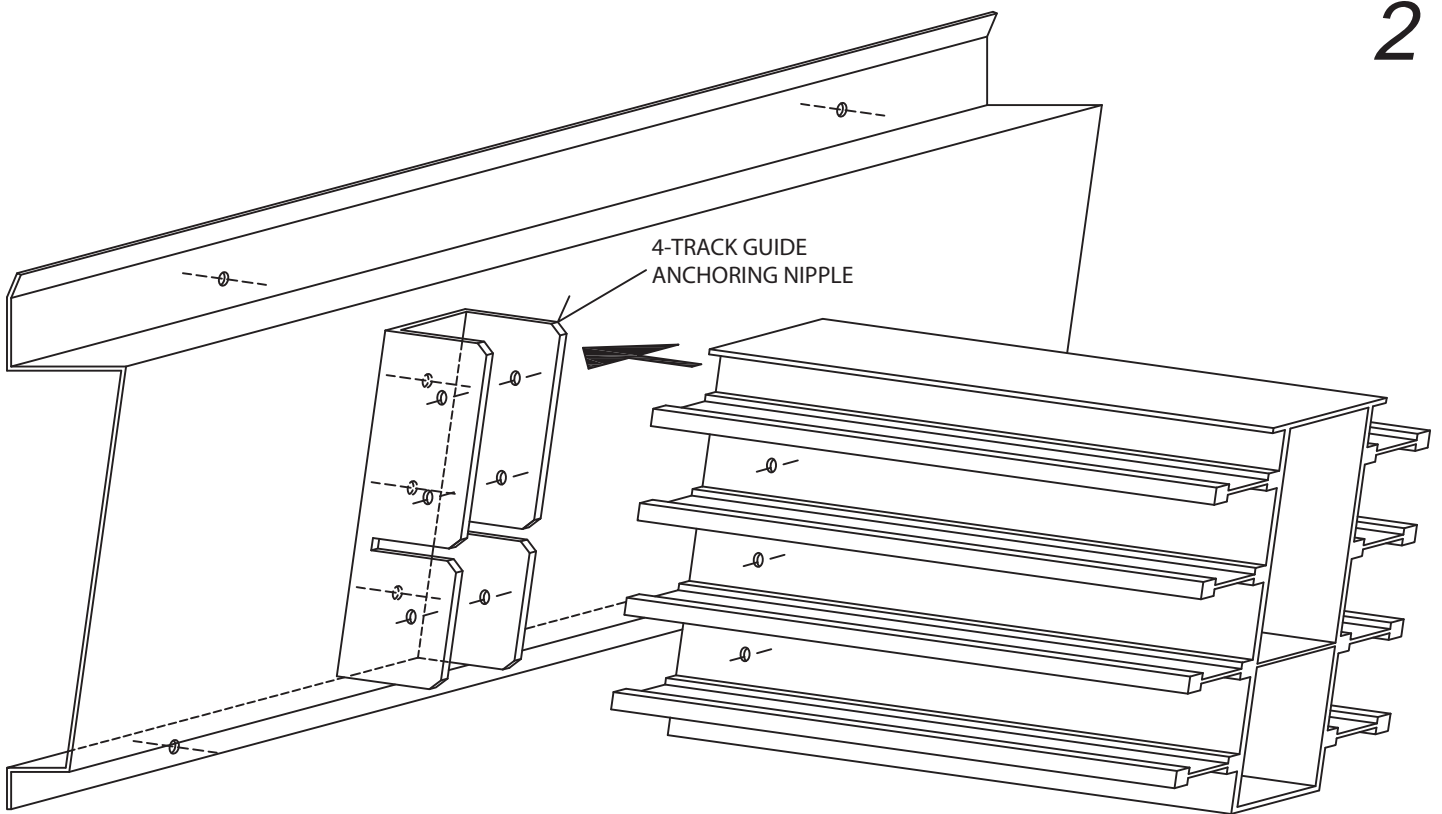
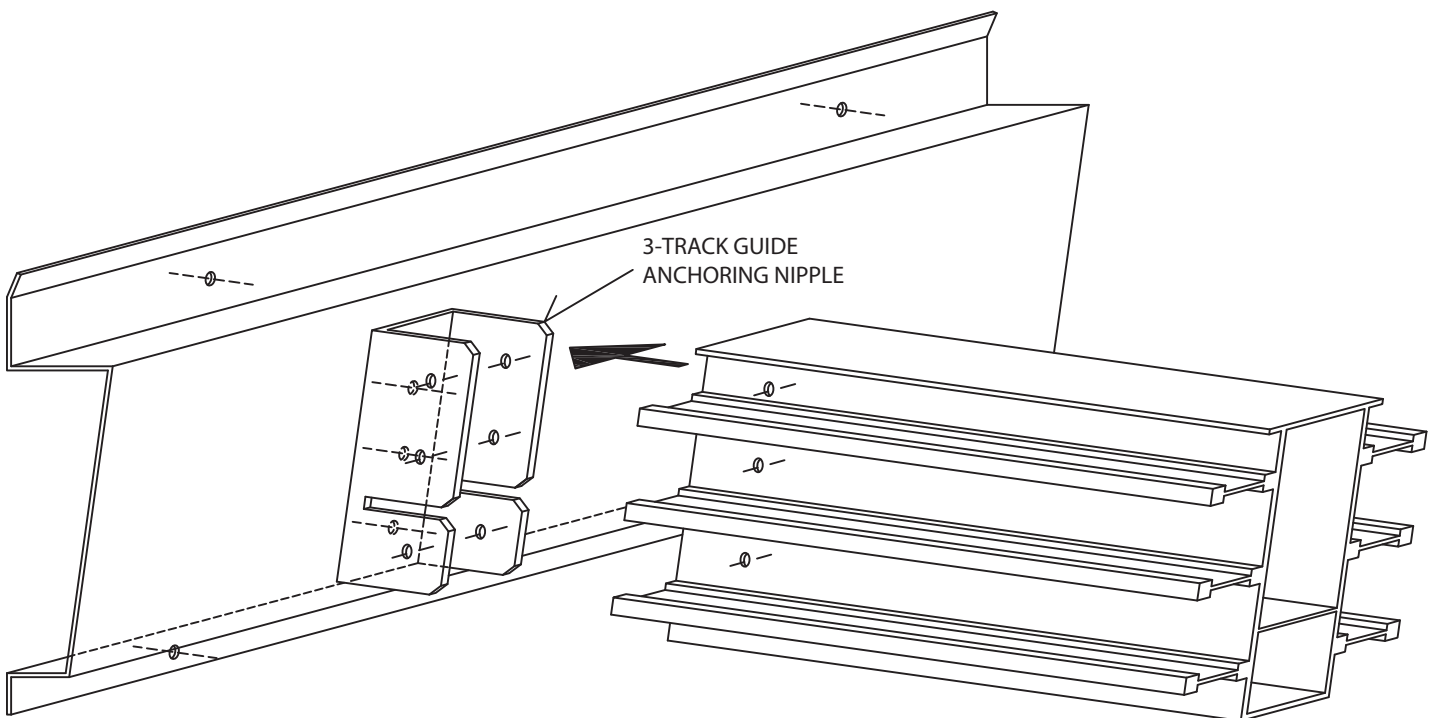


① THE HEIGHT OF THE BACK PROFILE MUST CORRESPOND TO, AT LEAST, THE PITCH OF 10% OF THE ROOF  
 EXAMPLE: 4,00 m long=40cms.  
 4,50 m long=45cms.

