Gala Compact Twin

Installation Manual

Dear Customer

Installation manual contains suggestions and rules for fast and exact installation of **Gala Compact Twin** product. We recommend you to read our instruction carefully.

During installation all necessary actions have to be carried out by authorized and specialized technicians.

All unauthorized interventions during warranty period will invalidate the warranty.

INDEX

SYMBOLS

 Attention: general operation note.

 Attention: general hazards; possible risk for persons.

 Attention: electrical hazard

 Attention: risk of crushing hands

 Contact: Palmiye service department.

GENERAL PRECAUTIONS

Before starting of any assembly, maintenance or cleaning operations, make sure that you have fully understood the indications in this manual.

All electrical connections for **Gala Compact Twin**, installation of automation accessories must be made by qualified personnel.

 In case of any incompatibility, call Palmiye.

GENERAL SAFETY PRECAUTIONS

When using the carrier it is good practice to remember that all moving parts can be a source of danger.

 Make sure that power supply is cut off during maintenance.

It is recommended never to intervene on moving parts and to ensure that no operator is near to the moveable parts/control unit box before reactivating it after a technical or maintenance intervention.

PRECAUTIONS AND WARNINGS

The installation and maintenance personnel (installers, electricians etc.) must have sufficient expertise and knowledge for undertaking the task at hand.

 In case of anomalies, immediately stop the work and contact with hospital.

Palmiye will not be responsible on use of non-original parts or unauthorized interventions and modifications for damage caused to people or animals or property.

Product Features:

Gala Compact Twin is retractable pergola system which has twin tilted form. It consist of an aluminium structure and fabric.

Gala Compact Twin is 100 % water and airproof. It protect against sun and rain.

This system carries a limited snow load which is 15kg/m²

The Fabric, made from exclusive Serge Ferrari, Sioen, Sunbrella and Sattler. It is supported by fabric profiles or our special produced as exclusive fabric.

The belts are inserted into the each rails and driven by pulley and single drive shaft to ensure even fabric movement.

Gala Compact Twin system is operated by the motor with the radio control transmitter

Fabric support profile doesn't fit to the fabric bigger than 8m. It has to be install on site

Each **Gala Compact Twin** has using max. dimensions as;

Width: 1300 cm

Projection: 1200 cm (for each side 600 cm)

Max. dimension of between each rails 450 cm

The side beam using is obligation.

Max. drainage capacity 30 m²/pc elbow per drainage. Also, at least per drain should be used for each 8 meters gutter.

Can apply a steel construction only to back beam and back pillar.

Each rail needs to be supported with a front pillar. Front pillar can only be moved "50cm" away from the rail centers.

If you use an additional rail you have to add a front pillar.

Wind Resistance

WIDTH (cm)

PROJECTION (cm)	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
800	11	10	10	10	10	10	9	9	9	9	10	10	10	10	10	10	10	10
900	10	9	9	9	9	9	9	9	8	8	9	9	9	9	9	9	9	9
1000	10	9	9	9	9	8	8	8	8	8	9	9	9	9	9	9	9	9
1100	9	8	8	8	8	8	8	7	7	7	8	8	8	8	8	8	8	8
1200	8	8	8	7	7	7	7	7	7	6	8	8	8	8	7	7	7	7

