

## Assembly instructions

# Fulvia tensioned fabric Pergola

3 or more modules





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## Important

It is important to read these instructions carefully before installing, operating, repairing or first using the product, to protect the safety of users and the integrity of the product.



## 1. General recommendations regarding safety, use and restrictions

In order to ensure the safe assembly, use and maintenance of this product, a number of precautionary measures must be taken. Please observe the following warnings and instructions, for the safety of all concerned. Please contact your distributor with any queries.

-This manual is intended as a reference for experienced professionals and should therefore not be used by DIY enthusiasts or trainee fitters.

-This manual describes the installation of the components of the product set, and refers to the electrical control installation manuals. If necessary, this manual should be supplemented with instructions for any additional components not described herein.

-Please read this manual carefully before starting work.

-Some components may be sharp or have jagged edges. It is therefore advisable to wear safety gloves.

-All parts supplied have been calculated specifically for this product. The replacement or addition of other parts may have a negative effect on the safety level of the door and its warranty. In addition, the CE certification of this product will become invalid if any parts are replaced or if the installation is not carried out in accordance with the instructions in this manual. The installer shall accept full responsibility in this regard.

-Ensure that the mounting area is sufficiently illuminated. Remove any obstacles or dirt. Make sure nobody is present besides the fitters. Unauthorised persons (especially children!) may interfere or cause hazards during installation. Before assembly, it is very important for your safety, and the security of the product, to follow all the recommendations listed below. A poor-quality installation may cause harm to people or damage to the installation itself.

Once the product has been unpacked, a professional installer must check its integrity and (prior to starting the installation) check the availability of all the components and tools to allow for proper installation.

Please contact **Saxun's** technical department with any queries.

Under no circumstances should a damaged product be installed, since it may damage the installation itself and give rise to personal dangers.

These **systems are exclusively intended for the use for which they were designed**. Any other use is inappropriate, and therefore dangerous.

The system must always be installed by a professional installer, following the manufacturer's instructions and understanding and applying all current regulations.

**In the case of a power operated product**, the existing voltage must be checked before installation.



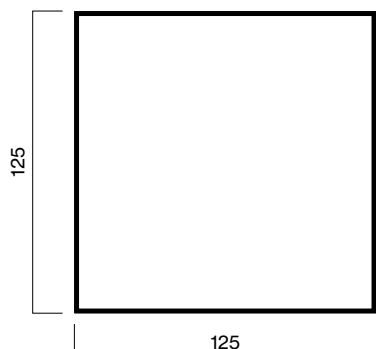
### Important

The connection must always be a grounded connection. Otherwise, do not continue the installation as this may be dangerous.

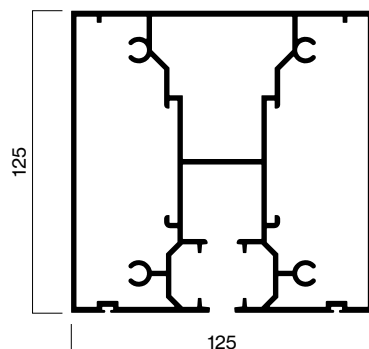
Should any damage and / or a system malfunction be detected, **do not continue** with the installation.

The manufacturer will not be liable for damage caused during the installation due to failure to comply with these recommendations.

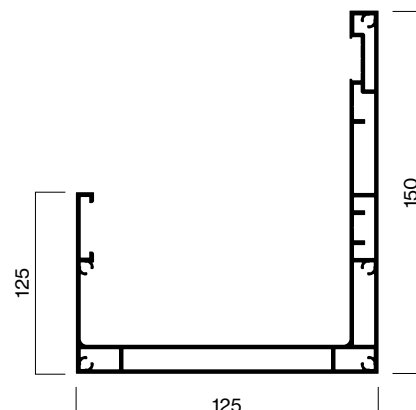
## 1.1 Components



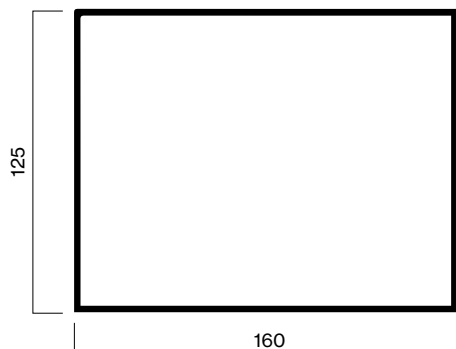
050266  
P-125x125 mm mechanised column



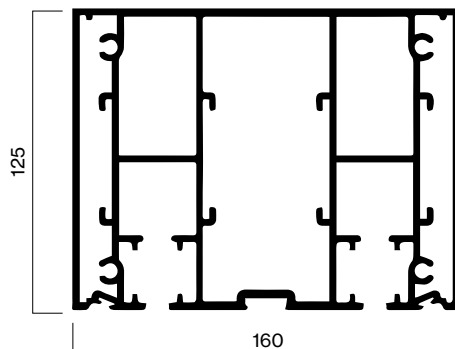
050274  
125x125 mm guide beam



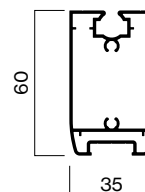
050273  
Fixed collector gutter



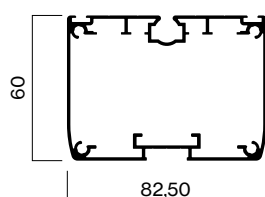
050534  
Column 160x125



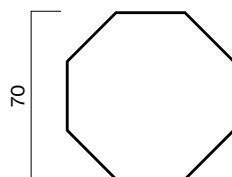
050535  
Double beam 160x125



050275  
Simple canvas crossbar



050276  
Final canvas crossbar



507314  
70x1.5 mm axle



050201  
PLT simple canvas pole end plate



050302  
PLT final pole end plate



050201  
Surface S bracket



050538  
Double beam fixing base



050300  
PLT 125x125 mm collector  
gutter end plate



024324  
PLT gutter joiner plate



05536  
Placa Unión Canalón  
Viga Doble



050290  
98,53° Frontal square



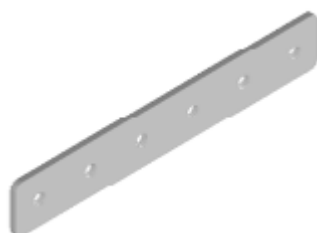
050299  
Wall-ceiling adjustable support



051107  
4.2x22 A2 bracket screw



050294  
120x24.5x3 mm joining plate



050537  
155x24.5x3 mm joining plate



005591  
ISO 7380 M6x16 A2 screw



051306  
ISO 7380 M6x12 A2 screw



024456  
DIN 7380 A2 M6x10 screw



120048  
DIN 913 A2 M6x10 mm Stud screw



507158  
telescopic axle PVC 70 mm  
con espiga Ø16



050366  
2x1000 PLT panel (Optional Roof)



506094  
278x2 mm plate (Mini Roof)

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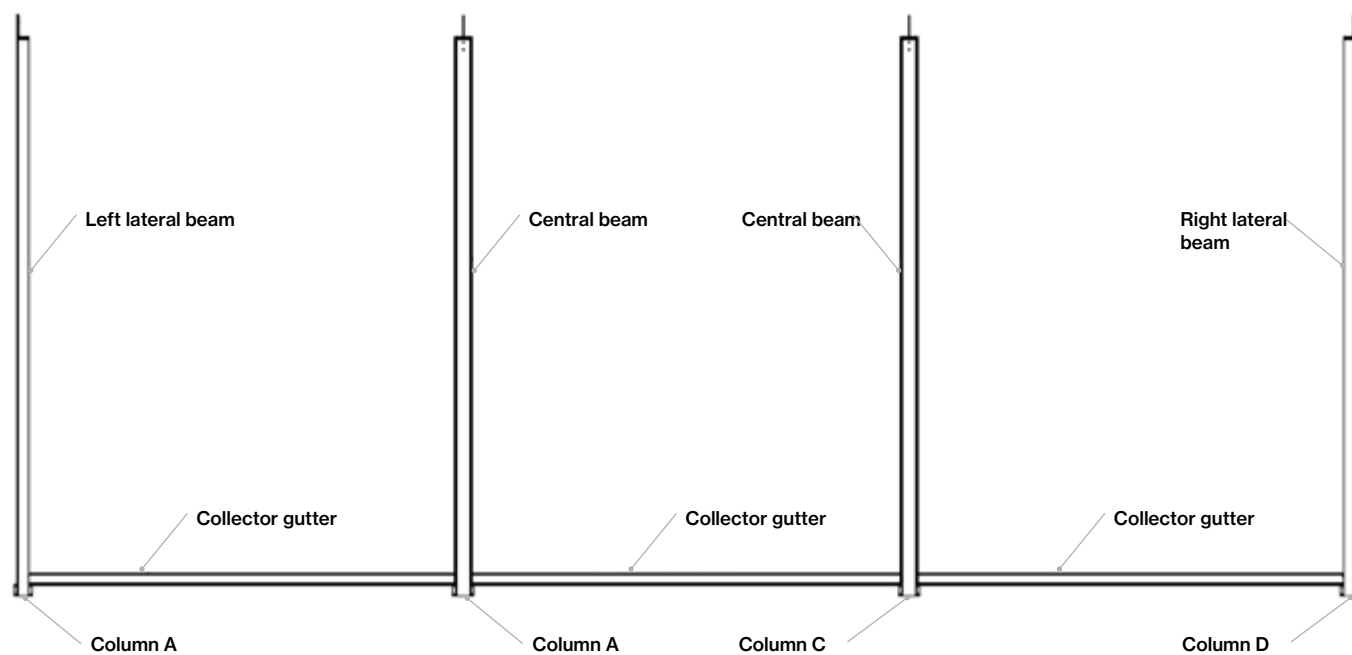
## 2. Assembly and installation

Make sure that the surface where the product is to be installed has sufficient load capacity.

Each product comes with documentation and a detailed description of all the system's components. Only these components can be used for the operation of this product.

Our desire to simplify installation systems allows us to supply the most compact and simplified product assembly possible.

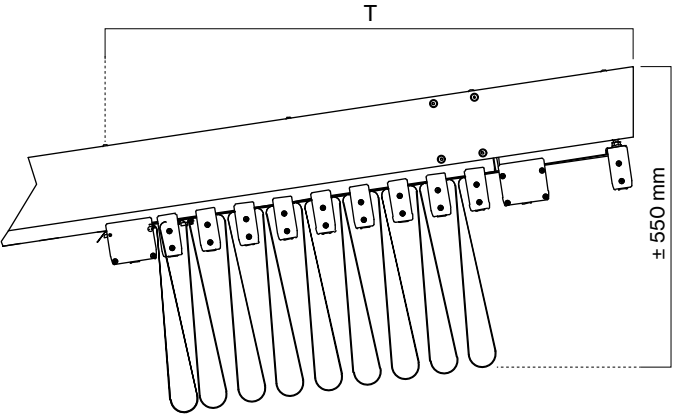
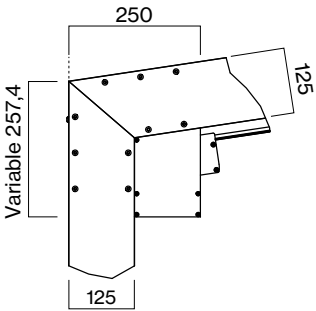
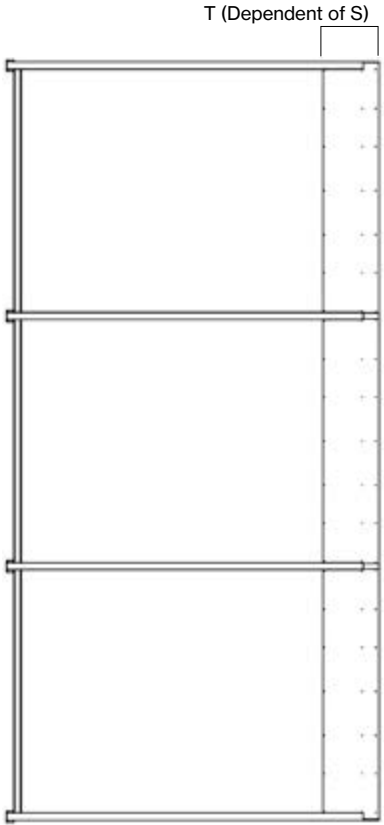
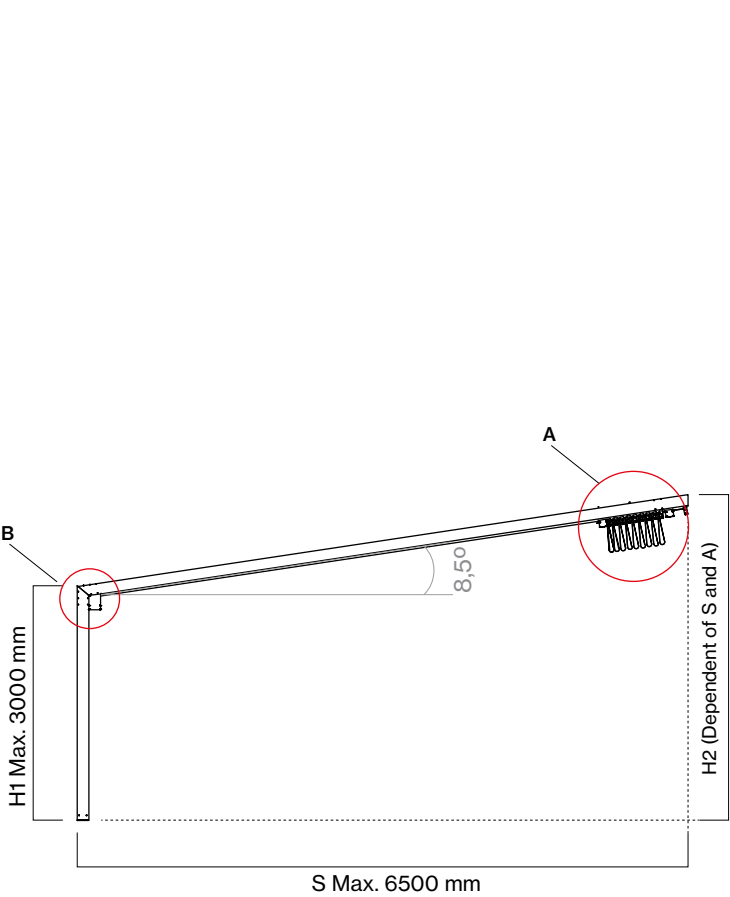
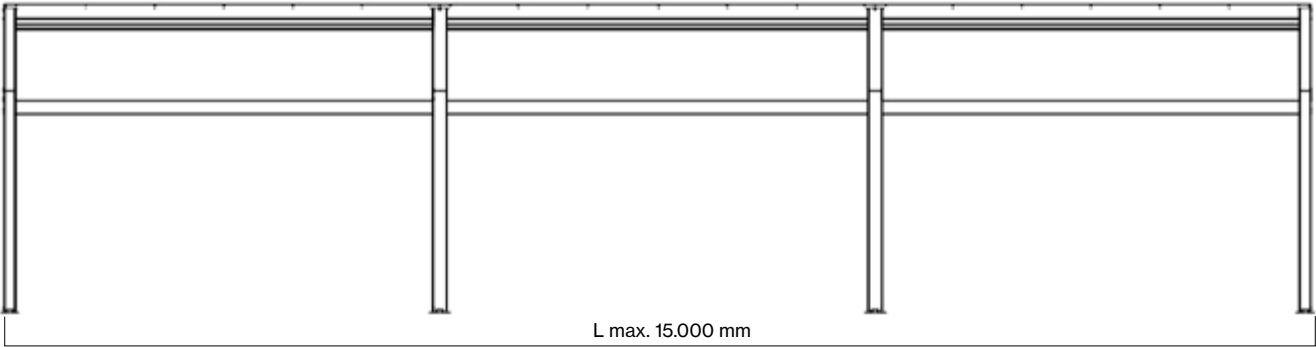
### 2.1 Structure layout plans



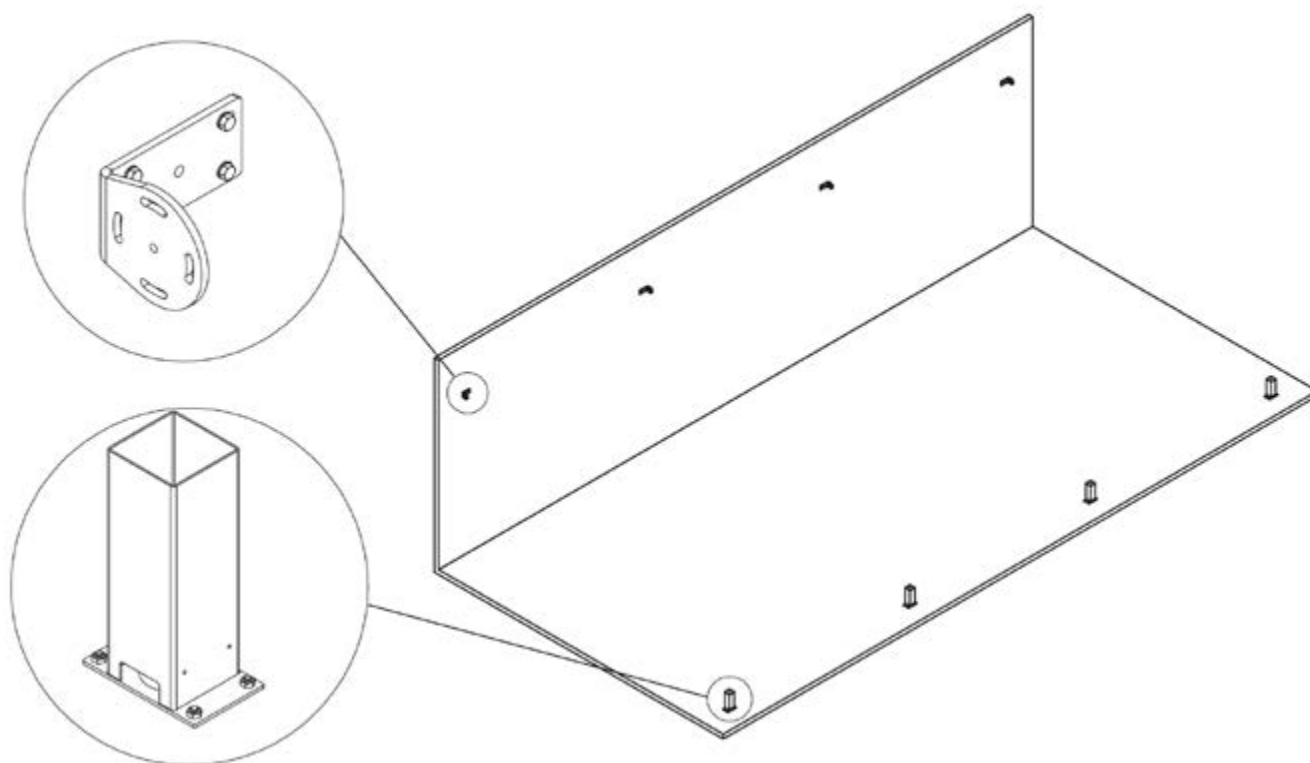
#### **Importante**

For a Fulvia with more than 3 modules, the same installation steps will be followed, but with more modules in between, as the installation of the modules is done in the same way. The maximum dimension per module is 5000 mm.





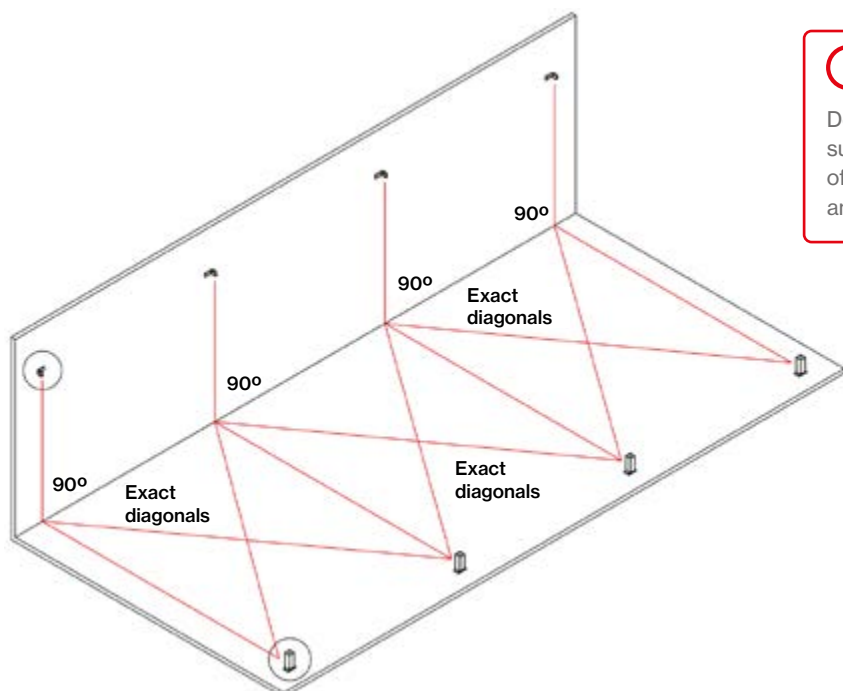
## 2.2 Installation of surface S bracket and adjustable wall-ceiling support



Install the surface S brackets (code 050201) and the adjustable wall-ceiling support (code 050299) using M10 screws (not included), at least of AISI 304 (stainless steel) quality, leaving all the bases and supports correctly aligned according to the measurements of the structure and the irregularities of the sill.

Before installation, check that the measurements indicated are correct. To do this, measure the diagonals, checking that both distances are equal.

