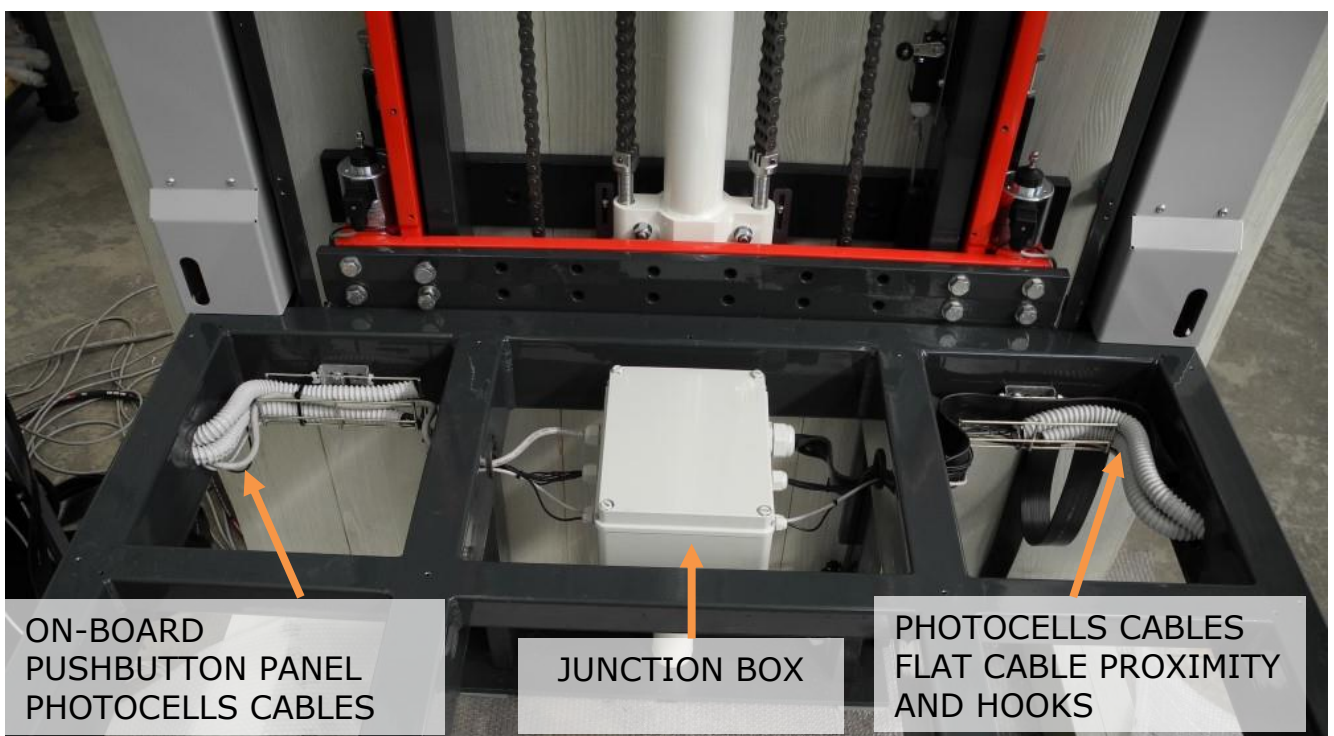
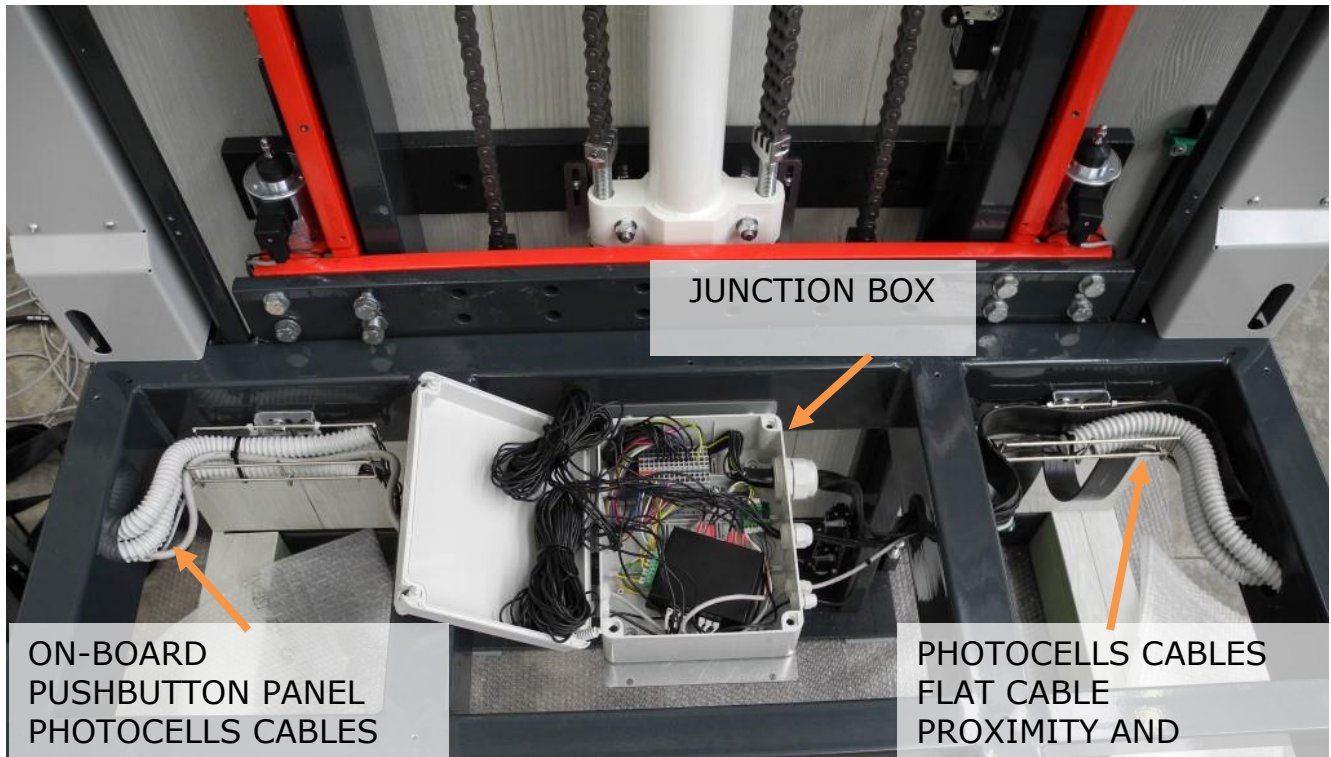
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One level ahead.