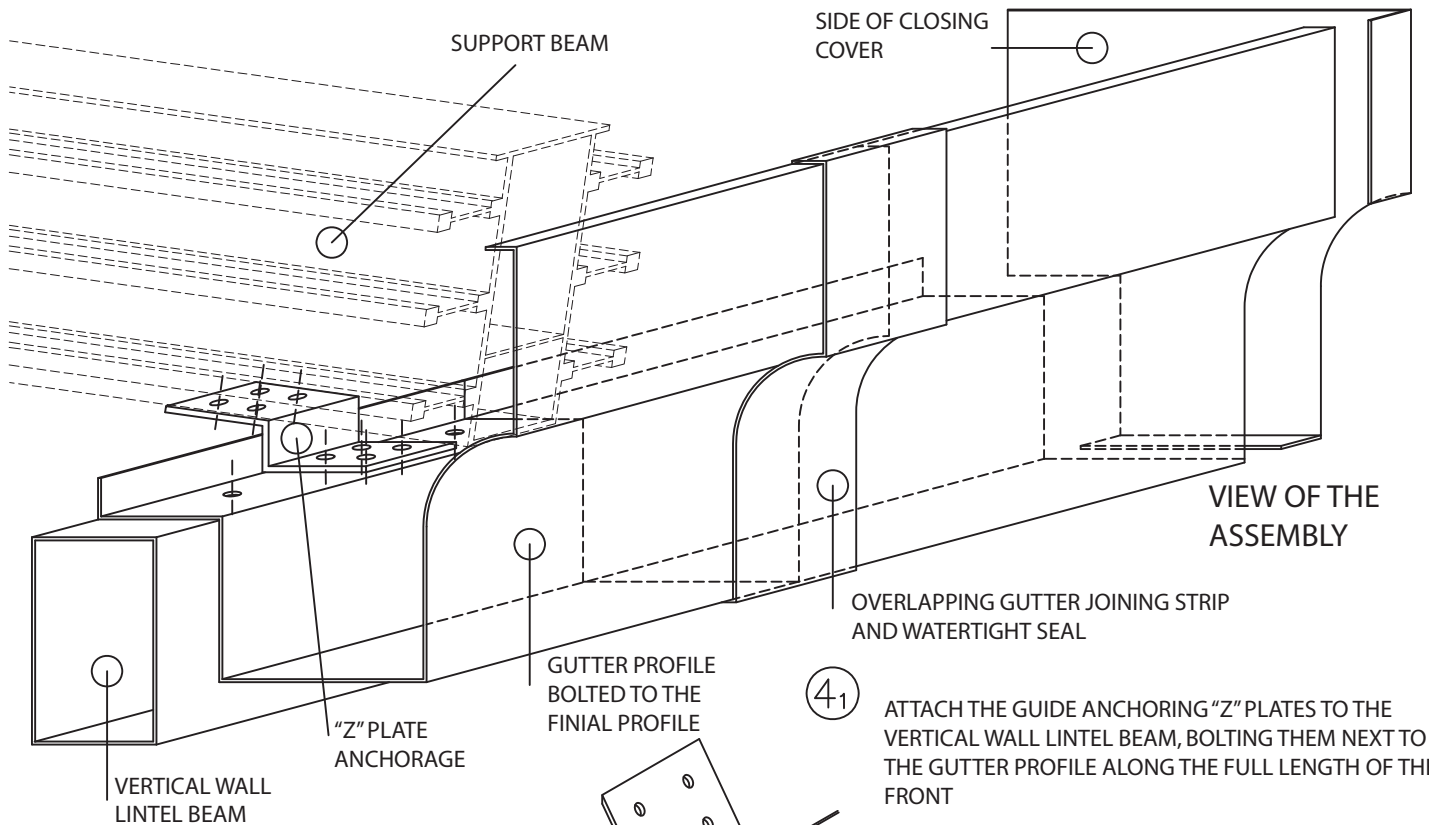
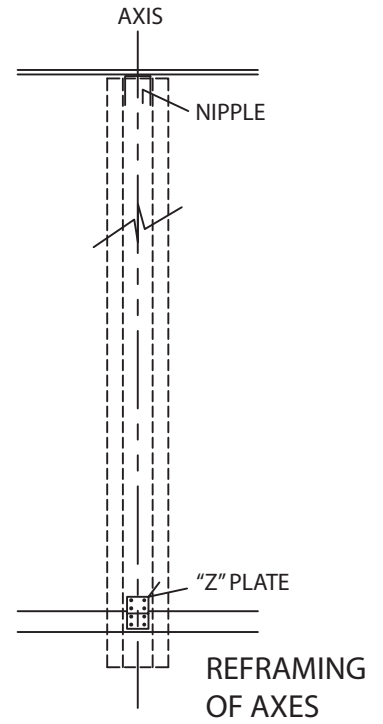
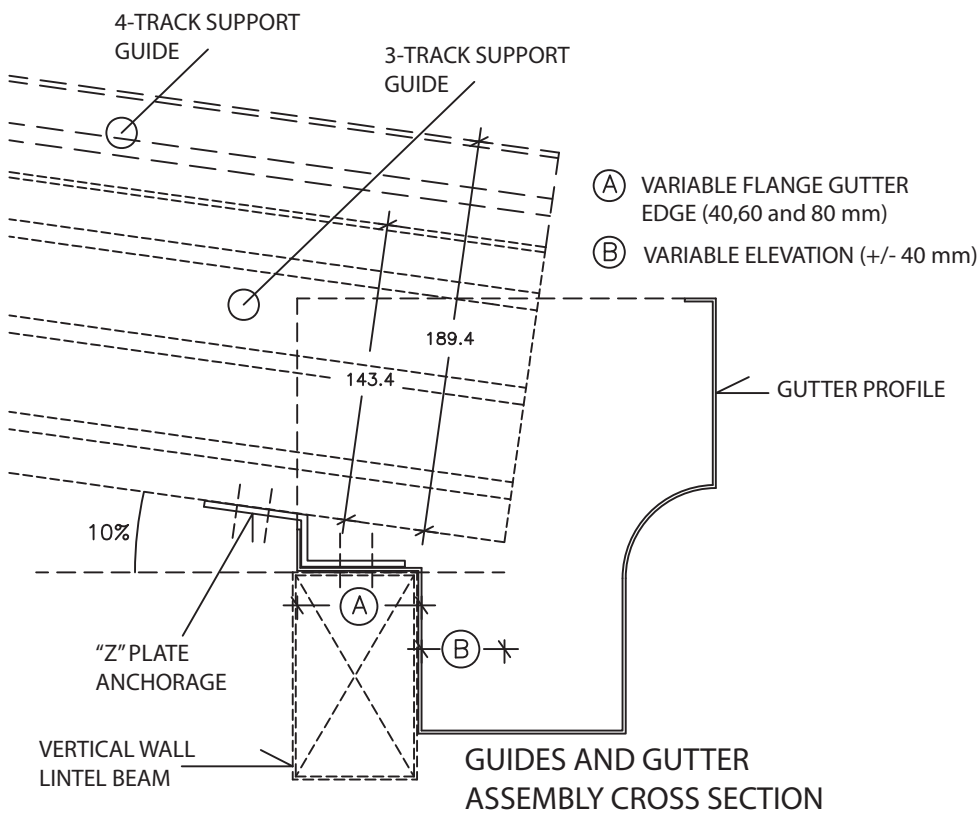


HEAD OF 4-TRACK ASSEMBLY



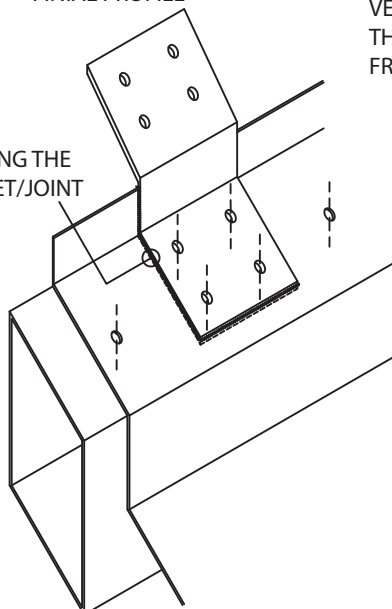
HEAD OF 3-TRACK ASSEMBLY

- ② ATTACH THE BACK PROFILE TO THE STARTER WALL WITH A PITCH OF 10% DRILLING HOLES IN AND BOLTING THE FLANGES OF THE HORIZONTAL EDGE OF THE PANEL
- ③ SUPPORTING THE GUIDES ON THE FRAMEWORK OF THE VERTICAL WALL, ATTACH THE GUIDES TO THE BOLTED NIPPLES, DRILL HOLES IN AND BOLT THE BACK PROFILE IN PLACE USING THREADED PLATE BOLTS.

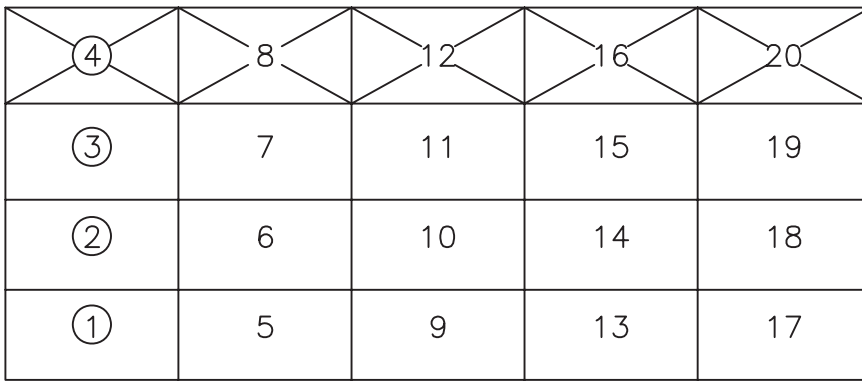


4<sub>1</sub> ATTACH THE GUIDE ANCHORING "Z" PLATES TO THE VERTICAL WALL LINTEL BEAM, BOLTING THEM NEXT TO THE GUTTER PROFILE ALONG THE FULL LENGTH OF THE FRONT

SEALING THE OFFSET/Joint



4<sub>2</sub> IN CASE THE "Z" PLATES ARE ATTACHED, BEFORE THE GUTTER PROFILE, THEN THIS WILL HAVE TO BE OFFSET TO CLEAR THE BASE OF THE PLATE AND THE RESULTING JOINT SEALED

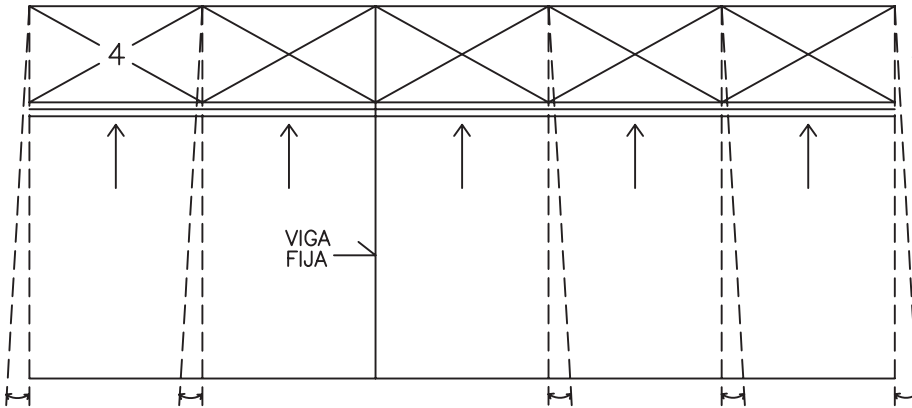


ORDER CODE OF THE PROVIDED LAYOUT

⑤

WHEN ALL OF THE BEAMS AND ANCHORING "Z" PLATES HAVE BEEN BOLTED TO THE WALL FRAMEWORK, MOUNT THE ROOFING PANELS INTO THE GUIDES IN THE SAME ORDER AS SHOWN IN THE DIAGRAM

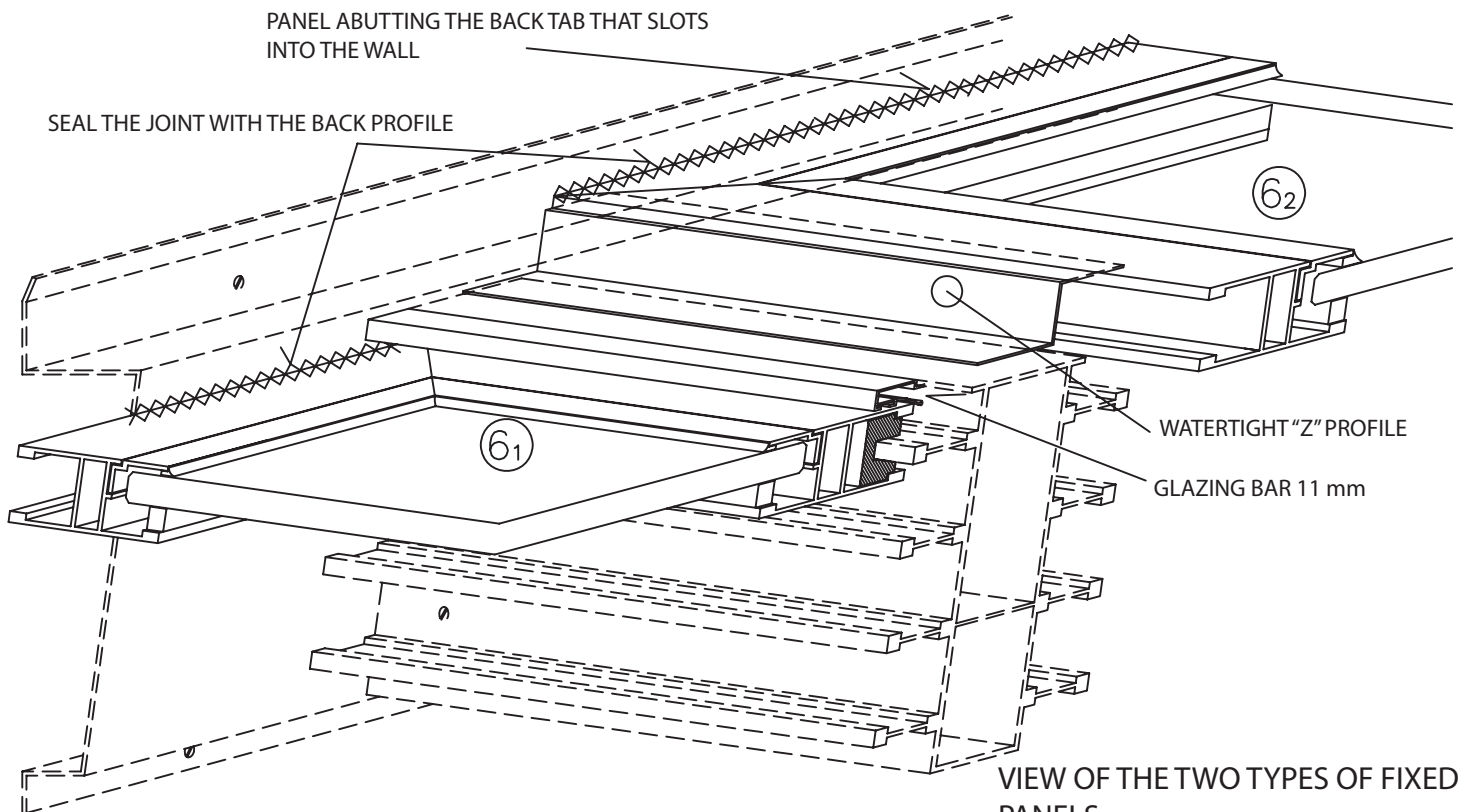
- ① BOTTOM ROOF PANEL
- ② MIDDLE ROOF PANEL
- ③ TOP ROOF PANEL
- ④ FIXED ROOF PANEL