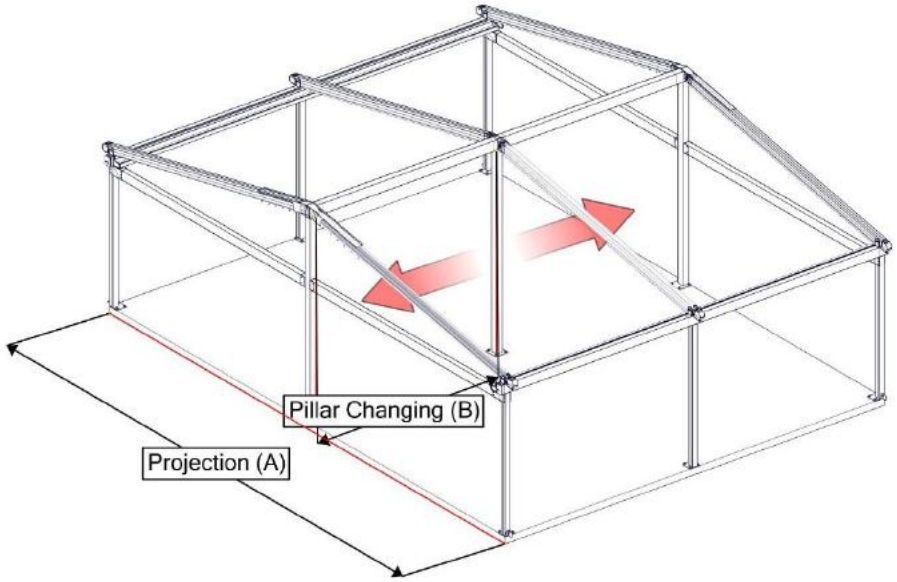
WIDTH (cm)

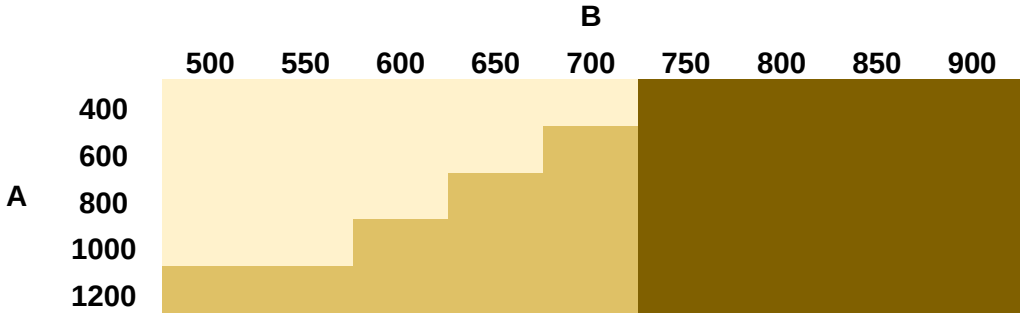
PROJECTION (cm)	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300
800	8	8	8	7	7	7	6	6	6	6	8	8	8	8	7	7	7	7
900	8	7	7	7	7	7	6	6	6	6	8	7	7	7	7	7	7	7
1000	7	7	7	7	7	7	6	6	6	6	7	7	7	7	7	7	7	7
1100	7	7	6	6	6	6	6	6	6	6	7	7	6	6	6	6	6	6
1200	6	6	6	6	6	6	6	6	5	5	6	6	6	6	6	6	6	6

- **The values are given according to the Beaufort scale.**
- **Calculated for products with a front height of 250 cm according to Eurocode EN 1991-1-4 Terrain Category 4.**

You can ask calculations for your projects.

Back pillar position change;



