

ali@ka

the roller shutter with adjustable slats

KIKAU

ALIKA

THE ROLLER SHUTTER WITH ADJUSTABLE SLATS_by KIKAU

INSTALLATION, USE AND MAINTENANCE MANUAL

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This manual provides the information necessary for the safe and correct installation, use and maintenance of the product. This manual is also available in electronic format (.pdf), and can be downloaded from the website www.kikau.it/alika. We recommend that the manual is read carefully before installation and/or use of the product.

DESCRIPTION OF THE PRODUCT AND ITS COMPONENTS

Alika is a roller shutter shading system with adjustable slats, consisting of a blind that can be raised and lowered and which retracts like a standard roller blind. In its lowest position Alika allows the gradual orientation of the slats to adjust the levels of light and air entering the room.

Alika is a product for the building industry for domestic and/or industrial use (external shading system compliant with UNI EN 13659). The manufacturer is not responsible for any injury or damage to people and/or property caused by any improper or incorrect use of the product. Installation must be performed by qualified tradesperson following the instructions given in this manual and/or posted on the website of the manufacturer.

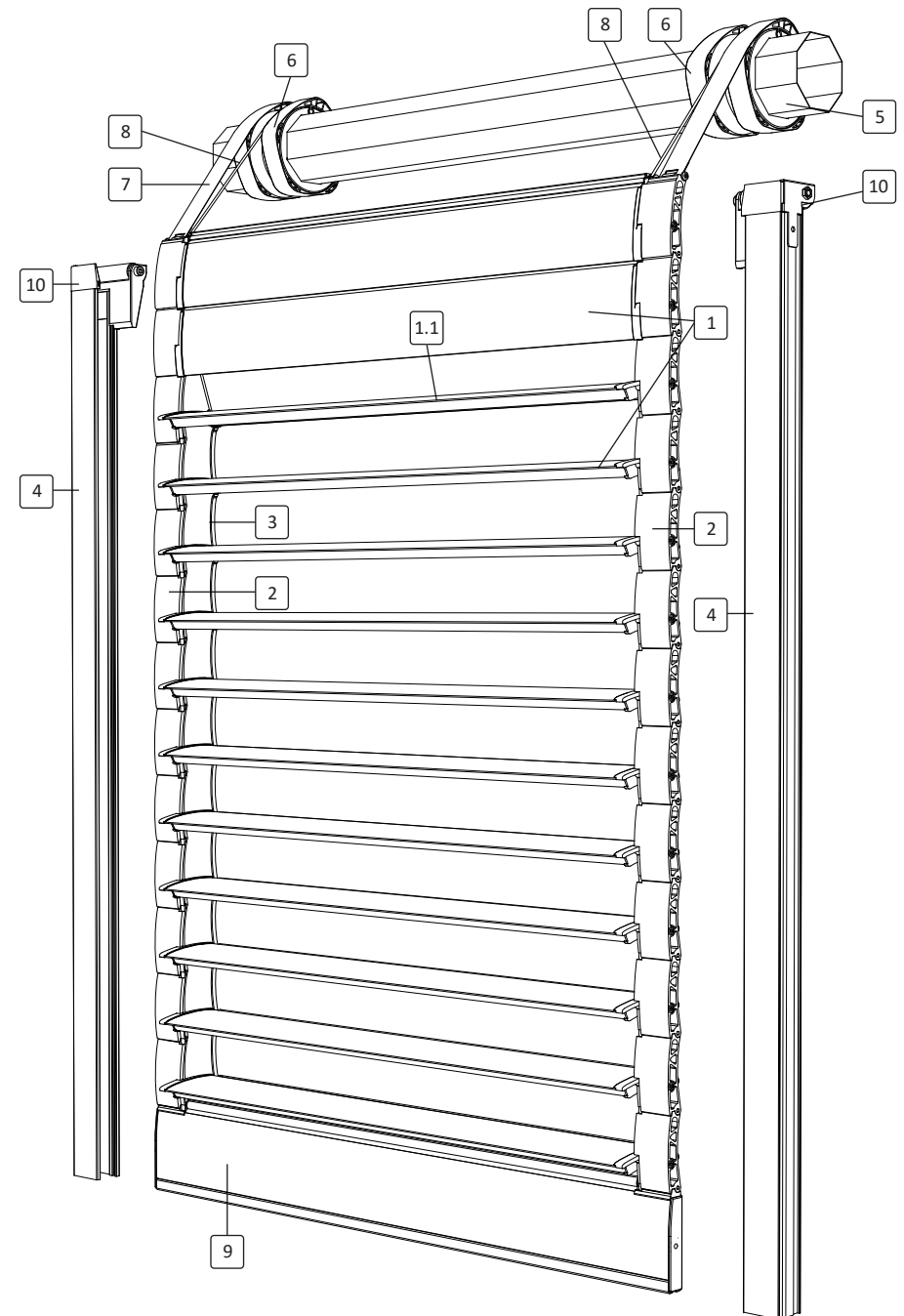
COMPONENT LAYOUT AND TECHNICAL SPECIFICATIONS

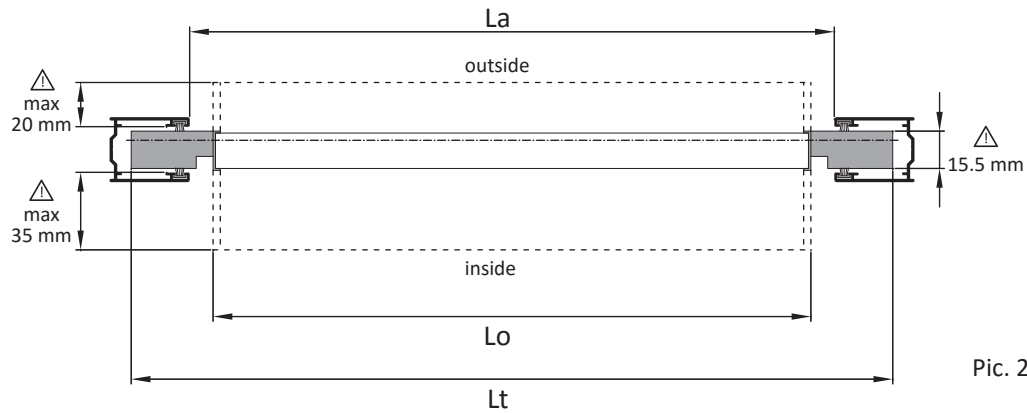
- 1 Slat**
Profile in extruded aluminium alloy 6060
- 1.1 Driving Slat**
Profile in extruded aluminium alloy 6060
- 2 Lateral Support**
Component made of nylon added with fiber glass
- 3 Connecting Rod**
Component made of stainless steel
- 4 Standard Guide**
Profile in extruded aluminium alloy 6060
- 5 Standard Roller Tube**
Profile in galvanized steel diameter 60 mm (not included)
- 6 Pulley**
Component made of extruded alluminium alloy 6060 with rings made of nylon
- 7 Belt**
Component in stainless steel
- 8 Cord**
Coated stainless steel, terminal elements in zama and stainless steel
- 9 Lower Crossbar + Brush Seal Holder**
Profile in extruded aluminium alloy 6060
- 10 Slide Cap**
Body of component made of nylon caricato added with fiber glass, roller in plastic material self-lubricating, support in stainless steel

- Screws and other parts**
Stainless steel
- Gasket for Slats**
PVC co-extruded
- Brush seal**
PVC