⑤<sub>1</sub>

IN THE CASE OF SPACE BELOW THE FRONT OF THE FAÇADE WALL, THE GUIDES WILL BE LOOSED, KEEPING ONE PER SECTION FIXED AND SLIDING THE PANELS INTO THE TRACKS AS FAR AS THE BACK PROFILE, AND THEN RE-SETTING THE PANEL GUIDES TO THE ANCHORING "Z" PLATES

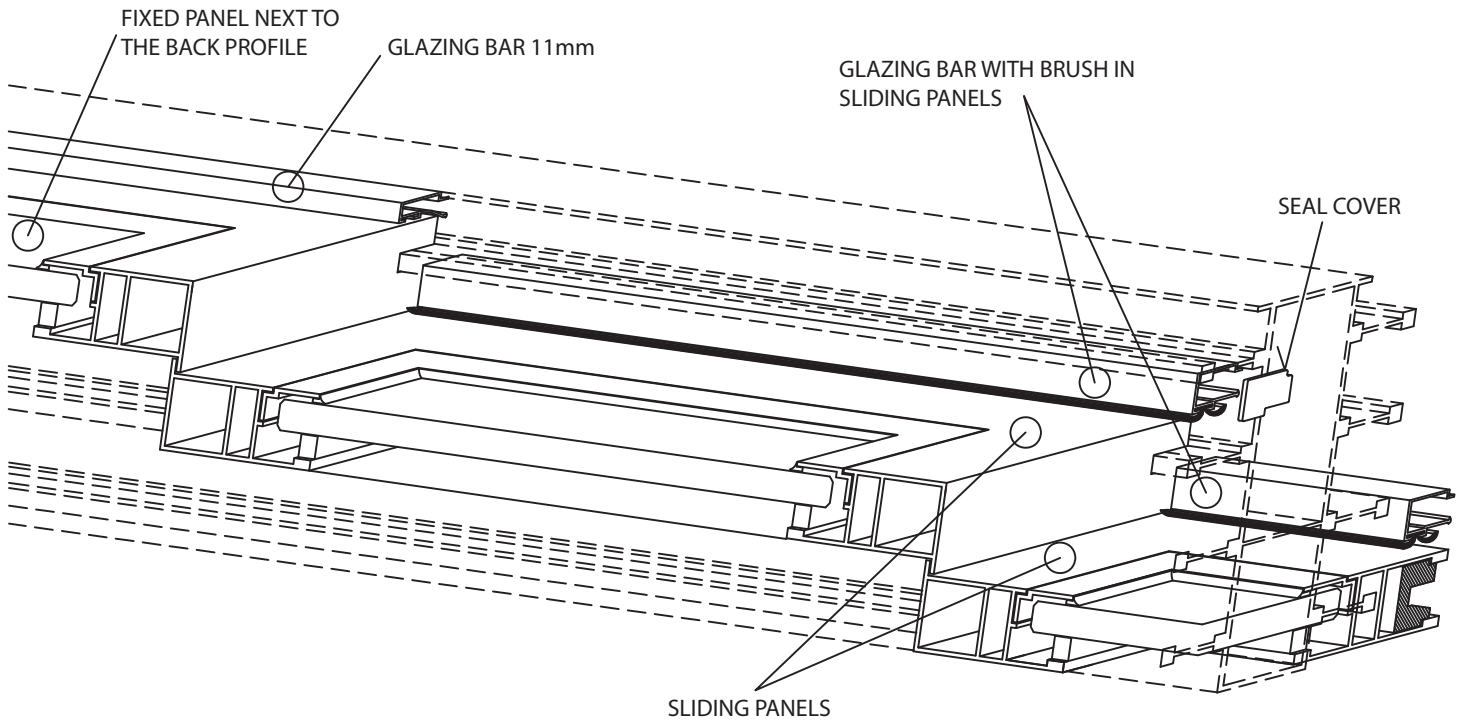
DETAILS OF THE ASSEMBLY AND FITTING ORDER



VIEW OF THE TWO TYPES OF FIXED PANELS

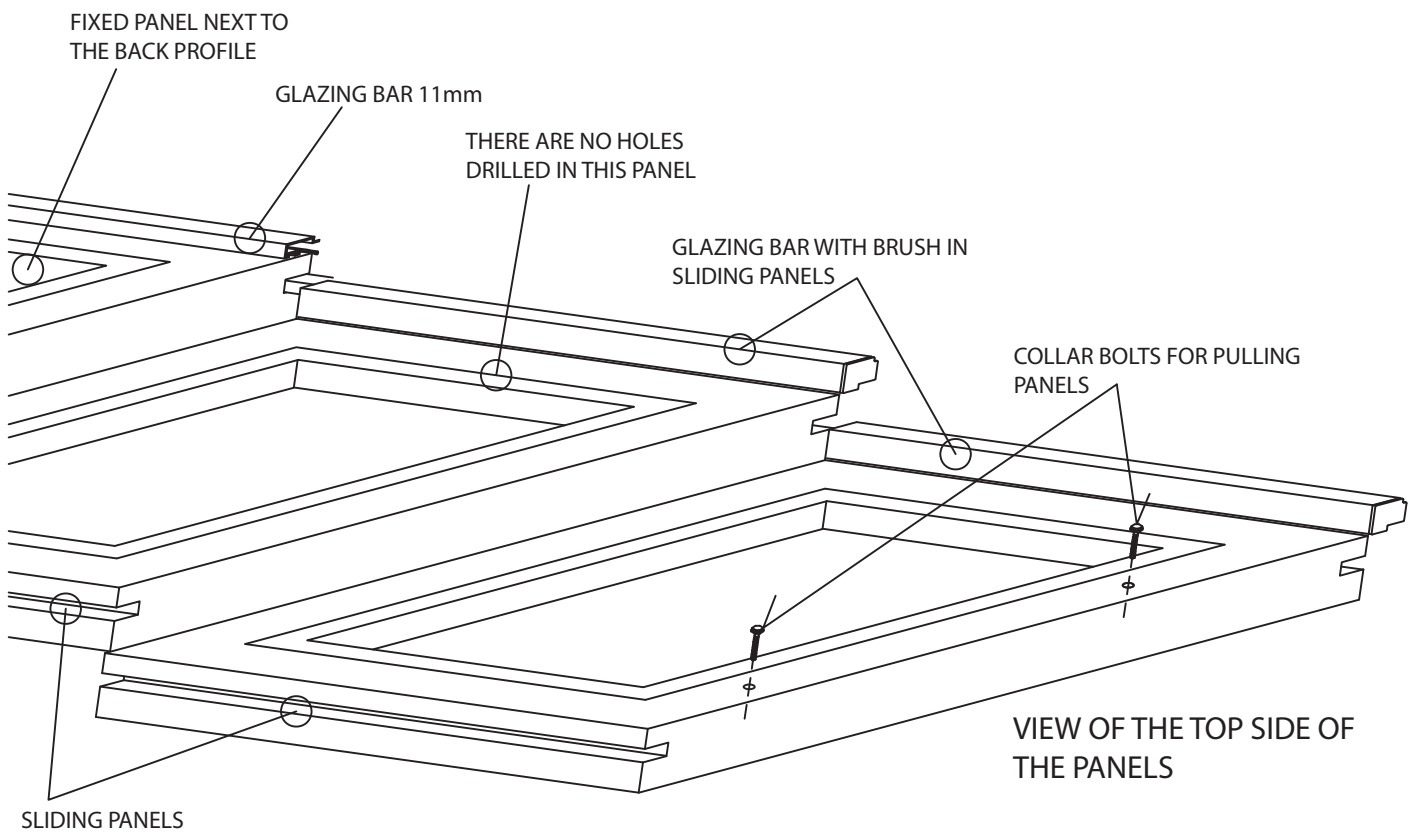
⑥<sub>1</sub> ASSEMBLE AND SET THE FIXED GUIDE HEAD PANEL, FITTING THE 11 MM GLAZING BAR ONTO IT FOR 4-PANEL/4-GUIDE AND 3-PANEL/3-GUIDE ROOFS, SEALING THE TOP EDGE AGAINST THE BACK PROFILE

⑥<sub>2</sub> ASSEMBLE AND SET THE OVERLAPPED FIXED HEAD PANEL LOCATING THE SEALED "Z" PROFILE ON THE SIDE ON 5-PANEL/4-TRACKS AND 4-PANEL/3-TRACKS ROOFS, SEALING THE TOP EDGE AGAINST THE BACK PROFILE (IN THIS CASE THE PANEL BELOW THE FIXED ONE WILL INCLUDE A GLAZING BAR WITH A BRUSH, INSTEAD OF 11 MM, BOLTED TO THE GUIDES ON BOTH SIDES)



