

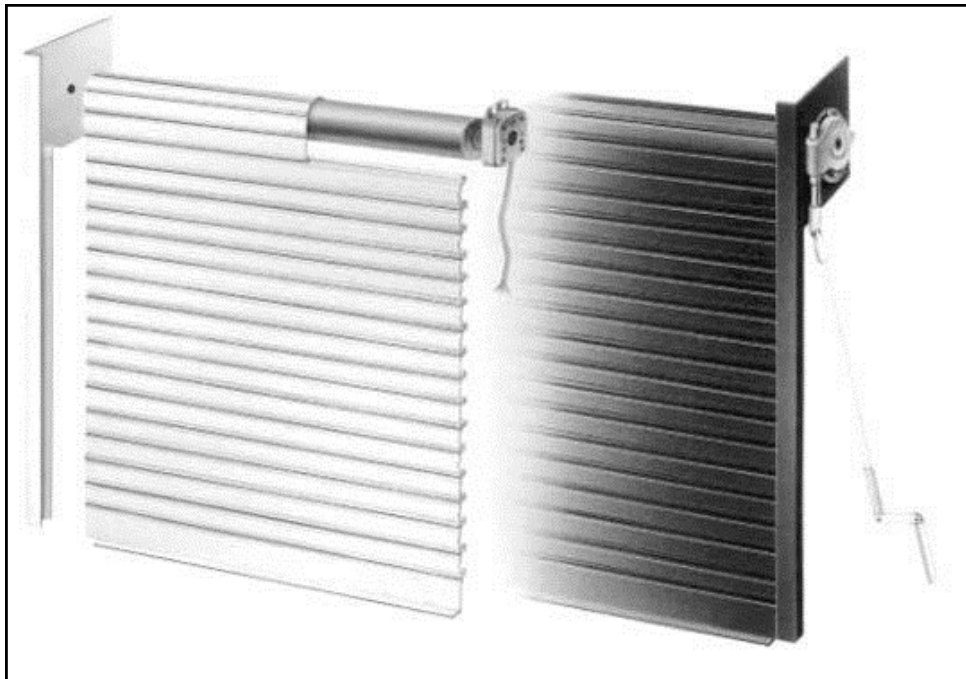
Installation manual

No. 1820

05/18

MURAX P47 SHUTTERS

MURAX SHUTTERS WITH SMALL SLATS
Operation by operator



(Document reserved for installers)

Installation instructions



CAUTION!

To ensure that this product is assembled, used and maintained in complete safety, it is important to follow the instructions provided in this document.
For everyone's safety, please observe the precautionary measures below.



- * Before beginning the assembly, read this manual carefully.
- * This closure must be installed by a professional technician.
- * All the parts delivered are specifically sized for this product. Adding and/or using other parts may be detrimental to safety and may affect the product's warranty.
- * Any modification or improvement of this closure must be compliant with the standard EN 13241 + A2.
In this case, a "modification/transformation" file must be created by the installer as per the standard EN 12635 annex C.
- * Considerable force is exerted by the torsions springs or spring boxes, in the case of compensated shutters or grilles.
This work must therefore be carried out in accordance with the safety instructions. Use the appropriate tools to install these products. Ensure that the work is carried out on a stable floor.
- * Ensure that the assembly area is adequately lit, clear, clean and clearly marked out.
- * Ensure that no other people are present at the assembly site apart from the installers. Non-authorized persons (children for example!) who are present at the site risk injury during assembly.
- * All the components of this closure must be installed in compliance with the installation instructions provided in this manual.
- * All the requirements of the standards EN 13241 + A2 must be met and verified if necessary.

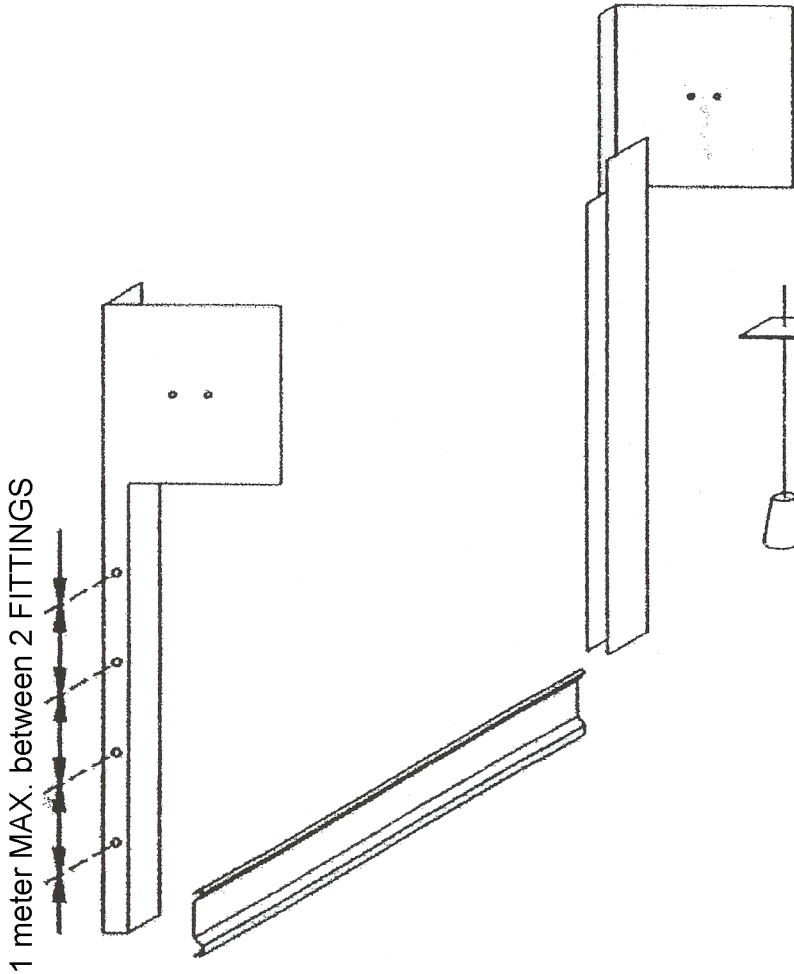
Max. locking torque:

- Assembly screw: **10 Nm**
- Shutter clip screw: **12 Nm**

Min. working load per attachment point:

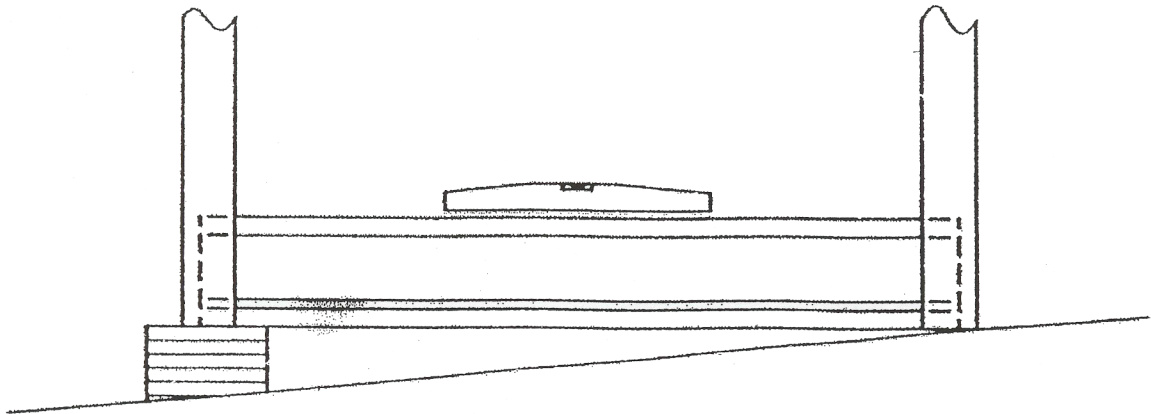
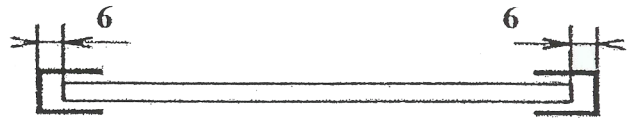
- Plates: **300 daN**
- Guiding rails: **40 daN**

Please note: If installing on an iron structure, the guiding rails and plates can be welded to the building. In this case, a cord of approximately 50 mm must be attached to each side, roughly 800 mm apart.