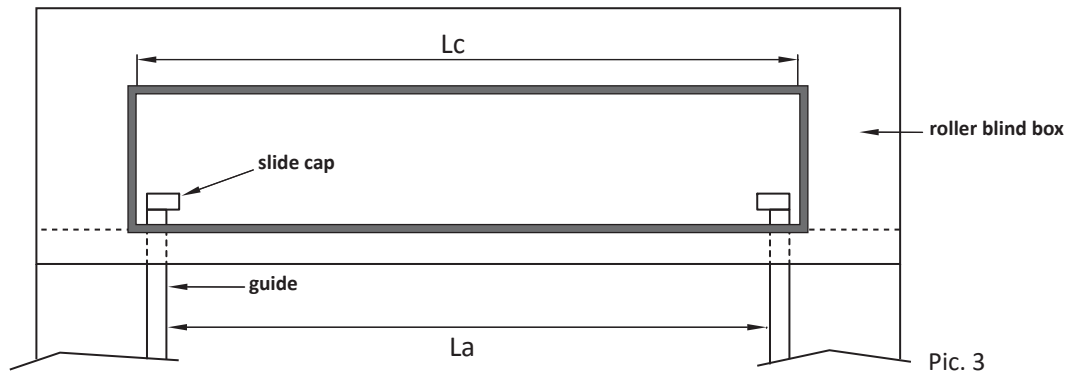
Curtain Specifics

Curtain weight (without guides, pulleys, roller tube):	10,5 Kg/mq approx.
Number of slats per meter of height:	16.67
slat wheelbase:	60 mm
Curtain thikness (inside the guide):	15.5 mm
Maximum dimensions possible with single curtain:	200 cm in width (La)
	280 cm in height (Ha)
Conformity UNI EN 13659:	class 6 wind resistance
	class 3 mechanical resistance





Pic. 2

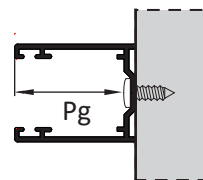


Pic. 3

- Lt = Curtain Width
- Lo = Slats Width
- La = Architectural Width
- Lc = Box Inspection Width
- Pg = Guide Depth
- Hi = Internal Architectural Height
- He = External Architectural Height
- Hs = Box Base Thickness
- Da = Wrapping Diameter of Curtain
- Xr | Yr = Position of Axis of Roller Tube

! WARNING!

- The internal dimension of slats in maximum opening position is **35 mm**
- The external dimension of slats in maximum opening position is **20 mm**
- The maximum dimension of the curtain inside the guide is **15.5 mm**
- **Lc** must be not less **Lt** with lower or frontal box inspection
- **Lt = La + 45 mm** on guides with internal depth **Pg = 30 mm**
- **Lt = La + 40 mm** on guides with internal depth **Pg = 25 mm**