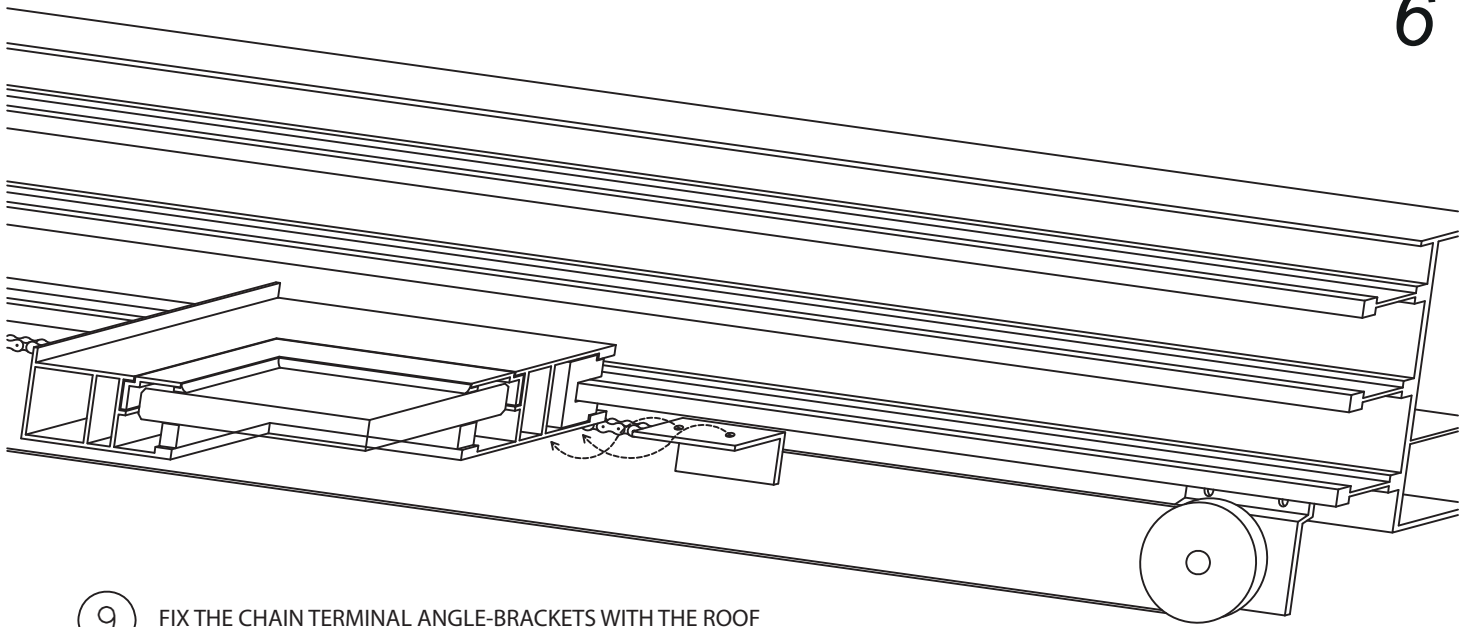
VIEW OF THE WATERTIGHT ASSEMBLY

- 7 ASSEMBLE AND FIT THE GLAZING BARS WITH PROTECTIVE BRUSHES ONTO EACH SLIDING PANEL, LOCATED IN THE CLOSED ROOF POSITION, COVERING THE ENDS WITH THE PLASTIC COVERS ANTICIPATED TO SEAL THE GLAZING BAR

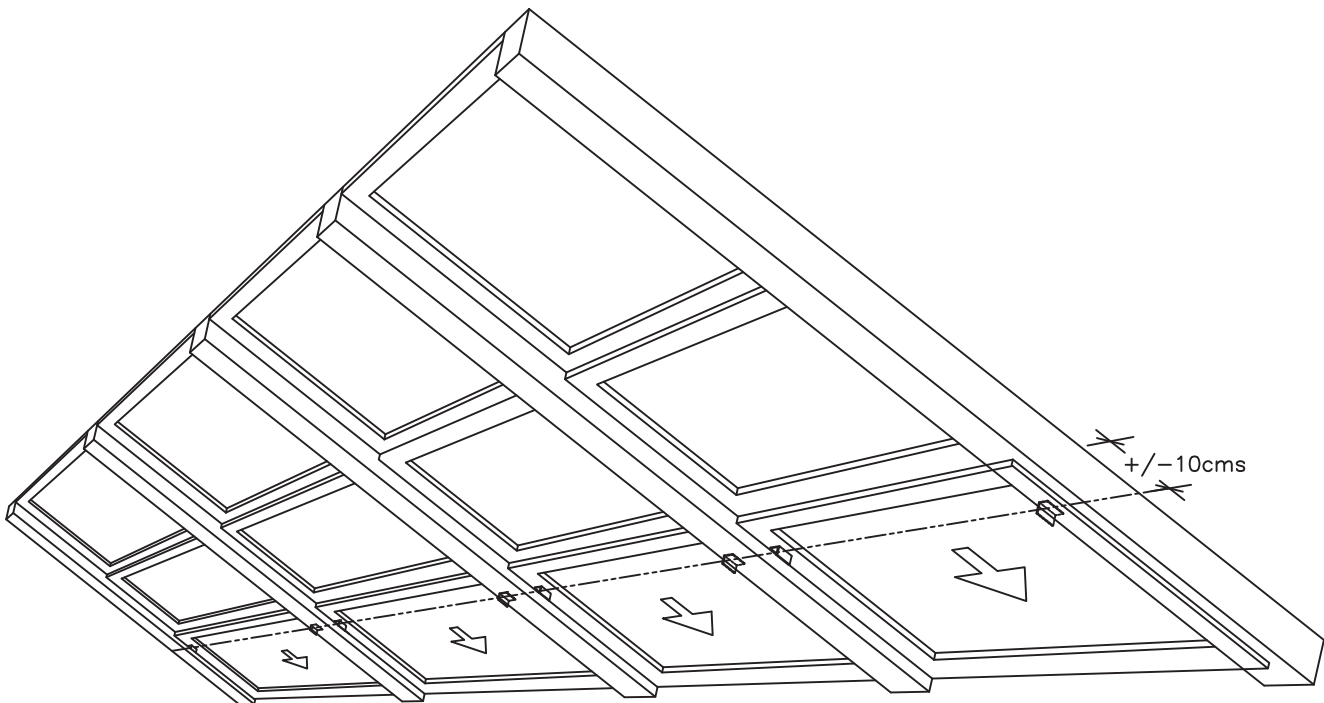


VIEW OF THE TOP SIDE OF THE PANELS

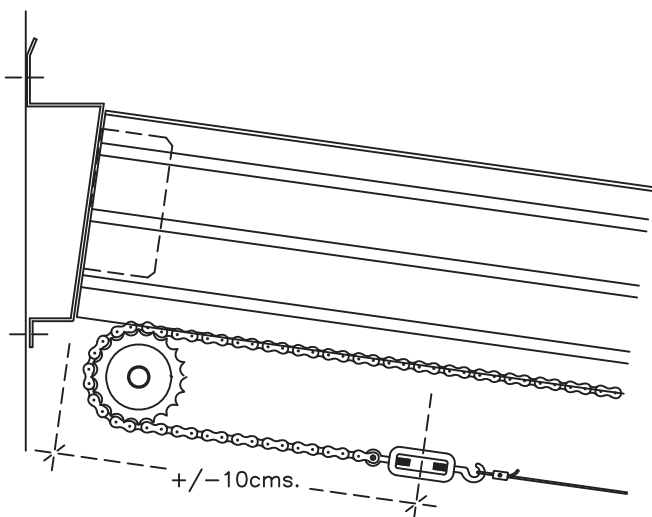
- 8 THE PULLING BOLTS HAVE TO BE MADE UP IN THE HOLES PREPARED IN THE SLIDING PANELS



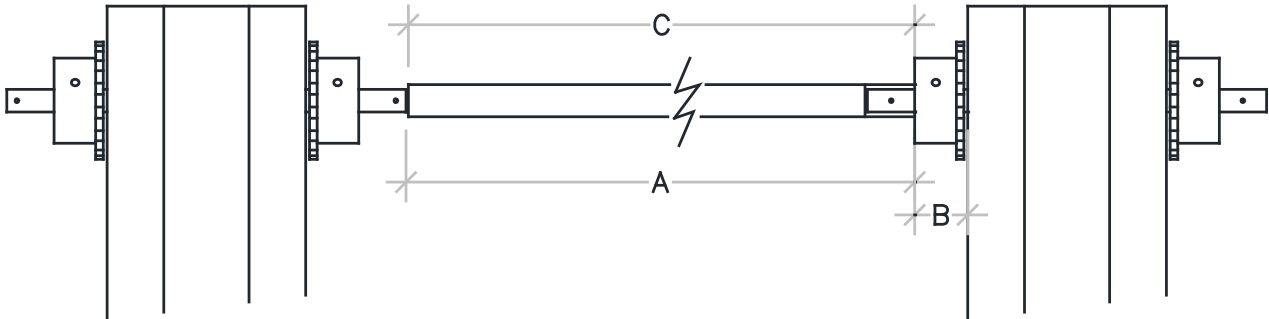
- 9 FIX THE CHAIN TERMINAL ANGLE-BRACKETS WITH THE ROOF FULLY CLOSED, AT A DISTANCE OF 10 CM FROM THE TOP EDGE OF THE FIRST SLIDING PANEL



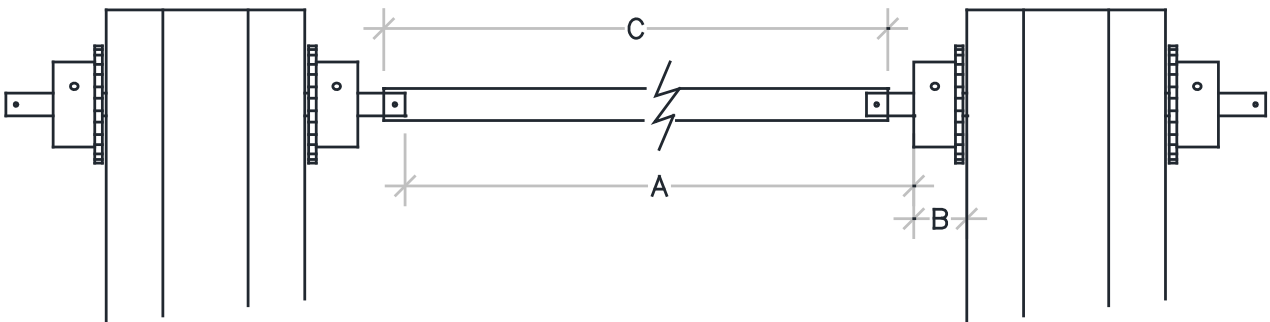
BOTTOM VIEW OF THE ASSEMBLY OF THE DRAG AND PULL ANGLE BRACKETS OF THE FIRST SLIDING PANEL