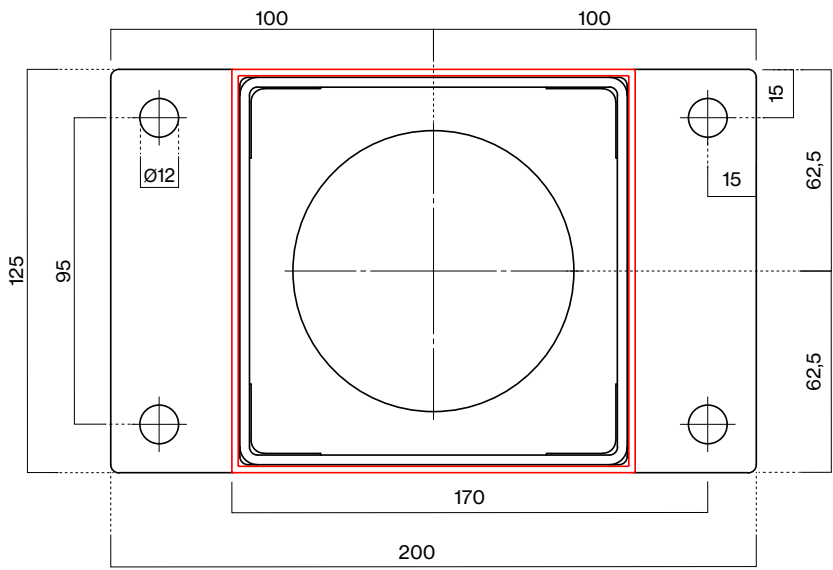
The correct installation of the bases and supports is crucial for optimum function of the product.



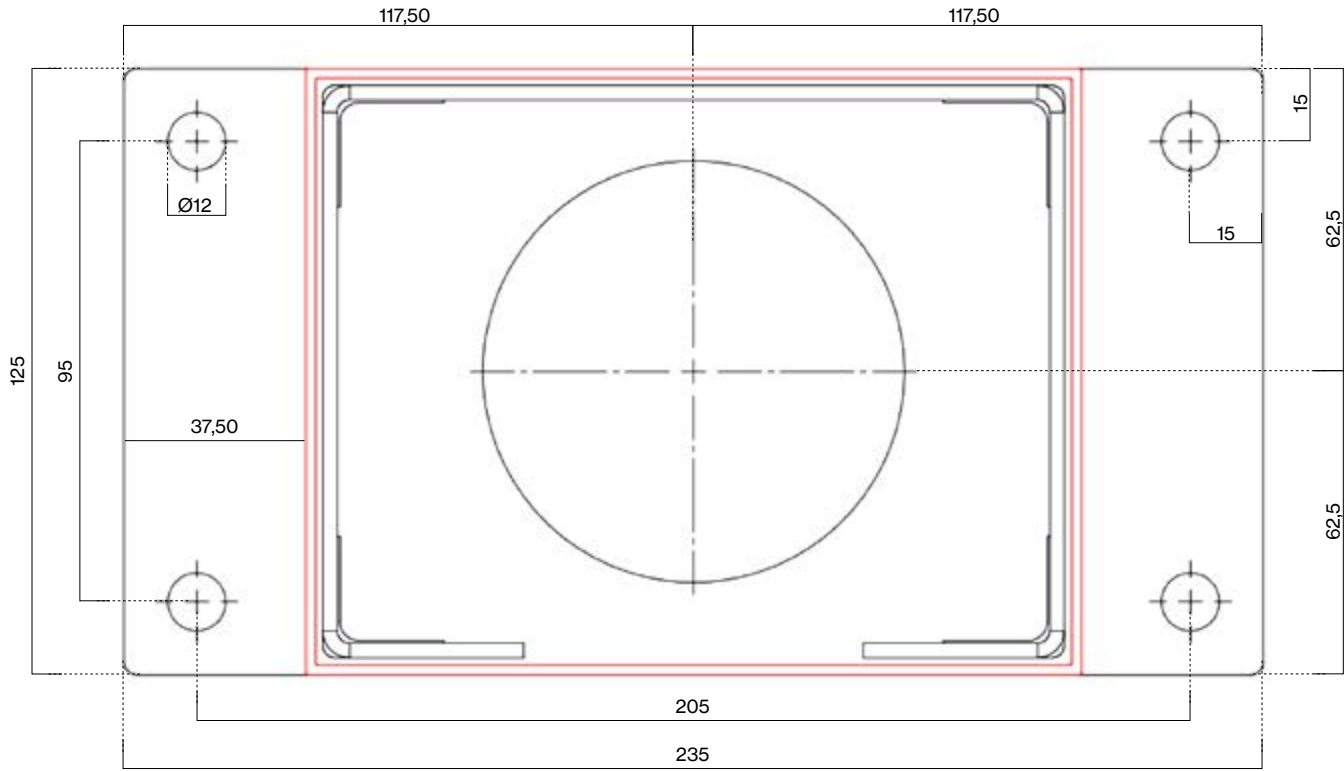
### ⚠ Important

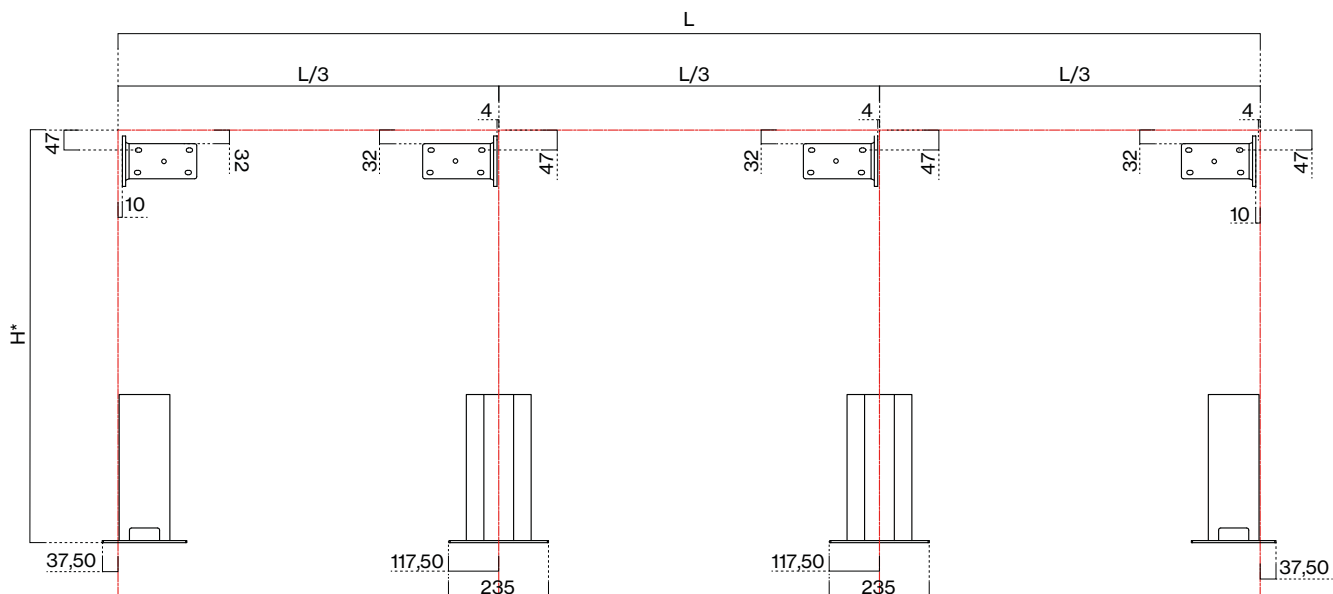
Do not make a final tightening of the wall-ceiling supports until specified in point 2.4. "Assembly of lateral beams on the wall and on columns A, B, C and D".

Surface S bracket plan



Double beam fixing base plan

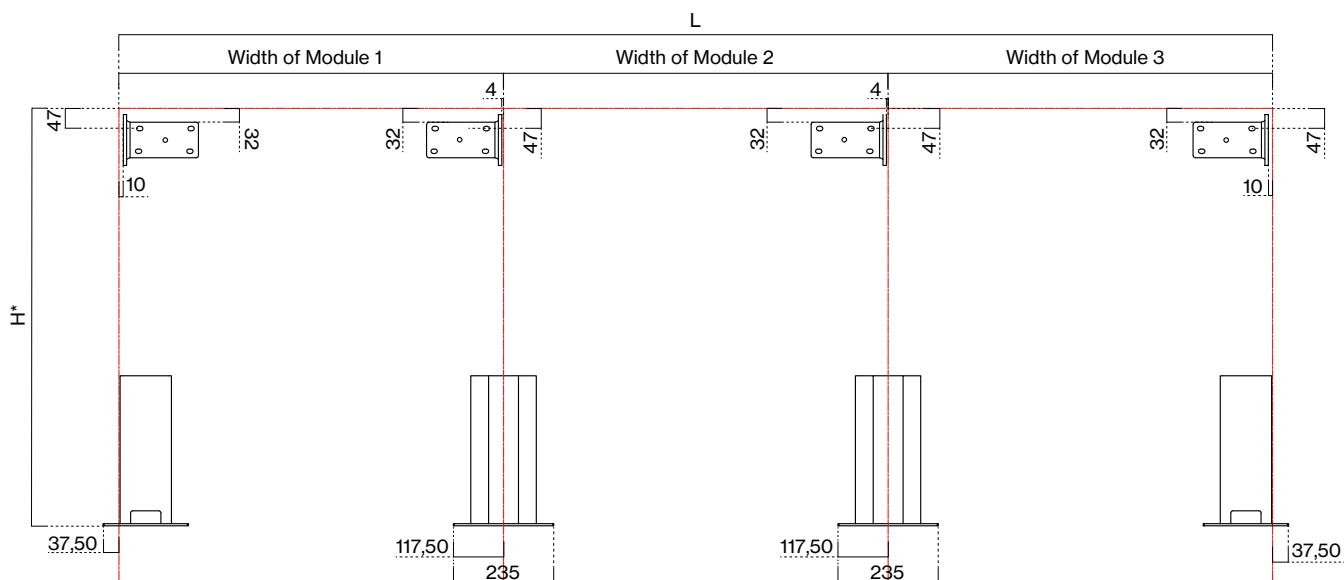




### ⚠ Important

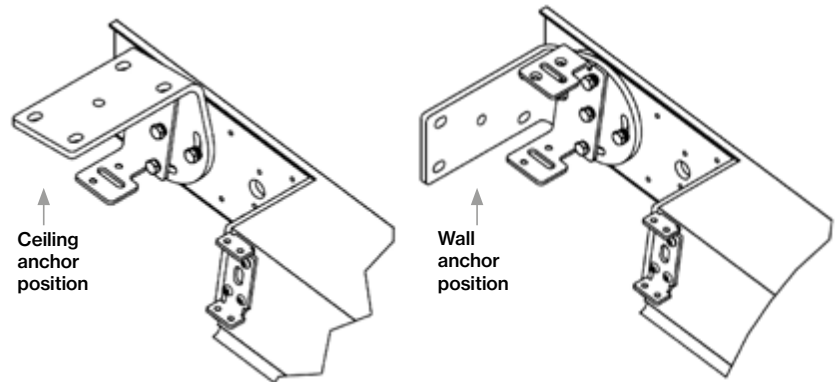
$H^*$  may vary since the slope of the screed must be taken into account.

In the case of having a different width in each module, the supports shall be installed leaving the same dimensions as indicated in the previous image.



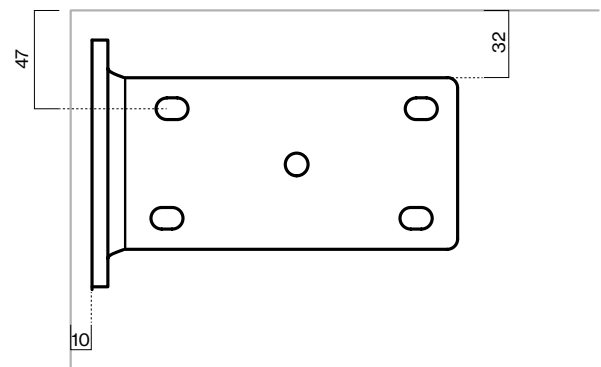
### Adjustable wall-ceiling support anchor

The wall-ceiling bracket code 050299 is adjustable to a fixed inclination of 15° for its installation on the ceiling or wall.



### Adjustable wall-ceiling support plan

The following reductions will be applied to the total measurements of the structure for installing the adjustable wall-ceiling support (code 050299).



## 2.3 Assembly of collector gutter with columns A, B, C and D

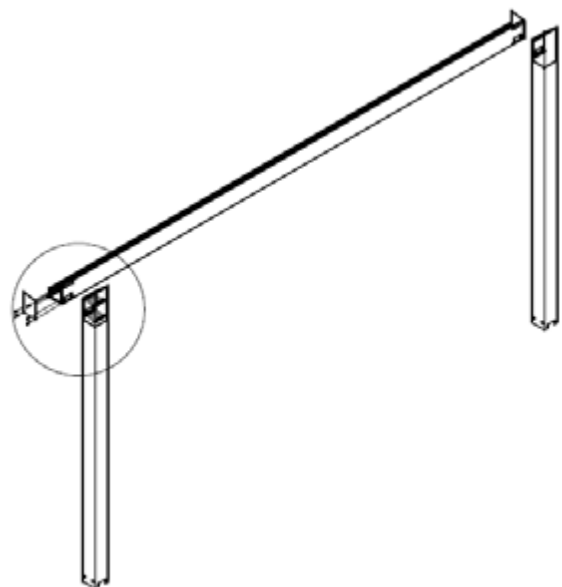
Install the **fixed collector gutter** (code 050273) in **A** perforated column P-125x125 (code 050266).

Insert the 120x26.5x3 mm joining plate (code 050296) into the groove on the gutter and the gutter joining plate (code 024324) into the column.

### ! Important

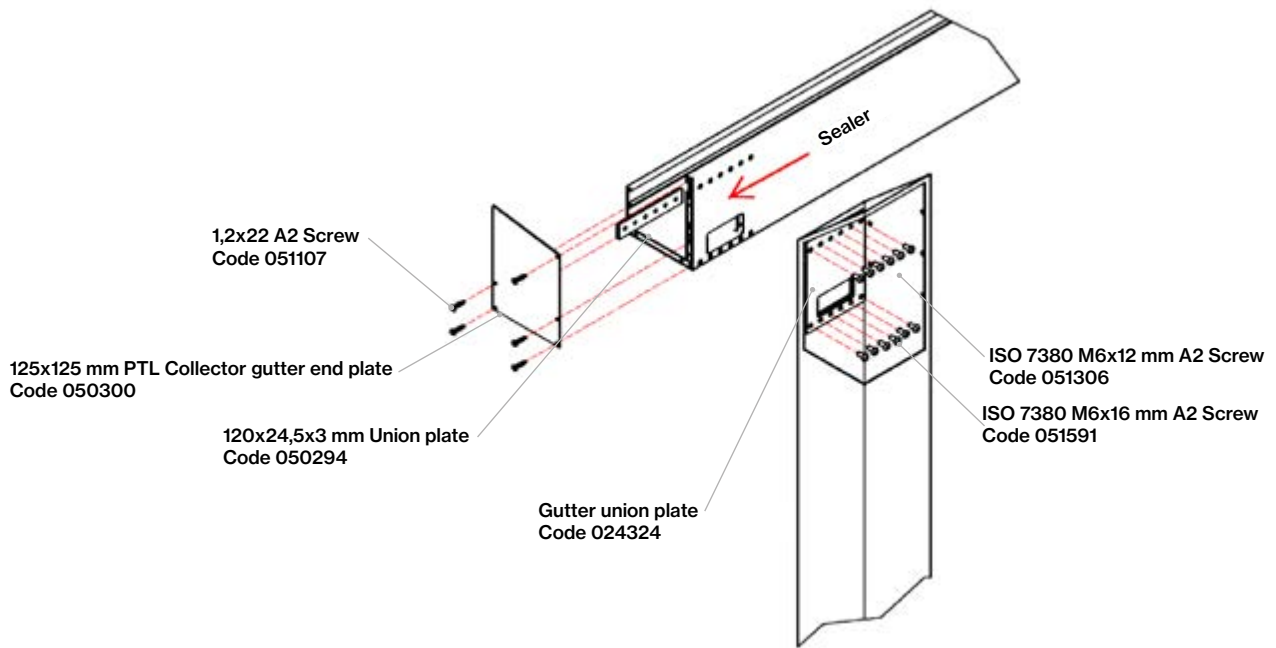
Install the joining plate (code 024324) **straight** when tightening the screws.

Install the gutter using ISO 7380 M6x12 A2 screws (code 051306) from the internal part of the column in the upper row and the ISO 7380 M6x16 A2 screws (code 005591). **Apply sealant between the gutter and the column and in the perforated holes to avoid water leakages.**



### ! Important

If the gutter has LEDs pass the cable through the interior of the column and then through the beam. **do not compress the cable with the profiles, it could split.**



Affix the 125x125 mm PTL collector gutter end plate (code 024167) using the 4.2x22 A2 bracket screws (code 051107). Apply sealant throughout the internal part of the gutter.

Install the **fixed collector gutter**(code 050273) in column **B** 160x125 (code 050534).

Insert the joining plate 155x24, 5x3 mm (code 050537) into the gutter groove and the gutter joining plate (code 050536) into the column.

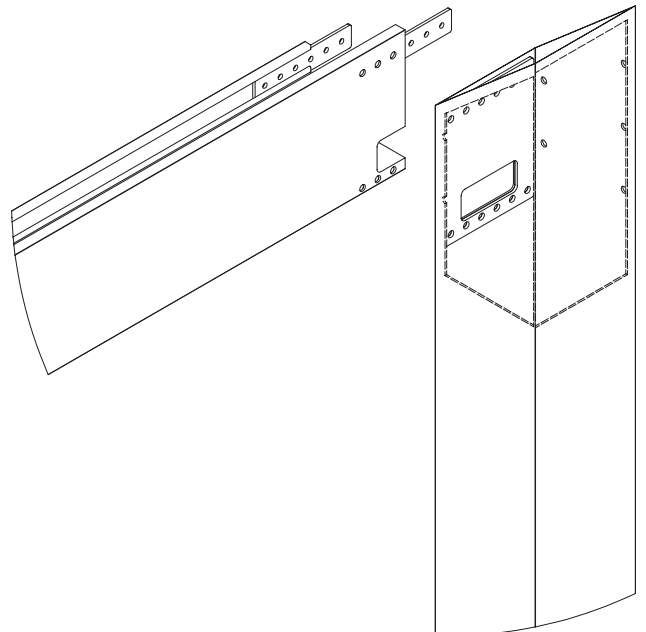
### ! Important

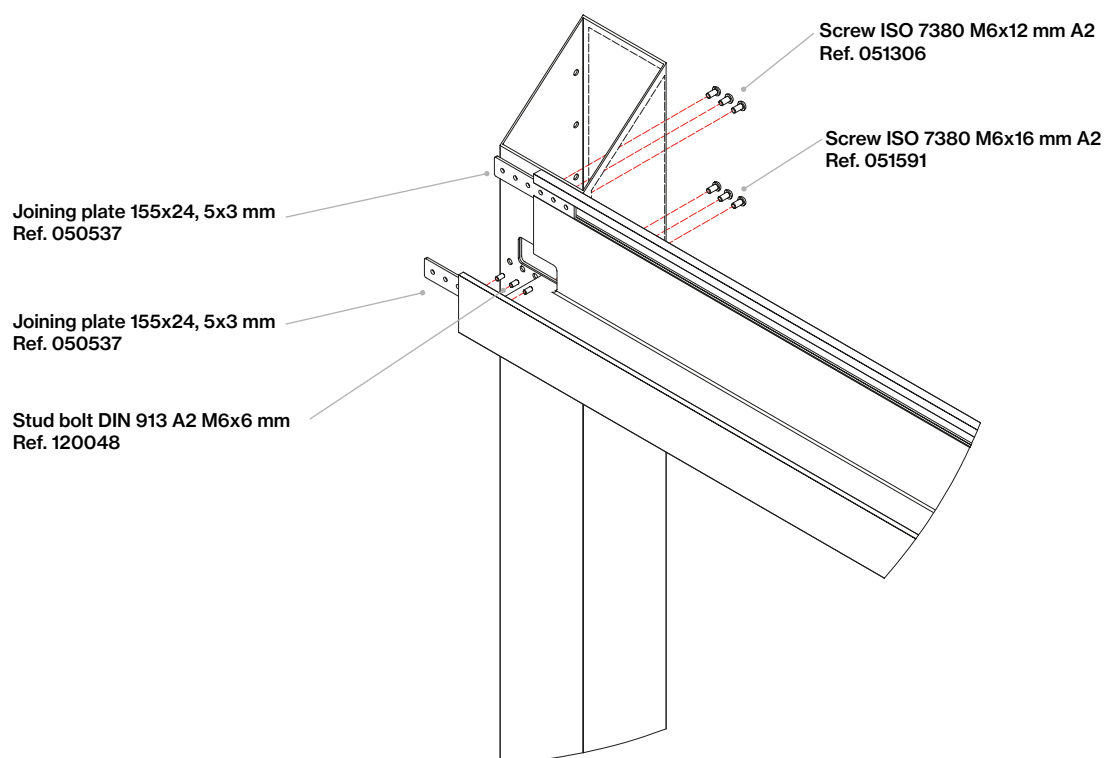
Install the **straight** joining plate (code 050536) when tightening the screws.