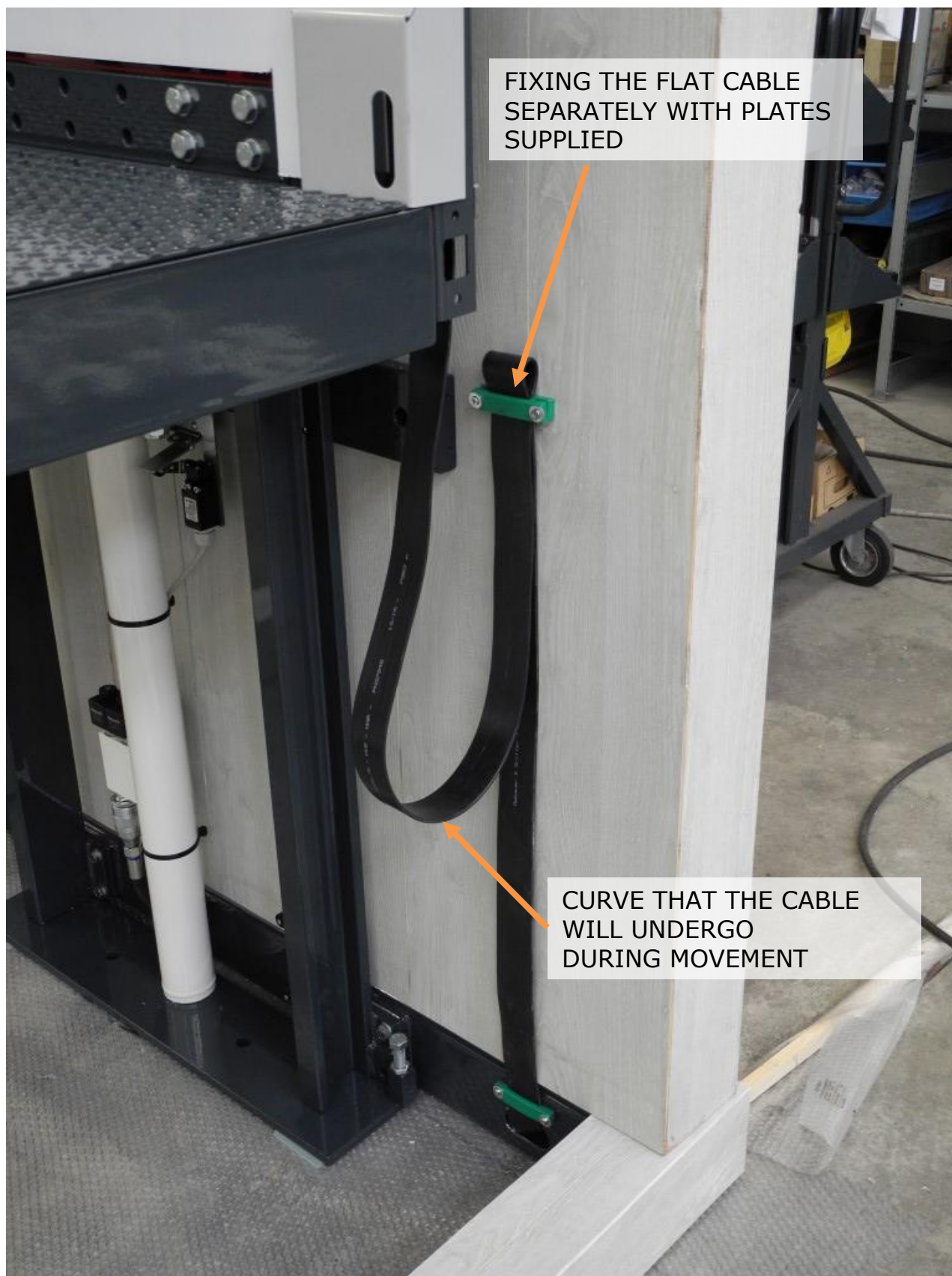
Position side casings:



CABLES PASSAGE



FLAT CABLE FASTENING



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 goods 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 150mm
- The lift shaft accesses must be protected with electrically-controlled landing doors.
- If there are protrusions between 20<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.



Lower guards with vertical sliding gate and safety electric lock

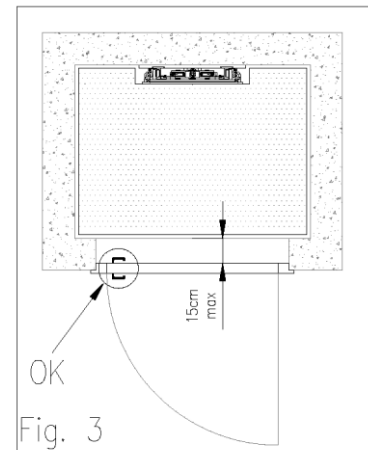
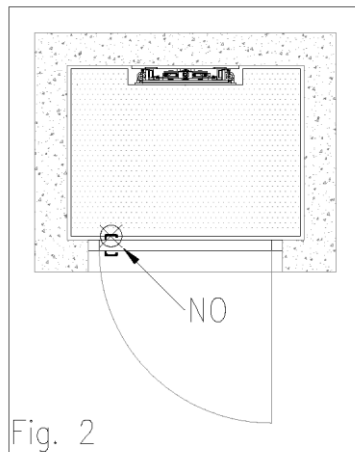
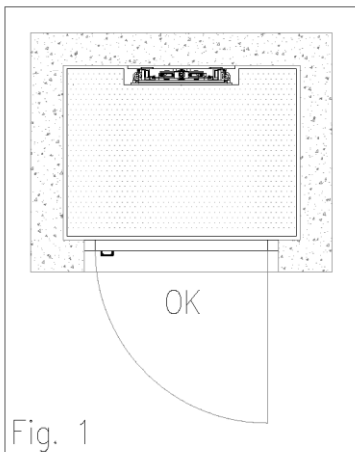


Protection guards on the upper floor with door gate and safety electric lock

LANDING DOORS

The landing doors must satisfy the following characteristics:

- The doors may be leaf-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 goods lift to prevent the risk of persons getting trapped inside (see figure 1).