Pic. 4

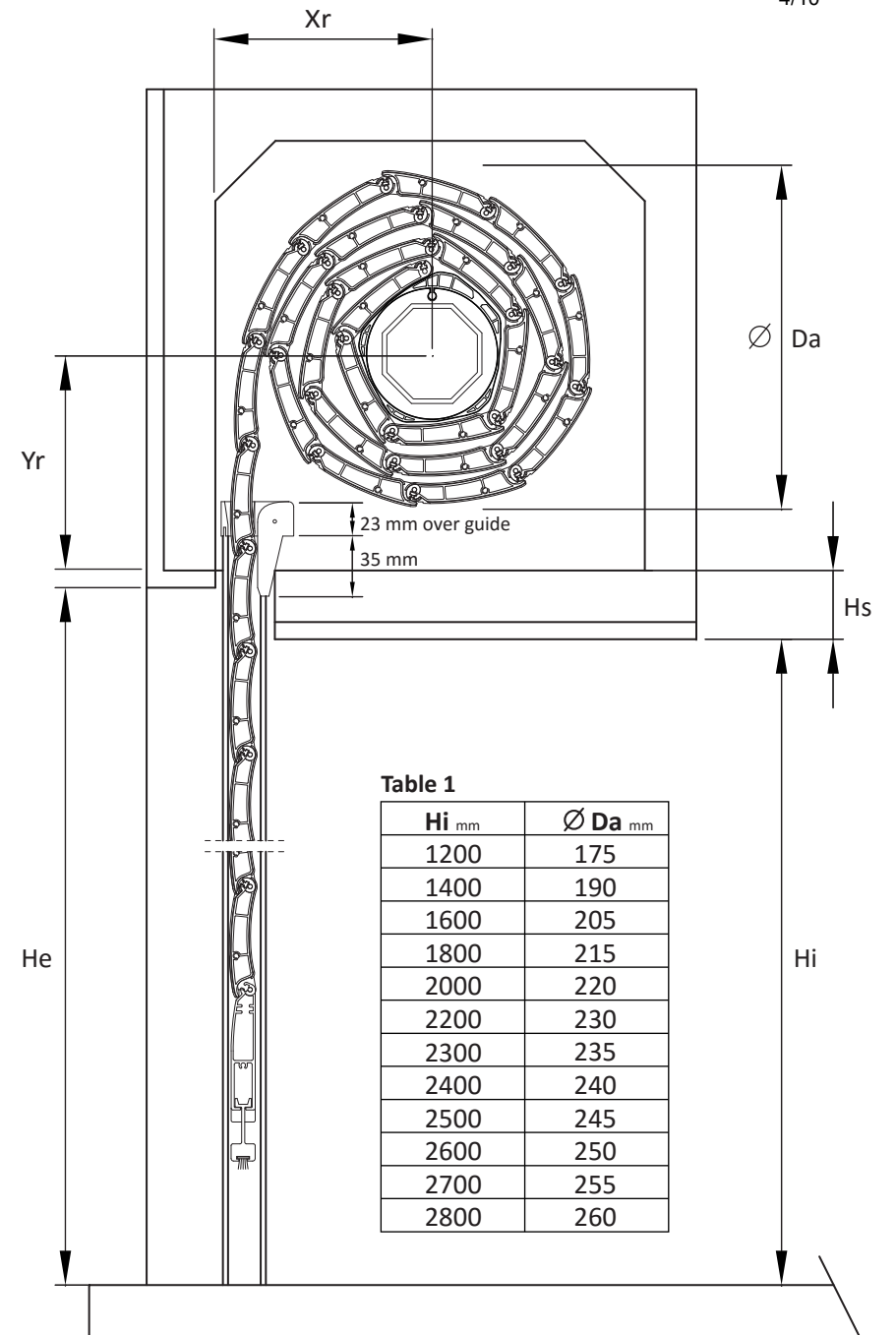


Table 1

Hi mm	∅ Da mm
1200	175
1400	190
1600	205
1800	215
2000	220
2200	230
2300	235
2400	240
2500	245
2600	250
2700	255
2800	260

Pic. 5

INSTALLATION GUIDE



WARNING: Installation of this product must be performed by competent tradesperson following the instructions and warnings provided in this manual.

Do not make any changes to the product and/or its configuration without consulting the manufacturer.

On completion of installation, the installer must provide this “Installation, Use and Maintenance Manual” to the end user and must explain the correct use and operation of the product.



WARNING: GENERAL DANGER

During installation, always wear work gloves, safety shoes and other appropriate safety protection.

Use ladders and suitable equipment certified to work in complete safety.



WARNING: DANGER OF CRUSHING, FALL, TRIPPING AND CUTTING

Take extreme care when opening the packaging, during handling and when lifting the roller shutter and during its insertion within the roller blind box and/or inside the guides. The roller shutter must always be moved by at least two persons and/or with the aid of a trolley or other suitable mechanical handling aid.

Keep anyone who is not responsible for installation (especially children), away from the working area.