Install the gutter using ISO 7380 M6x12 A2 screws (code 051306) from the internal part of the column in the upper row and the ISO 7380 M6x16 A2 screws (code 005591). **Apply sealant between the gutter and the column and in the perforated holes to avoid water leakages.**

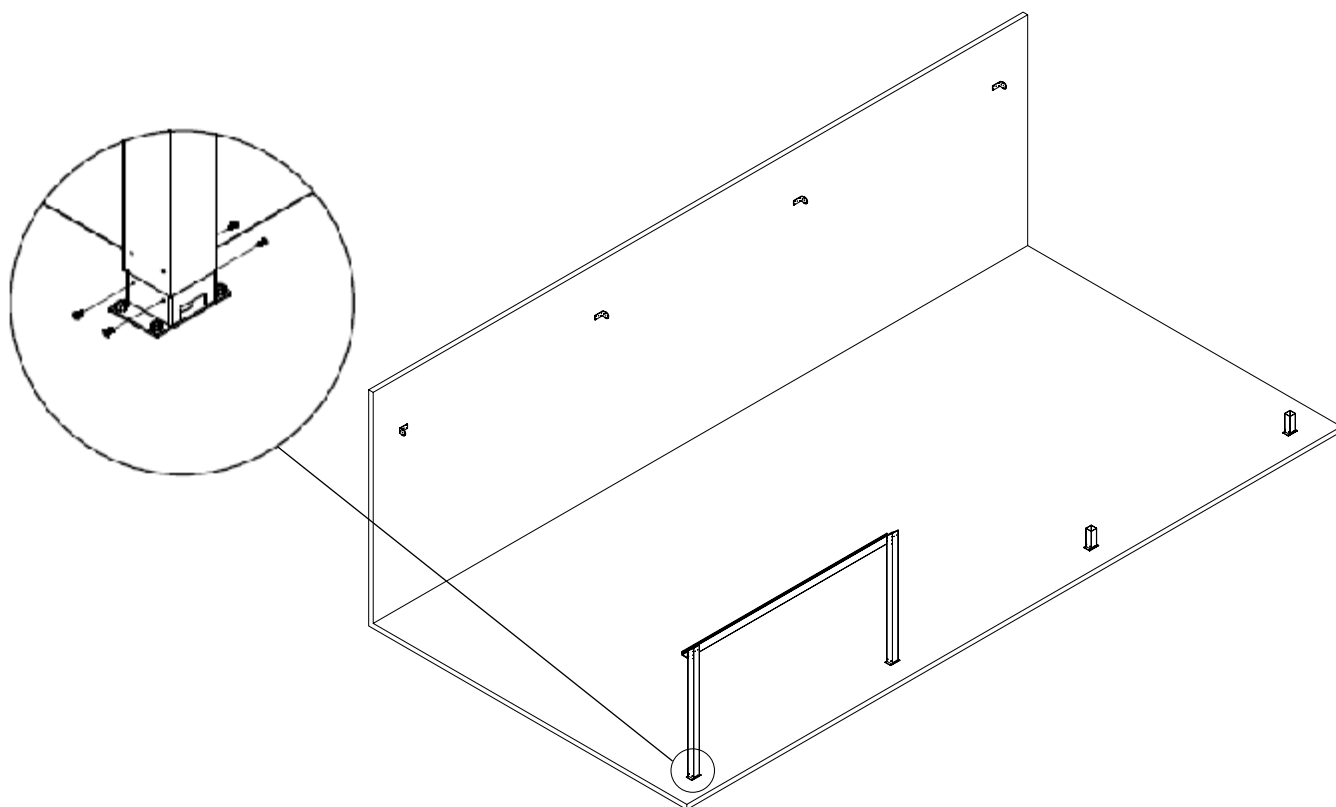
### ! Important

If the gutter has LEDs pass the cable through the interior of the column and then through the beam. **Do not compress the cable with the profiles, it could split.**

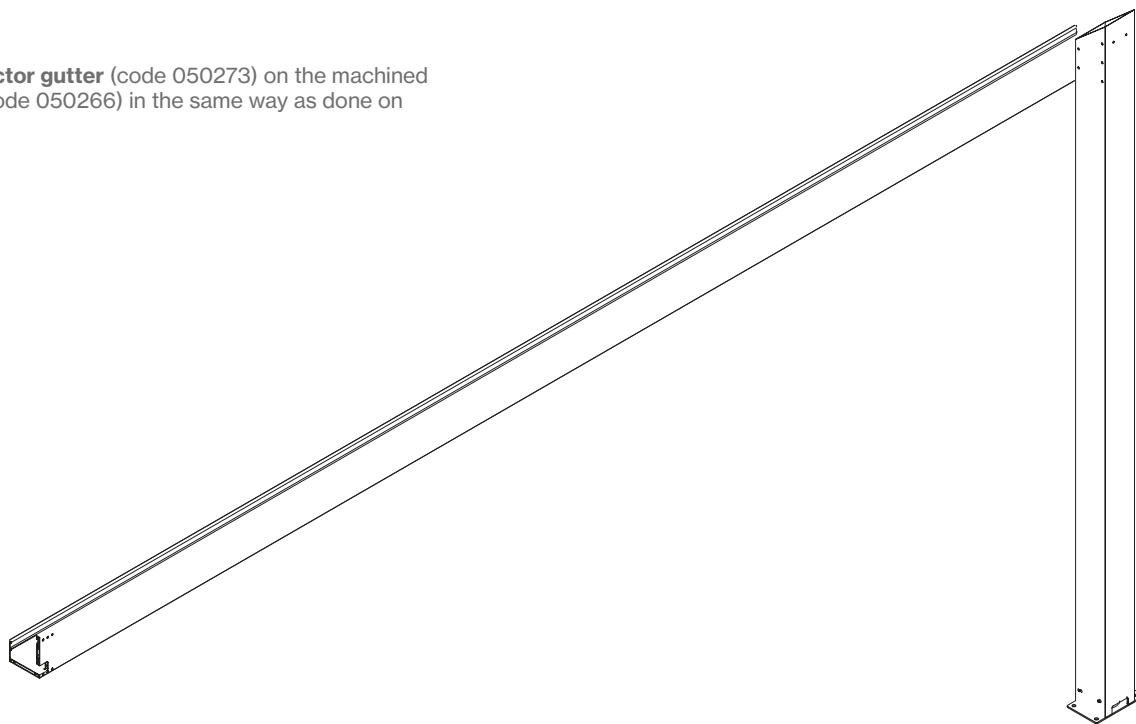




Once the gutter is assembled and attached to columns **A** and **B**, attach the columns to the bases of the chair using the ISO 7380 M6x16 A2 screws (code 005591).



Install the **fixed collector gutter** (code 050273) on the machined column **C 125x125** (code 050266) in the same way as done on column **B**.

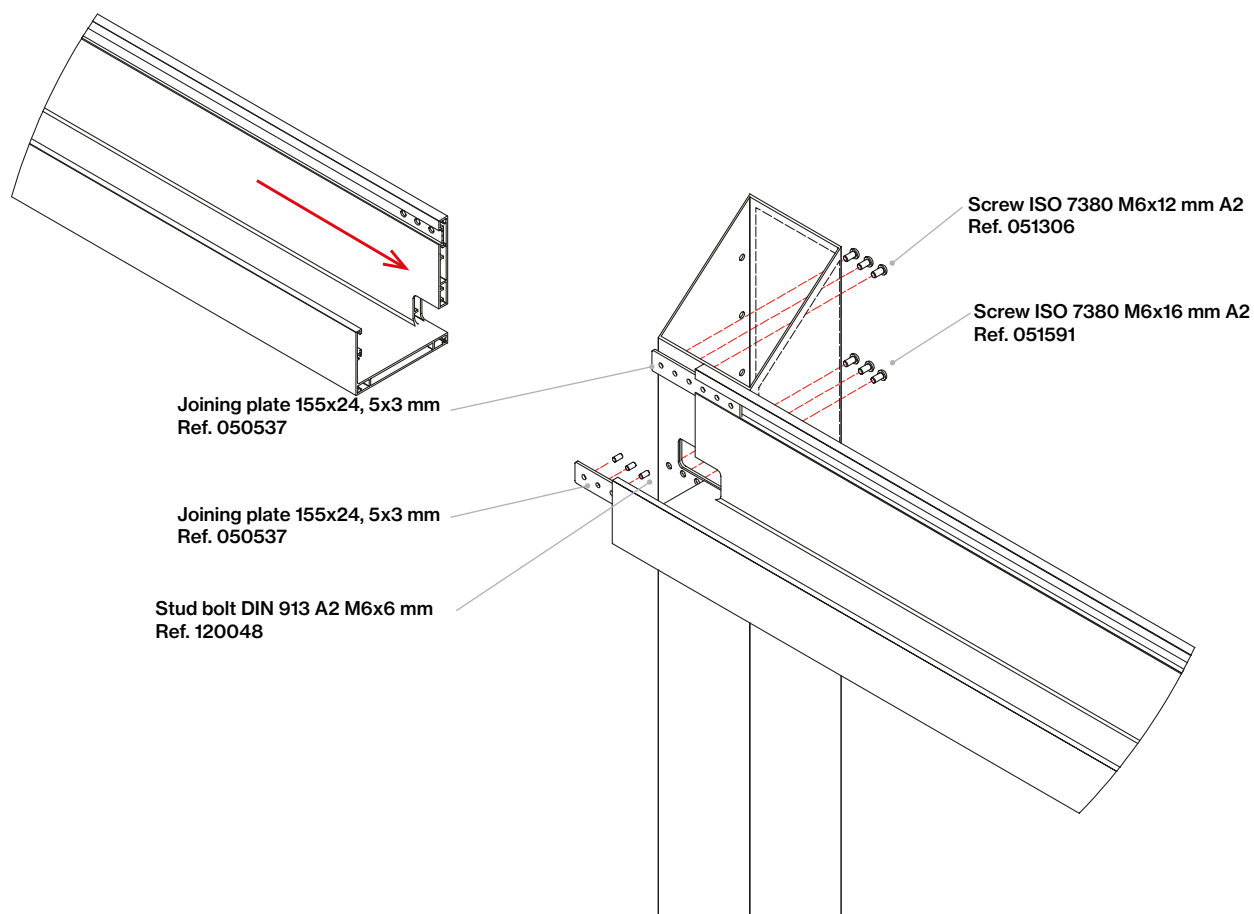


Install the **fixed collector gutter** (code 050273) on the machined column **D 125x125** (code 050266) in the same way as done on column **A**.

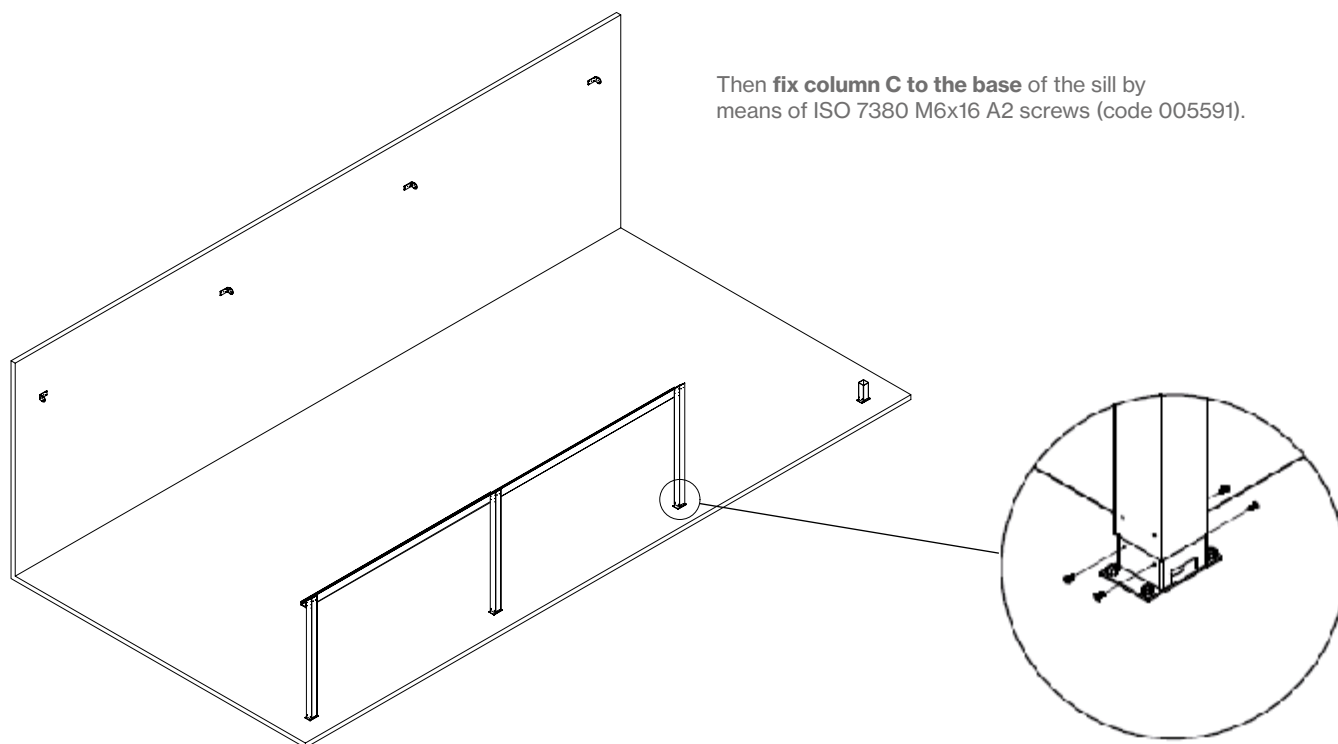
Install the **fixed collector gutter** connected to column **C** with the **fixed collector gutter** installed in column **B** by means of the joining plates.

### ! Important

Apply sealant to the column and joints joining the two channels. **Finally tighten all the screws.**



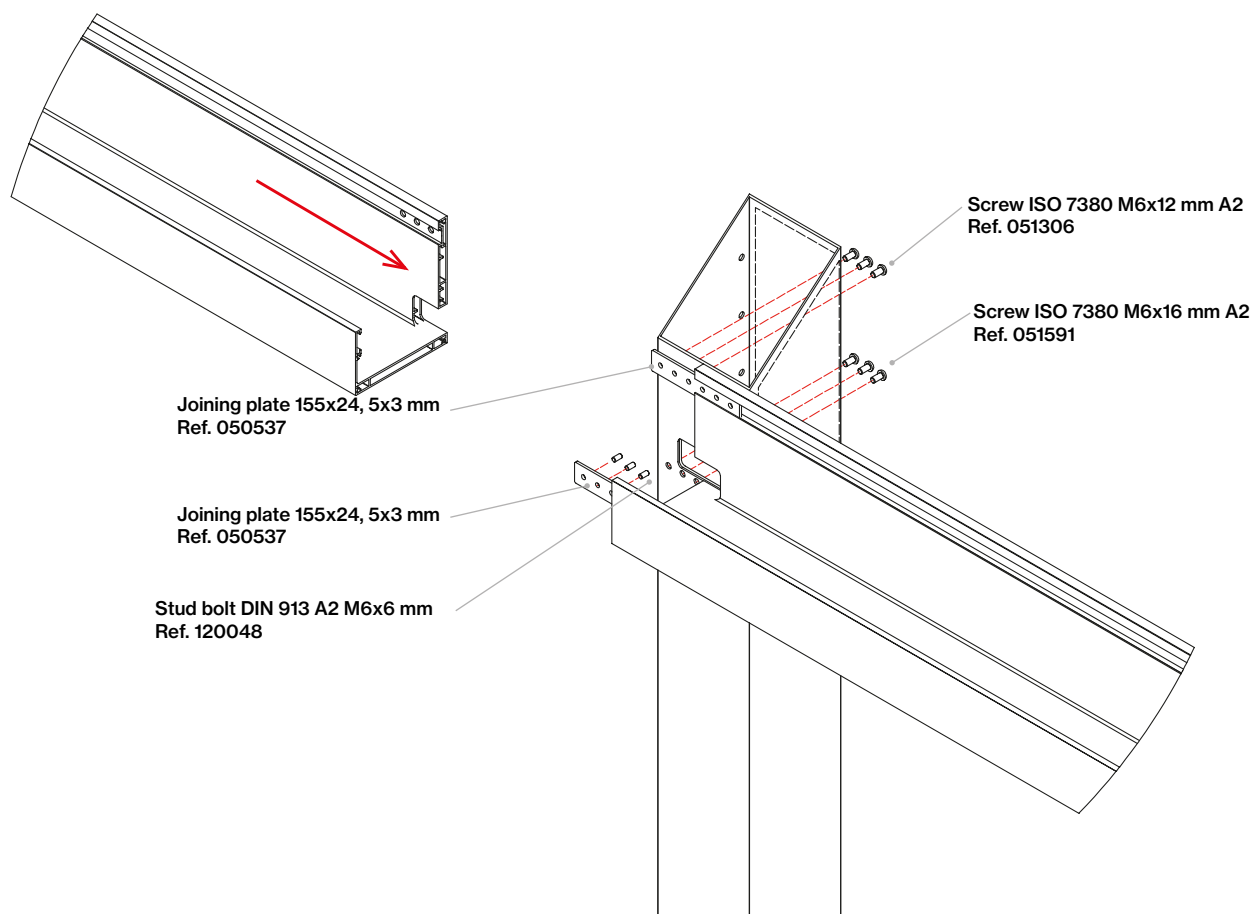




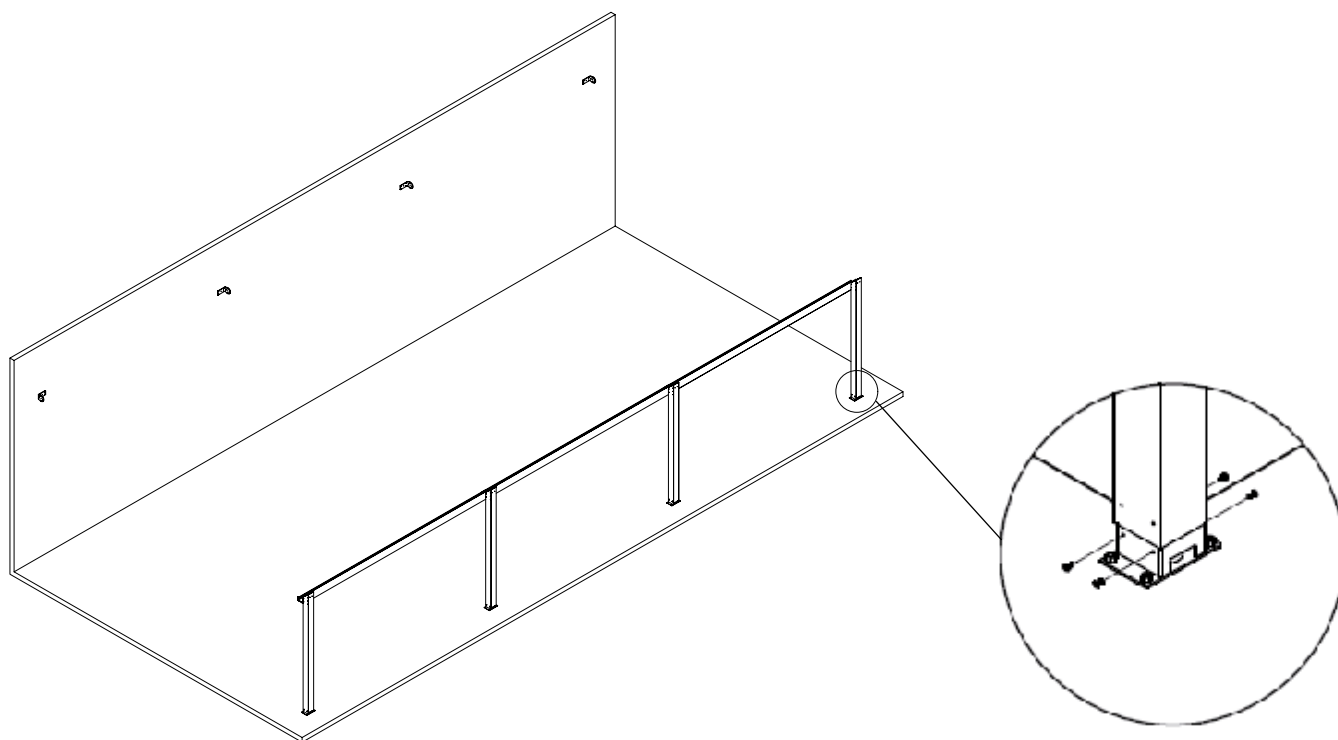
Install the **fixed collector gutter** connected to column **D** with the **fixed collector gutter** installed in column **C** by means of the joining plates.

### ! Important

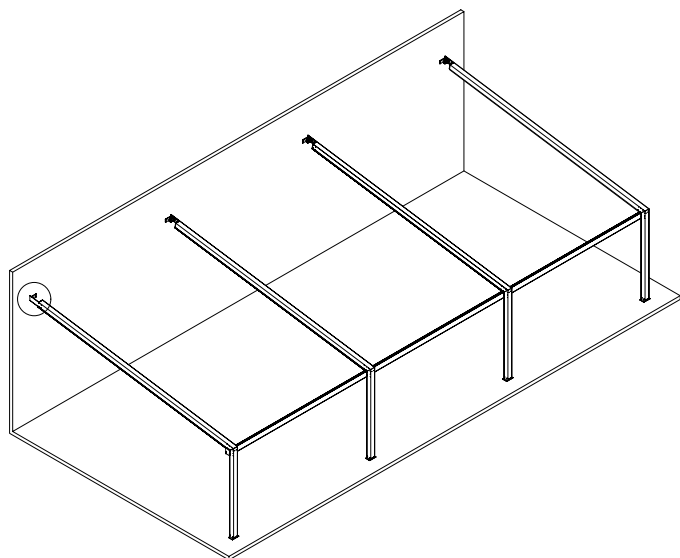
Apply sealant to the column and joints joining the two channels. **Finally tighten all the screws.**



Then **fix column D to the base** of the sill by means of ISO 7380 M6x16 A2 screws (code 005591).