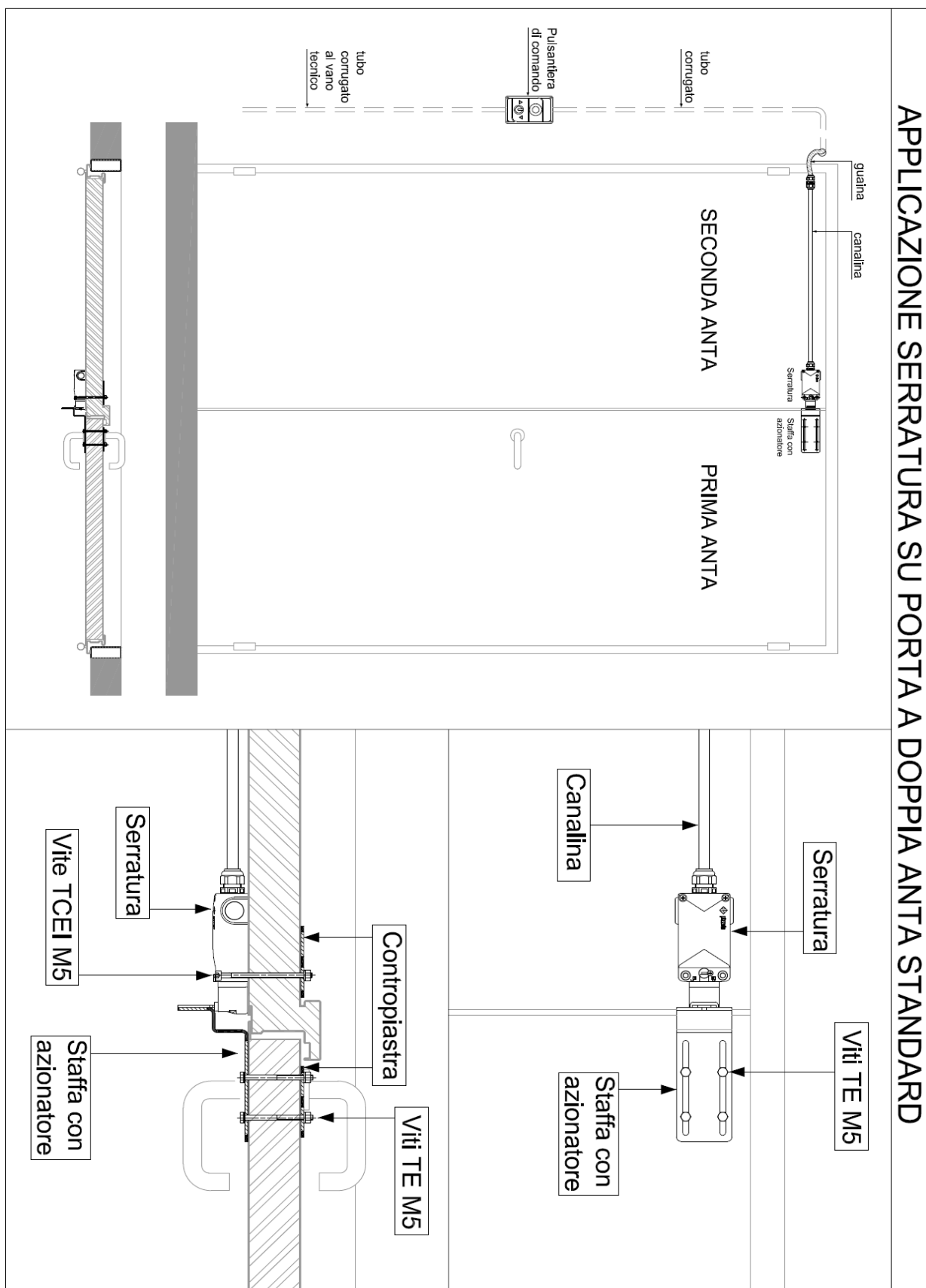


handle must not interfere with the platform
Application of standard

- 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 (see figure 3)
This type of door must not be of the type having 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 of the goods lift (see figure 2).

- 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.