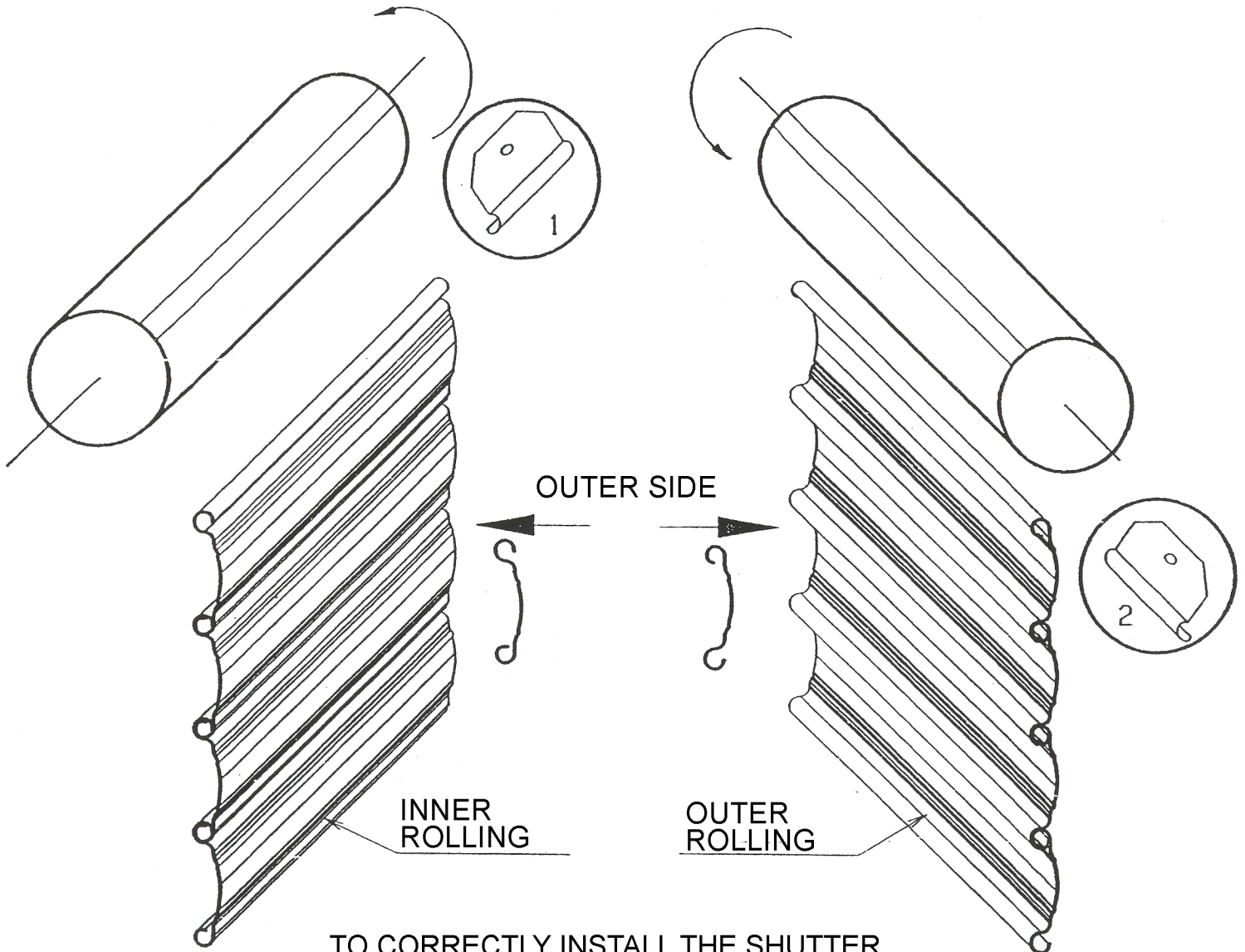
FIRMLY ATTACH the GUIDING RAILS, ENSURING that they are PLUMB.
 TO do so, USE the END-SLAT, MAINTAINING the REQUIRED CLEARANCE.
 ENSURE THAT this SLAT is HORIZONTAL

CLEARANCE to be MAINTAINED



ROLLING DIRECTION FOR A MURAX SHUTTER

⚠ The height and the rolling of the shutter are calculated with a precise number of slats. All the slats provided must be installed. precise number of slats. All the slats provided must be installed.



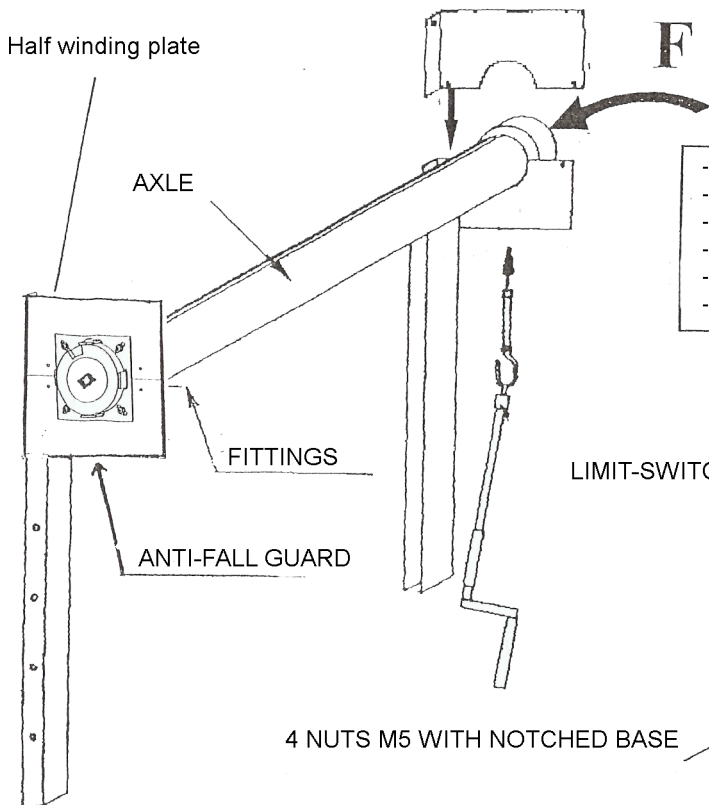
TO CORRECTLY INSTALL THE SHUTTER, THE ROLLING DIRECTION MUST BE TAKEN INTO ACCOUNT. THE SLATS ARE ARRANGED DIFFERENTLY DEPENDING ON WHETHER THE SHUTTER IS ROLLED INWARDS OR OUTWARDS.