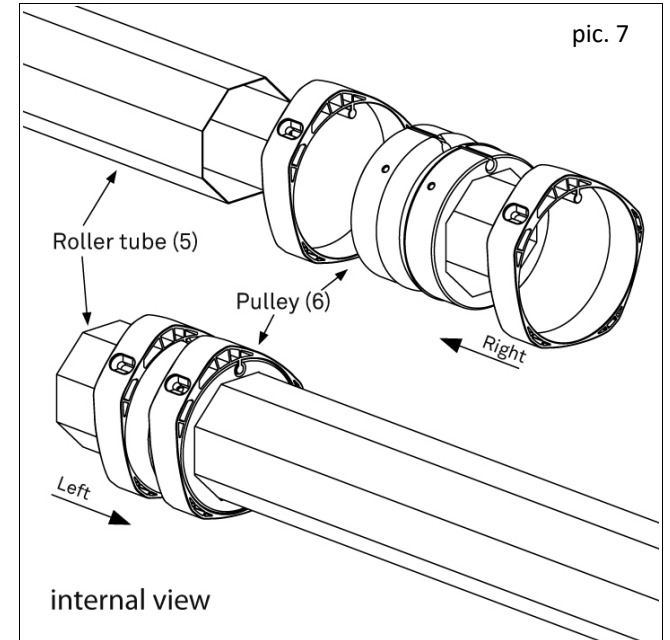
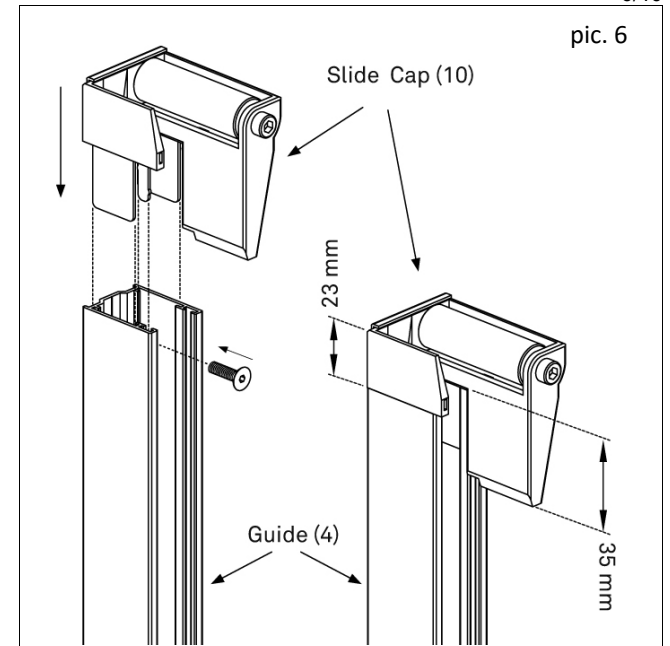
Make sure that the floor of the working area is free from trip hazards such as tools or other objects.