APPLICATION OF ELECTRIC LOCKS ON THE MULTIPURPOSE DOORS



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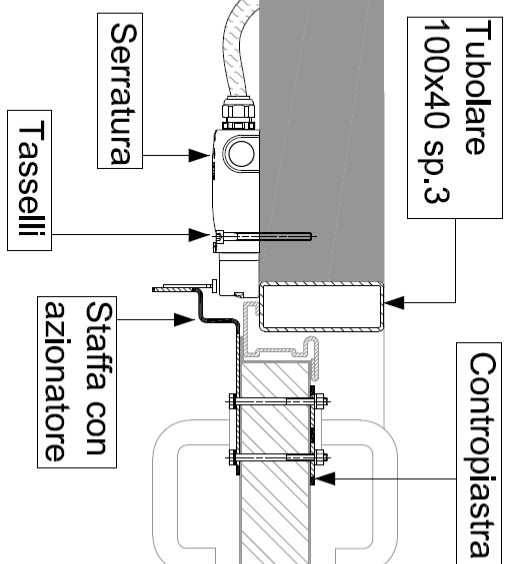
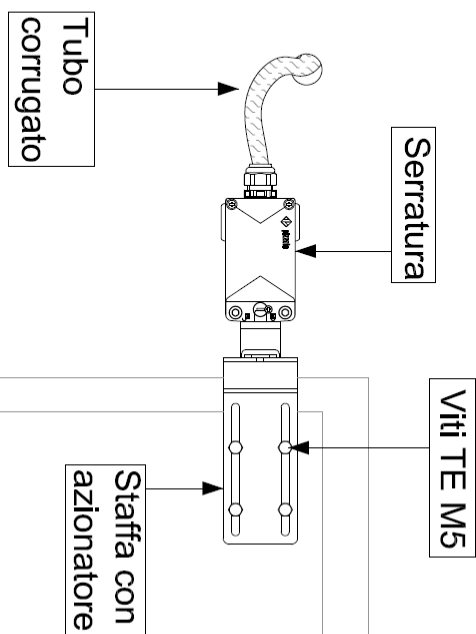
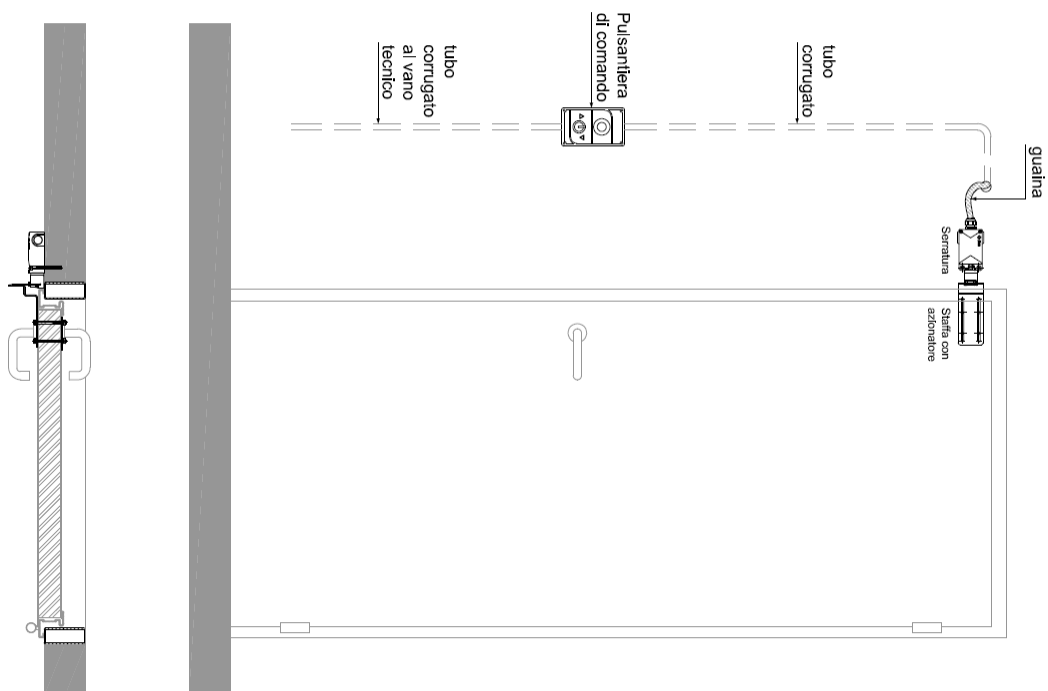
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SERRATURA SU PORTA ANTA SINGOLA CON PARETE CONTINUA