LOOK AT THE SLAT PROFILE CAREFULLY:

THE AXLE/SHUTTER CLIPS DIFFER DEPENDING ON THE ROLLING DIRECTION:

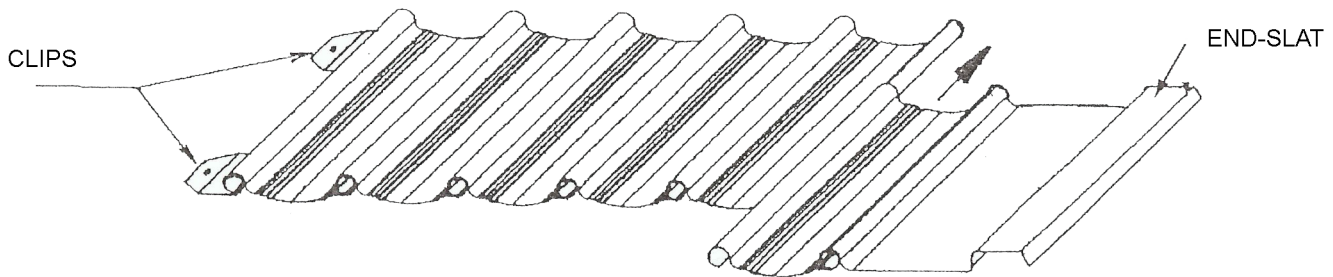
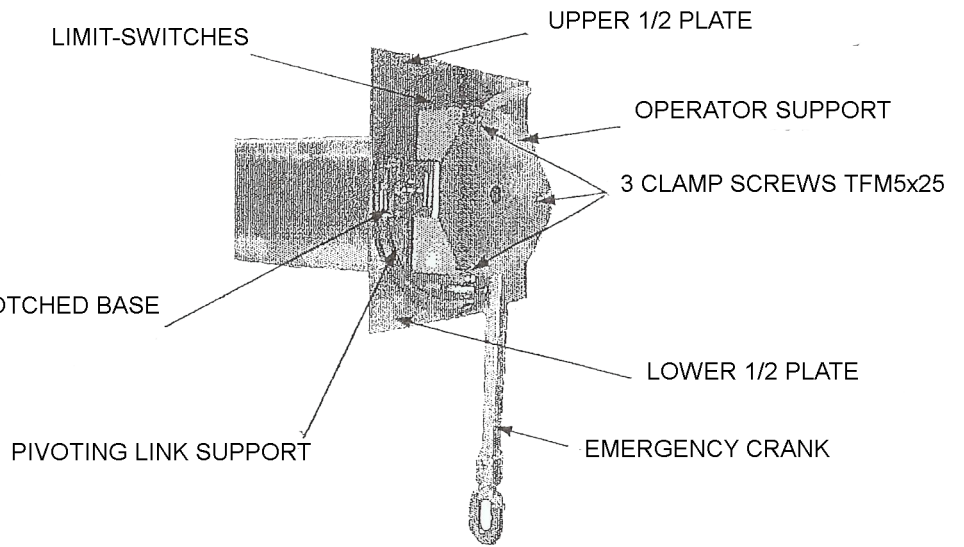
- INNER - REFER TO IMAGE 1
- OUTER - REFER TO IMAGE 2

IN ALL CASES, THE SLATS MUST BE ALIGNED WHEN CREATING THE SHUTTER.

