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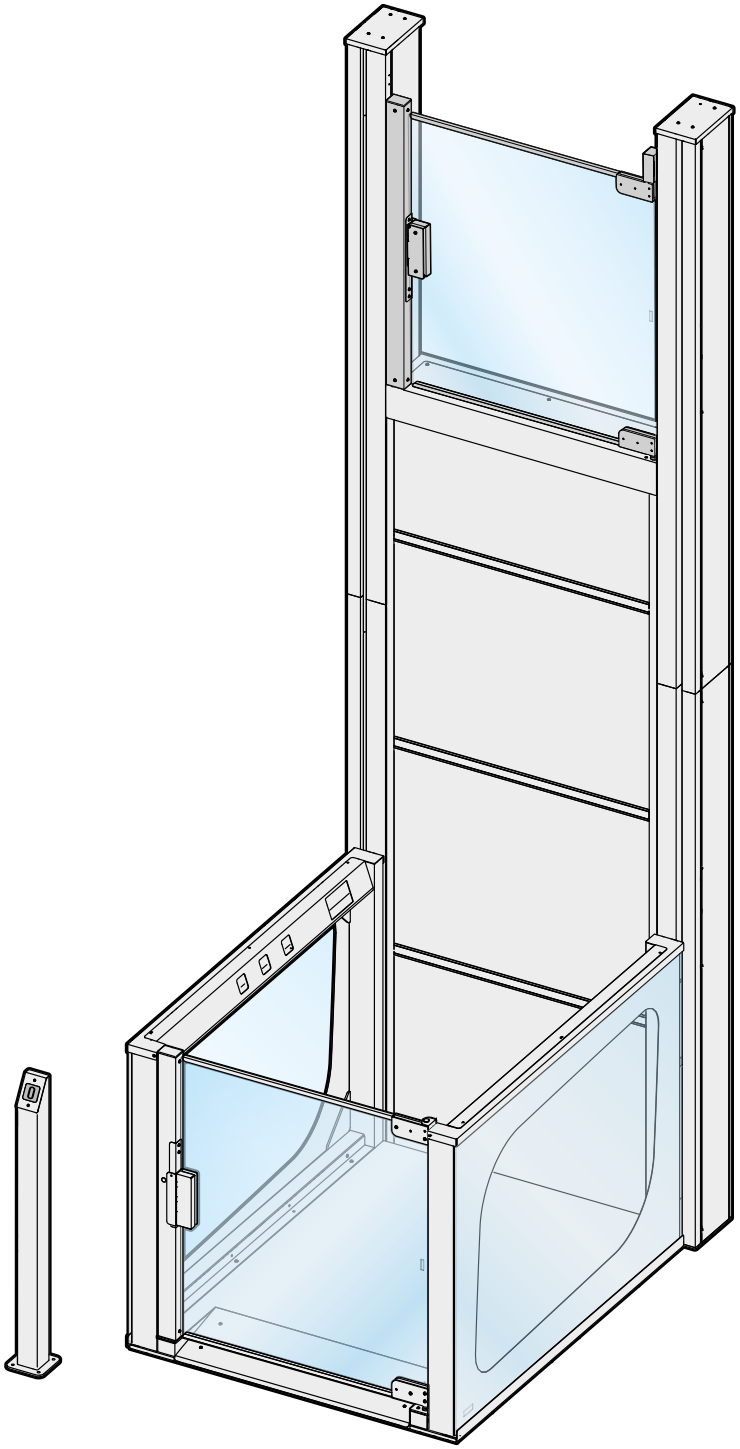
AREALIFT LIFTINGITALIA

EasyPlat

Electric belt driven low rise platform lift



sample images

FINAL CHECKS

1	General update	24.02.2021
0	First Edition	10.06.2020
Rev.	*Description*	*Date*

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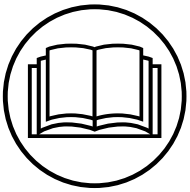
PURPOSE OF THE MANUAL

The purpose of this manual is to provide correct information on the installation and correct use of the product, in order to contribute to personal safety and to the proper functioning of the system. Keep the manual for the entire life of the product. In the event of a change of ownership, the manual must be provided to the new user as an integral part of the product.

NOTICE	
	**READ THIS MANUAL CAREFULLY** before installing and using the product. This product must be installed and put into operation according to the provisions and regulations in force. Improper installation or improper use of the product can cause damage to people and property, as well as cause the warranty to lapse.
	FOLLOW THE SUGGESTIONS AND RECOMMENDATIONS TO OPERATE IN SAFETY. Any unauthorised modification can compromise the safety of the system, as well as the correct operation and the life of the machine. If you have any doubts regarding the correct understanding of the information and contents contained in this manual, contact LIFTING ITALIA S.r.l. immediately.
	QUALIFIED PERSONNEL: The product covered by this documentation can only be installed by qualified personnel, in compliance with the attached technical documentation, above all in compliance with the safety warnings and the precautions contained therein.
	Keep the technical and safety documentation near the lift system.