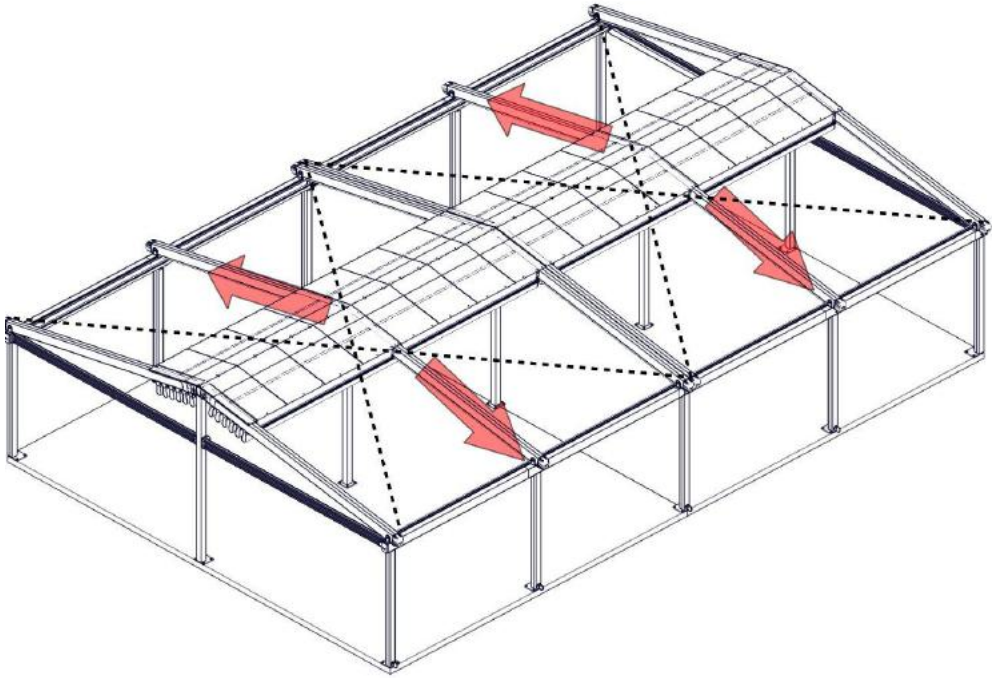


	PILLAR	Al - 100x100x3mm
	BEAM	Al - 100x150x3mm
	PILLAR	St - 100x100x3mm
	BEAM	St - 100x150x3mm
	PILLAR	St - 100x100x5mm
	BEAM	St - 100x200x5mm