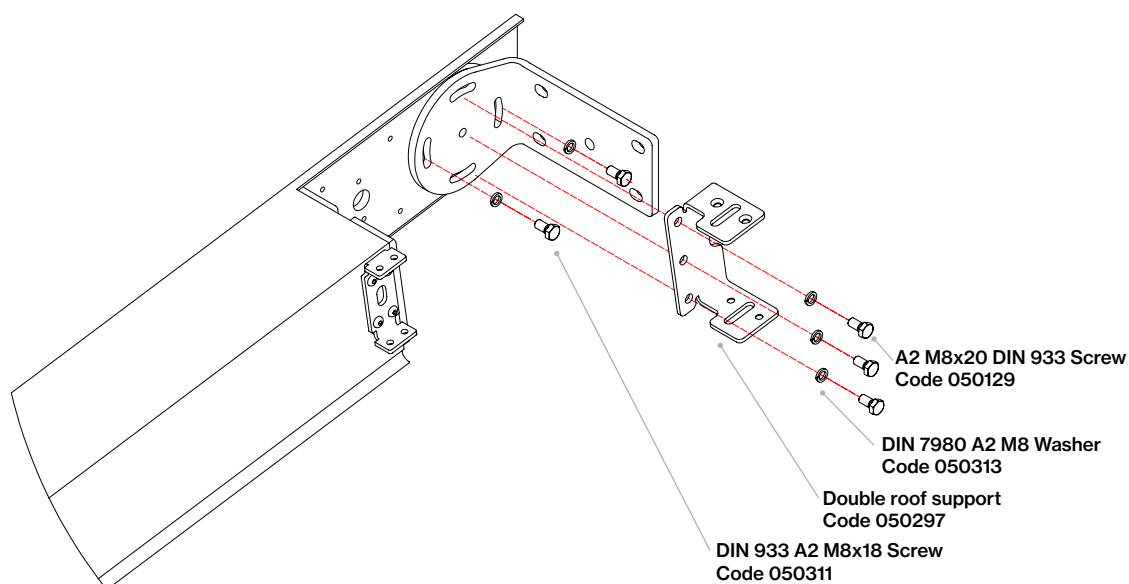
## 2.4 Assembly of lateral beams on the wall and on columns A, B, C y D

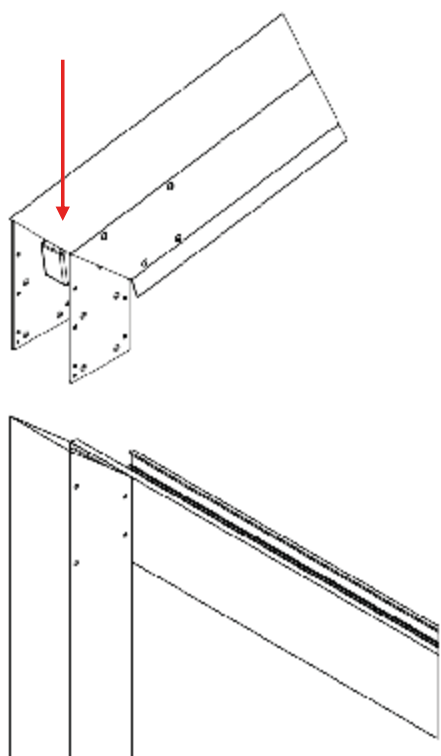


### ! Important

By default, the pergolas are manufactured with Mini Roof. If the product has a complete Roof, consult (Annex I) to install it.

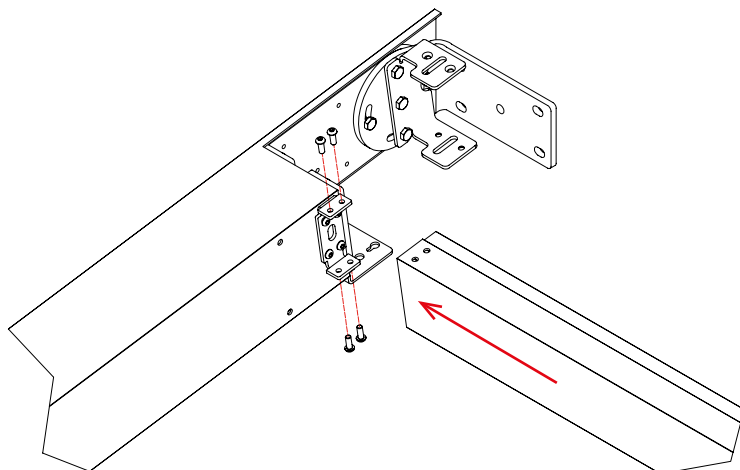
Attach the 125x1 25 mm **left lateral guide beam** (code 050274) to the adjustable **wall-ceiling support** (code 050299) along with the **double roof support** (code 050297).





Then insert the frontal 98.53° square (code 050290) into P-125x125 perforated **column A** (code 050266).

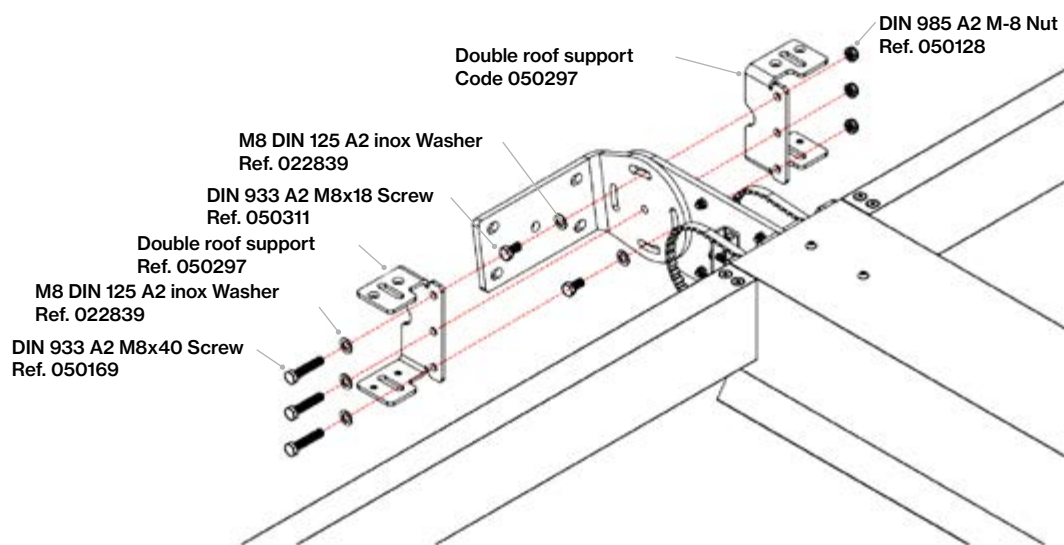
Then install the 100x40 tube (code 027395) into the suitable support on the beam.



Install the 125x125 mm **central double beam** (code 050274) onto the **Adjustable wall-ceiling support** (code 050299), and at the same time insert and fix the **100X40 load-bearing profile** (code 027395) onto the bracket provided for it on the beam.

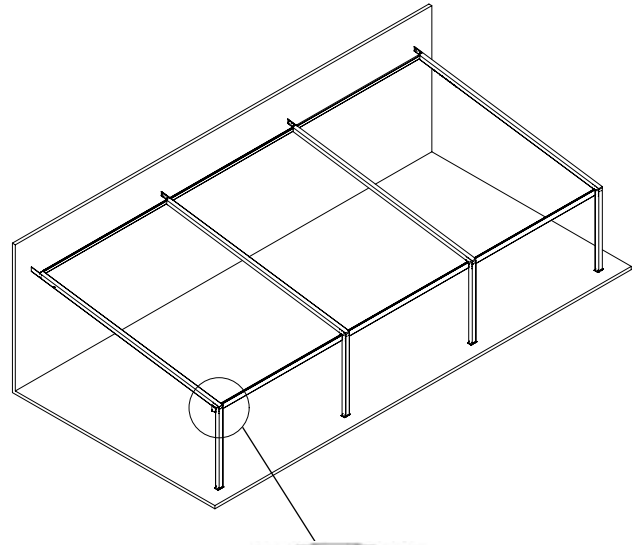
Next, insert the 98.53° front guide square (code 050290) into the P-125x125 mechanised **B Column** 160x125 code 050534).

Install the double roof supports (code 050297) and insert and fix the other **100x40 portable profile** (code 027395) (see drawing).



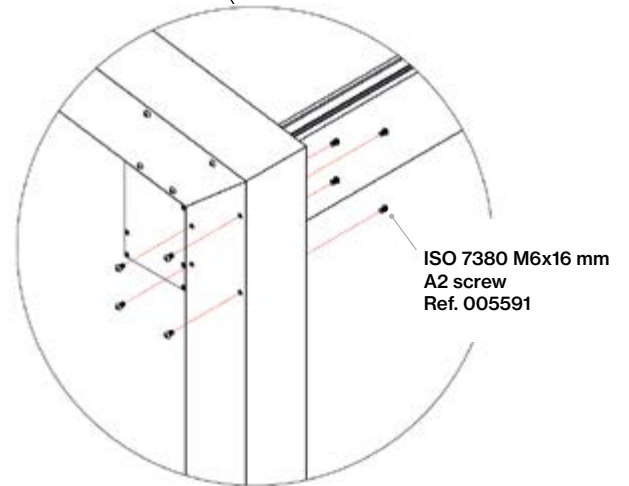
### ! Important

Follow the same sequence for the installation of the following 125x125 mm **central guide beam** (code 050534) (see drawing).



Finally install the 125x125 mm **right lateral guide beam** 125x125 (code 050274), onto the **adjustable wall-ceiling support** (code 050299), and at the same time insert and fix the **100x40 load-bearing profile** (code 027395) in the support enabled for it in the beam.

Next, insert the 98.53° **Front guide square** (code 050290) into the 125x125 mechanised **D column** ilike the **Left side guide beam**.

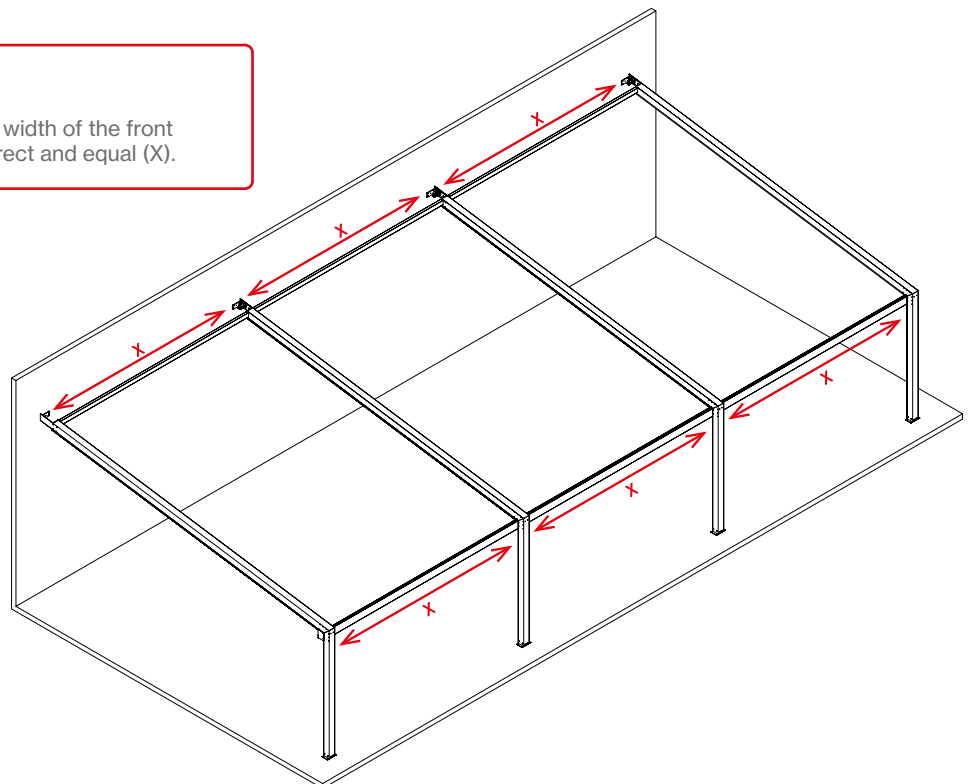


### ! Important

Once the 100x40 load-bearing profiles have been installed, carry out **final tightening** of the **adjustable wall-ceiling supports** and the **columns**.

### ! Important

Check that the measurements of the width of the front and rear parts of the pergola are correct and equal (X).

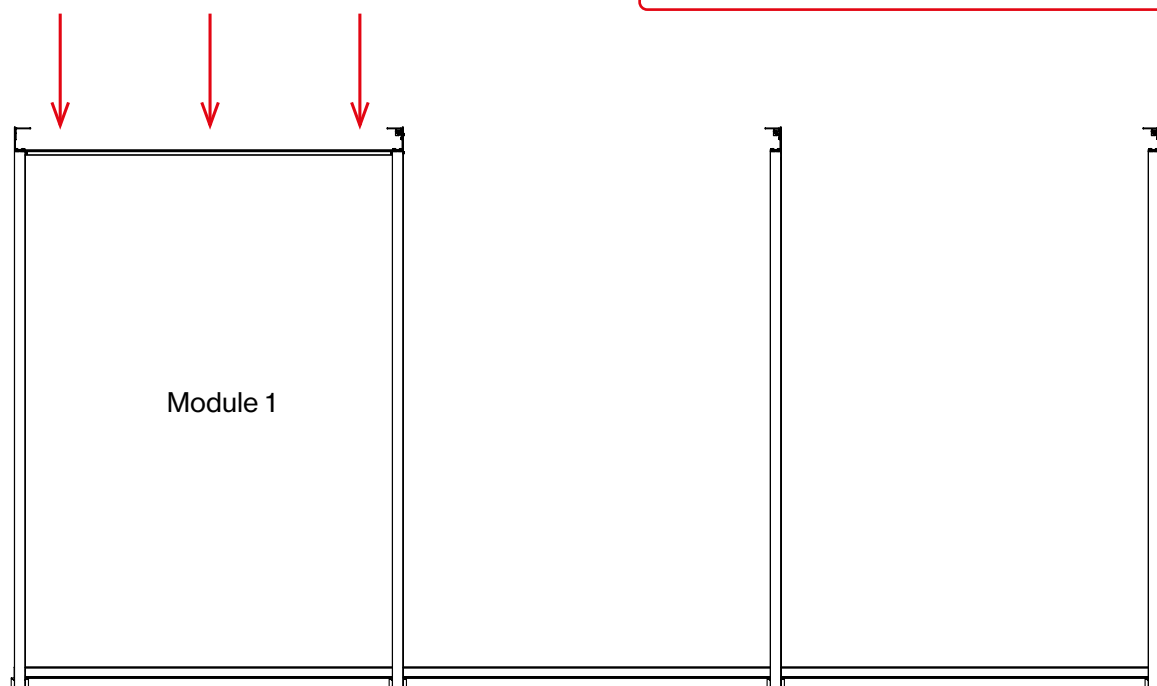


## 2.5 Assembly of the axle with the motor and flanges

Module 1 must first be installed.

### Important

Take care with the cap pivot when taking out the fastener, to avoid it inserting itself into the installation's cap.

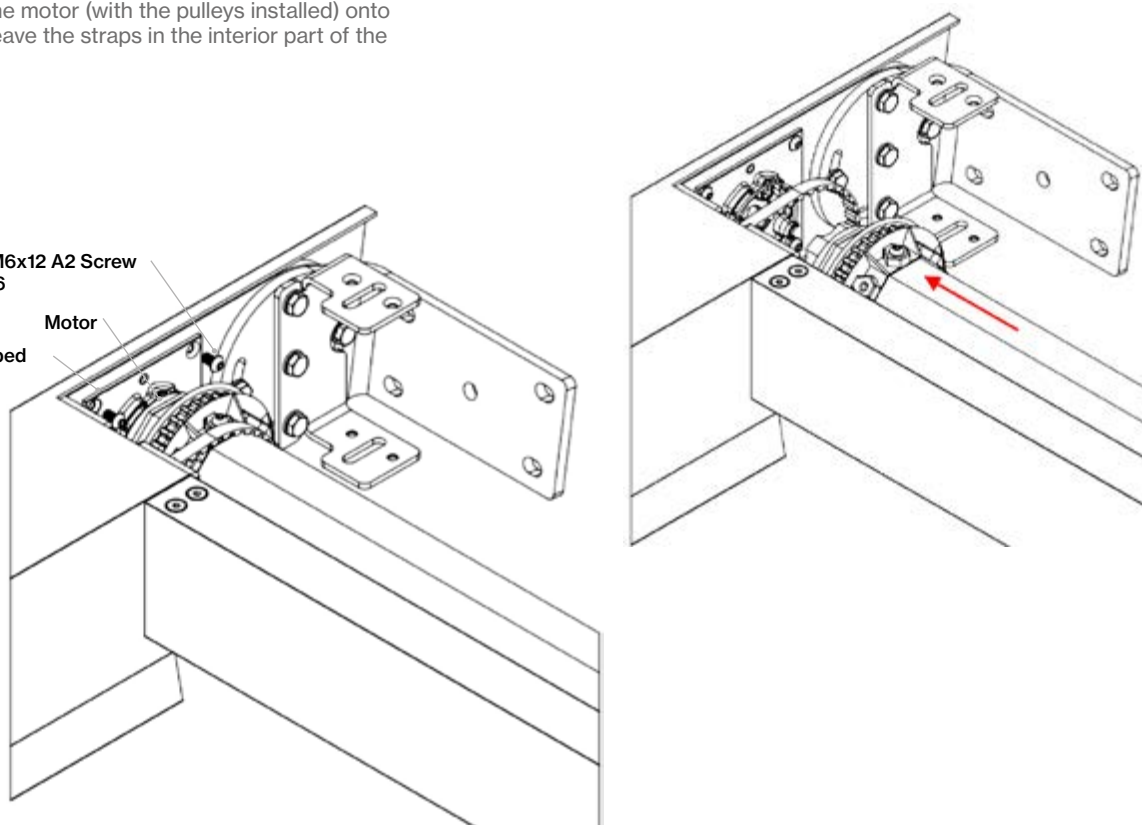


Install the axle with the motor (with the pulleys installed) onto the motor support. Leave the straps in the interior part of the pulleys.

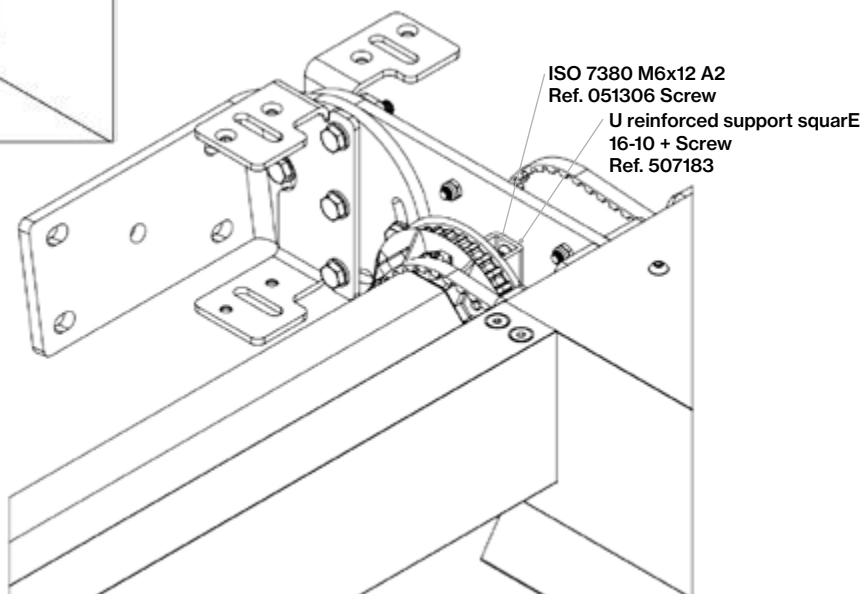
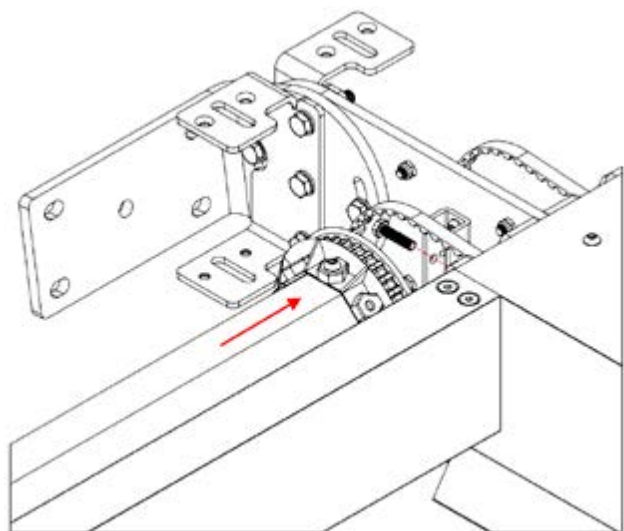
ISO 7380 M6x12 A2 Screw  
Ref. 051306