- 10 LOCATE THE CHAIN TENSOR AT +/- 10 CM FROM THE END OF THE GUIDE AND TIGHTEN IT TO ESTABLISH THE END OF TRAVEL, MAKING UP THE TRACTION SPINDLE STUDS



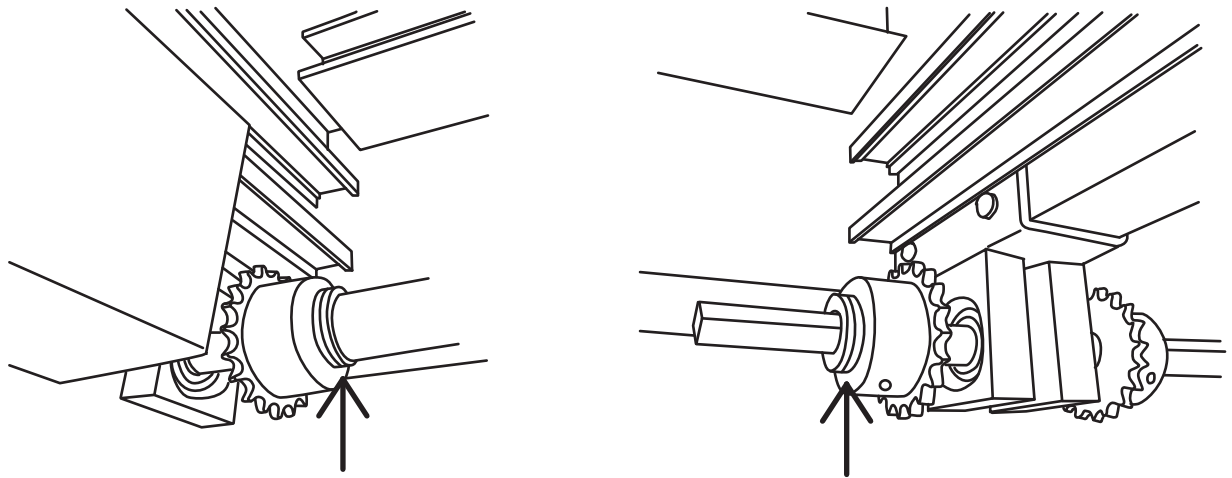
- ① ADAPTATION OF THE LENGTH OF THE TRANSMISSION CONTROL BAR, WITH THE NECESSARY TOLERANCES SO THAT  $A + B = C$ , ALLOWS FOR A THROUGH BOLT AND A SAFETY NUT ON THE ENDS OF THE SPINDLES AND THE BAR.



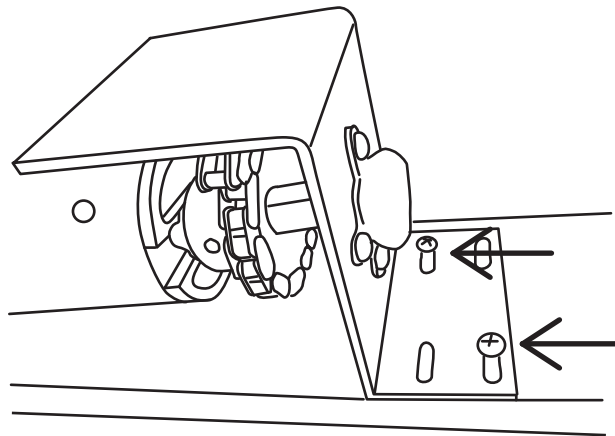


## Installation of the transmission motor

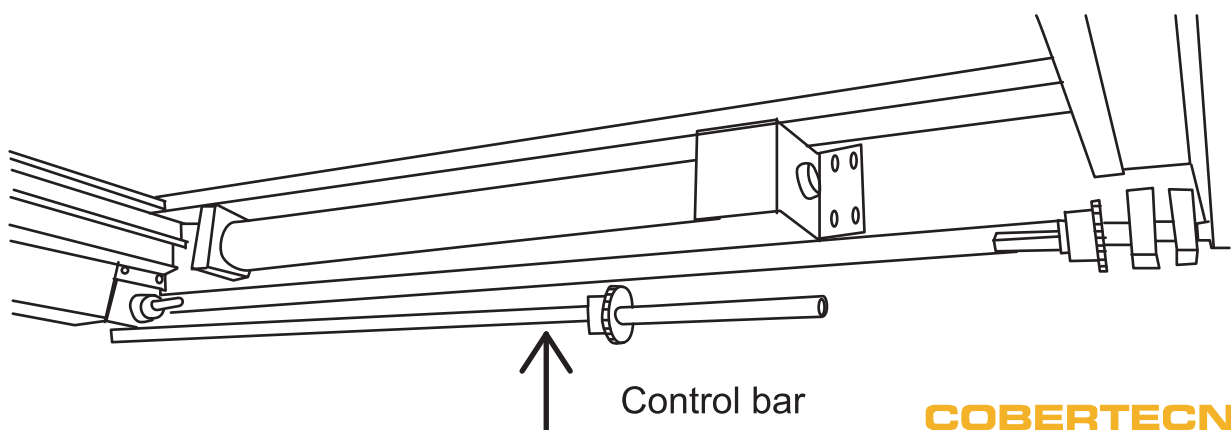
- 12 Place 2 washers in each axis with pinion of the module the motor has.

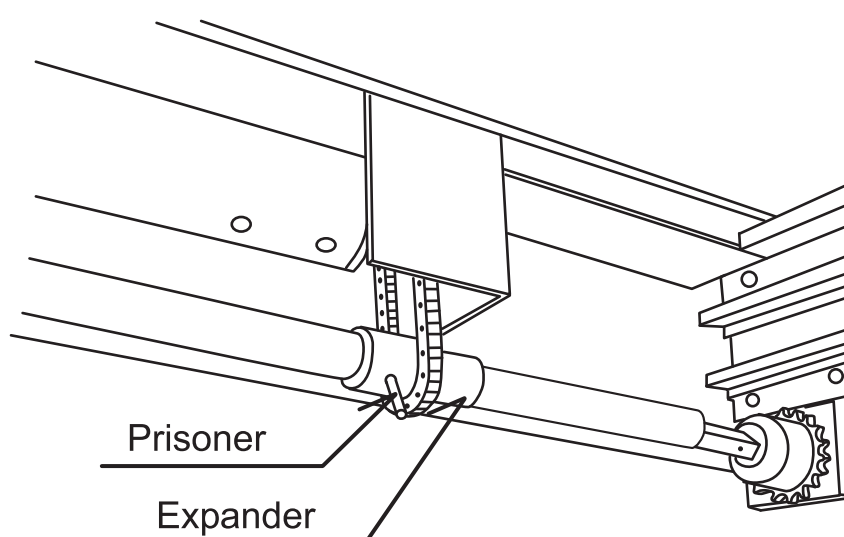
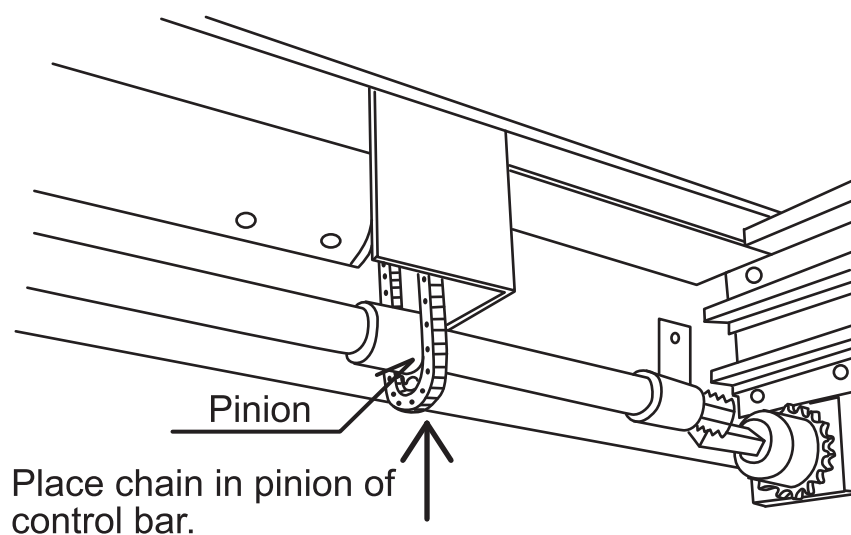
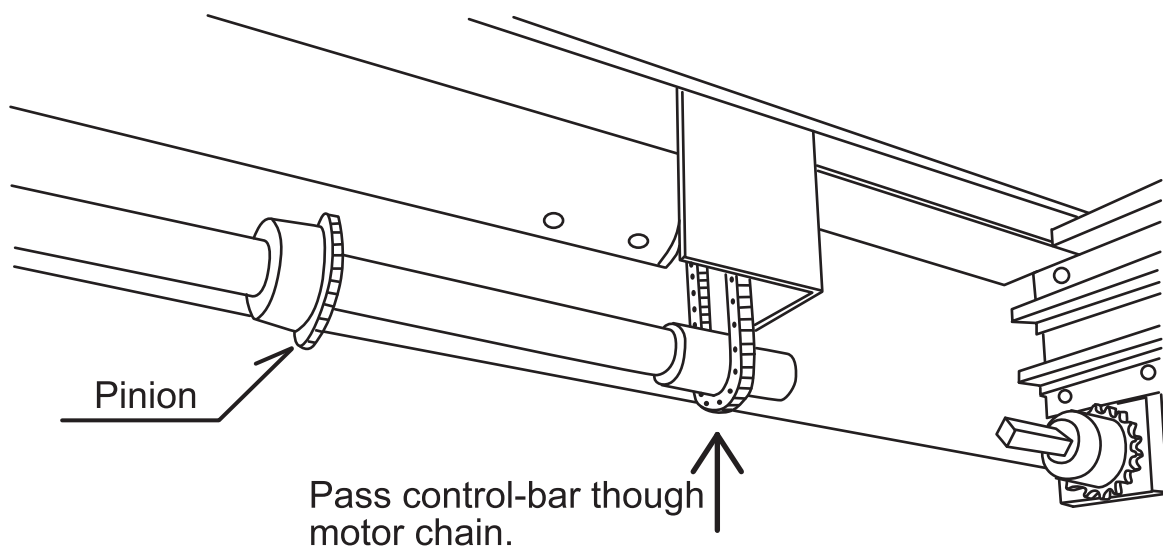


- 13 Ease the support screws of the motor from the extreme where the gears are to be able to put the control bar.