PERSONAL SECURITY AND RISK RECOGNITION

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

RISK SYMBOLOGY AND PHRASES

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

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

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

MANUAL READING GUIDE

WARNING SIGN					
	GENERAL DANGER		ELECTRICITY DANGER		DANGER FLAMMABLE MATERIAL
	DANGER OF FALL BY A LEVEL		DANGER SUSPENDED LOADS		DANGER OF CRUSHING

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

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

EMERGENCY AND FIRST AID SIGNS		INDICATION SYMBOLS					
	FIRST AID		NOTE WELL		KEEP DRY		OBLIGATORY TO CHECK THE PROTECTIONS

LIABILITY AND WARRANTY CONDITIONS:

RESPONSIBILITY OF THE INSTALLER

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

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

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

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

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

1. TESTING AND DELIVERY OF THE SYSTEM

This manual contains the list of final tests needed for lift commissioning by the installer. Upon the completed commissioning, the installer will sign the protocol, indicating the exact date and the data of the installation company and special notes, if any.
The manual must be signed by the owner of the lift, to confirm the final commissioning and handover of the lift and the ownership of all the related documentation.
This manual must be filled in, following the instructions stated in the below paragraphs: the manual must be kept nearby the lift as part of the conformity documents; the last page form must be sent to the Supplier within 15 days from the date stated on the form itself, so that the warranty period can start.
Should the form not be sent as per the above instructions, the warranty will start on the date of the lift shipment and will not exceed the standard term.

2. CHECKS FOR CONFORMITY DOCUMENTATION

The single tests described below are to verify the correct assembly: each of them contains the requirements to be matched and the way to check them.

⚠ CAUTION!

QUALIFIED PERSONNEL:
The operations described in this paragraph, can be carried out by adequately qualified personnel.

The below listed operations are to support standard test procedures required by project and electrical drawings.
Should any of these operations lead to negative results, the related assembly operation must be repeated in accordance with installation instructions.

⚠ CAUTION!

CRUSHING RISK:
Before accessing the area below the lift, open the main driving force switch and activate the safe pit device.

⚠ CAUTION!

ELECTRICITY HAZARD:
Some of the operations require that the control cabinet be open and under power.

The tests are to be effected with the car empty, except those cases when the load is required.

NOTE 1: When the tests are to be effected "with the maximum static load", the car must be evenly loaded.

NOTE 2: When the tests are to be effected "with the maximum load", the car must be evenly loaded with the weight equal to the nominal load (indicated on the car plate).

NOTE 3: When the instructions recommend to "Refresh", go backwards through the steps described, to bring the lift back to the starting conditions.

2.1. TESTS CARRIED OUT DURING ASSEMBLY AND FIRST START-UP

Check the positive outcome of the tests of the 1st commissioning in the points of the maintenance manual (IM.TEC.115), and of the installation manual (IM.TEC.114): ☐

IM.TEC.115 5.2:

1. MOVEMENT TEST
2. EMERGENCY POWER SUPPLY TEST
3. SENSITIVE BOTTOM TEST
4. LOCKING DEVICES TEST
5. TEST OF EMERGENCY DESCENT IN THE EVENT OF A BLACKOUT
6. UPPER OVERTRAVEL TEST
7. EARTH CONNECTION TEST
8. POWER SUPPLY TEST
9. OVERLOAD TEST
10. WIRING TEST
11. PLATES AND DIAGRAMS TEST
12. SPEED CONTROL TEST - ACCELERATION - DECELERATION
13. BELT SLACKING SENSORS TEST
14. SAFETY GEAR TEST
15. BELT AND WINDING PULLEYS TEST
16. BELT TEST
17. ROLLERS TEST
18. RAILS TEST

IM.TEC.114:

6 .3 . SET UP OF THE ELECTRICAL POWER UPSTREAM OF THE PLATFORM
10 . ELECTRICAL AND ELECTRONICAL DEVICE
12 . FIRST RUNNING TEST

2.2. LIFTINGITALIA ORIGINAL MATERIALS

The installation must correspond to the design of LIFTINGITALIA. Therefore, the installer confirms that he has used, according to the design, all and only materials supplied by LIFTINGITALIA.

2.3. PROTECTION AGAINST CRUSHING DURING MAINTENANCE TASKS

Check that maintenance operation is enabled with the platform on the lowest floor:

I. Enable maintenance operation on the control panel.

II. I. Check that the off-level treadle buzzer sounds. ☐

III. Bring the platform to the lower floor.
IV. Check that the acoustic signal is correctly interrupted.
V. Check that the platform is actually in maintenance operation.
VI. Reset the platform.