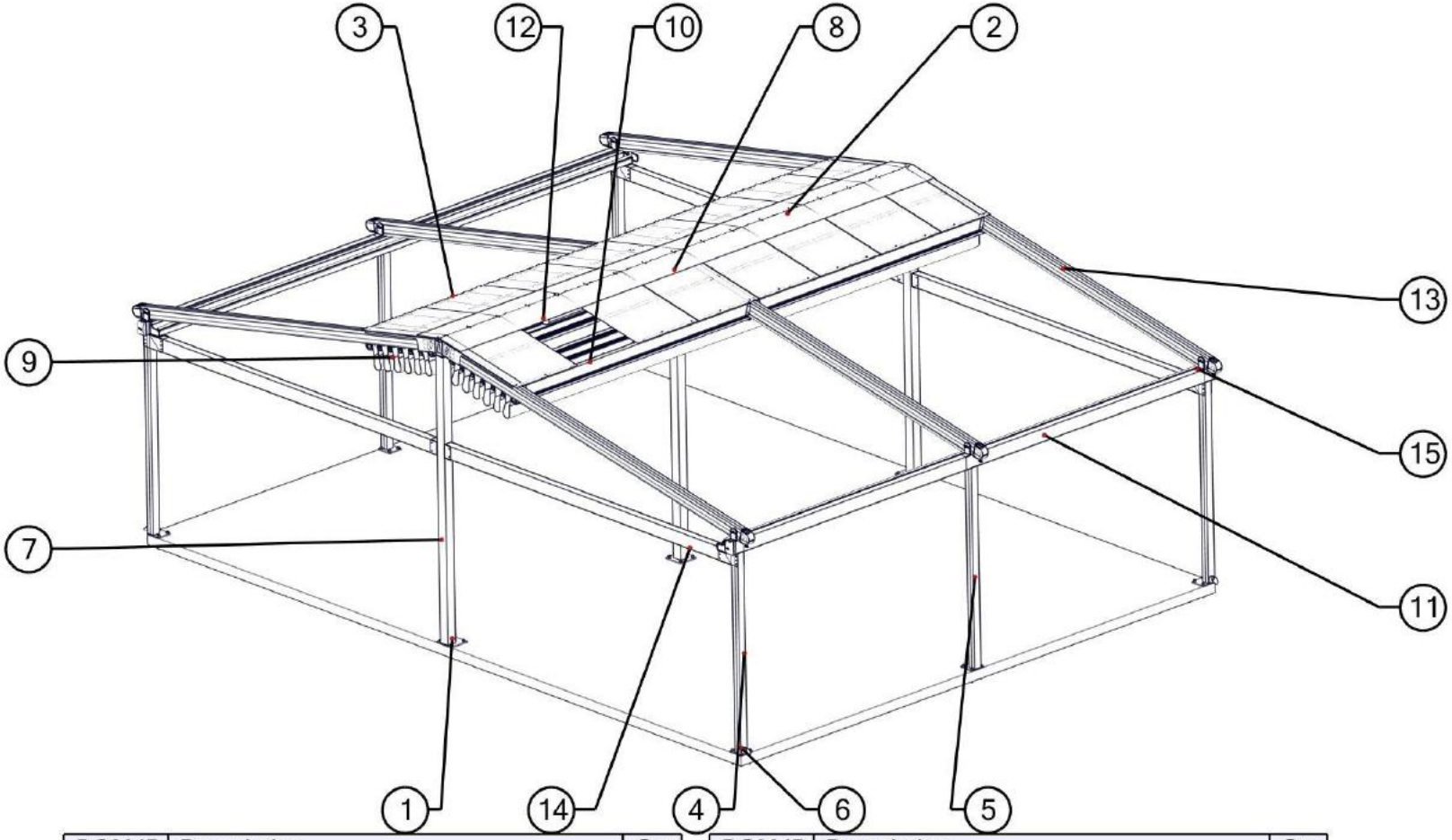
MODULARITY

2 or more module can apply on Gala Compact Twin.

The different projection lengths can be applied in different projection directions.



Terminology:



BOM ID	Description	Qty
1	Flange - Al. 200x200x10mm.	3
2	Top Finish Sheet - Al. T Angle	1
3	Fabric Cover - Al. 63x100mm.	16
4	Front Pillar - Al. 80x80mm. (with drainage)	4
5	Front Pillar - Al. 80x80mm. (w/o drainage)	2
6	Flange - Al. 150x150x10mm.	6
7	Back Pillar - Al. 100x100mm.	3
8	Back Beam - Al. 100x150mm.	1

BOM ID	Description	Qty
9	Fabric	2
10	Cross Beam - Al. 40x120mm.	8
11	Front Beam - Al. 80x130mm.	2
12	Motor	2
13	Rail Profile - Compact 75x120mm.	6
14	Side Beam - Al. 80x130mm.	4
15	Rain Gutter	2

MOTORIZATION

According to retractable pergola size; single and double motors are able to uses.

Single Motor

Somfy Orea 60 RTS; 55/17, 85/17 and 120/12 motors are able to used. They are controlling by remote control devices.

	Nominal Torque (Nm)	Nominal Speed (rpm)	Rated Power (W)	Rated Current (A)	Thermal Tripping (ºC)	Weight (kg)	Noise (dBA)
OREA 60 RTS	55	17	290	1,25	130	4,18	64
	85	17	400	1,8	140	4,7	66
	120	12	400	1,8	140	5,03	65

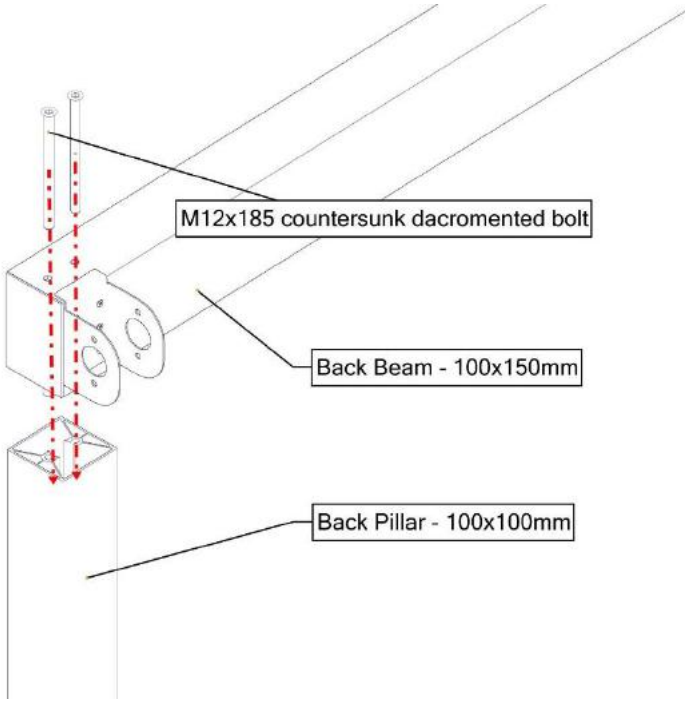
Double Motor

Somfy LT60 Orion S 55/17, LT60 Jupiter 85/17 and LT60 Taurus 120/12 motors are able to uses. Systems are able to control by remote control devices.