WARNING: DANGER OF ELECTRIC SHOCK

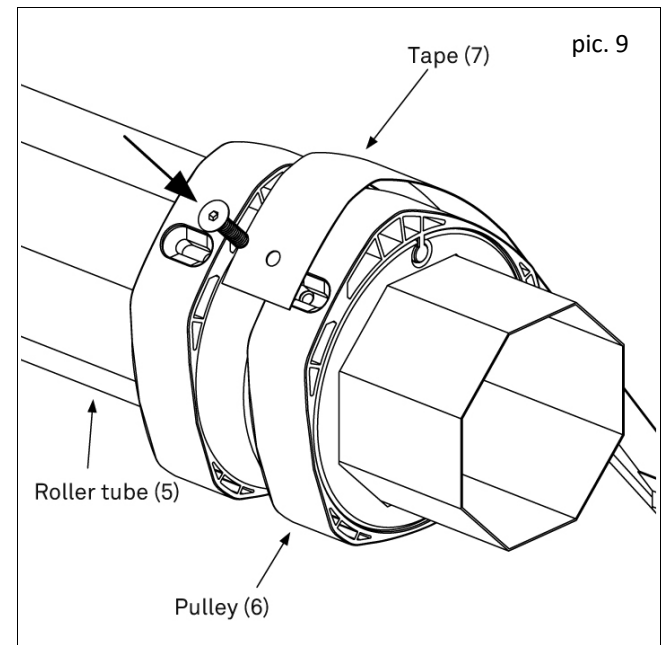
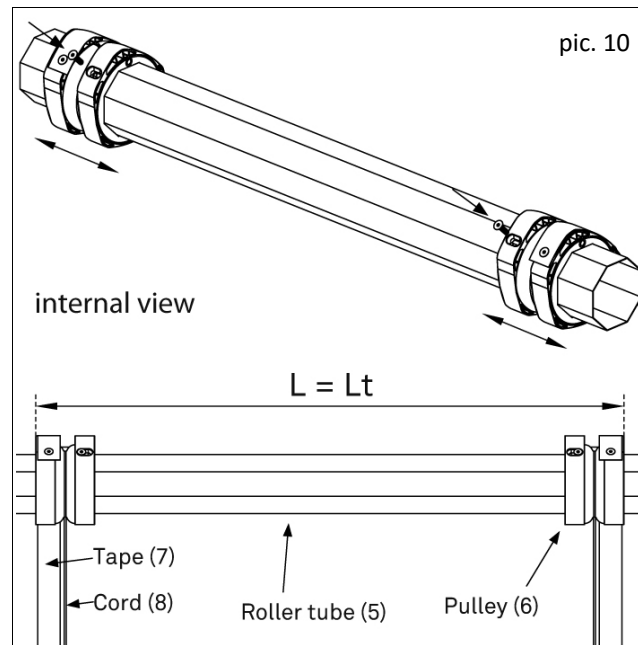
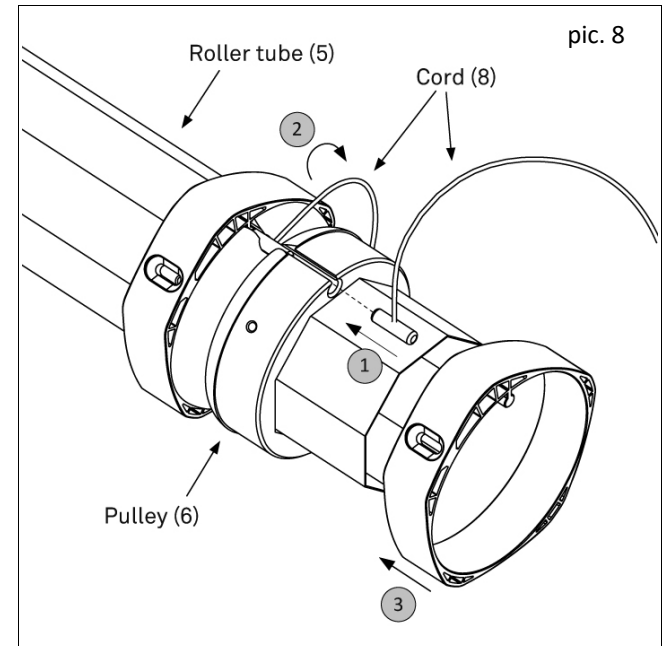
The client or site manager must check that the electrical system is equipped with grounding that meets appropriate regulations. Installation of electrical equipment must be performed by a qualified electrician/tradesperson after ensuring that the main power supply has been disconnected and after consulting the relevant manuals provided by the manufacturer.