PLATFORM LOADED WITH MAX STATIC LOAD

2.4. SYSTEM STRUCTURAL TEST

After loading the platform with the maximum static load, check that **there is no permanent deformation** of the system. ☐

PLATFORM AT FULL LOAD

2.5. LIFTING AND DESCENT SPEED TEST

Check the lifting and descent speeds with the platform fully loaded:

I. measure the distance between two floors (metres);
II. standing at the floor, call the platform up from one floor to the other and note the travel time (in seconds);
III. repeat for descent;

IV. calculate the speed as distance (in metres) divided by time (in seconds);

V. the speed shall not exceed 0.10 meters/second; ☐

VI. reset the system.

PLATFORM BOTH AT FULL LOAD AND EMPTY

2.6. STOPPING ACCURACY

Check the stopping accuracy (both with empty platform and with platform fully loaded):

I. issue the command, always from the floor control station;

II. with the platform loaded, carry out a lifting, allowing the platform to stop at the floor;

III. open the landing door and, without entering the platform, measure the vertical difference in height between the platform threshold and the landing floor;

IV. repeat in lifting and descent with empty platform;

V. maximum permissible difference in height in all cases: 10 mm above or below the floor. ☐

EMPTY PLATFORM

2.7. "STOP" BUTTON AND ALARM BUTTON

Check that the stop button stops the system and that the alarm button beeps:

I. stop the platform between floors by pressing the STOP button;

II. control the lifting and descent from the platform control station: **the system must not move**; ☐

III. repeat from the floor control station: **the busy signal is on and the system must not move**; ☐

IV. press the alarm button: **the siren must sound**; ☐

V. reset the system.

2.8. EMERGENCY POWER SUPPLY

Check the efficiency of the emergency power supply:

I. bring the platform to an upper stop;

II. switch off the power supply by switching to on the mains switch of the system, not the "FM" mains switch, to simulate a mains power failure;

III. the platform emergency lighting lights up; ☐

IV. press the alarm button: **the siren must sound**; ☐

V. press and hold any manoeuvring button, **the platform goes down and stops at the lowest stop level, the door can be opened**; ☐

VI. reset the system.

2.9. COMMANDS

Check that the commands given are correctly carried out:

I. a person on the platform tries to send the system to all stops, in lifting or descent, verifying the regular automatic stop;

II. releasing the platform button in advance should stop the system immediately;

III. the platform call is tested from all floors, checking the regular automatic stop and the operation of the busy and present signals.

IV. releasing the floor button in advance, the system must stop immediately. Repeat the same two sentences with reference to the commands coming from the remote controls.

2.10. LIMIT SWITCH AND SAFETY SPACES IN THE HEAD

Check the triggering of the limit switch and the safety space in the head:

I. send the platform to the top floor;

II. from the electric board, control platform lifting with the ⩓ button until **the limit switch triggers** (the switch has triggered when the system does not respond to an external call); ☐

III. from the platform, measure the distance between the outer surface of the car ceiling and the lower surface of the shaft ceiling: ☐

IV. a) with only standing persons allowed on the platform: 2000 mm;

V. b) with only a person on a chair on the platform (indicated on platform plate): 1600 mm.

VI. repeat the triggering of the limit switch with the platform on the lowest access.

2.11. LANDING DOOR LOCKS

Check the landing door locks.

a) the lock must lock the landing door; this condition is automatically checked with the following conditions b) and c).

b) **the locks must allow a maximum unlocking area of 50mm** above and below the level of each landing; to verify this: ☐

I. standing on the platform, go to the top landing and then command the descent toward the bottom stop;

II. when approaching a stop, push slightly with your hand on the landing door;

III. when the door opens, the system must stop even if it is not yet level;

IV. measure the difference in height between the landing threshold and the platform threshold; **maximum distance 50 mm**; ☐

V. repeat for all stops, both above and below the level of the floor;

c) outside the unlocking zone, the system will only operate with the doors closed and locked. The movement is controlled by the removable bridging piece of the bolt, and by the removable bridge piece for preliminary approach of the leaf. To check the independence and effectiveness of both switches:

I. move to the lower floor and open the door;

II. short-circuit the bolt switch;

III. command lifting from the platform: the system must not move;

IV. remove the short-circuit from the lock switch (bolt), insert the short-circuit on the (preliminary) approach switch. Check that the lock switch (bolt) remains open;

V. command lifting from the platform: the system moves, then stops;

VI. remove the short-circuit and measure the difference in height between the landing threshold and the platform threshold; **maximum distance 50 mm**; ☐