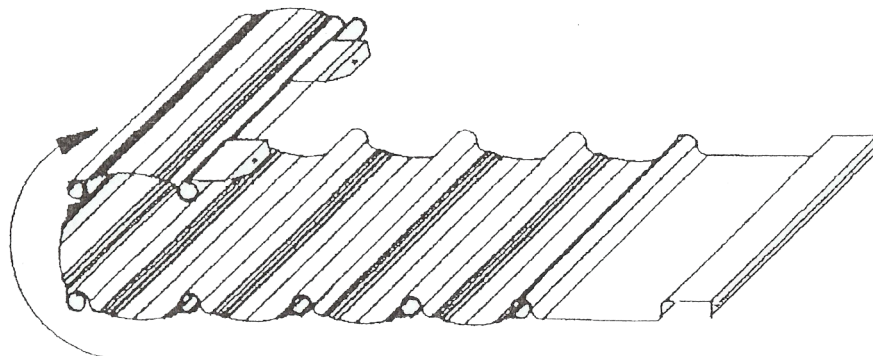


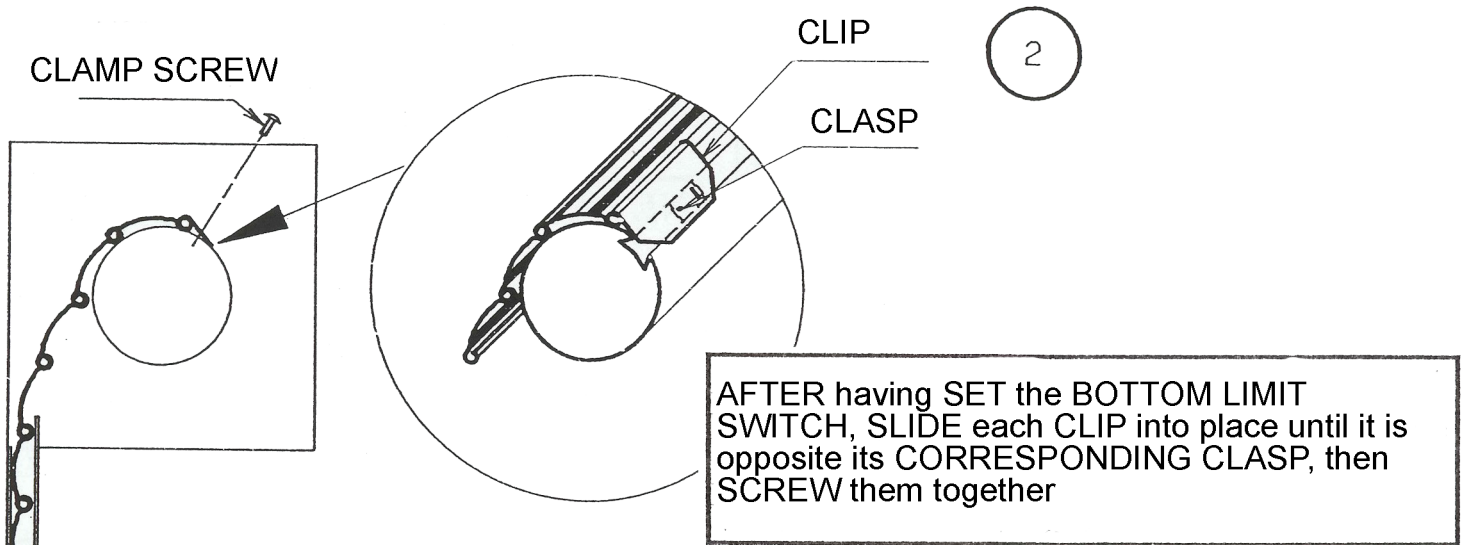
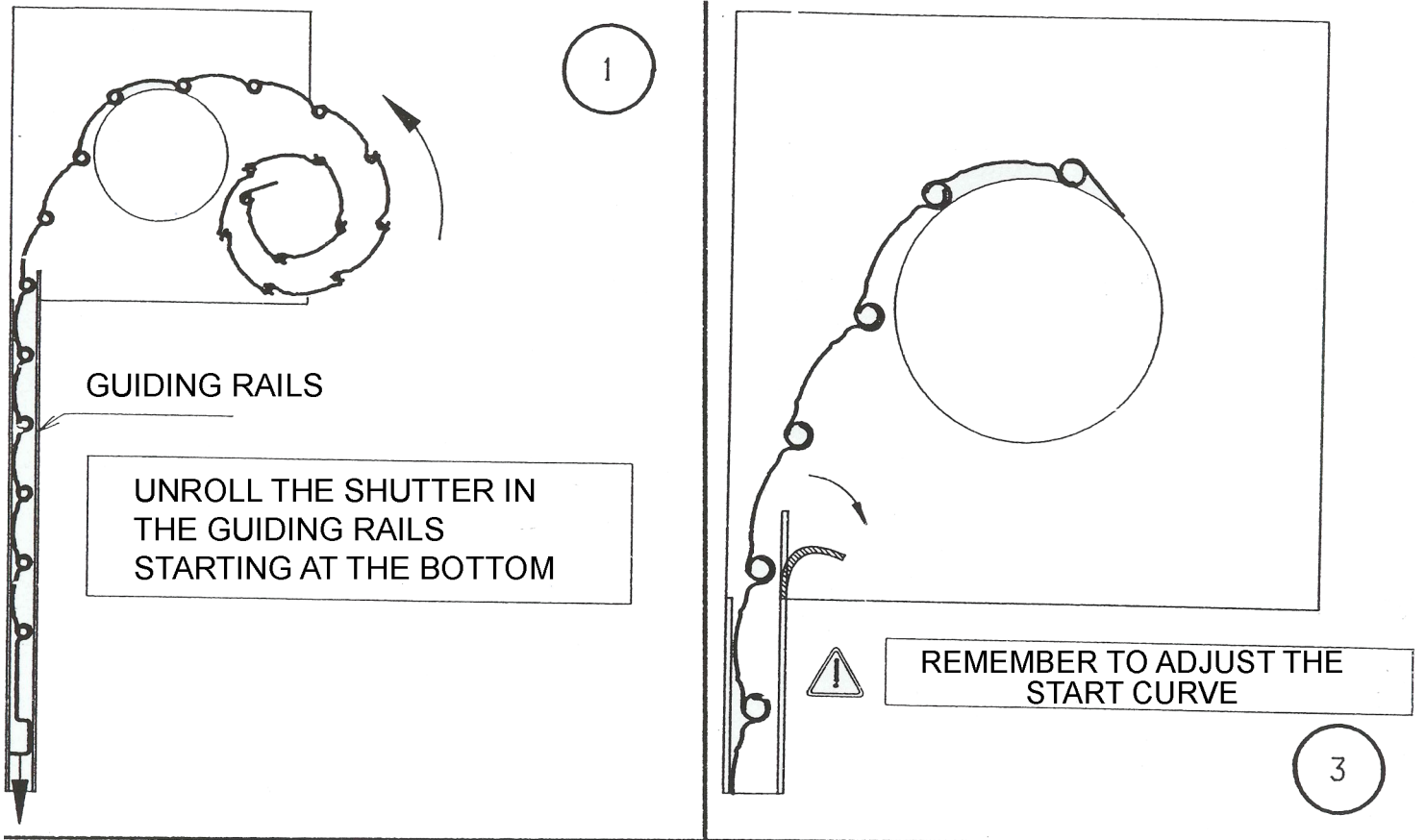
- POSITION the LINK SUPPORT
- INSERT THE AXLE INTO THE LINK SUPPORT
- INSTALL THE UNIT on the WINDING PLATES
- INSERT THE AXLE into the ANTI-FALL GUARD on the OPPOSITE SIDE of the OPERATOR
- ATTACH the LINK SUPPORT to the LOWER HALF-PLATE
- ATTACH the UPPER HALF-PLATE to the LINK SUPPORT