Motor

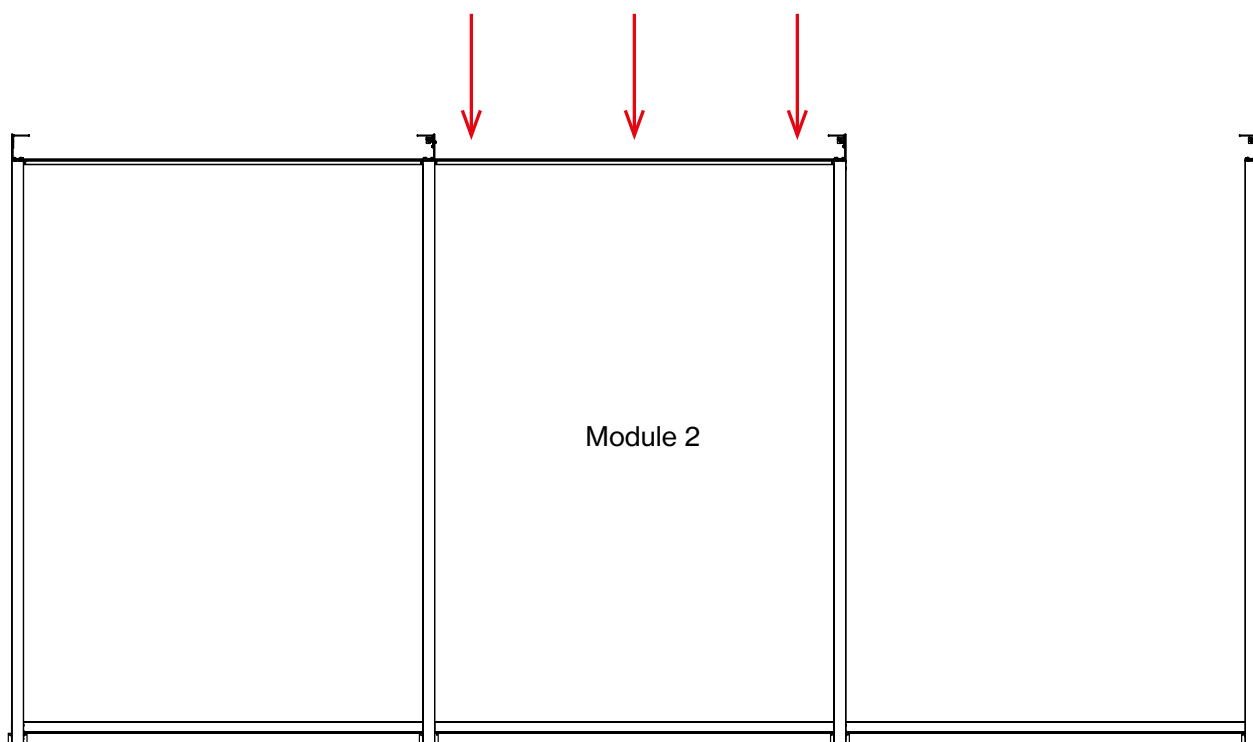
Support pletina dropped  
Ref. 502726



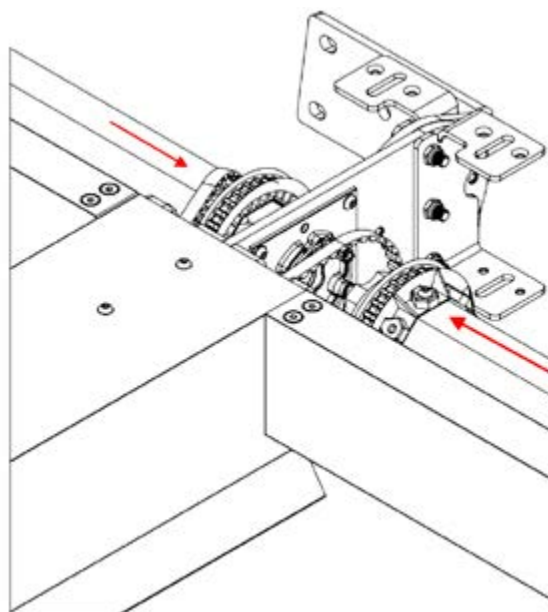
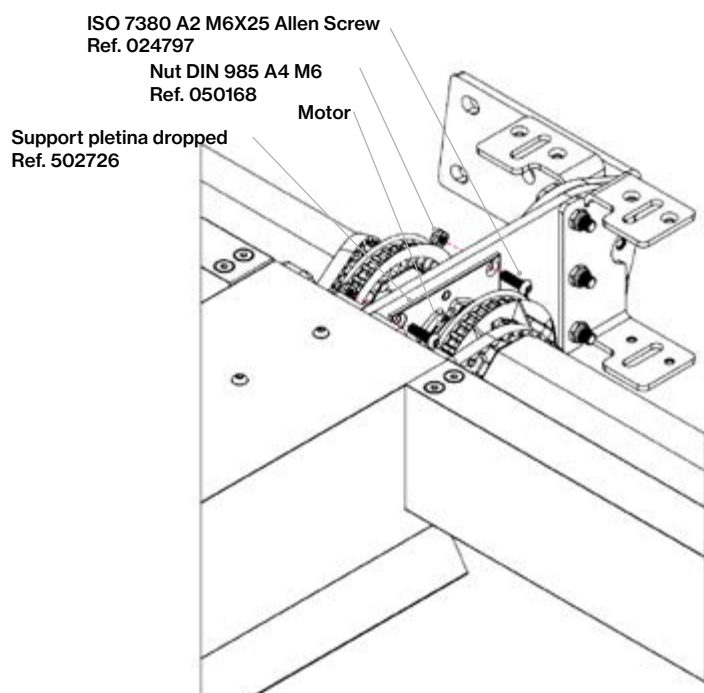
Attach the right end of the axle (with the pulleys installed) to the U-support using the end-cap pivot. Leave the belts on the inside of the pulleys.



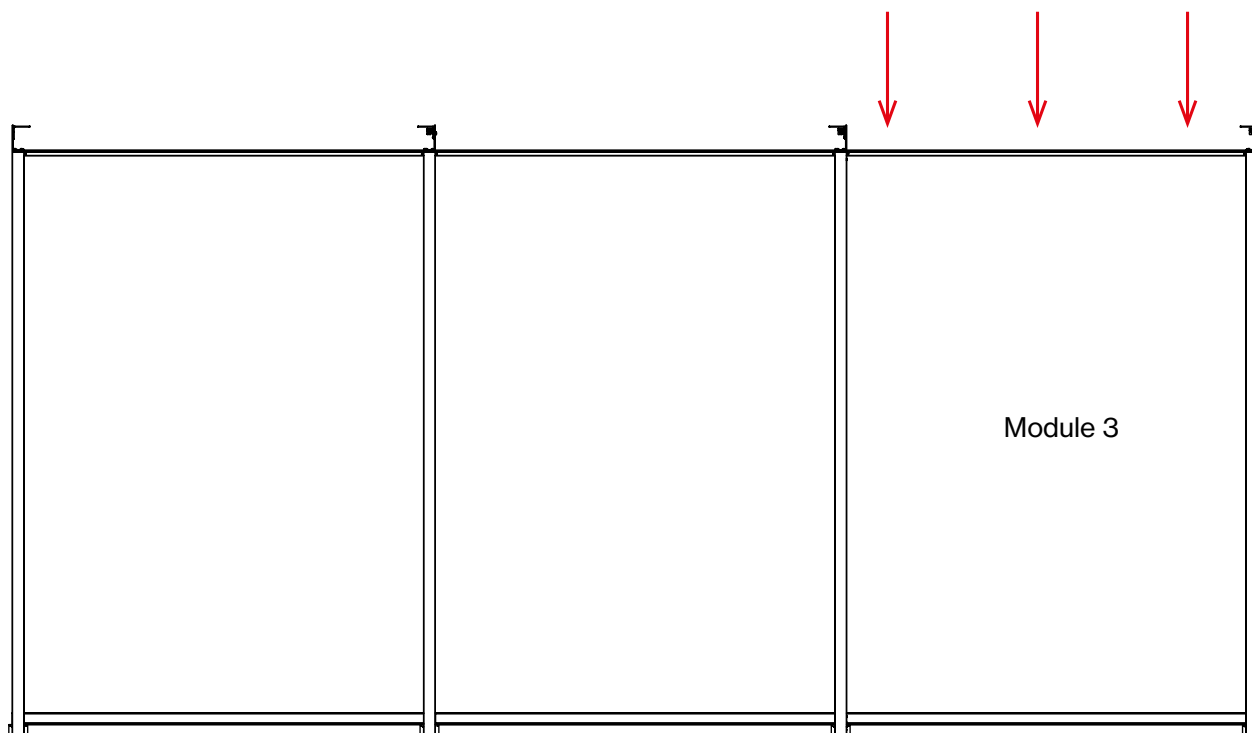
Module 2 must then be installed.



The same procedure is followed for the installation of the axle in module 2.

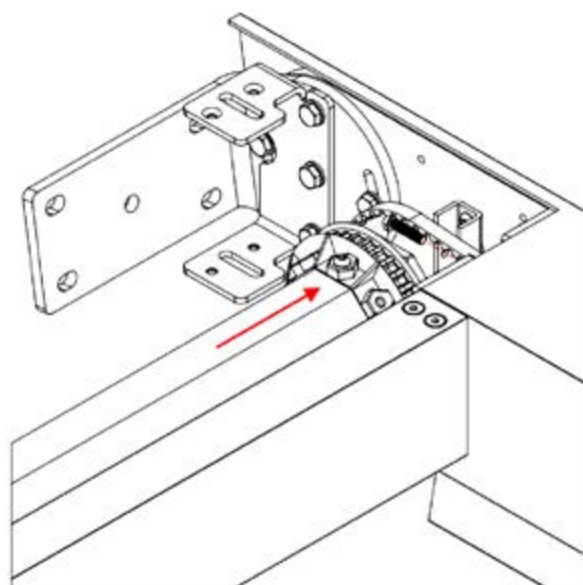
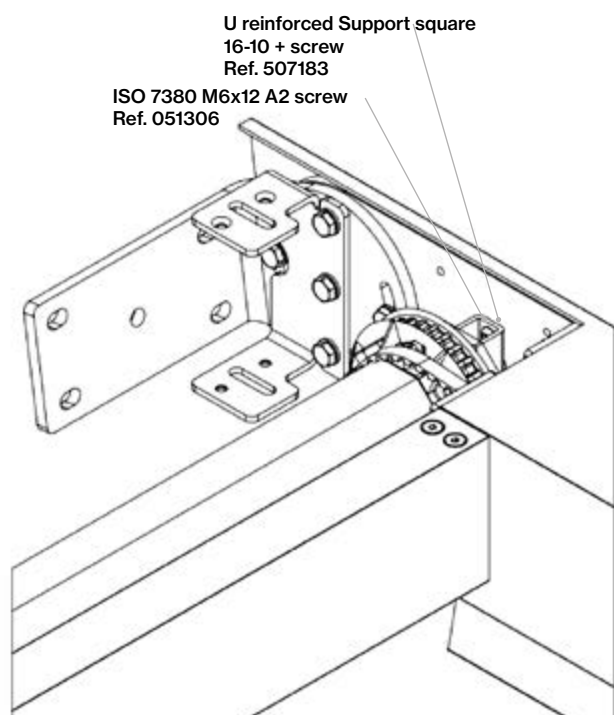
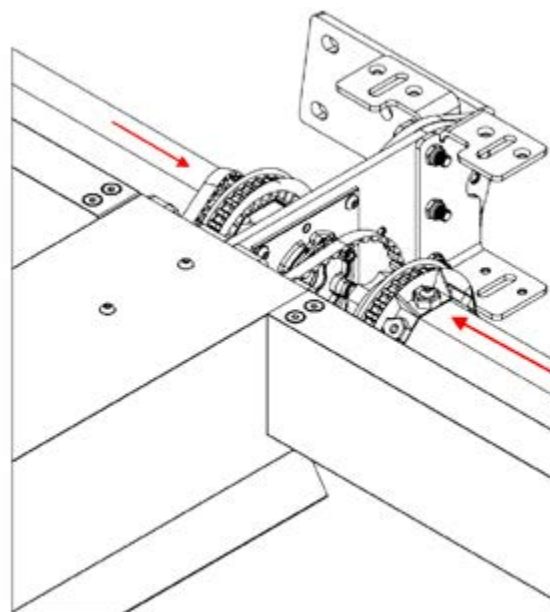
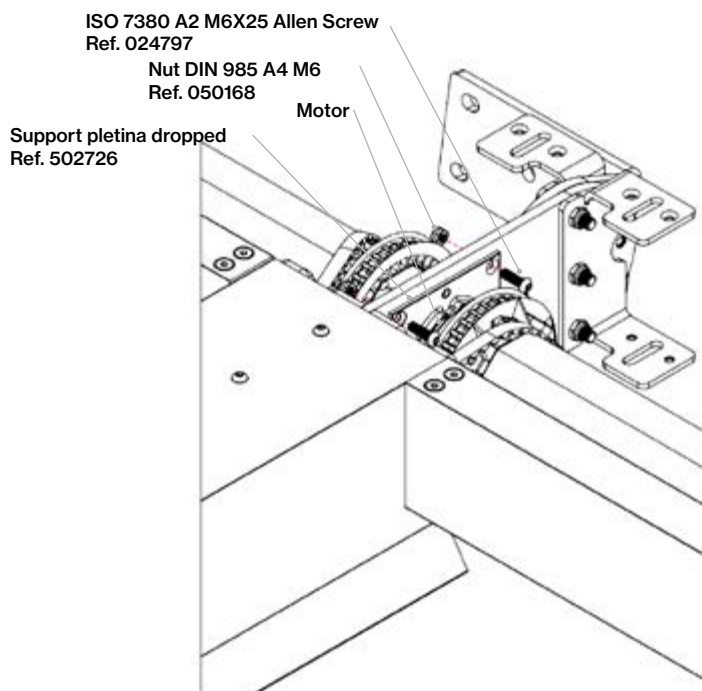


Finally, we will install module 3.





The same procedure is followed for the installation of the axle in module 3.



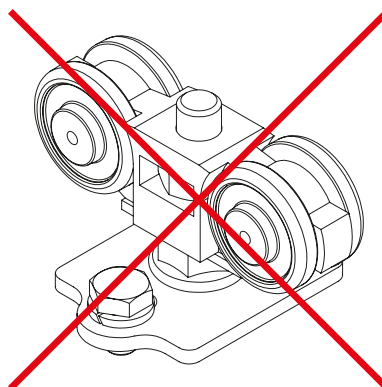
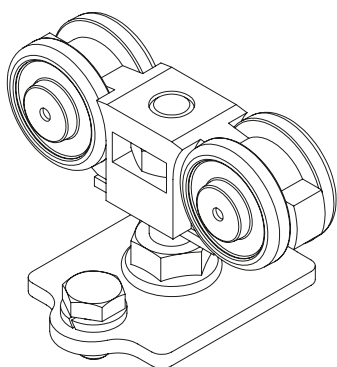
### ! Important

If the motors were positioned on the right side of each module, the same steps would be followed as for motors positioned on the left side.

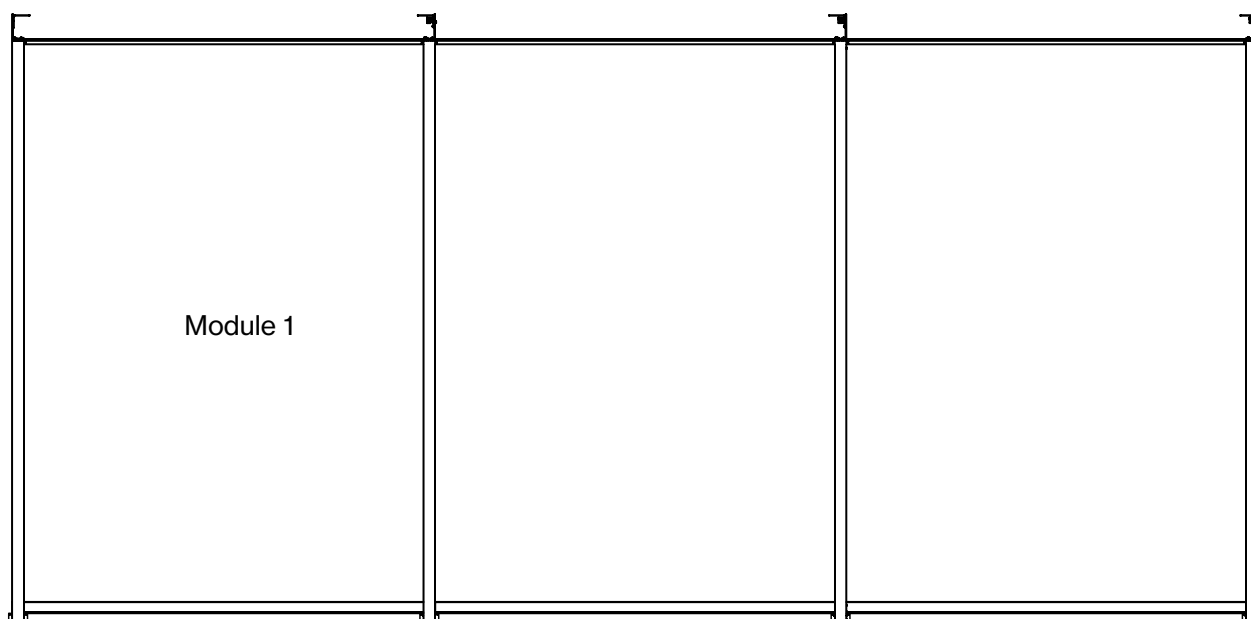
## 2.6 Assembly of the poles

### Important

Before inserting the ball bearings into the guides, check that they are correctly positioned, i.e. attached with the screw as shown in the image. The ball bearing screws will come pre-installed.

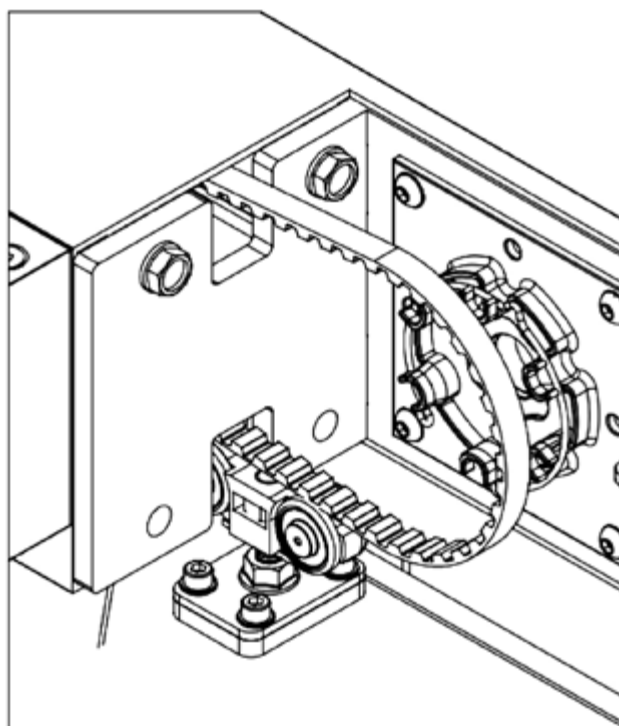
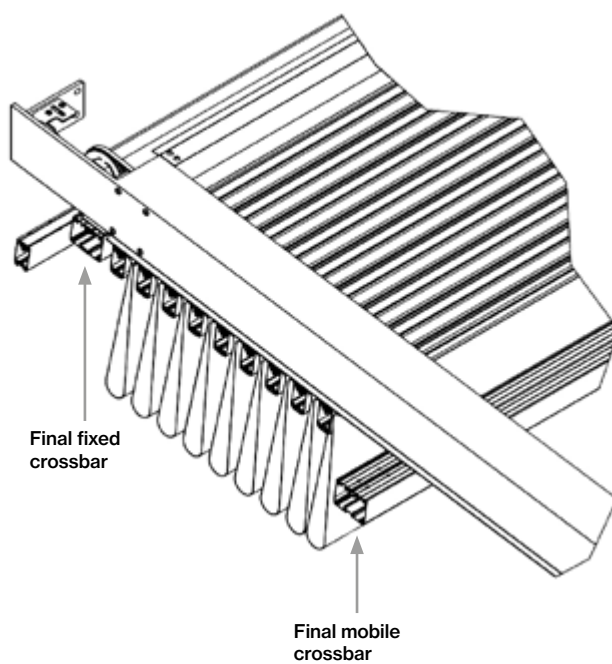


Module 1 must first be installed.

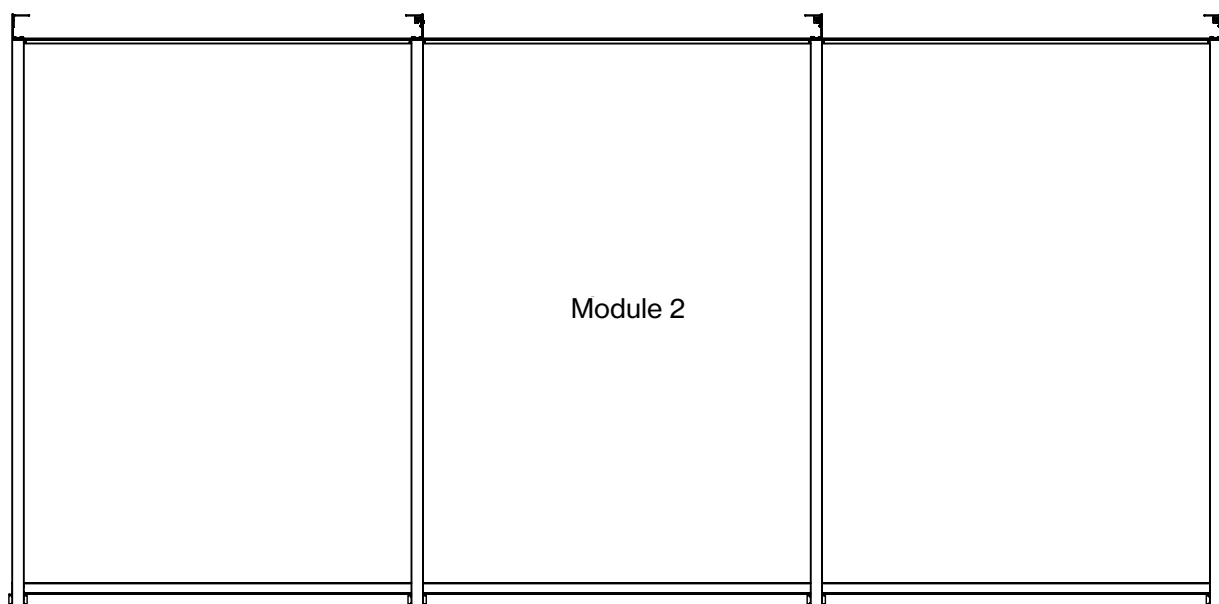


Turn the straps until the ball bearings are left in the central part.

Insert the simple crossbars, along with the simple ball bearings, into the guides leaving the final mobile crossbar free.