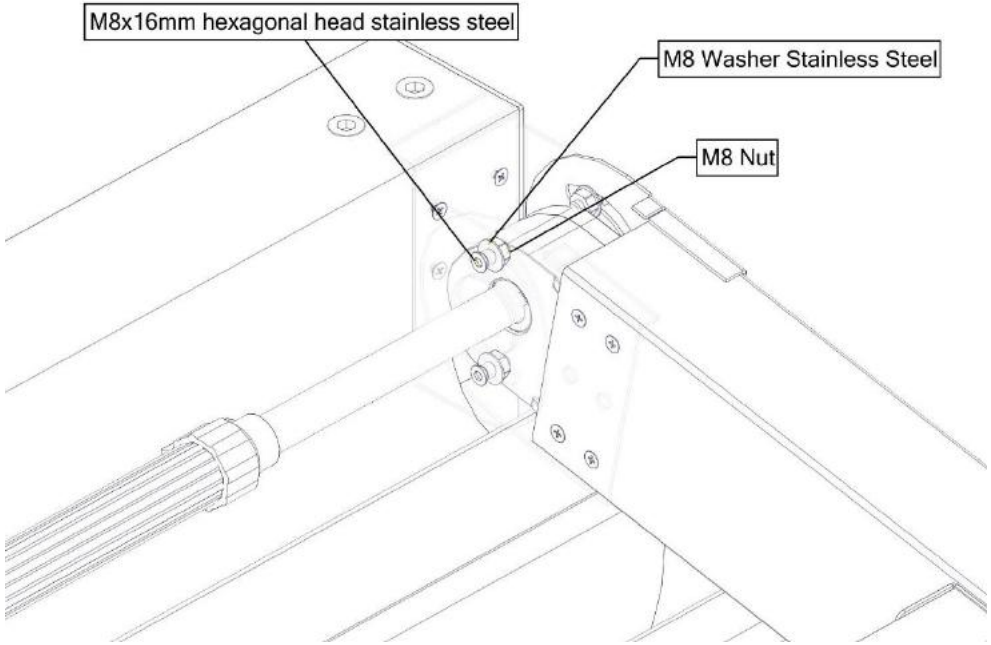
LT60	Nominal Torque (Nm)	Nominal Speed (rpm)	Rated Power (W)	Rated Current (A)	Thermal Tripping (ºC)	Weight (kg)	Noise (dBA)
Orion S	55	17	320	1,5	150	4,17	64
Jupiter	85	17	450	2,1	150	4,45	65
Taurus	120	12	450	2,1	150	4,45	65

HARDWARE

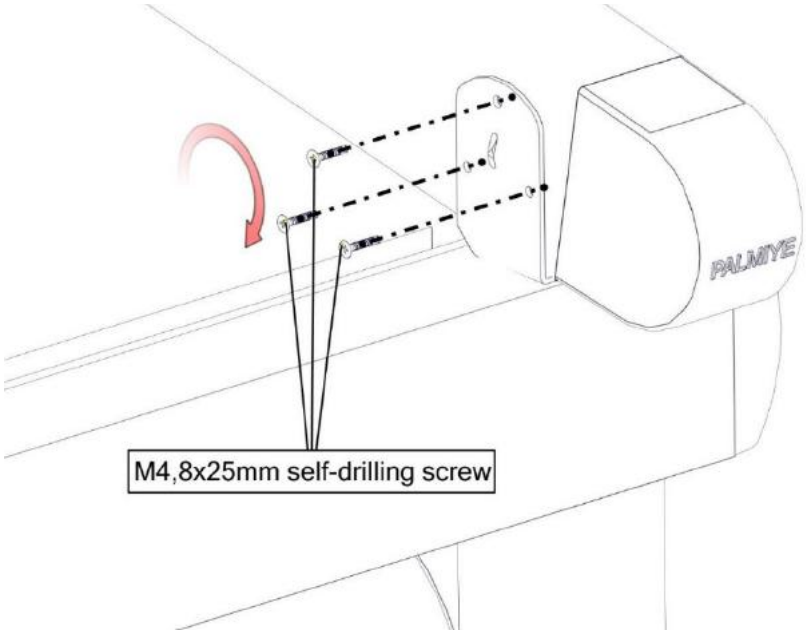
1. **Back Beam and Back pillar connection:**
   a. *M12x185 countersunk dacromented bolt*