VIEW AS PER F

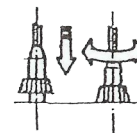
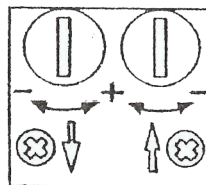


CREATE THE SHUTTER BY THREADING THE SLATS TOGETHER, WITHOUT FORGETTING THE CLIPS OR THE END SLAT. ROLL THE ASSEMBLED SHUTTER STARTING FROM THE CLIPS AND MOVING TOWARDS THE END-SLAT.





SETTING THE LIMIT-SWITCHES



push down and turn
(check the alert after setting the parameters)

The limit-switch adjustment screws are locked in rotation by a circular 24-tooth pinion.
The final settings are obtained by moving the screws tooth by tooth.
The new stop position can only be checked by rotating the operator in the opposite direction of the setting direction (roughly 2 rotations of the winding axle), then return to the chosen limit-switch stop position.

Connecting the operator

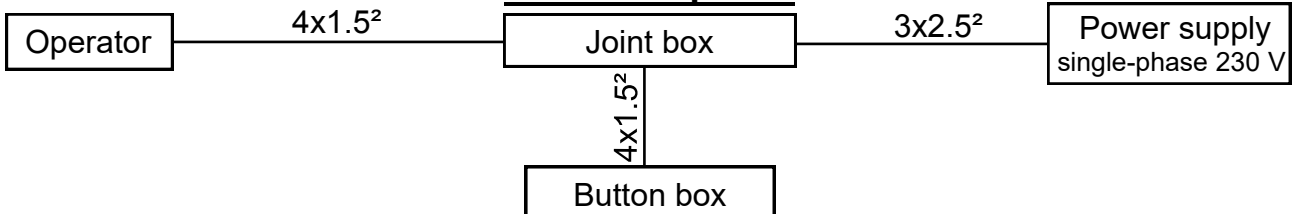
- The fixed controls must be installed within sight of the door but away from any moving parts and at a height of at least 1.5 m from the floor.



- Each operator must be controlled independently. It is prohibited to connect several operators to a single monopolar switch at the same time.

- Only the control requiring sustained action should be installed and/or used.

Cables required

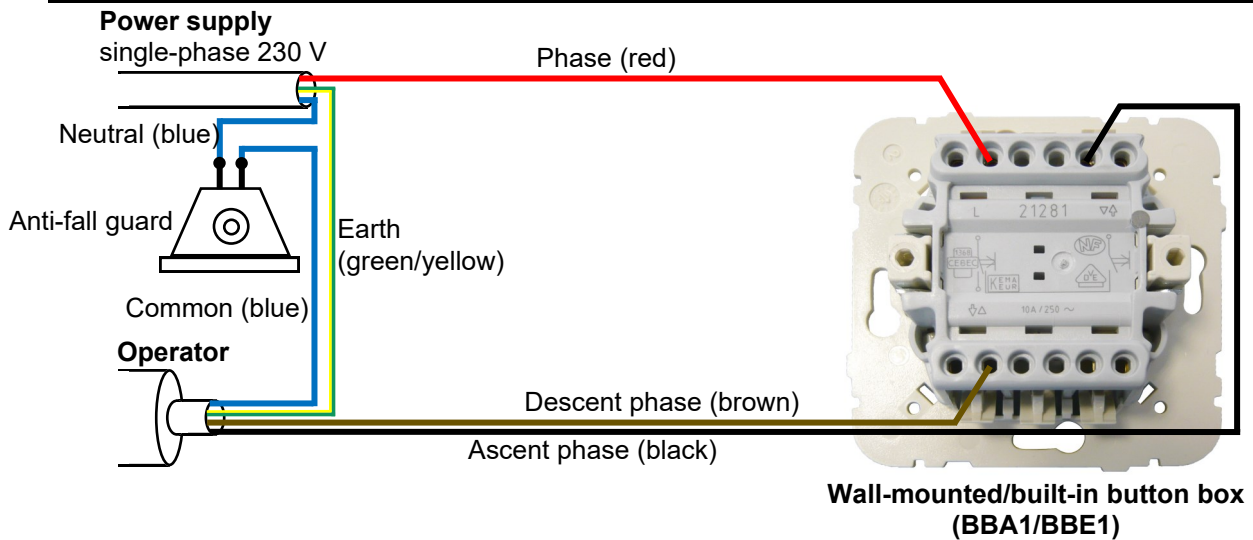


Ensure the power line is protected using an upstream differential circuit-breaker.