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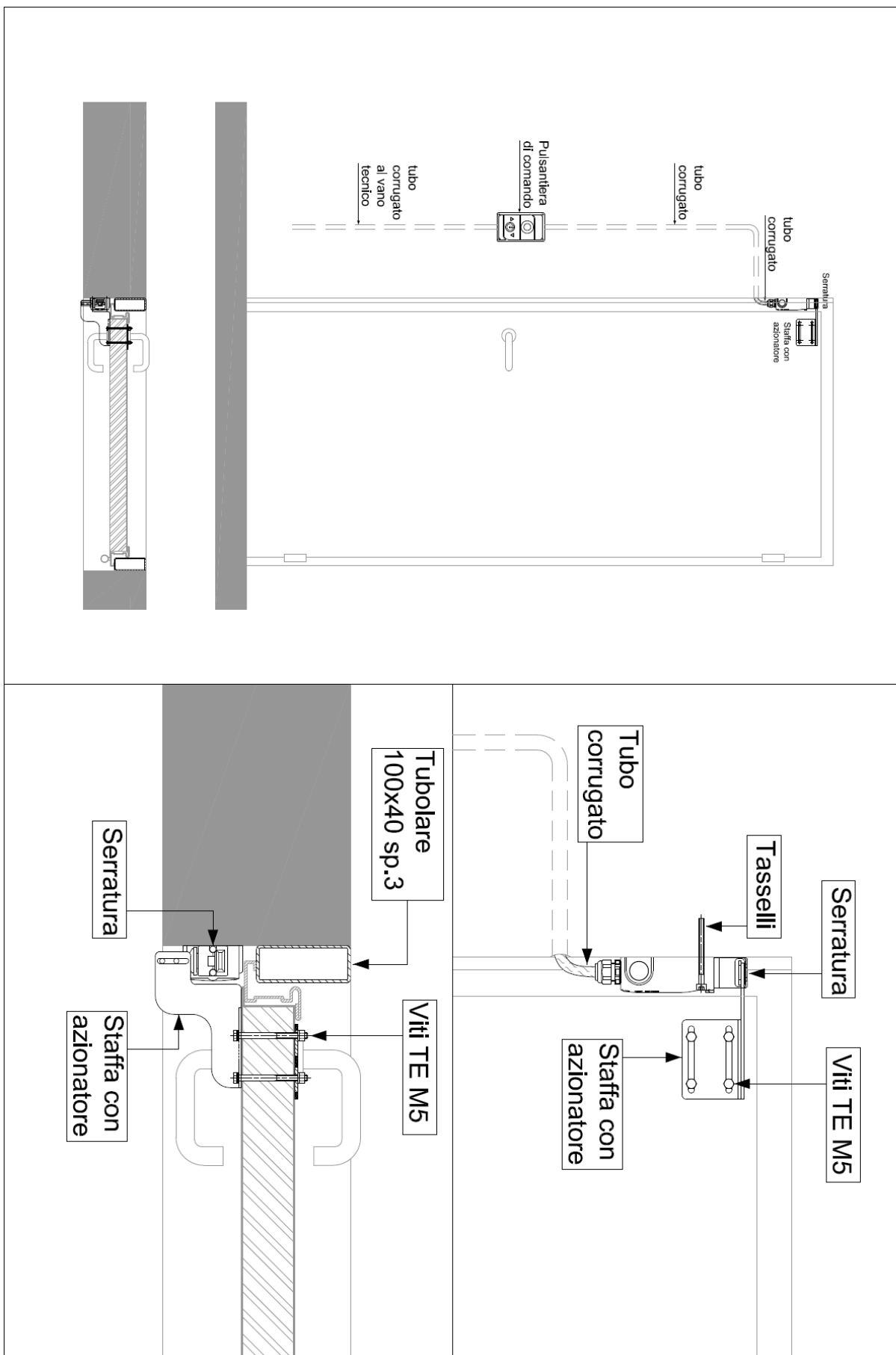
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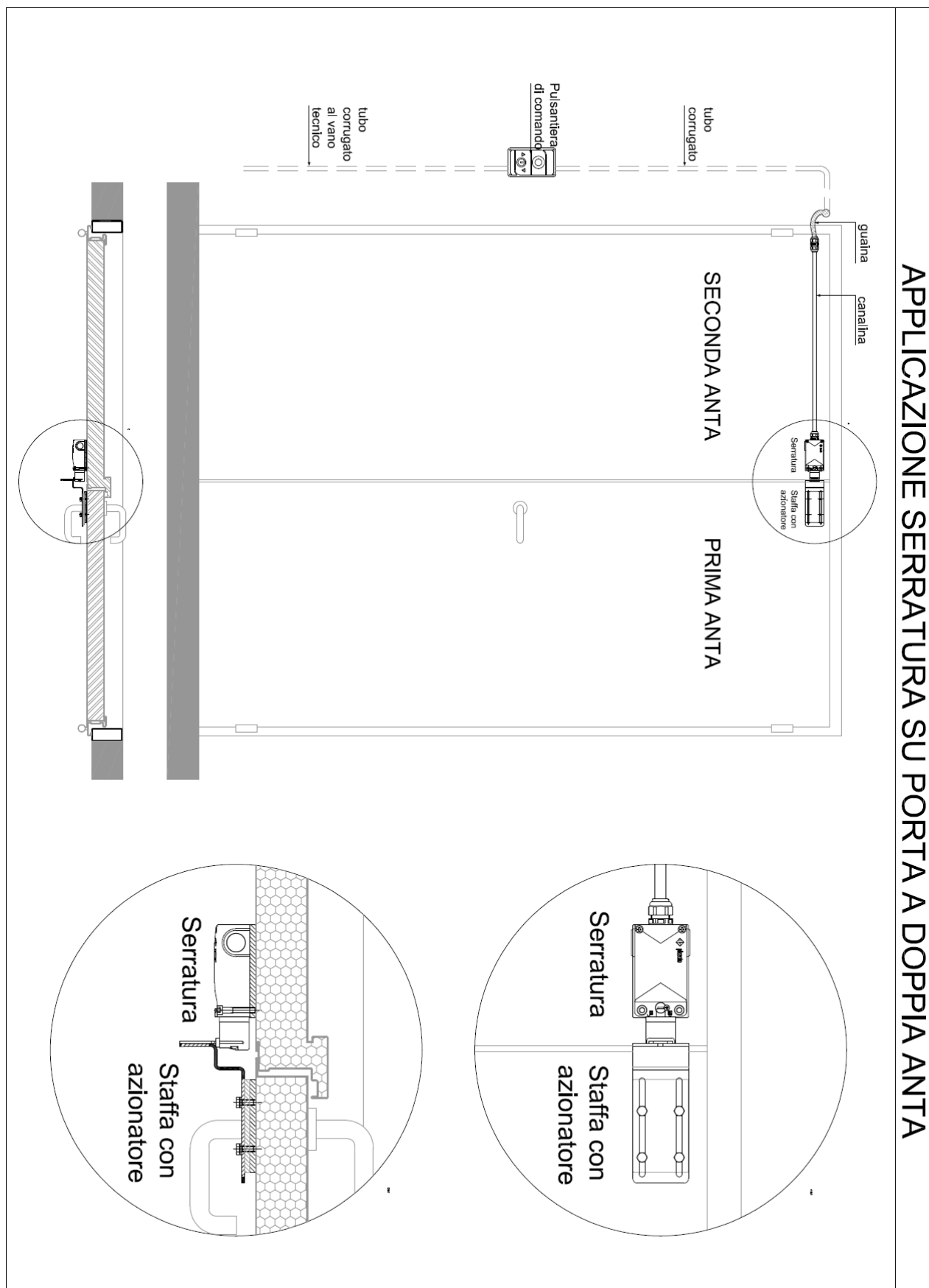
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SERRATURA SU PORTA ANTA SINGOLA CON PARETE DISCONTINUA