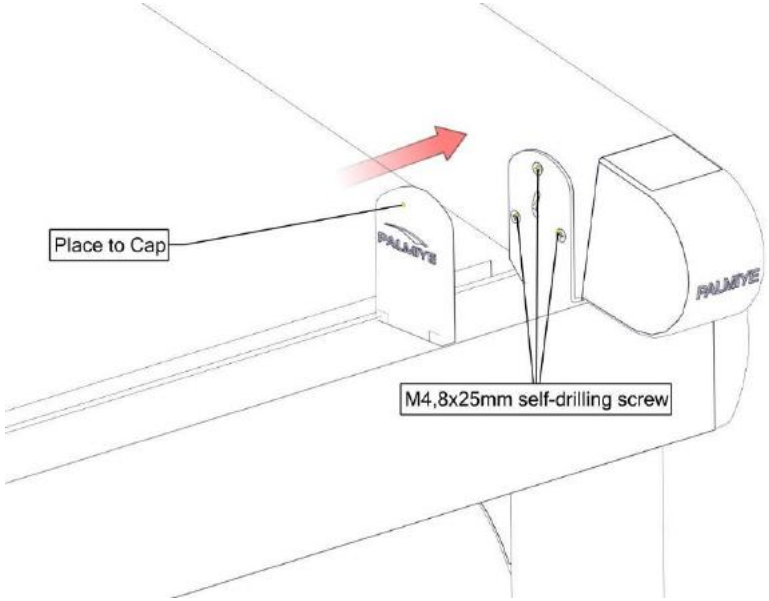


2. **Rail and back beam connection:**
   a. *M8x16 hexagonal head bolt*
   b. *M8 washer*
   c. *M8 nut*