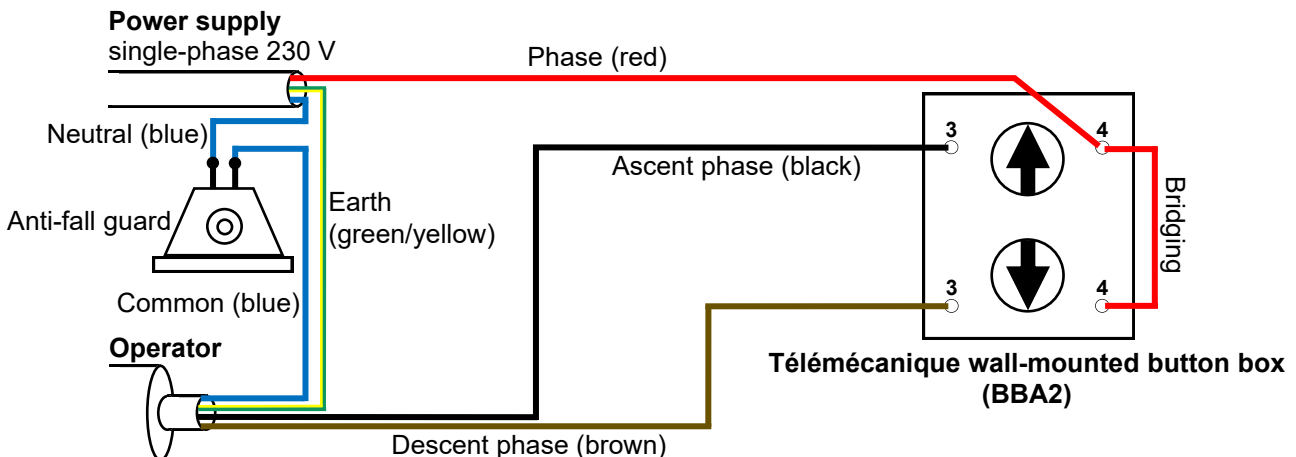
Ensure that in close proximity to the operator, there is:

- A thermal protection device for the operator.
- A power cut-off system, which is accessible to the user.

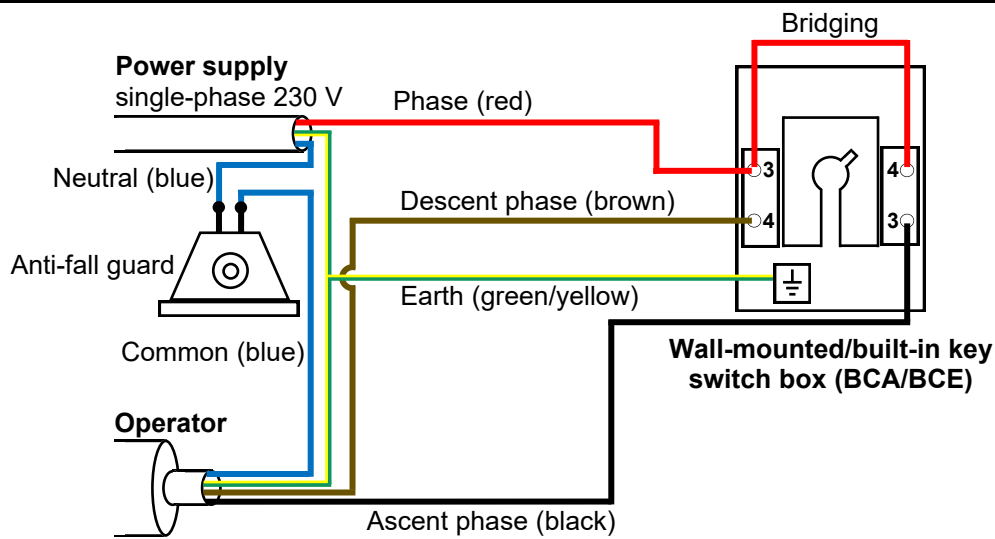
Button box (BBA1/BBE1)



Button box (BBA2)