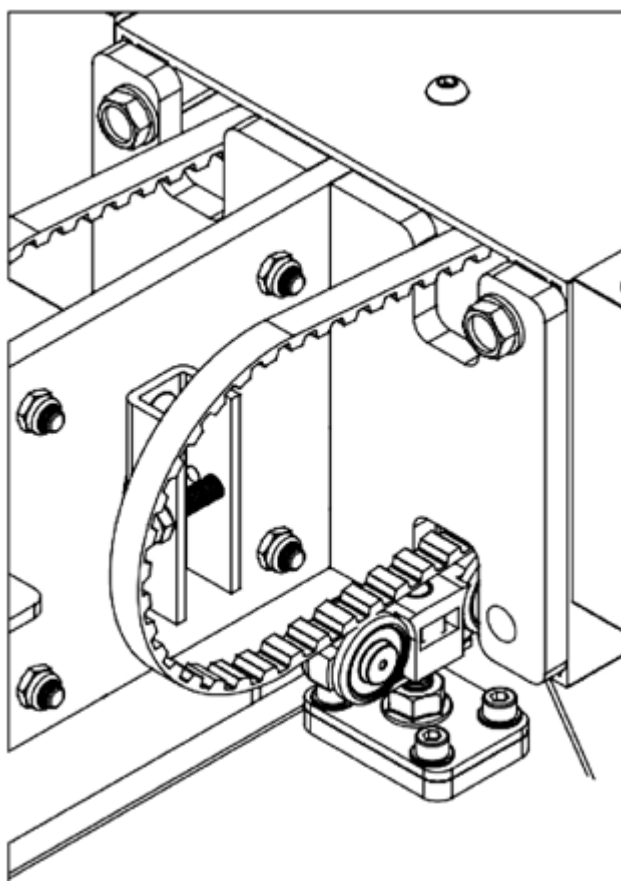


Module 2 must then be installed.

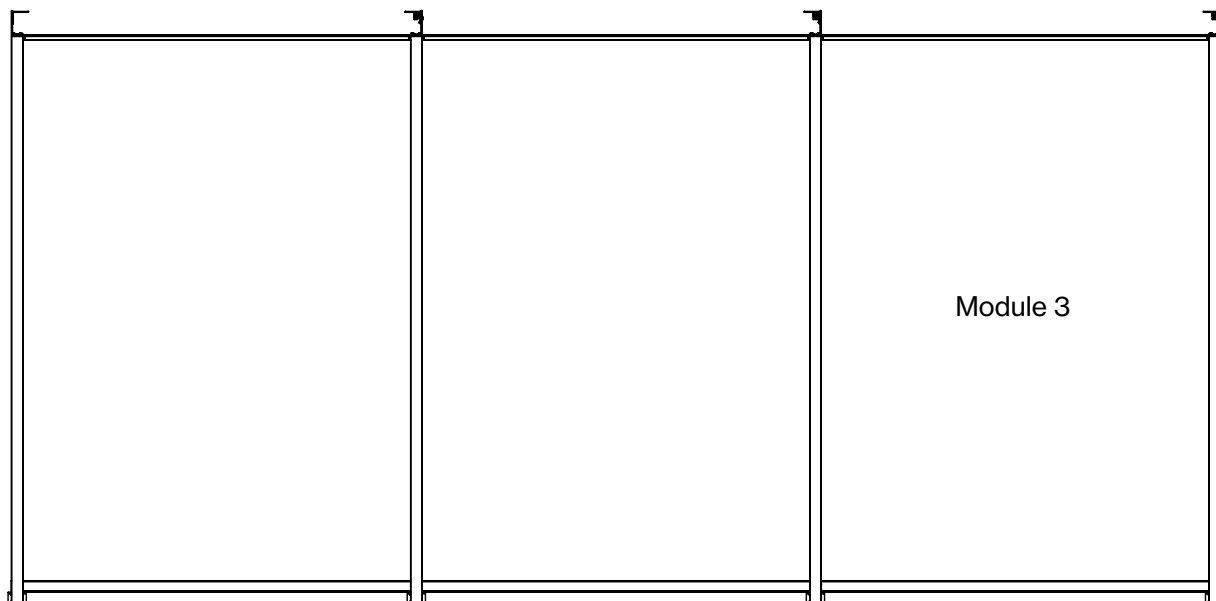


Turn the strap until the towing pulley is left in the central part.

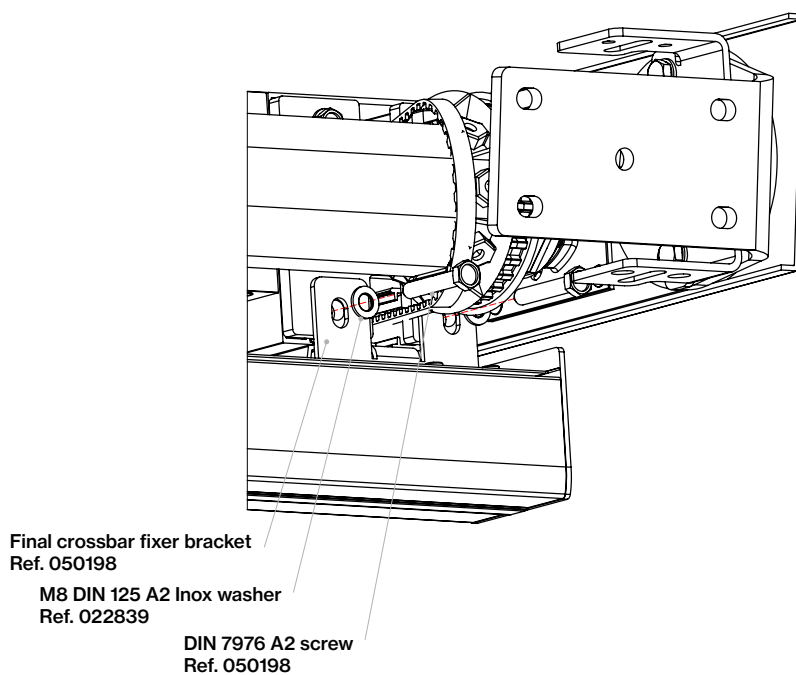
Insert the crosspieces in such a way that the simple pulleys are inserted in the **right** and **central** guide. Leave the mobile terminal crossbar loose, as in **module 1**.

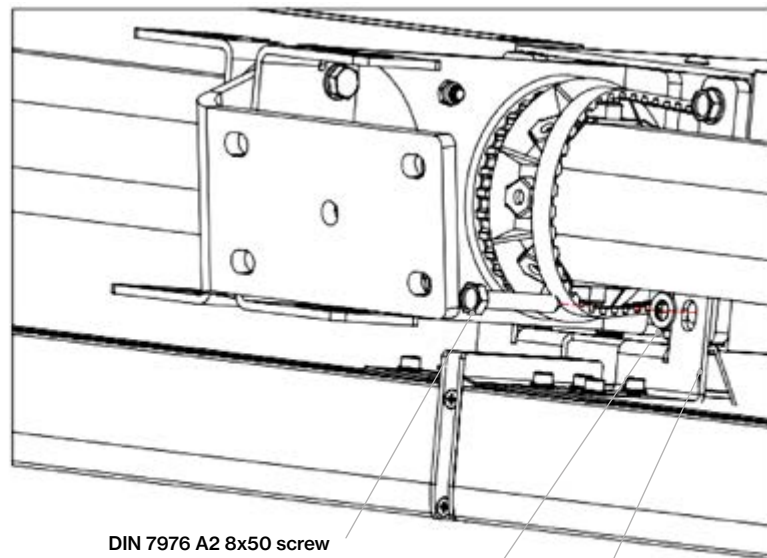


Finally, we install module 3. **Repeat the same steps as in the installation of module 2.**



Finally, fix the fixed end crosspieces to the end beams and to the central beam by means of the fixing support.



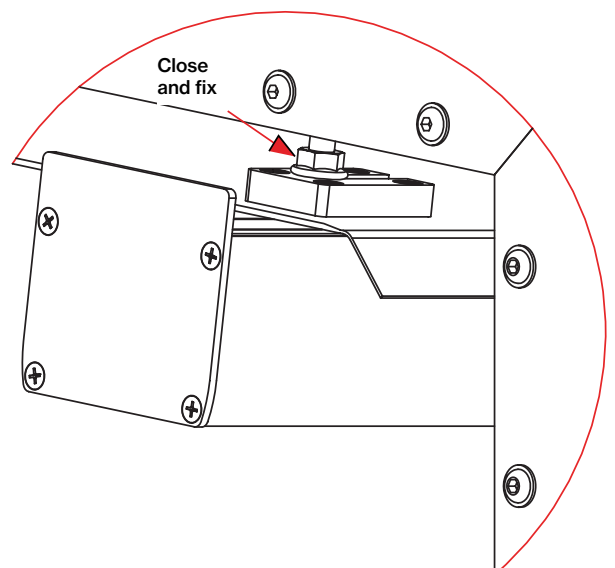
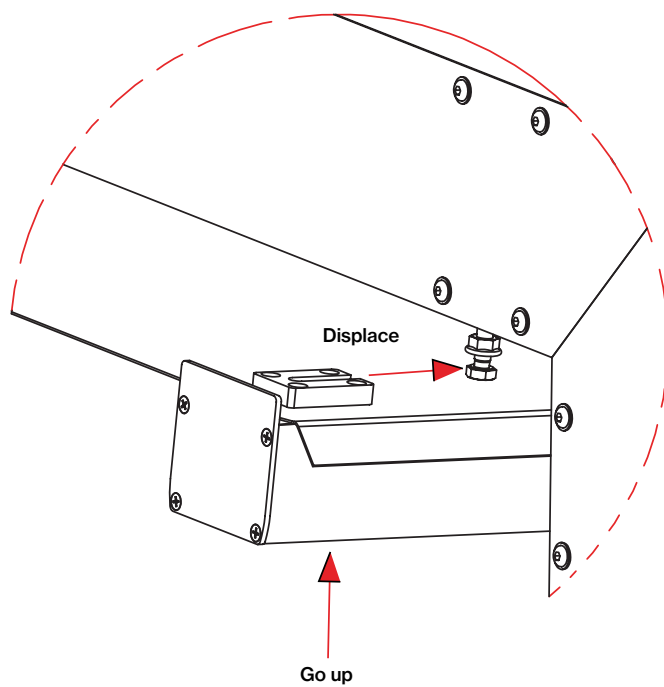


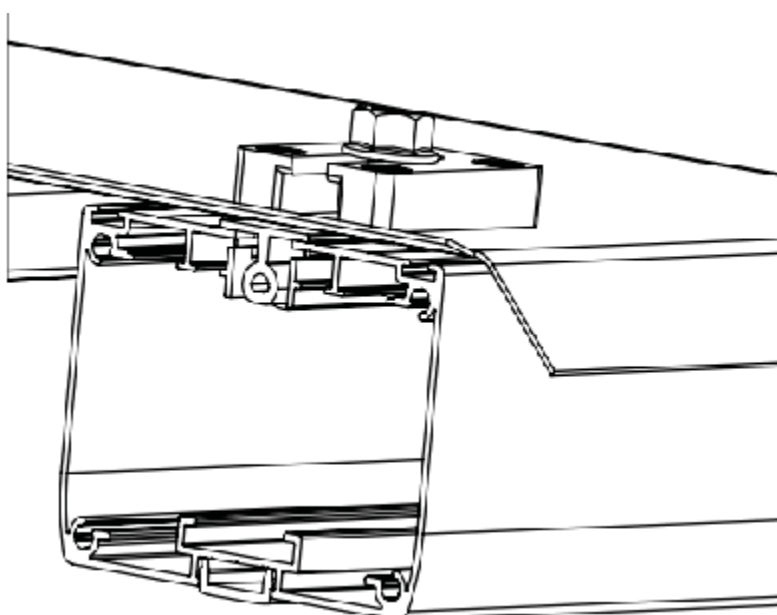
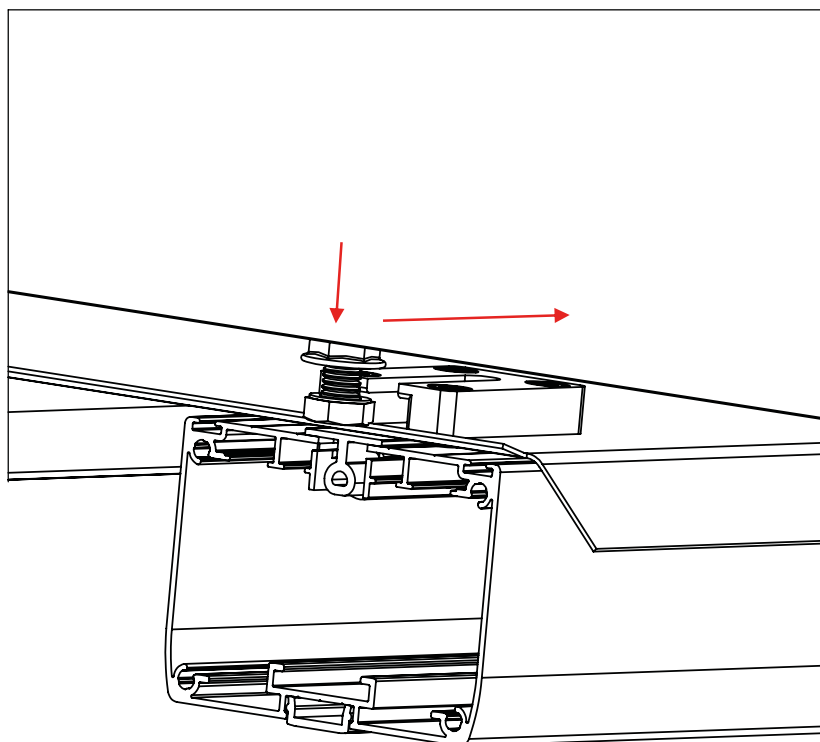
DIN 7976 A2 8x50 screw  
Ref. 050198

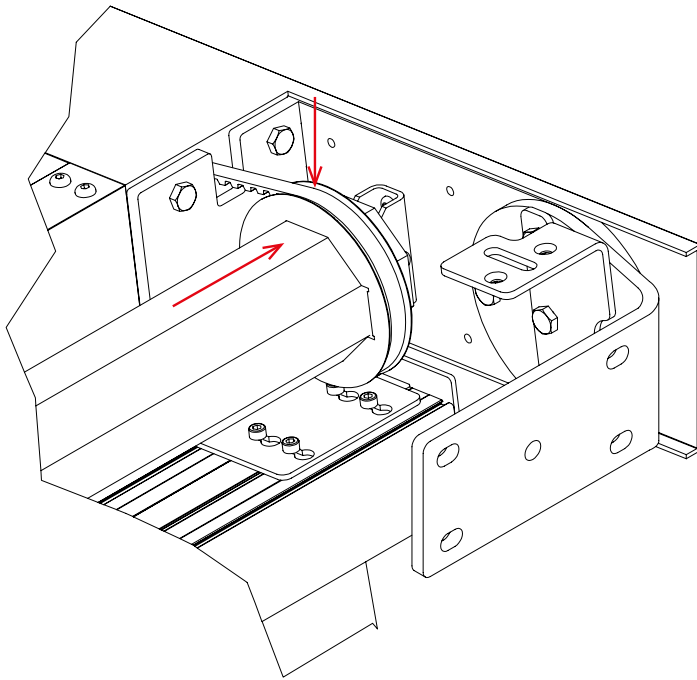
M8 DIN 125 A2 Inox washer  
Ref. 022839

crossbar bracket double beam  
Ref. 050539

Install the **final mobile crossbar** in the **mobile ball bearings**.





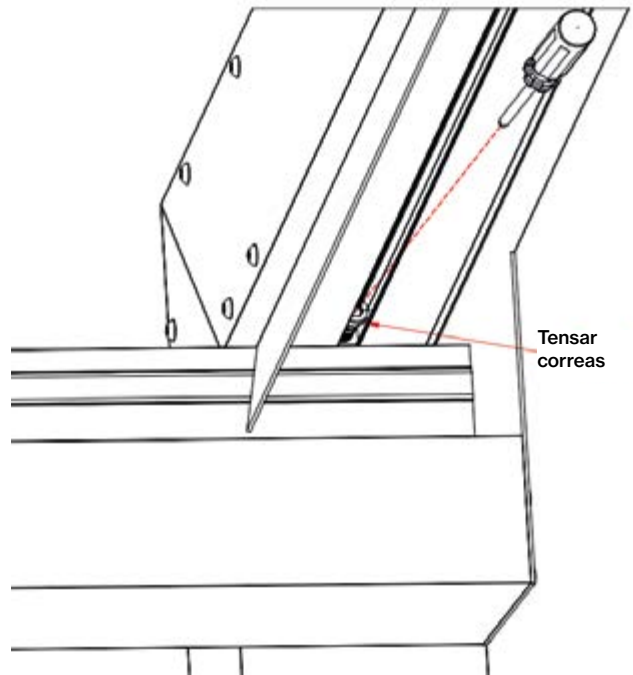


Insert the toothed straps into the flanges of the 70 mm axle, then check that the flanges are aligned and centred.

Tighten the straps using the interior screws in the mini flanges, using the slots in the columns to ensure correct function. Tighten the straps equally, counting the number of rotations of each screw.

### ⚠ Importante

The tightened straps must not extend out of the lower part of the guide, nor should they be tightened excessively. In the event of excessive noise (consult Annex IV).



## 2.7 Motor and LEDs electrical connection

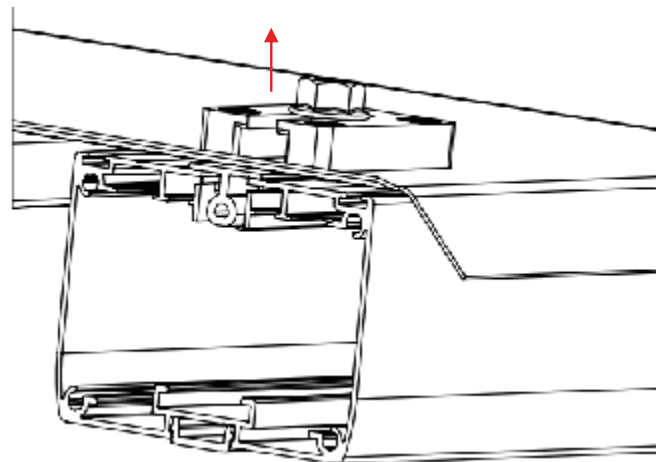
Attach the motor to an electrical current. Programme the motor limit switches (consult Annex II).

### ⚠ Importante

Raise and lower the canvas two to three times to check that the ball bearings are functioning correctly. The raising and lowering movement of the poles must be regular and smooth.

If they do not function correctly, release the ball bearings' bolts, raise and lower twice and then re-tighten (consult Annex IV).

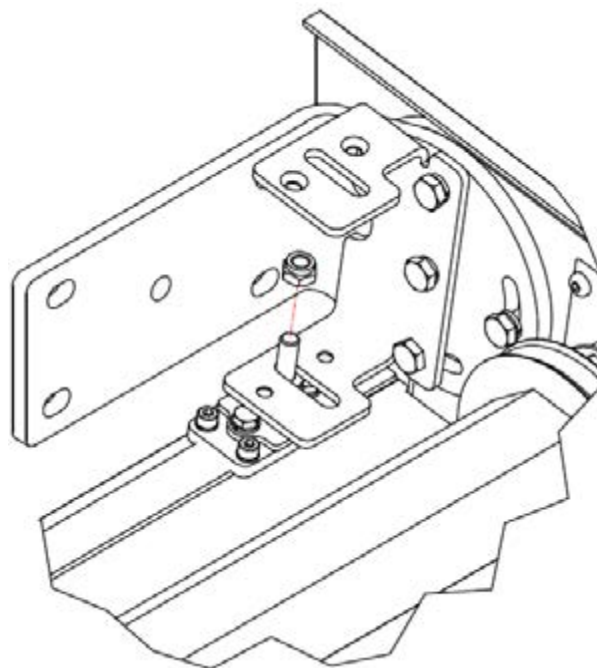
LEDs connection (consult Annex III).





## 2.8 Assembly of the final pole

Attach the final simple crossbar using the double roof support (code 050297).



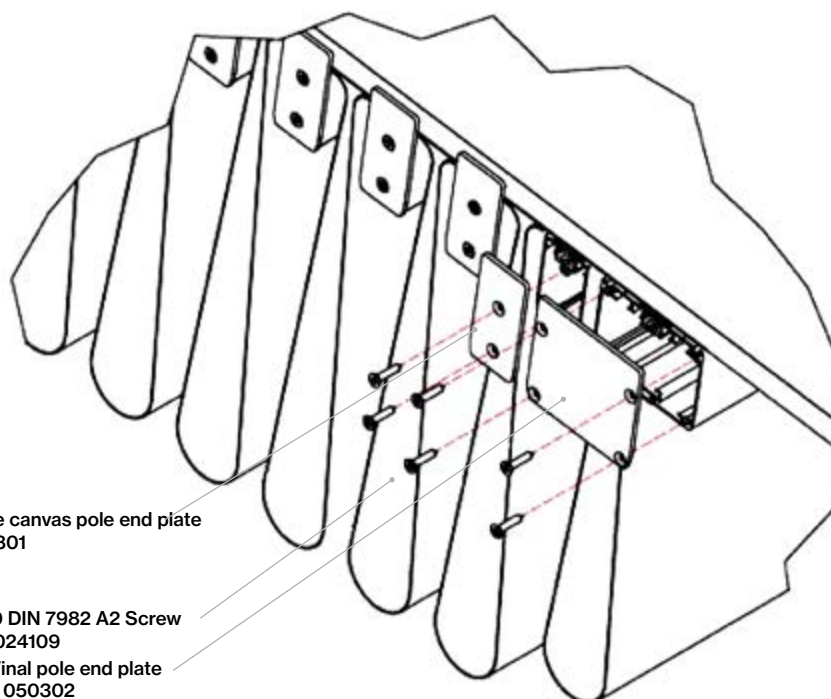
## 2.9 Assembly of the pole end plates

Attach the end plates to the simple and final crossbars.



### Important

If the product has LEDs, do not compress the cables with the profiles.



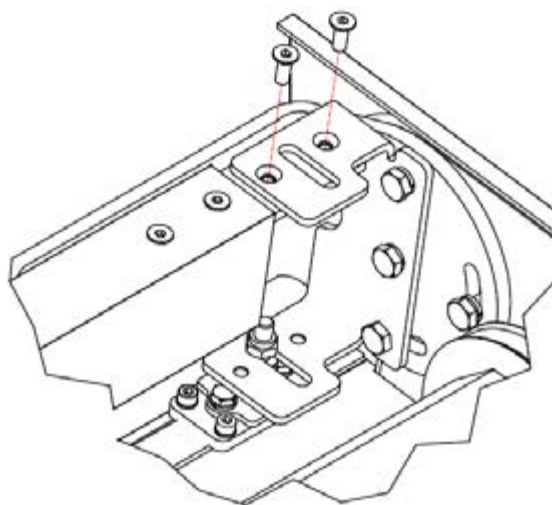
PLT Simple canvas pole end plate  
Code 050301

4,2x50 DIN 7982 A2 Screw  
Code 024109

PLT Final pole end plate  
Code 050302

### 2.10 Assembly of the 65x40 tube

Attach the 65x40 mm tube (code 051302) to the double roof support (code 050297).