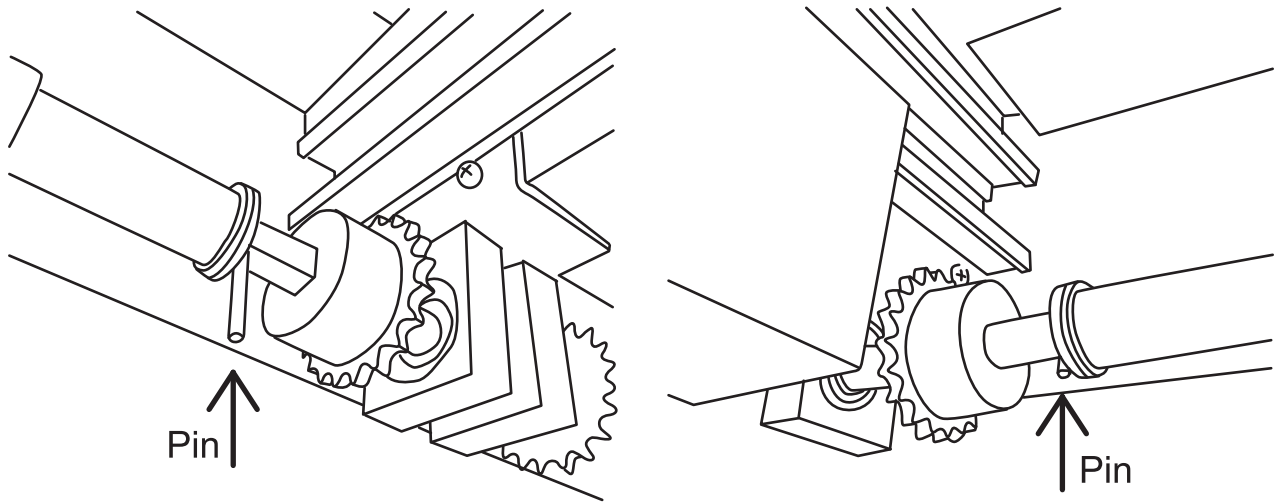
- 14 Place the control bar inside the motorchain, taking in account that the control bar expander is placed on the right side of the gears of the motor.



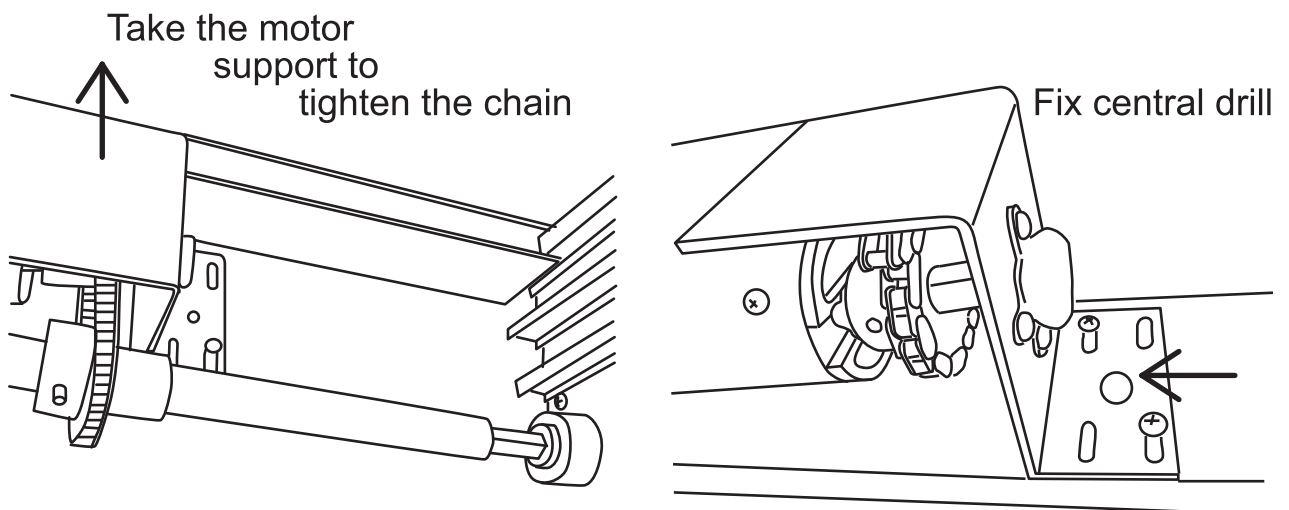


**NOTE:** To take in account. Leave the prisoners of pinion of control bar at sight, to fix them later.

- 15 Put the washers in touch with the control bar and place the pins in the pinion axis. NOTE: The use of this step is to avoid lateral movements of the control bar.

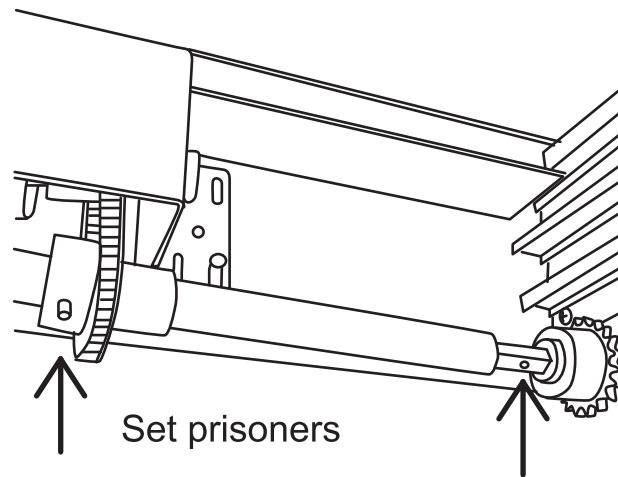


- 16 Tighten the motor chain, pushing upwards the motor support. When the chain is completely tighten fix the support of the motor in its central drill.

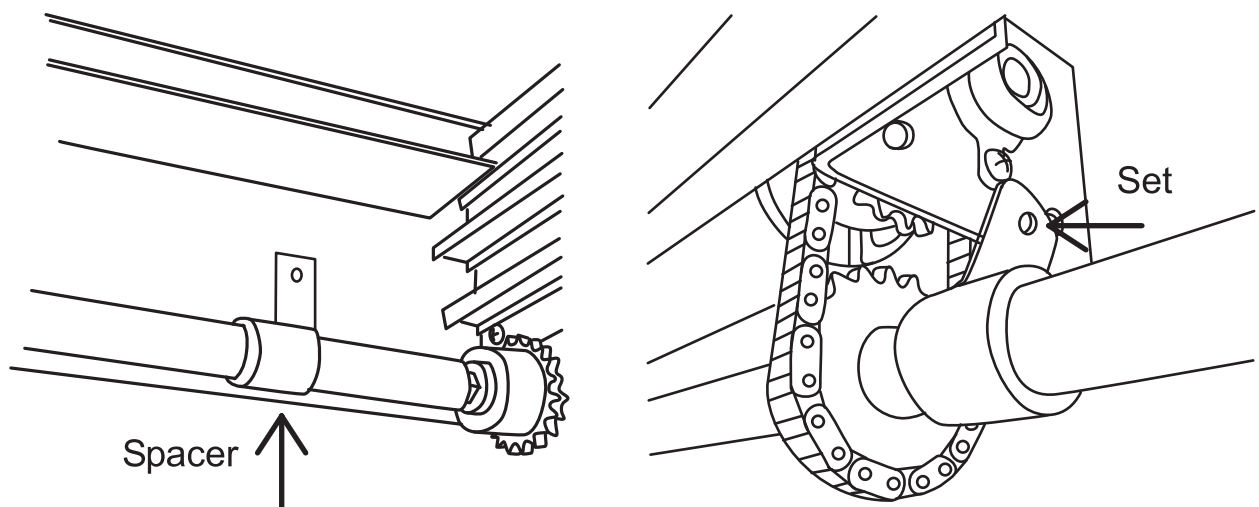


NOTE: When motor starts the chain tractions. If one tooth chips it's because of the chains that in not well tightened. In this case on has to regular the end of travel of the fall: yellow button.

- 17 Press to the maximum all the pinion prisoners of the control bar, taking in account that the pinion of the control bar is perfectly aligned with the pinion of the motor so that the chain works in a straight level.



- 18 Place the expander bar from the control bar together to the motor and fix to the support of the motor.



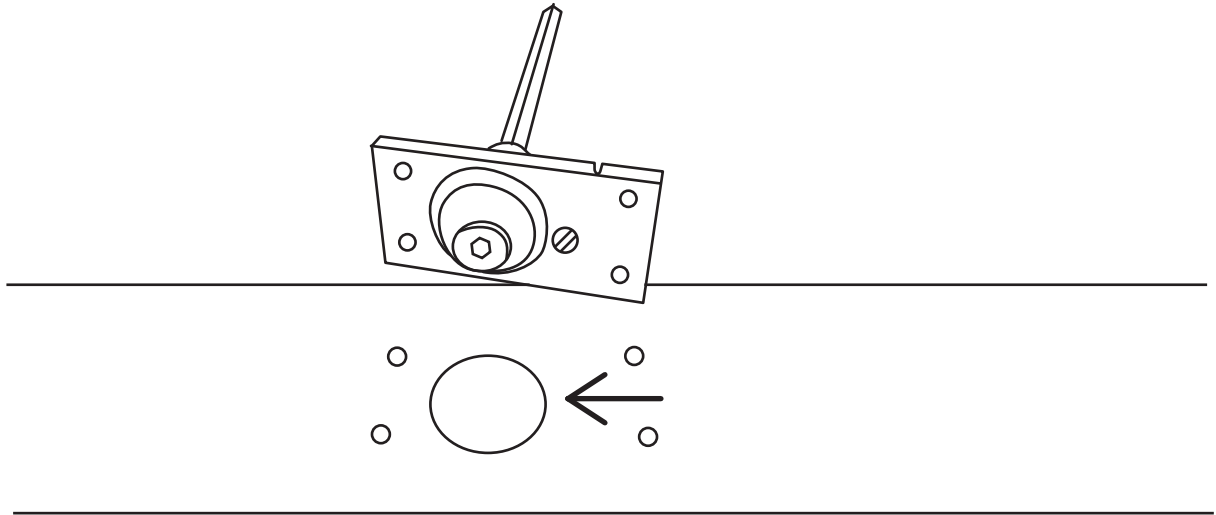
- 19 Check the right functioning.

- 20 Regulate the rise of the end of travel (white button), the end of travel of fall (yellow button) they are regulated from factory so please don't touch.

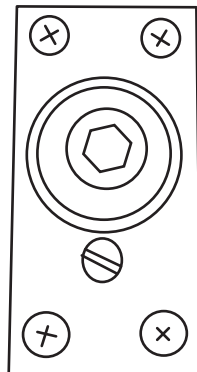
Blue-Black wire: Close leaves to fall down  
Blue-Brown wire: Open leaves to go up

Press white button of end of travel to raise. Connect to electronic connection the blue and brown wire to raise up the leaves. At the moment we wish to fix the maximum folding position of the leaves we turn to push the white button.