APPLICATION ON EI (REI) DOORS, WITHOUT FORCING



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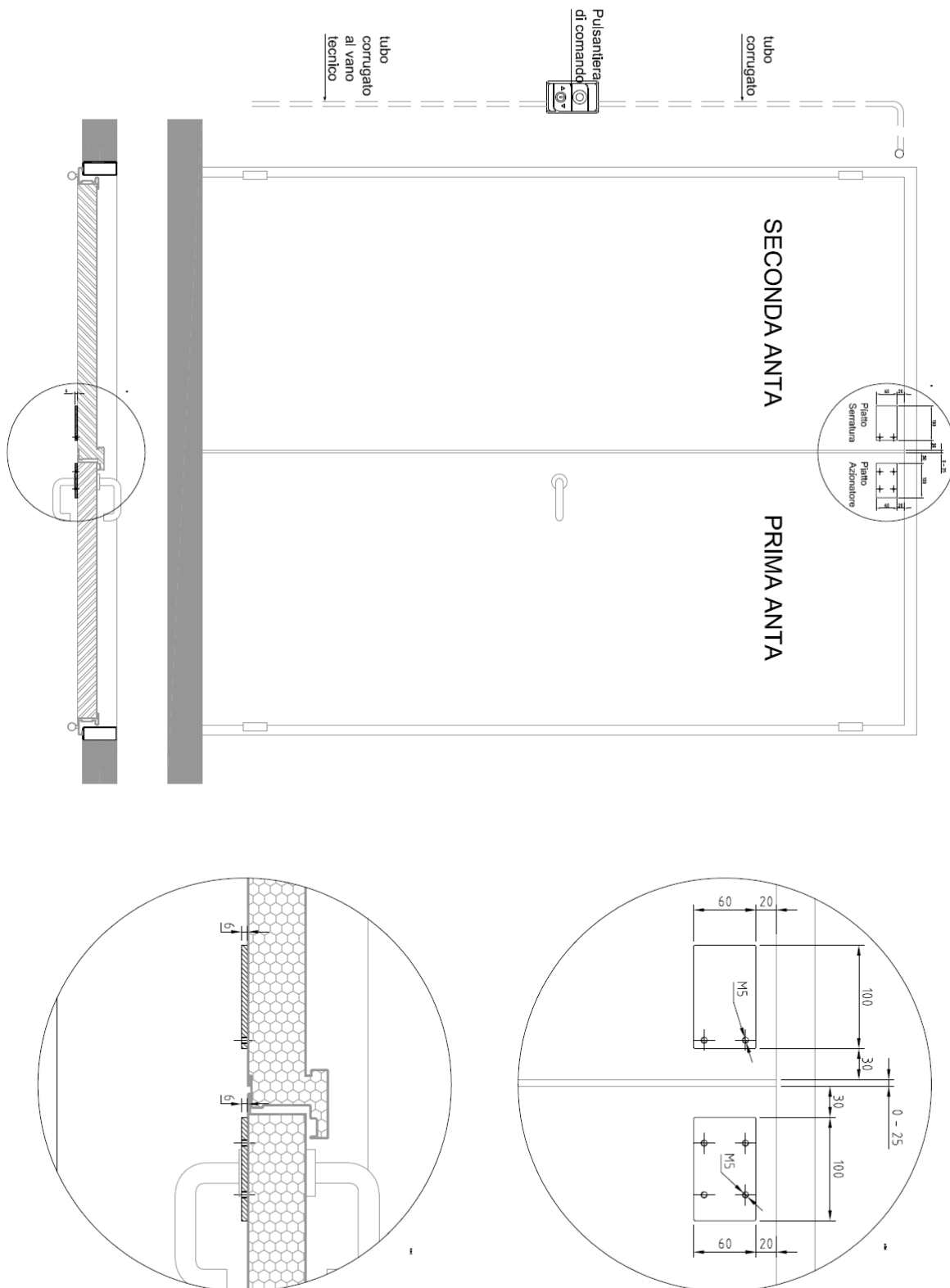
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PREDISPOSIZIONE PIATTI FISSAGGIO SERRATURA