1. Verify that there is at least a 35 mm gap inside the window compartment between the internal side of the guide and the frame to allow the slats to open completely without any interference (**see pic. 2**).
2. Verify that the size (**Lc**) of the opening of the roller blind box is greater than the width (**Lt**) of the roller shutter (**see pic. 2 and 3**). Check the internal dimensions of the box and verify that the roller shutter can retract itself completely inside using the dimensions indicated in **Table 1 (see pic. 5)**.
3. Check that the lateral guides are fixed in the optimum position on the wall and verify that the heads of the fixing screws do not protrude inside the guide (**see pic. 4**).
4. Remove the octagonal roller tube (5) from the roller blind box. Check that the roller tube (5) is of diameter 60 mm and its thickness is capable of supporting the weight of the roller shutter without sagging. Working from inside the roller blind box (**see pic. 6**) insert the slide caps (10) inside the right and left upper ends of the guides and fix them in place through the side fixing hole. Make sure that the brush seal inserted into the guide does not obstruct the insertion of the slide fittings. Make sure that the brush seal is 35 mm shorter than the guide on the inner side of the guide, so as to allow the flap of the slide fitting to lean completely on the guide. If necessary, remove the guides, attach the slide caps (10) and then fix the guides to the wall again.
5. Place the roller shutter curtain inside the roller blind box, and unrolling it carefully, slide it into the side guide channels until it reaches the lower crossbar (9) on the lower sill. (It is recommended that two temporary spacers of between 8-12 cm height and thickness are inserted at the bottom of the guides on the sill to enable insertion into the guides, to support the lower crossbar (9) and to ensure that the roller shutter curtain sits slightly higher, allow easier attachment to the roller tube).
6. Insert the right and left pulleys (6) into the two ends of the roller tube (**see pic. 7**) by positioning the fixing holes on the same side of the roller tube. As shown in the picture, position the pulleys with the fixing holes preferably on the upper side of the roller tube facing the inside of the compartment.
7. Insert inside the roller tube from respective ends: the electric motor (if provided) or the drive shaft of the hoist, and also the end cap with the axle.
8. Hook the roller tube (5) to the supports of the roller blind box so that the slots with the fixing holes on the pulleys (6) are facing towards the top of the roller blind box and are preferably oriented towards the inside of the compartment. Adjust the level of the roller tube (5) carefully.
9. Connect the motor (if provided) to the mains power (see motor manual).
10. Remove one of the two plastic rings (6) from the pulley. Insert the end T-hook of the cord (8) inside the slot on the pulley (6) (**see pic. 8**). Re-insert the plastic ring previously removed from the pulley.
11. Fix the harmonic stainless steel belt (7) on the pulley (6) using the supplied screw (**see pic. 9**) through the



hole provided.

12. Repeat steps 10 and 11 for the other pulley (6) placed on the opposite side of the roller tube (5).
13. Align the pulleys (6) to the shutter curtain, sliding them onto the roller tube; the outer sides of the pulleys (6) must be aligned with the side edges of the shutter curtain. Check that the outside dimension (L) of the two pulleys (6) is equal to the total of the shutter curtain width (Lt) (see pic. 10). The optimal position of the roller shutter curtain is a tolerance of about 8 mm for guides of 30 mm depth, and of about 5 mm for guides with a depth of 25 mm between the bottom of rail and the edge of the roller shutter curtain. Lock the two pulleys (6) on the roller tube (5) using the supplied screw (see pic. 10).
14. Operate the electric motor¹ (if provided) or the hoist, retracting the roller shutter until the two spacers (if used in step 5) are released; these can then be removed.
15. Operate the electric motor (if provided), uncoiling the shutter curtain until it rests on the lower sill and it is possible to open all the slats fully to about 90°. Set the lower limit switch of the motor (see motor manual).
16. Operate the electric motor (if provided) to retract the roller shutter inside the roller blind box to the desired position. Set the upper limit switch of the motor (see motor manual).
17. To set electric motors with 3 limiter switches and remote controls, follow the instructions in the motor manufacturer's manual.



1 Electric motor is not included. Verify that the power of the electric motor is sufficient to lift the weight of the roller shutter which is approximately 10,5 kg per square meter.