- 21 Make a 25 mm diameter drill in the cover of the bar control. At extreme of the motor support without gears, lining with exit of the motor.



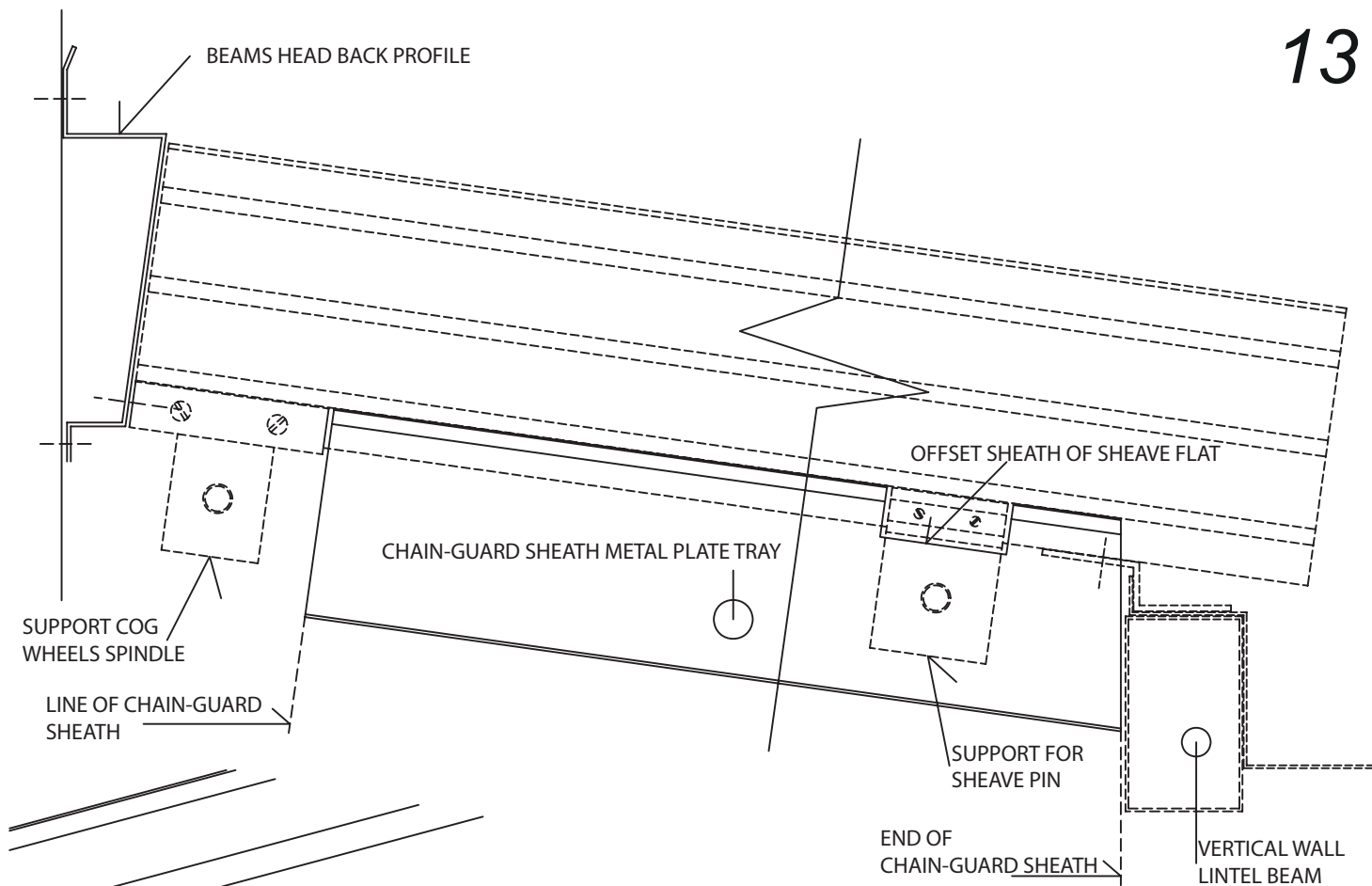
- 22 Place the manual control panel by introducing the key through the exit of the motor and fix with screws the cover of the same.



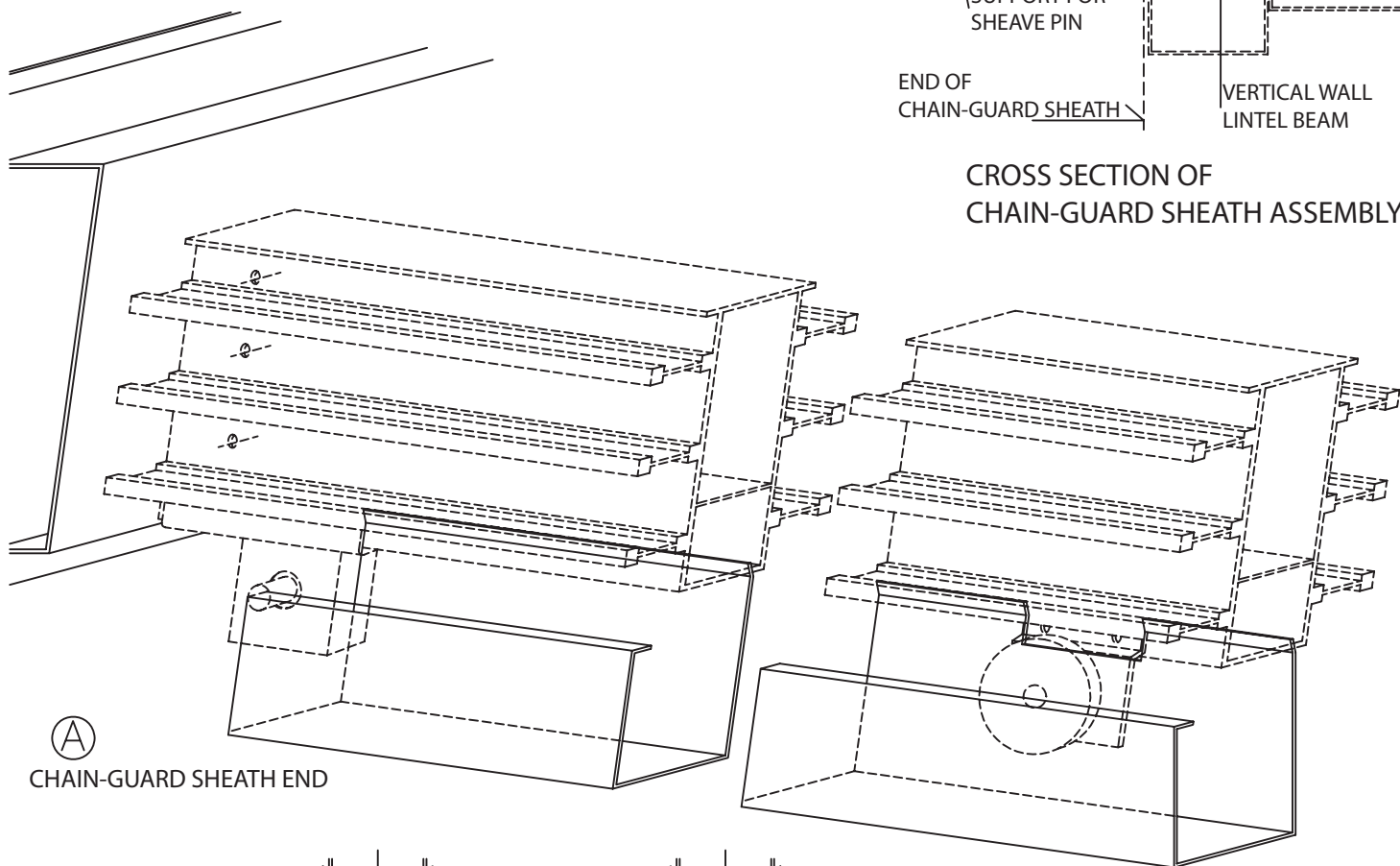
## USE OF EMERGENCY CRANK

**ATTENTION:** never control the motor from the control panel during using the emergency crank

- Cut of the light
- Place the crank at the end of the manual control panel
- Turn the crank to raise or close the leaves of the roof.