VII. repeat for all stops, both in lifting and descent.

d) it must not be possible to open the lock voluntarily while standing on the platform; to check it:

I. bring the platform about 30 cm above or below a stop;

II. Press STOP;

III. check that the relative protection is applied next to each lock lever;

IV. check that the lock lever cannot be moved with your fingers; ☐

V. re-enable run and repeat for all stops.

2.12. DISTANCES FROM THE ENTRANCE

Check the maximum distance between the shaft and the platform entrances:

I. measure the distance between the carrier, the doors and the shaft wall in front of the access: **the maximum distance between shaft and carrier must be 20 mm at any point throughout the travel** ☐

2.13. DISTANCE FROM THE PLATFORM

Check the maximum distance between the wall/shaft and the platform entrances:

I. Measure the distance between the platform and the wall in front of the entrance: **the distance between the wall and the paltform must be 20 mm max. at any point for the entire travel**.
II. Check that the horizontal distance between the outside of the platform and any point of the shaft **is always greater than 100 mm along the entire travel**. ☐

2.14. PLATFORM BRACKETS

I. Check that the fixing points in the pit and on the platform wall are in the positions indicated on the project drawing.
II. Check that the anchoring surfaces have adequate strength to withstand the maximum loads declared on the project drawing. ☐

Verificare la continuità elettrica:

I. con l'impianto in condizioni di marcia, produrre un corto circuito tra l'ultimo punto della serie delle sicurezze e la terra;
II. verificare l'arresto della piattaforma e che il dispositivo di protezione intervenga (alimentatore switching); ☐
III. eliminare il cortocircuito. L'impianto si ripristina in automatico.

2.15. ELECTRICAL INSULATION OF THE SYSTEM

Check the grounding insulation (**least 0.5 MΩ**) by following the specific instructions given in the electrical panel manual. ☐

2.16. BUTTON ENABLING KEY (optional)

To check their operation:

IV. on the platform, without switching the enabling key, try to command lifting and descent: the system must not move;
V. press the alarm button: the siren must sound
VI. repeat after switching the key: the system must move smoothly;
VII. repeat from each floor, switching the floor key.

2.17. ELECTRIC BOARD

Verify that:

I. Sufficient lighting is available to obtain perfect visibility and identification of the components inside the switchboard. ☐
II. The electric cables connected to the machine are protected against possible damage and can be easily inspected. ☐

2.18. SIGNAGE

Check that the following plates and signs are correctly applied: ☐

I. On the electrical panel, indicating the electrical danger and instructions for manual emergency operation.
II. Next to the main power switch, which indicates the intervention methods.
III. On the platform, indicating the capacity and name of the manufacturer and the instructions for emergency operation through the control panel (in the event of a power failure).
IV. At the external platform alarm, which indicates its function.

List of installed safety components:

Safety component	Component type
Landing door lock	

SYSTEM No. _____ __		YEAR OF MANUFACTURING: _____
DUTY LOAD: _____		TRAVEL: _____ _ m
No. OF STOPS: 2	No. OF SERVICES: 2	No. OF PLATFORM ACCESSES: 2
Manufacturer: LIFTINGITALIA S.r.l. Address: V. Caduti del Lavoro, 16 - 43058 Bogolese di Sorbolo (PR) - ITALY tel. +39 0521.695311 - fax. +39 0521.695313		Supplier: LIFTINGITALIA S.r.l. - AREALIFT S.r.l. Address: V. Caduti del Lavoro, 16/20 - 43058 Bogolese di Sorbolo (PR) - ITALY tel. +39 0521.695311 - fax. +39 0521.695313
Owner: _____ Address: _____ _____ Tel. _____ - Fax. _____		Installation site: _____ Address: _____ _____ Tel. _____ - Fax. _____
Installer: _____ Address: _____ _____ Tel. _____ - Fax. _____		Checks carried out on: _____ ___ by Mr. _____ as representative of the installer
Possible notes: _____ _____ _____		

Confirmation of final check and commissioning for system No. _____

All checks were successful ☐ **YES** ☐ **NO**

Notes: _____
_____
_____
_____
_____
_____

Date _____ Installer/Verifier signature: _____

The installer certifies that the installation has been carried out in a workmanlike manner, since all the checks have been successful.

The manufacturer draws up the relevant EC declaration of conformity and the installer may affix the CE marking to the platform.

The system can be put into service when it meets the characteristics required by the reference standards.

COPIA DA INVIARE AL FORNITORE

Confirmation of final check and commissioning for system No. _____

All checks were successful ☐ **YES** ☐ **NO**

Notes: _____
_____
_____
_____
_____
_____

Date _____ Installer/Verifier signature: _____

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