USE AND MAINTENANCE

Due to high quality standards, careful selection of raw materials and to rigorous testing programmes, Kikau products ensure maximum functionality and durability.

Alika requires no maintenance, however careful observance of the basic operating procedures and routine cleaning will help to ensure both operation and prolong the life of the product.



WARNING:

GENERIC DANGER

Before operating the rolling shutter ensure that it is free to move.

Frost conditions can damage the product.

The use of the product is forbidden to children. Keep the product control devices out of the reach of children.



WARNING:

DANGER OF CRUSHING

The operator of the roller shutter must always keep their distance from it during operation and must pay maximum attention to ensure that there are no obstacles or people within the operating range of the product who can be crushed between the lower crossbar (9) and the lower sill. Use the same care and attention during the opening and the closing of the slats.



WARNING:

In case of malfunction do not tamper with the product; ask for the assistance from your installer or a qualified tradesman.

How to use.

For its movement and operation, Alika uses a single drive source consisting of a standard electric motor² for the roller shutter, coupled if required to a control system and/or to a widely available remote control system. Alika can also be operated manually by means of a mechanical pulley³.

When the roller shutter is completely lowered, with the lower crossbar (9) resting on the lower sill, the slats stay in the maximum opening position (approximately 90°).

By rotating the roller in the direction so as to lower the roller curtain it is possible to gradually and simultaneously orient all the slats, from about 90° to 0°, and vice versa (by reversing the direction of rotation of the roller). Once all the slats are in the closed position, the roller shutter will ensure that the room is dark⁴.

By continuing to operate the roller tube in the same direction, it is possible to position the roller shutter in any intermediate position desired or you can completely recoil the shutter curtain inside the roller blind box.

Useful tips.

It is strongly recommend not to manually force the opening and closing of the slats or the raising and lowering of the roller shutter curtain.

Avoid operating the product beyond its normal parameters. The product does not guarantee protection against any horizontal force except that of normal wind loading; do not lean or stand against the roller shutter.

Cleaning and maintenance.

Alika should be cleaned at least once every two months (once a month in coastal areas) and at any point when noticing an excessive build-up of dirt, salt and sand (especially in coastal areas), dust, grease, etc. ..

Avoid accumulation of or contact with particularly acidic or alkaline substances, strong detergents, mortars and chemicals in general.

Aluminium and steel components.

To clean aluminium or steel components use water (no salt, not overly chalky) and neutral detergents and/or non-abrasive neutral liquid degreasers. Use only a soft, wet cloth and rinse immediately with plenty of water (do not leave the detergent for a long time on the product surface). Avoid contacting the aluminium parts of the system with acetone, ammonia, trichlorethylene, ethyl alcohol or other aggressive chemicals.

Paints used on aluminium parts are non-toxic polyester, are certified for outdoor use and do not require the application over time of any protective product. Any product that is applied may compromise the surface finish and accelerate normal ageing of the product.

² Electric motor is not included. Verify that the power of the electric motor is correctly dimensioned to the weight of the roller shutter which is about 10.5 kg per square meter.

³ Mechanical winch and related mechanisms are not included.

⁴ Due to the functional characteristics of the product and the required mechanical tolerances, that ensure correct functioning over time, it is not possible to ensure total blackout. As such a minimal amount of light may be visible between the slats and between the side components, which are within the product design standards.

Plastic parts

The plastic mechanical parts are self-lubricating and require no additional lubrication over time with oils or greases. The use of any lubricant could affect the operation of the product and cause damage to the components. If necessary use only products recommended by the manufacturer.

Clean plastic components with a soft wet cloth using only neutral cleaning detergents and/or neutral non-abrasive liquid degreasers diluted in water, rinse immediately with plenty of water (not saline and not overly chalky, and do not leave cleaner on the plastic components of the product for an extended time). Avoid all contact with acetone, ammonia, trichlorethylene, ethyl alcohol and other aggressive chemicals.



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