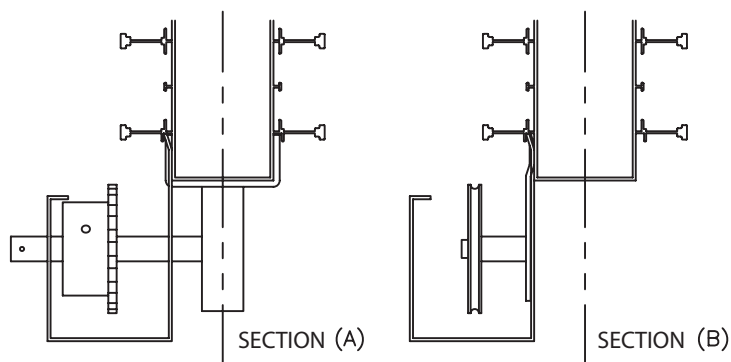


CROSS SECTION OF CHAIN-GUARD SHEATH ASSEMBLY

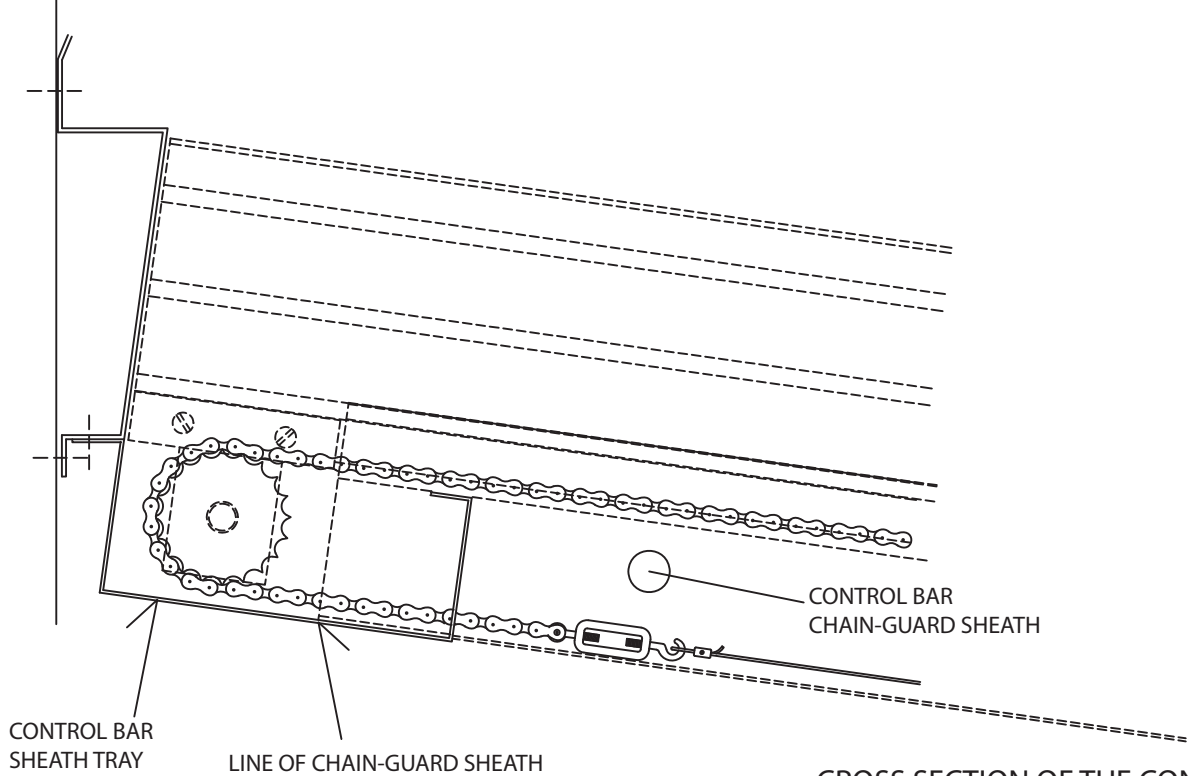


(A) CHAIN-GUARD SHEATH END

(B) END OF CHAIN-GUARD SHEATH



23 INSTALL THE METAL PLATE CHAIN-GUARD SHEATH TRAY WITH THE PRECISE LENGTH FROM THE VERTICAL WALL LINTEL BEAM TO THE "U" PIECE OF THE COG WHEEL SUPPORT, PRECISELY OFFSET TO CLEAR THE RETURN SHEAVE ANCHORING FLAT ALONGSIDE THE FIRST SLIDING PANEL

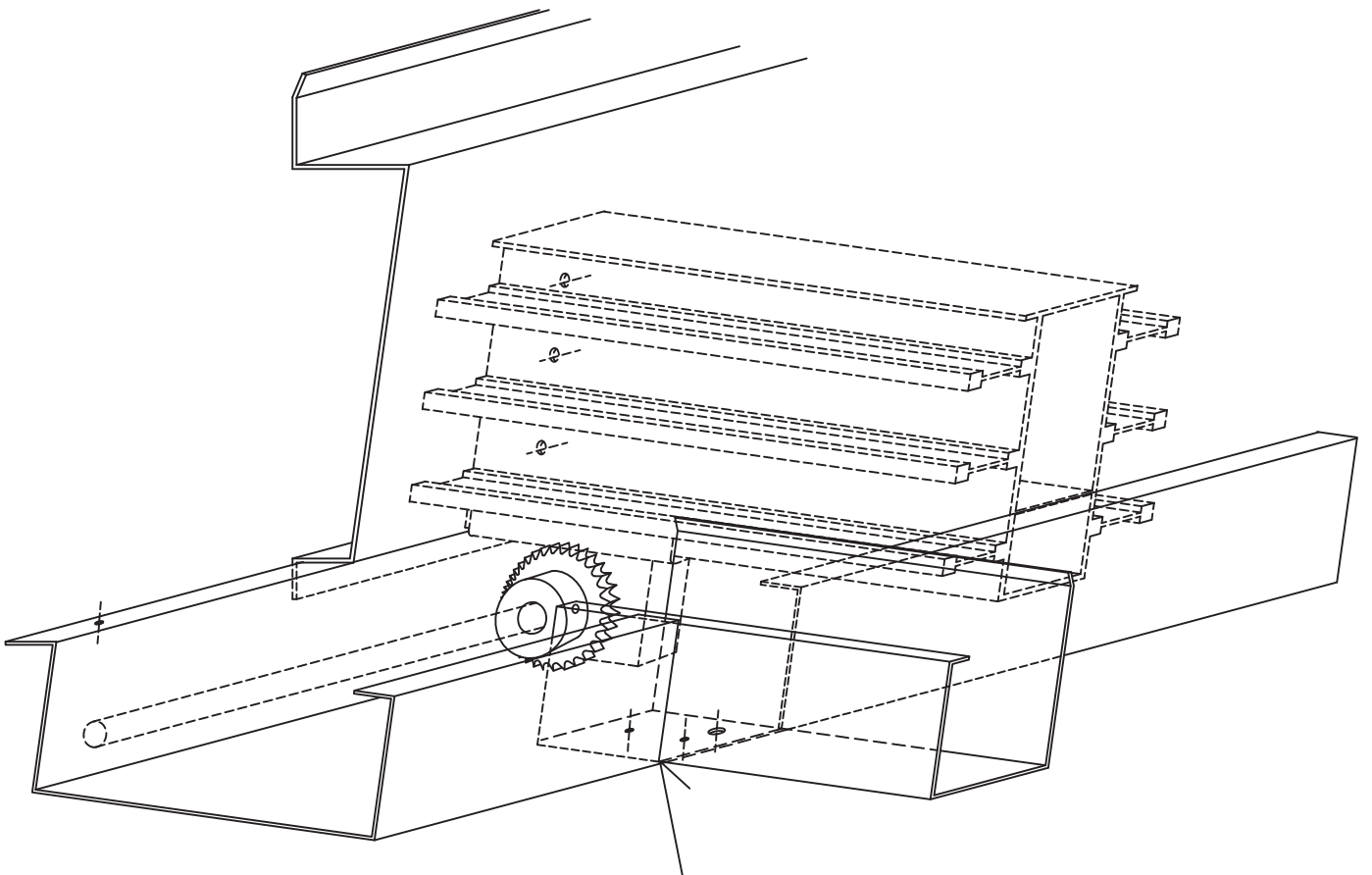


CONTROL BAR SHEATH TRAY

LINE OF CHAIN-GUARD SHEATH

CONTROL BAR CHAIN-GUARD SHEATH

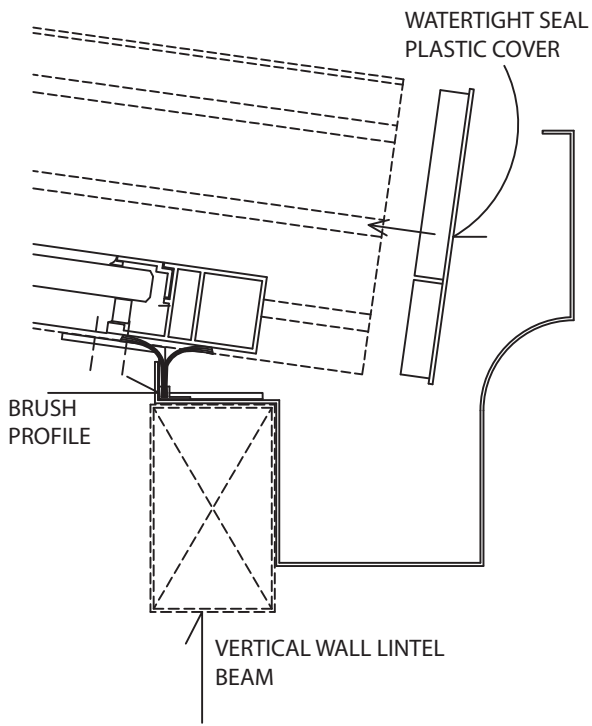
CROSS SECTION OF THE CONTROL BAR SHEATH ASSEMBLY



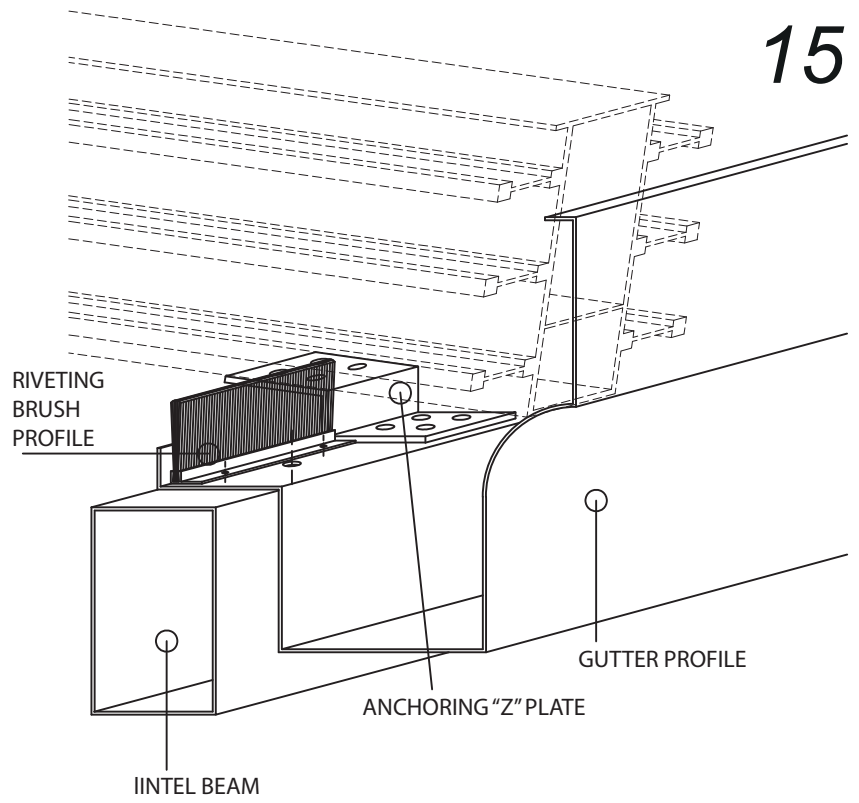
CUT OF LINING DELIVERY COVERS CHAINS

24

INSTALL THE CONTROL BAR SHEATH METAL PLATE TRAY BETWEEN THE BEAMS, WITH THE PRECISE OFFSETS FOR CONNECTING THE CHAIN-GUARD SHEATH TRAYS, BOLTING THE TOP FLANGE TO THE BACK PROFILE AND THE INTERIOR SIDE TO THE END BASE OF THE CHAIN-GUARD SHEATH THAT PENETRATES INTO THIS TRAY



CROSS SECTION OF WATERTIGHT BRUSH PROFILE AND SEALING COVER ASSEMBLY



25

THE WATERTIGHT GASKET PROFILE IS FIXED BY MEANS OF RIVETING OVER THE HORIZONTAL PLATE OF THE GUTTER, TO THE WALL LINTEL BEAM AND WITH THE PRECISE MEASUREMENT RESULTING FROM FIXING THE ANCHORING "Z" PLATES AND THE ROOF SUPPORT