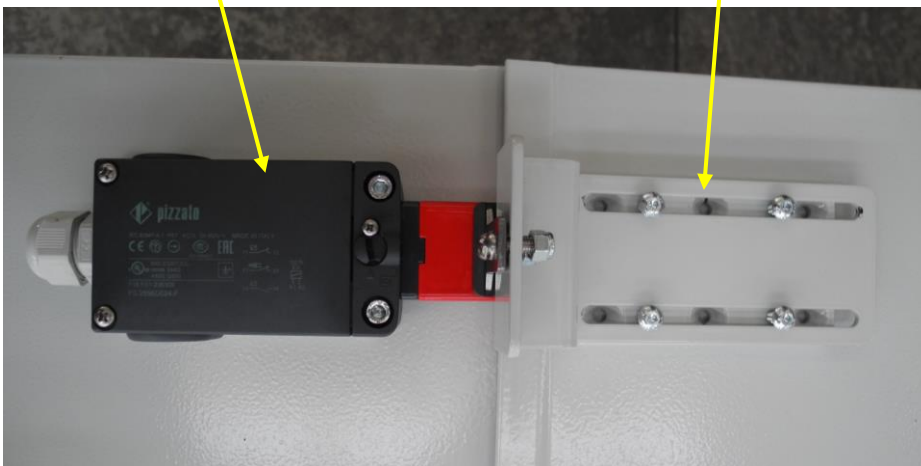


PREDISPOSING LOCKS ON FIRE DOORS EI60-120

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

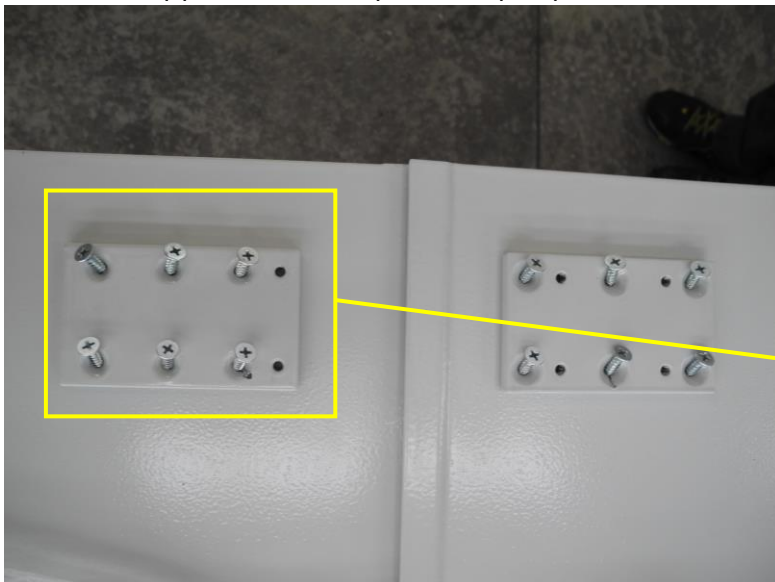


Position the two plates supplied on the upper part of the door, at about 30-40 mm from the upper edge; on the active door, position the plate on which the bracket with activator will be installed (thickness 8mm, 4 M5 holes); on the second door the plate for the lock (thickness 6mm, 2 M5 holes).



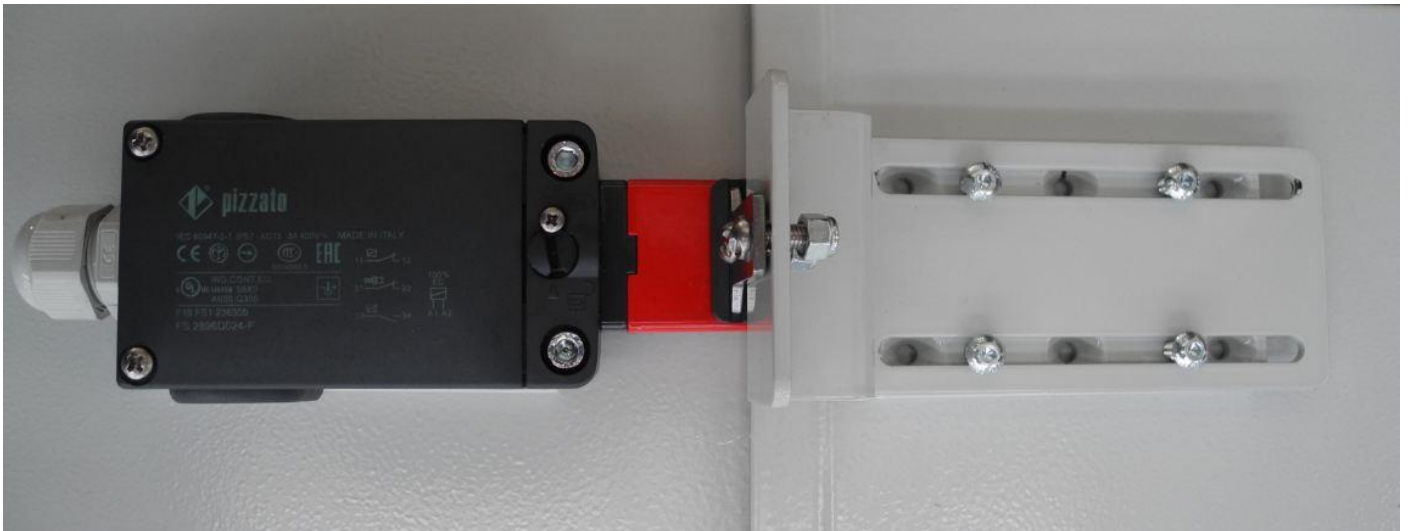
Ready the lock and the bracket with activator: once it is confirmed that there are no interferences and that the brackets are in the correct position, proceed to fixing the two plates.

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.

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)

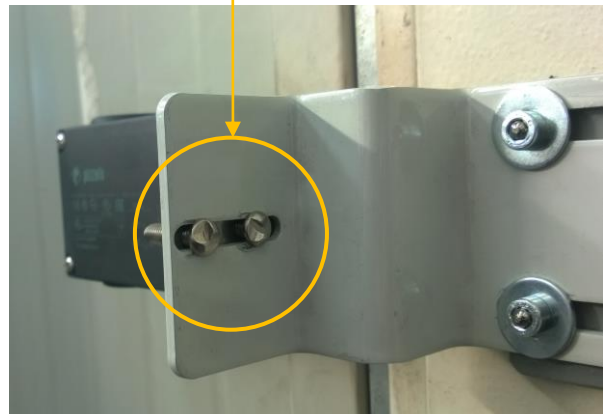
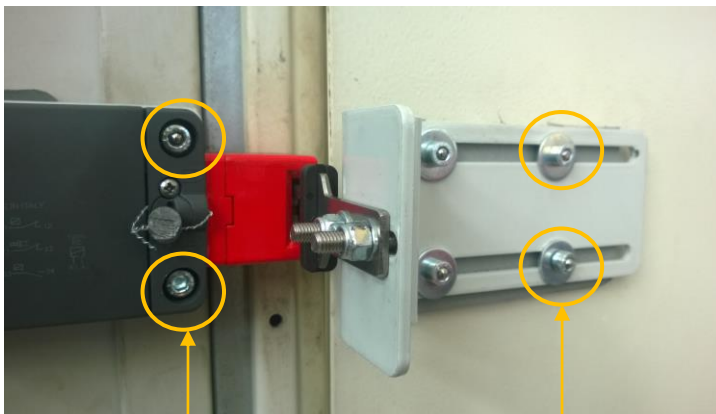
11 Pink	12 Grey	Coil excited signal
21 Green	22 Yellow	Door closed signal Preliminary
A1 White	A2 Brown	24VDC coil power supply



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

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. For the system to be operated the oil must be above the minimum level indicated on the tank

Wladoil Engine HY SY 32/B (approximate average characteristics)

- Density at 15°C:	0.868
- cSt viscosity at 40°C:	31.9
- Engler viscosity at 50°C:	3
- Viscosity index:	107
- Pour point °C:	-32
- Flammability VA °C:	224
- Aniline point:	97
- DIN 51 524 HLP classification:	32

INSTRUCTIONS FOR STARTING THE GOODS LIFT

The car 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 draining and completely filling the hydraulic circuit with oil. Air bubbles in the circuit may be harmful and cause instability during movement.