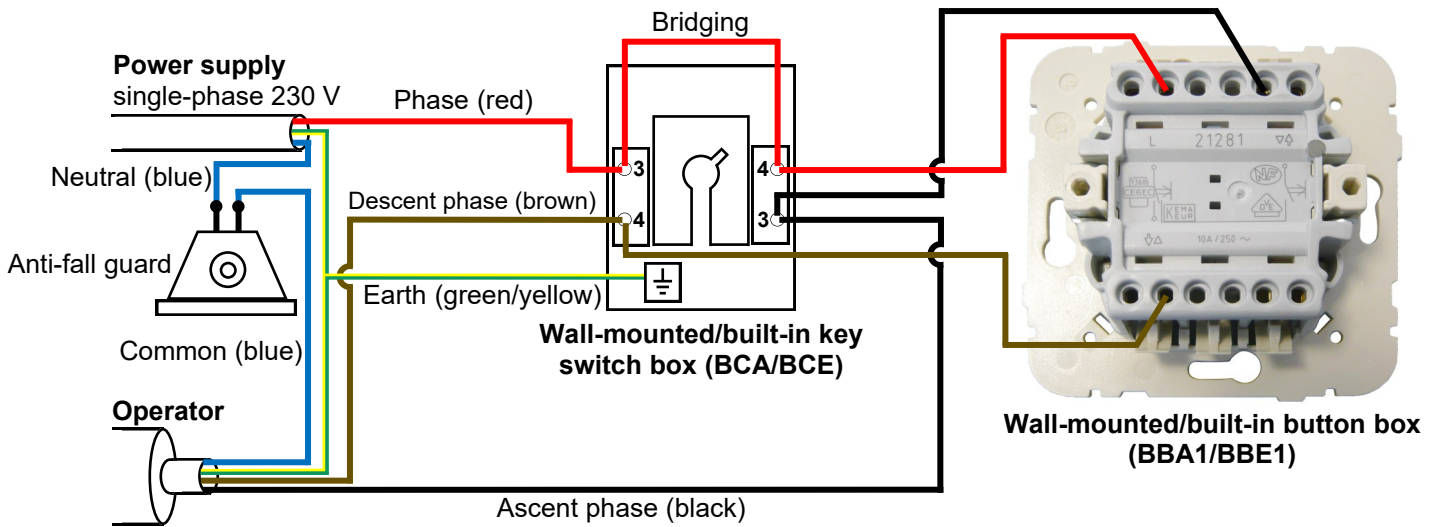
Key switch box (BCA/BCE)



Please note: To install the key switch box cover, the cylinder lug must be positioned opposite the top corner of the box.

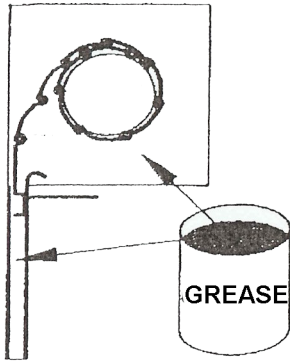
- Important:**
- The earth wire must be connected to the metal body of the key switch box using a clamp screw.
 - Ensure the box is well sealed in relation to the wall support using a flexible sealant.

Key switch box (BCA/BCE) with button box (BBA1/BBE1)



Please note: To install the key switch box cover, the cylinder lug must be positioned opposite the top corner of the box.

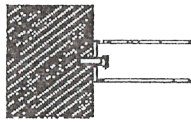
- Important:**
- The earth wire must be connected to the metal body of the key switch box using a clamp screw.
 - Ensure the box is well sealed in relation to the wall support using a flexible sealant.



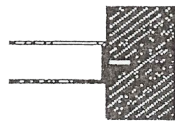
CAREFULLY GREASE THE INSIDE OF THE GUIDING RAILS AND THE WINDING PLATES

IN CASE OF PROBLEMS MANEUVERING THE SHUTTER

IF THE SHUTTER IS CROOKED WHEN MOVING UP AND DOWN:

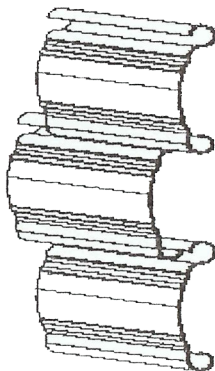


NO

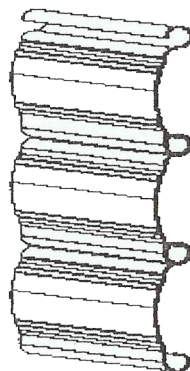


YES

REMOVE ANY BLOCKAGES.
USE A GRINDER IF REQUIRED,
AND TIGHTLY SCREW ON
THE GUIDING RAILS

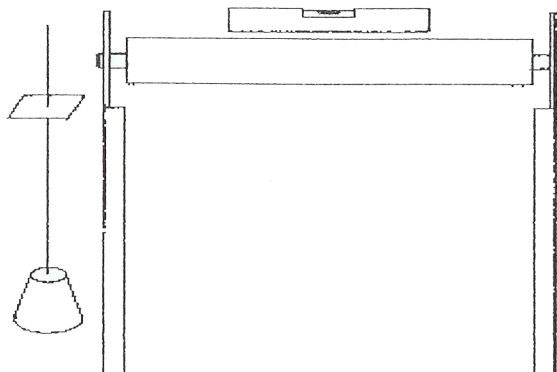


NO



YES

CHECK THAT THE SLATS ARE
CORRECTLY ALIGNED



CHECK THAT THE GUIDING RAILS ARE
CORRECTLY ALIGNED
AND THAT THE AXLE IS PERFECTLY
HORIZONTAL