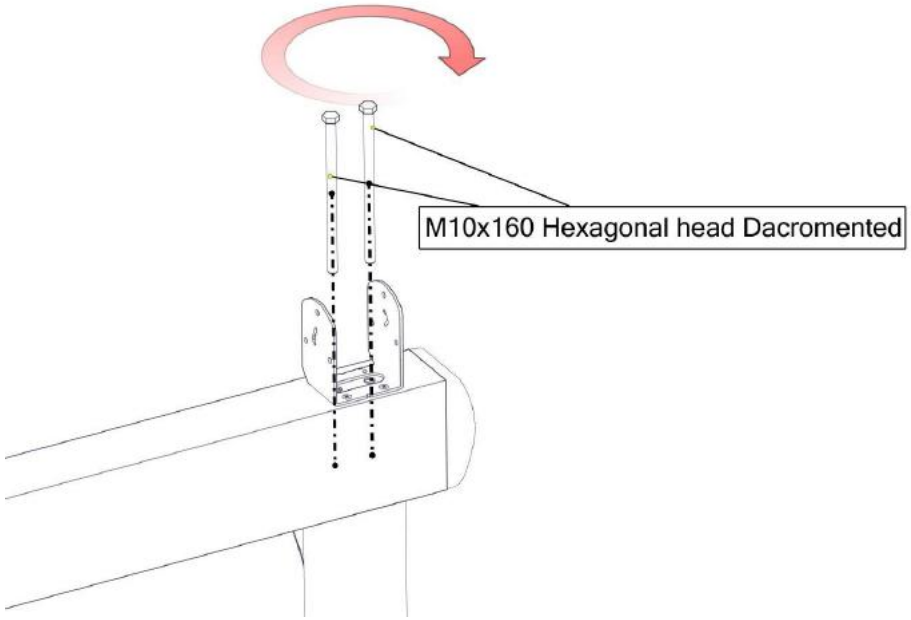


3. **Rail and front beam connection;**
   a. *M4.8x25 self-drilling screw*

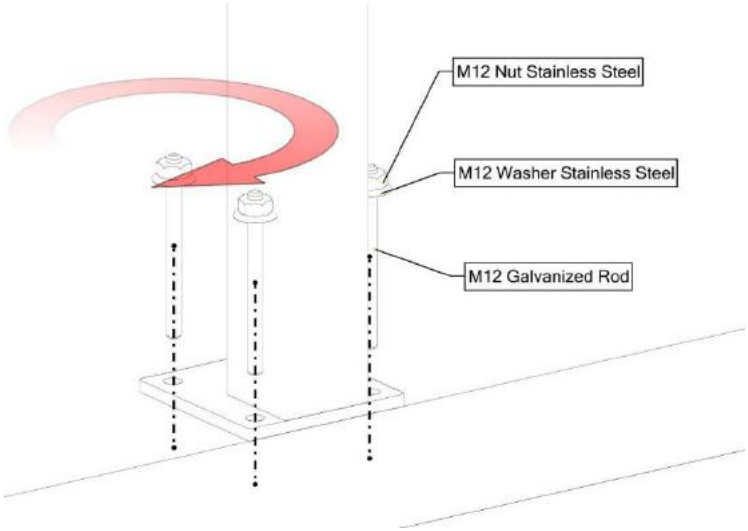




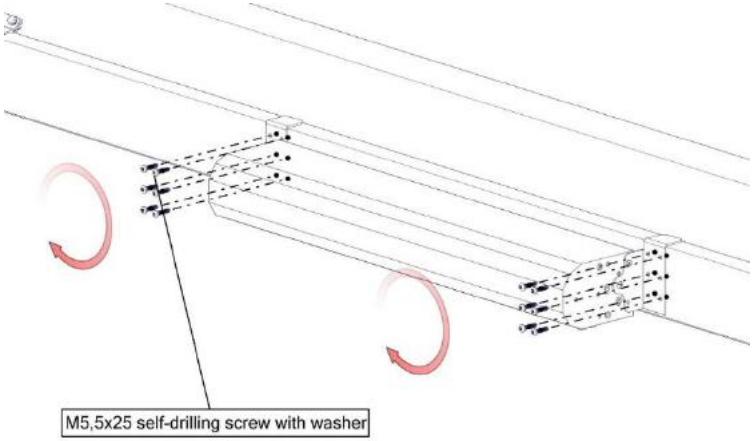
4. **Front pillar – Front beam connection;**
   a. *M10x160 hexagonal head dacromented bolt*



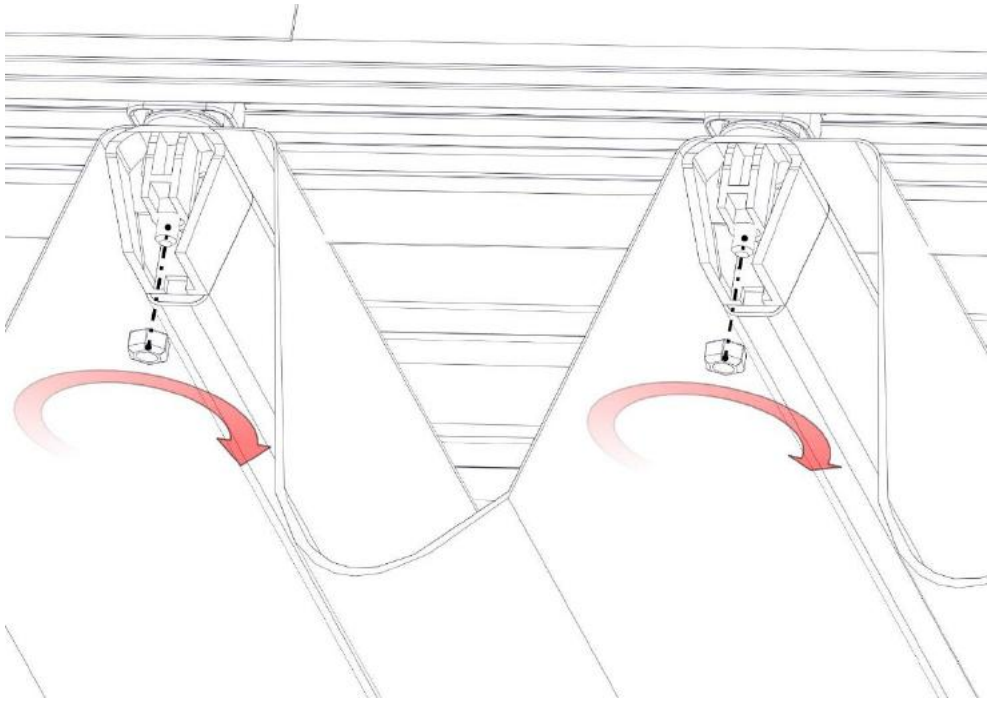
5. **Pillar – Ground connection:**
    a. *M12 Galvanized Rod*
    b. *M12 Washer Stainless Steel*
    c. *M12 Nut stainless Steel*