Instruments required: Control pushbutton panel installed,

Checks during starting up step:

- 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 hooking/unhooking 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 car 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

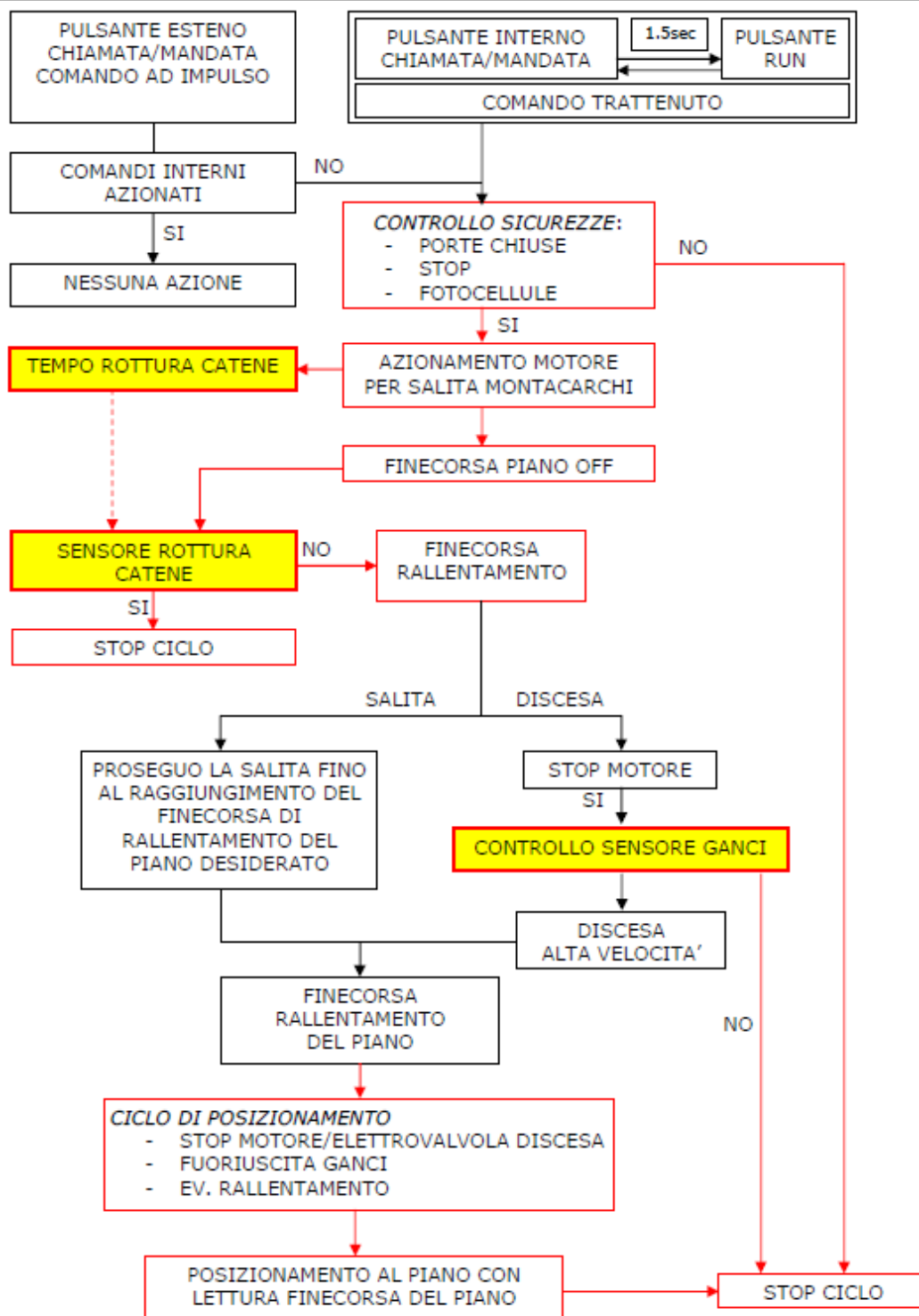
- Load a weight equal to 125% of the maximum permitted capacity for that goods lift model
- Check perfect integrity and static state of the machine
- Remove the load after a few minutes

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

OPERATING LOGIC

CICLO DI FUNZIONAMENTO MONTACARICHI UP - SPB (28-11-2013)



NOTE: Inserito "tempo di occupato" di 5 secondi, inibisce i comandi esterni appena terminata la manovra dall'interno e alla chiusura di una porta.
Iniziata la manovra dall'interno, può essere terminata solo dall'interno senza accettare comandi esterni escluso lo stop.

 = MANOVRA AUTOMATICA

 = MANOVRA AUTOMATICA SOLO DA ESTERNO

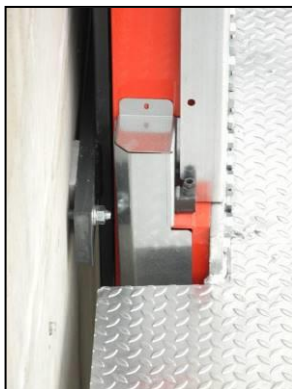
 = CONTROLLI SICUREZZE

LUBRICATING AND GREASING THE MECHANICAL PARTS



Lubricate the bearing, cylinder and chain guides.

CHECK FOR CORRECT FUNCTIONING



[14d] = flow regulator for the decelerating manoeuvre (if the flow regulator is present)

[14f] = check for interferences along the travel, in particular between the anchors and the carriage.

[14h] = check the motor phase

[14i] = Safety bolts for halting the carriage.



INSTALLATION MANUAL

Rev.8 Updated 26/06/2018

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37045 - Legnago (VR) Italy

One level ahead.

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

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.

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;

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