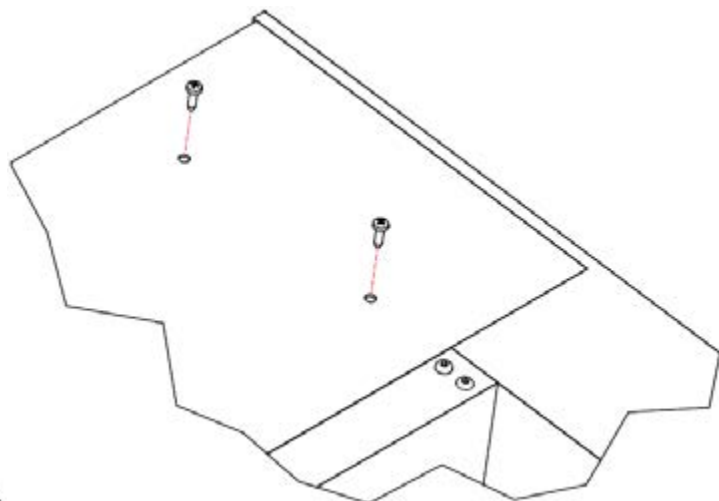
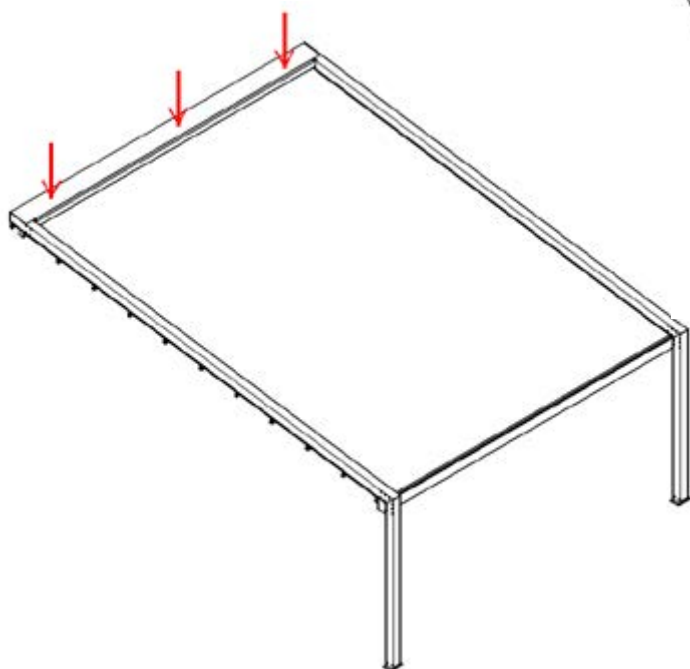
### 2.11 Assembly of the small roof



#### **Important**

If the product has a Roof consult (Annex I).

Apply a layer of sealant and attach the small roof (code 506094) using the DIN 7504 NH 4.8x16 mm A2 screws (code 51168).



Once the small roof is installed, apply sealant where it meets the wall to avoid water leaking into the motor and the electrical installation. Seal all the lateral edges of the small roof in the same way.

### 3. Maintenance

For best use and extended durability of your pergola, it is recommended to carry out regular maintenance and services at least once a year, or even more often depending on the wind fatigue at the installation site.

**To prevent rusting, periodic cleaning of gutters and profiles using neutral soap is recommended. This should be done at least once a year and more frequently for materials exposed to aggressive atmospheric conditions (marine, industrial, airborne dust, etc.) It is important to thoroughly rinse the products with water after using detergents to clean them, to avoid the build-up of salts on the profiles' surfaces.**

**The appropriate performance of this periodic maintenance removes exogenous agents from the material's surface that may attack their covering and aluminium components, prolonging the life span of the profiles and maintaining their appealing aesthetic.**

To clean the canvas, we recommend removing the dust that has accumulated without using water, to enable you to remove all the surface particles by vacuuming, air blowing, beating or brushing.

If you wish to remove finger or grease marks, use water with neutral soap. If they are water-based marks, clean them with at most a sponge and rub with a damp cloth. **Never use detergents or other chemical products.**

Finally, the user must bear in mind the need to review the tightness of the screws according to the tightening torques (standard metric thread) detailed in the following table.

#### HARDNESS CLASS 70 SCREWS

THREAD	µges.	TIGHTNESS TORQUE MA (Nm)
M5	0,2	5,7
M6	0,2	10
M8	0,2	24

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## Annex I

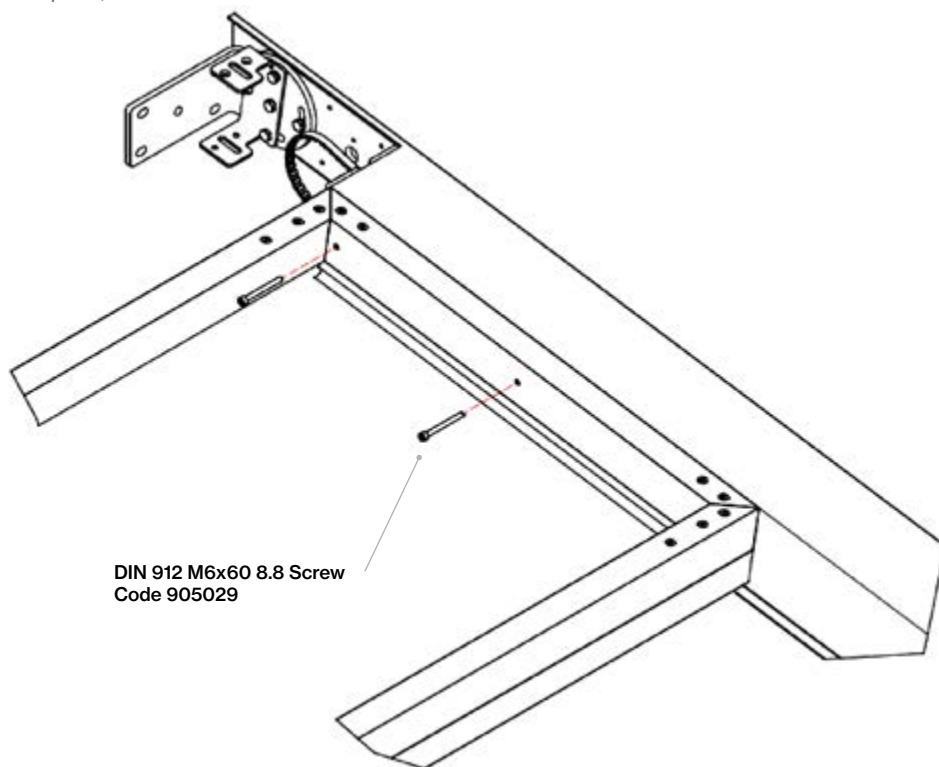
### Optional complete roof

#### Roof structure installation

Attach the 125x1 25 mm **right lateral guide beam** (code 050274) to the adjustable wall-ceiling support (code 050299) along with the double roof support (code 050297). Then insert the frontal 98.53° Square (code 050290) into p-125x1 25 perforated **column A** (code 050266).

Finally install the 125x1 25 mm **left lateral guide beam** (code 050274), inserting it into the 100x40 tube, attaching it to the wall and to **column B**, just as with the **right lateral guide beam**.

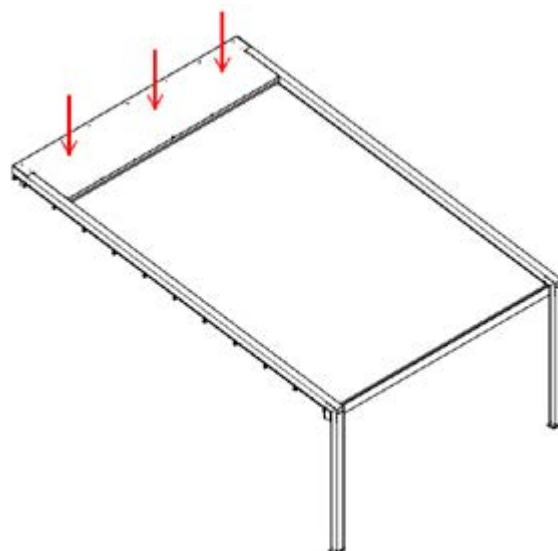
Install the roof structure between the two beams, bearing in mind which is the front part and which is the rear part, as well as which is the upper part and which is the interior part (marked in the factory).



#### Assembly of the roof

Apply a layer of sealant and attach the roof (code 50366) using the DIN 7504 NH 4.8x16 mm A2 screws (code 51168).

Once the roof is installed apply sealant where it meets the wall to avoid water leaking into the motor and the electrical installation. Seal all the lateral edges of the roof in the same way.



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## Annex II

### Motor configuration

#### 1. Introduction

#### 2. Safety

- 2.1 Safety and responsibility
- 2.2 Specific safety advice

#### 3. Installation

- 3.1 Motor preparation
- 3.2 Tube preparation
- 3.3 Motor/tube assembly
- 3.4 Installing the tube/motor assembly

#### 4. Wiring

#### 5. Commissioning

- 5.1 Identifying setting steps already completed
- 5.2 Pre-programming the Somfy io local control point
- 5.3 Checking the motor's direction of rotation
- 5.4 Setting the end limits
- 5.5 Programming the first Somfy io local control point
- 5.6 Checking the settings

#### 6. Operation

- 6.1 Standard operation
- 6.2 Operating with a Somfy io sensor
- 6.3 Feedback

#### 7. Additional settings

- 7.1 Favourite position ("My")
- 7.2 Adding/Deleting Somfy io control points and io sensors
- 7.3 Modifying end limits
- 7.4 Advanced functions

#### 8. Tips and recommendations

- 8.1 Questions about the Pergola io
- 8.2 Replacing a lost or broken Somfy io control point
- 8.3 Restoring the original configuration

#### 9. Technical data

### 1. Introducción

The Pergola io motor is designed to motorise all types of Pergola awning.

#### What is io-homecontrol®?

The Pergola io uses io-homecontrol®, the new universal and secure wireless communication protocol, shared by the major manufacturers in the world of home automation. io-homecontrol® enables all comfort and security equipment to intercommunicate and be actuated via a single control point.

The flexibility and perfect compatibility of the io-homecontrol® system provides support for you as your needs evolve. You can start by automating roller shutters and the front door, then equip the outside awnings, the gate and garage door or garden lighting with the io-homecontrol® system.

These scalable items of equipment are still compatible with the existing system, thanks to io-homecontrol® technology, which ensures their inter-operability.

For further information please visit the website [www.io-homecontrol.com](http://www.io-homecontrol.com).

## 2. Safety

### 2.1 Safety and responsibility

Before installing and using this product, please read this guide carefully.

This Somfy product must be installed by a professional motorisation and home automation installer, for whom this guide is intended.

Moreover, the installer must comply with current standards and legislation in the country in which the product is being installed, and inform his customers of the operating and maintenance conditions for the product.

Any use outside the area of application specified by Somfy is prohibited. This invalidates the warranty and discharges Somfy of all liability, as does any failure to comply with the instructions given herein.

Never begin installing without first checking the compatibility of this product with the associated equipment and accessories.

### 2.2 Specific safety advice

In addition to the safety instructions described in this guide, be sure to also observe the instructions set out in the attached document "Safety instructions to follow and keep".

**1 Switch off the mains supply for the awning before performing any service operation in the vicinity.**

**To avoid damaging the product:**

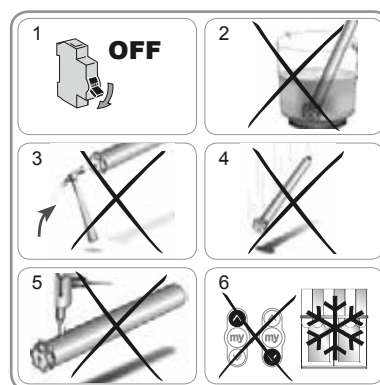
**2 Never immerse it in liquid!**

**3 Avoid impacts!**

**4 Do not drop it!**

**5 Never drill holes in it!**

**6 Avoid moving the awning if ice has formed on it**

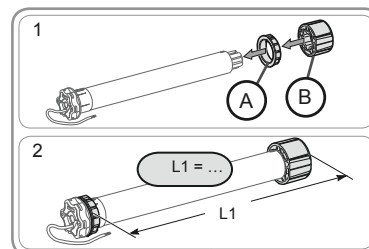


## 3. Installation

The Pergola io must be installed in a location sheltered from inclement weather.

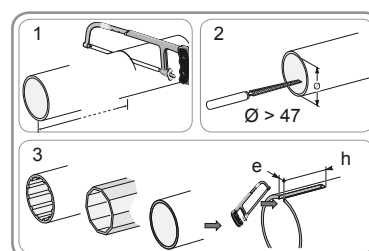
### 3.1 Motor preparation

1. Fit the crown (A) and the drive wheel (B) to the motor.
2. Measure the length (L1) between the interior edge of the motor head and the outer rim of the drive wheel.



### 3.2 Tube preparation

- 1 Cut the roller tube to the required length.
- 2 Deburr the roller tube and remove the swarf.
- 3 For smooth roller tubes, cut a notch with the following measurements:  
e = 4 mm  
h = 28 mm



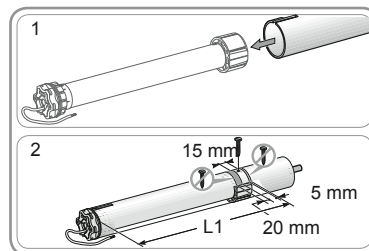
### 3.3 Motor/tube assembly

- 1 Slide the motor into the roller tube. For smooth roller tubes, position the notch previously cut on the crown.
- 2 For safety reasons, fix the roller tube to the drive wheel with 4 x Ø5 mm self-tapping screws or 4 x Ø4.8 mm steel rivets located:
  - At least 5 mm from the outer rim of the drive wheel: L1 - 5. and
  - No more than 15 mm from the outer rim of the drive wheel: L1 - 15.



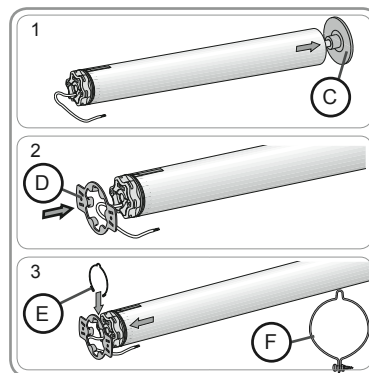
#### Important

The screws or Pop rivets must only be attached to the drive wheel and not to the motor.



### 3.4 Installing the tube/motor assembly

- 1 Fit the tube/motor top to the end bracket C.
- 2 Fit the tube/motor assembly to the motor bracket D.
- 3 Depending on the type of bracket, position the retaining ring E (for ≥ 85 Nm. motors with a retaining ring, it is essential to use the locking retaining ring F).



## 4. Wiring

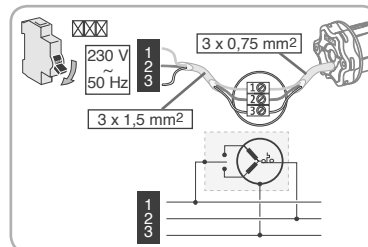
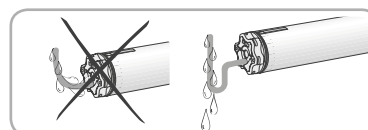


#### Important

Always make a loop in the power supply cable to prevent water entering the motor..

Cut off the mains power supply.  
Connect the motor according to the information in the following below:

	230 V ~ 50 Hz	Cable de motor
1	Brown	Phase <b>P</b>
2	Blue	Neutral <b>N</b>
3	Green-yellow	Earth ↓



## 5. Commissioning

The guide only describes the commissioning process with a Situo io type Somfy io local control point. For commissioning using any other io control point, refer the corresponding guide.

### Identifying setting steps already completed



#### Important

Only one motor should be powered at a time.

Switch on the power and follow procedure “a” or “b” according to the awning reaction:

#### a. The awning moves briefly

The end limits are set and no Somfy io control point has been programmed. Go to the section “Programming the first Somfy io local control point”.  
or

#### b. The awning does not move

Press the Up or Down button, and follow procedure “c” or “d” according to the awning’s reaction:

#### c. The awning still does not move

The end limits are not set and no Somfy io control point has been programmed. Go to the section “Pre-programming the Somfy io local control point”.

#### d. The awning is fully raised or lowered

The end limits are set and the Somfy io control point has been pre-programmed into the motor.

### 5.2 Pre-programming the Somfy io local control point

Press the Up and Down buttons simultaneously: the awning will move briefly; the Somfy io local control point has been pre-programmed into the motor.

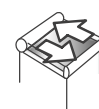
### 5.3 Checking the motor’s direction of rotation

1 Press the Up button:

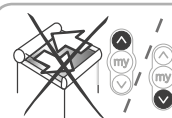
a If the awning is raised, the direction of rotation is correct: go to the section “Setting the end limits”.

b If the awning is lowered, the direction of rotation is incorrect: press the “my” button until the awning moves briefly; the direction of rotation has been modified.

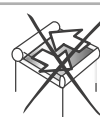
2 Press the Up button to check the direction of rotation.



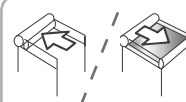
Programming the  
1st Somfy io local  
control point.



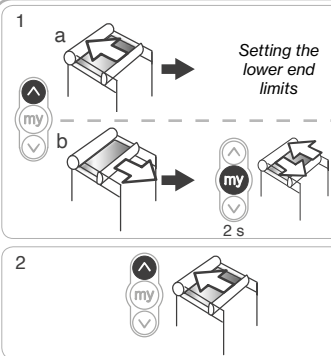
c o d



Pre-programming  
the Somfy io local  
control point.



Operation





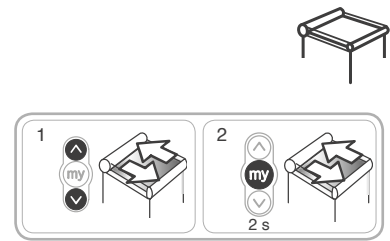
## 5.4 Setting the end limits

The end limit setting depends on the type of awning.

### 5.4.1 Automatically setting the end limits for tensioned Pergola awnings

The upper and lower end limits are set automatically.

- 1 Press the Up and Down buttons simultaneously: the awning moves briefly..
- 2 Press the "my" button until the awning moves briefly: the end limits have been programmed, go to the section "Programming the first Somfy io local control point".



### 5.4.2 Semi-automatically setting the end limits for tensioned Pergola awnings

The lower end limit is set automatically, while the upper end limit must be set manually.

#### ! Important

It is always possible to define a new upper end limit before programming it.

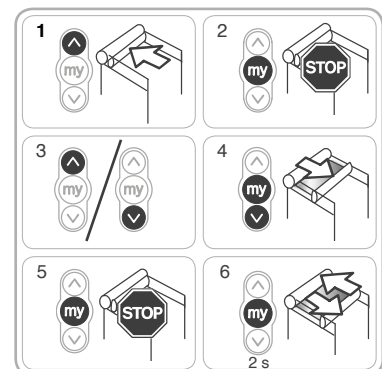
#### Setting the upper end limit

- 1 Position the awning at the upper end limit.

#### ! Important

Press and hold the Up button for < 2 seconds to raise the awning in one continuous movement.

- 2 Stop the awning at the desired point.
- 3 If necessary, adjust the position of the awning using the Up or Down buttons.
- 4 Press the "my" and Down buttons simultaneously: the awning will be lowered in one continuous movement, even after the "my" and Down buttons have been released.
- 5 At mid-height, briefly press the "my" button to stop the awning.
- 6 Press the "my" button again until the awning moves briefly: the end limits have been programmed, go to the section "Programming the first Somfy io local control point".



### 5.4.3 Manually setting the end limits for untensioned Pergola awnings

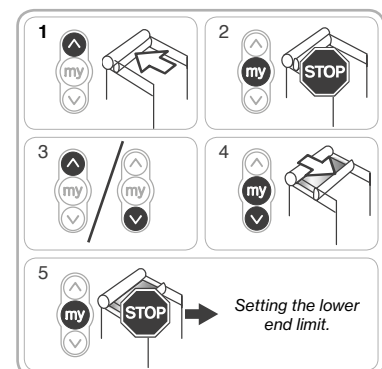
The upper and lower end limits must be set for untensioned Pergola awnings.

#### ! Important

It is always possible to define new upper or lower end limits before programming them.

#### Setting the upper end limit

- 1 Position the awning at the upper end limit..
- 2 Stop the awning at the desired point..
- 3 If necessary, adjust the position of the awning using the Up or Down buttons.
- 4 Press the "my" and Down buttons simultaneously: the awning will be lowered in one continuous movement, even after the "my" and Down buttons have been released.
- 5 At mid-height, briefly press the "my" button to stop the awning, and go to the section "Setting the lower end limit".



### Setting the lower end limit

1 Put the awning in the lower end limit position.

#### Important

**Press and hold the Down button for < 2 seconds to lower the awning in one continuous movement.**

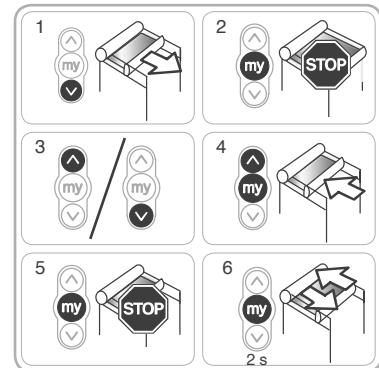
2 Stop the awning at the desired point.

3 If necessary, adjust the position of the awning using the Up or Down buttons.

4 Press the “my” and Up buttons simultaneously: the awning will be raised in one continuous movement, even after the “my” and Up buttons have been released.

5 At mid-height, briefly press the “my” button to stop the awning.

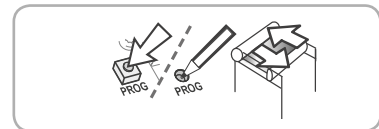
6 Press the “my” button again until the awning moves briefly: the end limits have been programmed. Goto the section “Programming the first Somfy io local control point”.



## 5.5 Programming the first Somfy io local control point

### 5.5.1 Using a programmed Somfy io local control point.

Briefly press the PROG button on this control point G: the awning will make a brief movement; the control point has been programmed.



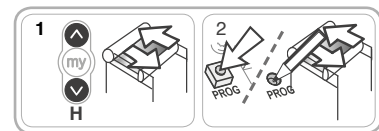
### 5.5.2 After a power cut

#### Important

**When the power is switched on, the awning makes a brief movement.**

1 Press the Up and Down buttons simultaneously on the new control point H until the awning moves briefly.

2 Briefly press the PROG button on this control point H: the awning will move briefly; the control point has been programmed.



## 5.6 Checking the settings

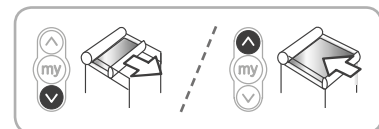
Check the settings of the upper and lower end limits using the Somfy io local control point.

## 6. Operation

### 6.1 Standard operation

#### 6.6.1 Up and Down buttons

Briefly press the Up or Down button to raise or lower the awning fully.



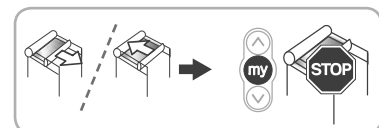
#### Important

**For tensioned Pergola awnings, obstacle detection is active throughout lowering or raising.**

#### 6.6.2 STOP function

The awning is moving.

- Briefly press the “my” button: the awning will stop.



### 6.1.3 Favourite position “my”

#### Definition

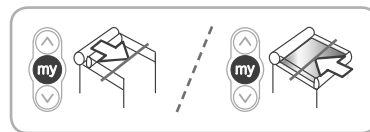
Besides the upper and lower positions, an intermediate position known as the (favourite position “my”) may be programmed in the motor.

#### **Importante**

**To program, modify or delete the favourite position “my”, see the section “Additional Settings”.**

To use the favourite position “my”:

- Briefly press the “my” button: the awning will start to move, and stop in the favourite position “my”.



### 6.2 Operating with a Somfy io sensor

Refer to the corresponding guide.

### 6.3 Feedback

After each order, the Pergola io sends a message. This information is processed by the io Two-way control points..

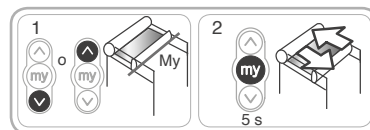
## 7. Additional settings

### 7.1 Favourite position “my”

#### 7.1.1 Programming or modifying the favourite position “my”

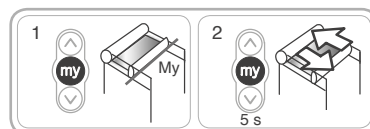
The procedure to follow for programming or modifying the favourite position “my” is identical.

- 1 Put the awning in the desired favourite position “my”.
- 2 Press the “my” button until the awning moves briefly: the favourite position “my” has been programmed.



#### 7.1.2 Deleting the favourite position “my”

- 1 Press the “my” button: the awning will start to move, and stop in the favourite position “my”.
- 2 Press the “my” button again until the awning moves briefly: the favourite position “my” has been deleted.



### 7.2 Adding/deleting Somfy io control points and io sensors

Refer to the corresponding guide.

### 7.3 Modifying end limits

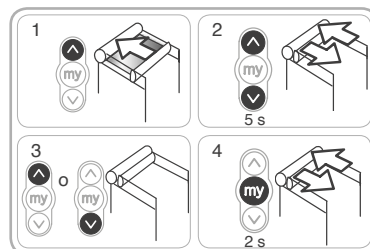
Modification of end limits depends on the type of awning.

#### 7.3.1 Modification for tensioned Pergola awnings

For tensioned Pergola awnings, the upper end limit can be modified in semi-automatic mode.

#### Readjusting the upper end limit in semi-automatic mode

- 1 Position the awning at the upper end limit.
- 2 Press the Up and Down buttons simultaneously until the awning moves briefly: the motor is in setting mode.
- 3 Adjust the awning's top position using the Up or Down buttons.
- 4 Press the “my” button until the awning moves briefly: the new upper end limit has been programmed.



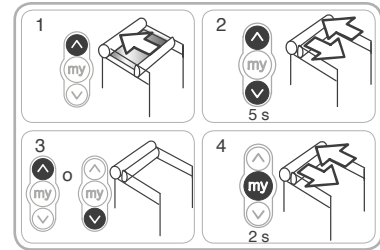
### 7.3.2 Modification for untensioned Pergola awnings



The upper and lower end limits can be modified for untensioned Pergola awnings.

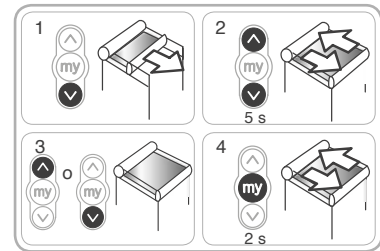
#### Readjusting the upper end limit

- 1 Position the awning at the upper end limit.
- 2 Press the Up and Down buttons simultaneously until the awning moves briefly: the motor is in setting mode.
- 3 Adjust the awning's top position using the Up or Down buttons.
- 4 Press the "my" button until the awning moves briefly: the new upper end limit has been programmed.

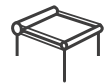


#### Readjusting the lower end limit

- 1 Position the awning at the lower end limit.
- 2 Press the Up and Down buttons simultaneously until the awning moves briefly: the motor is in setting mode.
- 3 Adjust the awning's top position using the Up or Down buttons.
- 4 Press the "my" button until the awning moves briefly: the new upper end limit has been programmed.



## 7.4 Advanced functions



### ! Important

Please contact the manufacturer of the awning before using these functions to confirm the compatibility of your installation.

### 7.4.3 "Fabric tension" function for tensioned Pergola awnings only

This function is used to increase or decrease the awning fabric tension to three levels (high-medium-low).

The motor is factory set at the medium level.

For safety reasons, this function can only be accessed via the Somfy io control point in 3 scenarios:

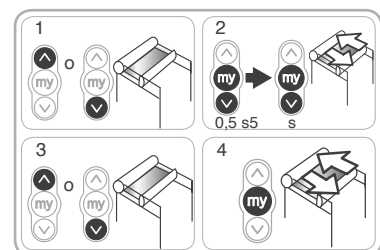
- After validation of the settings and before programming the first Somfy io control point.
- After programming the first Somfy io control point and for the next 4 cycles.
- After a power cut, and for the next 4 cycles.

#### To activate this function:

- 1 Put the awning in the middle position.
- 2 Briefly press the "my" and Down buttons simultaneously, then immediately afterwards press and hold the "my" and Down buttons until the awning moves briefly.

### ! Important

The motor is in programming mode for just 10 seconds.



- 3 Adjust the fabric tension using the Up or Down buttons.
  - To increase the fabric tension, press the Up button until the awning moves slowly: the fabric tension has switched to "high".
  - To decrease the fabric tension, press the Down button until the awning moves slowly: the fabric tension has switched to "low".
- 4 Press the "my" button until the awning moves briefly: the new fabric tension has been programmed.

## 8. Tips and recommendations

### 8.1 Question about the pergola io

Observations	Possible causes	Solutions
The awning does not operate	The wiring is incorrect	Check the wiring and modify it if necessary
	The motor is hot	Wait until the motor cools down
	An incorrect cable has been used	Check the cable and ensure it has 3 strands
	The Somfy io control point battery is low	Check whether the battery is weak and replace it if necessary
	The control point is not compatible	Check for compatibility and replace the control point if necessary
	The Somfy io control point used has not been programmed into the motor	Use a programmed control point or program this control point.
The awning stops too soon	The crown is incorrectly positioned	Fit de crown correctly
	The end limits have been incorrectly set	Readjust the end limits

### 8.2 Replacing a lost or broken Somfy io control point

Refer to the corresponding guide..

### 8.3 Restoring the original configuration

**This reset deletes all control points, all the sensors and all the end limit settings, and resets the motor's direction of rotation and favourite position "my". However, for tensioned Pergola awnings only, the fabric tension setting is maintained**

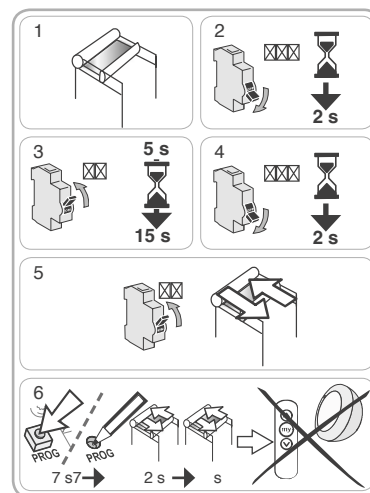
**Only switch off the power for the motor to be reset.**

- 1 Put the awning in the middle positios (if possible).
- 2 Cut the power supply for 2 seconds.
- 3 Switch the power supply back on for 5 to 15 seconds.
- 4 Cut the power supply for 2 seconds.
- 5 Switch the power supply back on: the awning moves for several seconds.

**If the awning is at the upper or lower end limit, it will move briefly.**

- 6 Hold down the PROG button: the awning will make a brief first movement followed by a second a few moments later. The motor is configured with the factory settings.

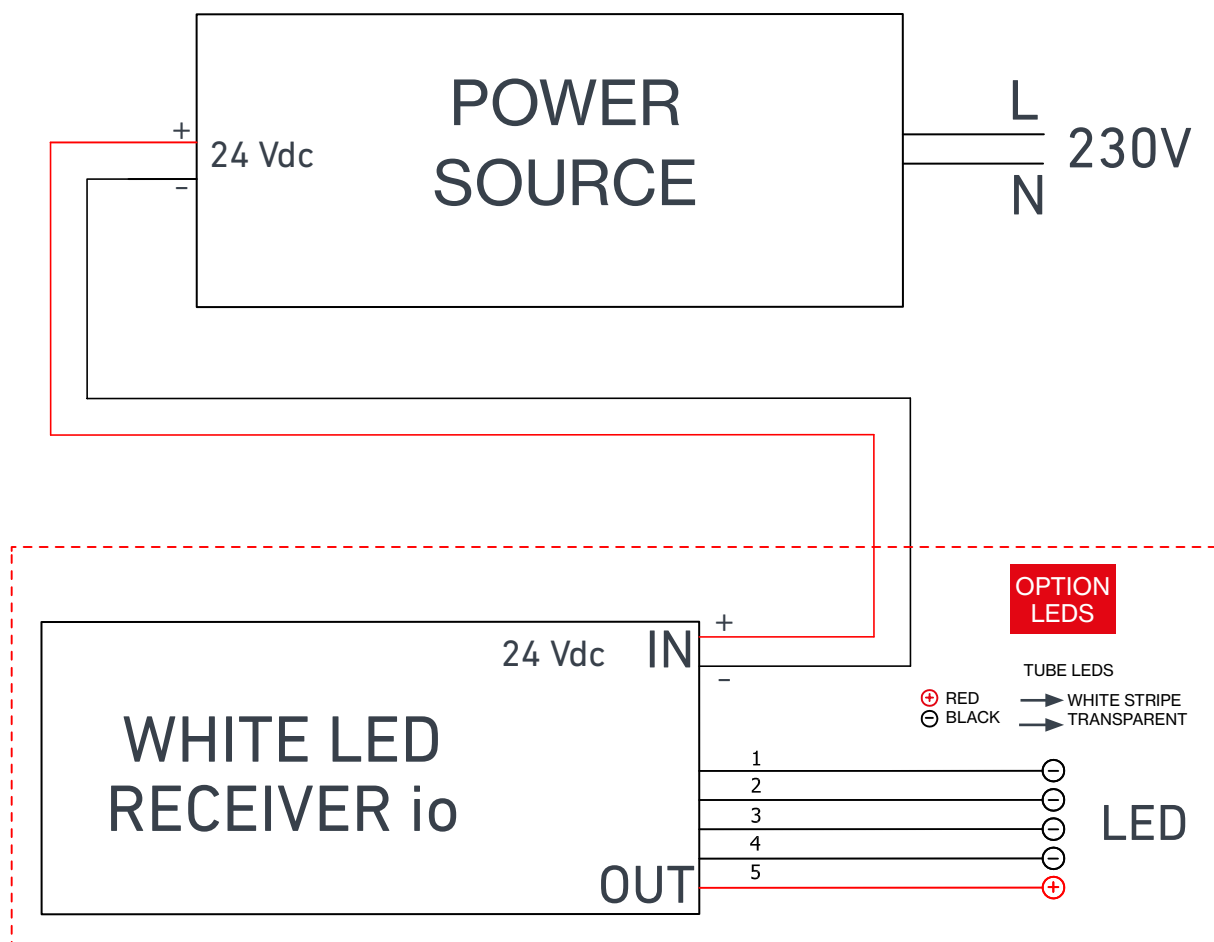
- Repeat the procedures from the "Commissioning section".



## 9. Technical data

Radio frequency	868-870 MHz io-homecontrol® bidireccional tribanda
Alimentación	230 V ~ 50 Hz
Operating temperature	-20 °C a +70 °C
Protection rating	IP 44
Maximum number of associated control points and sensors	9
Safety level	Class I

# LEDs electrical connection diagram



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## Annex IV

### What to do in case of emergency

This section is intended to help the installer to locate and solve any possible faults. These faults are usually insignificant and are easily solved.

#### **Irregular raising or lowering of the poles**

- Loosen the screws from the ball bearings, raise and lower twice and re-tighten.

#### **A continuous and unpleasant high-pitched sound is emitted by something which is rubbing or poorly greased.**

-Apply a permanent silicon-based lubricant to the mobile ball bearings and to the walls of the profiles which it passes through.

#### **Readjusting the lower limit switch**

- 1 Remove the lateral screws and those for the tension of the straps, **only** in the column.
- 2 Raise the beam **without removing it** from the column until the bracket's lower mounting slots meet the column's upper slot with the aim of inserting a screw for greater security and to avoid it falling.
- 3 Ensure that the flange **is not centered**.
- 4 Loosen the tension screws and re-tighten as before. **Ensure that it is centered**.
- 5 Finally, loosen the screw that we had inserted for security, lower the beam and tighten the rest of the screws.

## Disassembly and disposal of packaging and product components at the end of their useful lives

### Disposal of packaging

#### Important

The packaging must be recycled by the authorised professional who installed the product.

We advise you to recycle the product packaging responsibly:

- Please dispose of this waste in accordance with the current regulations:
  - Directive 94/62/EC on packaging and packaging waste.
  - Spanish Law 11/1997 of April 24th on packaging and packaging waste.
- Please sort the waste by separating each and every one of the various materials, to facilitate effective disposal of the packaging.
- Do not dispose of packaging materials together with other types of waste. Take them to a packaging materials collection point designated by the local authorities.
- In order to minimise the environmental impact of packaging and packaging waste, it is necessary to define the composition and nature of the packaging of our products to recommend their best disposal.

#### **Paper and cardboard:**

In waste management, the recycling of paper and cardboard plays an important role, because up to 70% can be reclaimed. The disposal of paper and cardboard can be done through various channels such as collection by private operators or delivery to waste treatment plants.

#### **Plastic:**

The recycling of plastics has many advantages for the environment and therefore benefits the quality of life of everyone, contributing to a greater saving of raw materials as well as natural, energy producing and economic resources. The disposal of plastic can be done by private operators or delivered to waste treatment plants.

#### **Bubble wrap:**

This is made of low density poly-ethylene, which makes it 100 % recyclable. For optimal disposal, please deliver any waste comprising this material to plastic waste treatment plants.

### Our commitment to the environment

One of **Saxun's** objectives is to maintain socially responsible behaviour. This commitment to the environment implies continuous improvements in the measures that are adopted to combat climate change.

Promoting responsible care of the environment, complying with the legal and regulatory requirements applicable to our products and promoting energy saving in all our projects are measures that are essential for us to achieve our objectives.

### Disassembly and removal of the product

When disassembling this product, a number of precautionary measures must be taken. Observe the following warnings and instructions. Please contact your supplier with any queries.

Disassembly may only be carried out by experienced fitters. This manual is not intended for DIY enthusiasts or installers in training.

For more information on these disassembly instructions, please refer to the chapters regarding installation in this manual that contain diagrams and detailed information.



**Warning**

Always act with care. Use appropriate tools which are in perfect condition.

**• Step 1**

Dismantle the small or complete roof by loosening the screws and removing the sealant. For this we will need a screwdriver.

**• Step 2**

Dismantle the 65x40 mm tube by loosening the screws that attach it to the roof support.

**• Step 3**

Dismantle the final simple crossbar by loosening the screws and leaving the crossbar completely loose.

**• Step 4**

Electrical disconnection of the motor and LEDs.  
**IMPORTANT!** Before disconnecting any cable switch off the power supply.

**• Step 5**

Release the straps by loosening the corresponding screws in the columns.

**• Step 6**

Disengage the strap from the flange attached to the axle.

**• Step 7**

Loosen the screws of the mobile ball bearings, leaving the crossbar completely loose.

**• Step 8**

Loosen the screws of the fixed end plate, leaving the crossbar completely loose.

**• Step 9**

Remove the crossbars from the guides.

**• Step 10**

Disengage the axle from the supports.

**• Step 11**

Loosen the screws from the supports to uninstall the 100x40 mm tube.

**• Step 12**

Loosen the screws from the columns and supports respectively to uninstall the guide beams.

**• Step 13**

Loosen the column's interior screws to uninstall from the gutter and remove the joining plate for its complete disassembly.

**• Step 14**

Loosen the screws that attach the column to the surface-base bracket and disassemble by lifting the column up.

**• Step 15**

Finally, loosen the screws that attach the surface-base bracket to the sill.

**Attention**

Make sure that you dispose of all the product's parts according to the nature of the material.

Components	Galvanised Steel	Stainless Steel	Aluminium	WEEE	Plastic	Textile
Profiles			•			
Screws		•				
Washers		•				
End caps		•				
Surface brackets		•				
Rubber seal					•	
Cables and LED lines				•		
Strap					•	
Ej Axle e	•					
Telescopic cap	•				•	
Motor		•		•	•	
Switchboard				•	•	
Poleas y mini poleas					•	
Ball bearings		•			•	
Supports		•				
Canvas						•
Small roof or complete roof			•			
Mounting brackets		•				
Joining plates		•				
Supports for motor		•				

Our products are mainly made of recyclable materials. It is advisable to be informed about the recycling or disposal systems provided for in the current regulations in your country for this product category.



### Important

Always act with care. Please only use suitable tools that are in perfect condition.



This symbol means that the product must not be disposed of together with household waste as it must be collected separately for recovery, reuse or recycling in accordance with local regulations.



In compliance with European Directive 2012/19/EU, waste electrical and electronic equipment (WEEE) can become a serious environmental problem if not managed properly. The Directive provides the general framework valid throughout the European Union for the disposal and re-use of waste electrical and electronic equipment.

At the end of the service life of the electrical or electronic equipment, it must not be thrown away together with other types of waste. They can be delivered to the specific centres regulated for this purpose by the local authorities.

The effective separation of waste will avoid negative consequences for the environment and health that could result from poor waste management or inadequate waste disposal.

### Important

By complying with this directive, you will be acting in favour of the environment and will contribute to the conservation of natural resources and the protection of health.

**Local regulations may impose significant penalties for illegal disposal of the product.**

## The materials that our products are made of offer a great variety of environmental advantages



### Galvanised steel

Galvanised steel is a type of steel which undergoes a certain treatment, at the end of which it is coated with several layers of zinc which protect it, avoiding oxidation. The recycling of zinc helps reduce demand for new materials and as a result generates considerable energy savings, being a metal that constitutes a very valuable and sustainable resource.

**For proper recycling of galvanised steel, it is advisable to visit a metal waste collection centre.**



### Stainless steel

Stainless steel is an iron alloy containing nickel and chromium to protect against corrosion and rust. Its qualities include resistance to high temperatures and being a particularly strong material. Stainless steel is an infinitely recyclable "green material". Its properties make it ideal for exposure to poor weather conditions.

**Therefore, to ensure proper disposal of stainless steel, it is recommended that this material be left at a specialised waste collection centre.**



### Aluminium

Aluminium recycling guarantees an endless variety of environmental benefits. The use of recycle aluminium saves 95% of the energy used in its production in its raw state, and it can be recycled as many times as desired and is fully recoverable. Therefore, the recycling of aluminium is both technically and economically profitable.

**Therefore, to ensure proper disposal of aluminium, it is recommended that this material be left at a specialised waste collection centre..**



### Cables

The recycling of electrical cables prevents the contamination that can come from these elements. Its re-cycling allows for the subsequent use of the copper, aluminium and brass from the cables, once they are separated from their plastic insulation.

**Electrical and electronic waste must be taken to clean points for proper recycling**



PET



HDPE



PVC



LDPE



PP



PS



Other

### Plastic

Plastic recycling provides a sustainable source of raw material for the industry. Its reuse also significantly reduces environmental problems, as it is a non-biodegradable material.

Recycling reduces energy consumption and CO2 emissions, thus mitigating pollution and climate change.

**There are several types of plastic, so to achieve optimal recycling it is essential to deposit them in clean points where the separation of the different types and their identification will take place.**



### Textiles

The use of textile waste is essential when we talk about recycling. Reuse of such waste helps to reduce the consumption of water and the gases that are released in the manufacturing process.

**In order to encourage the proper disposal of textiles, it is recommended that they be left at a specialised waste centre where the different textile fibres will be separated.**



### Important

Follow the recommendations for effective product recycling. Remember that recycling is more than an action; it is the value of accepting responsibility

## Notes

[illegible]

[illegible]

## Notes

[illegible]

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