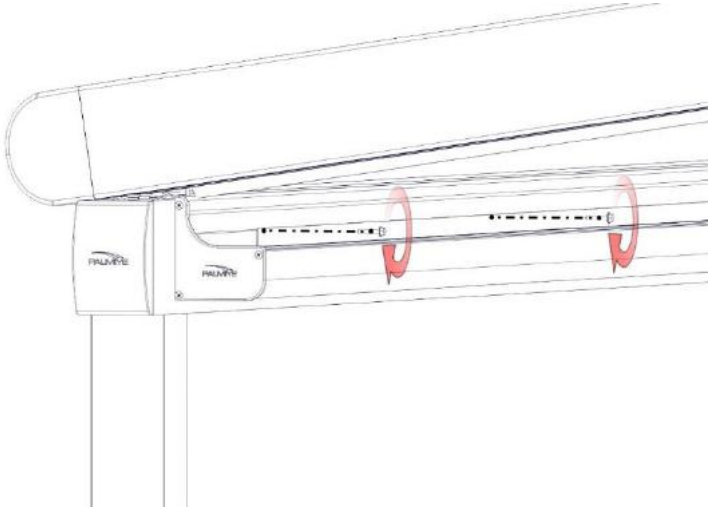
6. **Motor – Back beam connection:**
    a. *M5.5x25 self-drilling screw with washer*



7. **Fabric – Carrier connection:**
    a. *M8 nut with sealant*

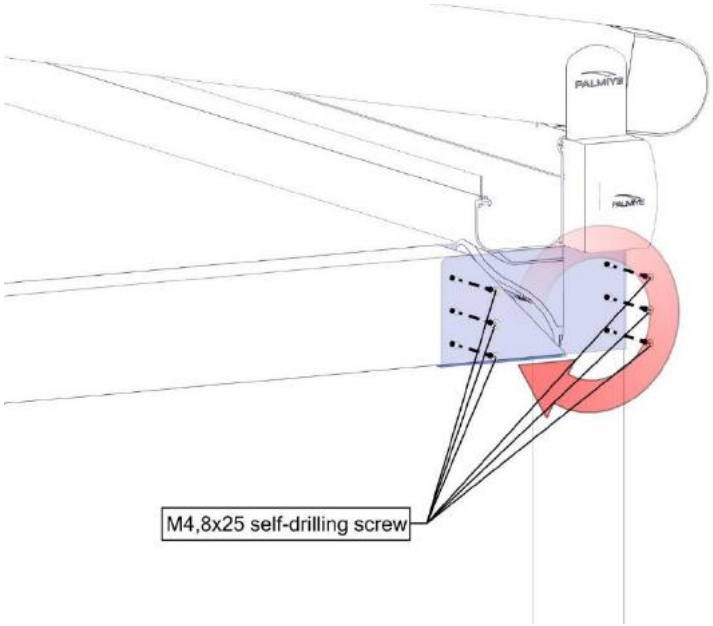


8. **Gutter – Front beam connection:**
    a. *M5.5x25 self-drilling screw with washer*



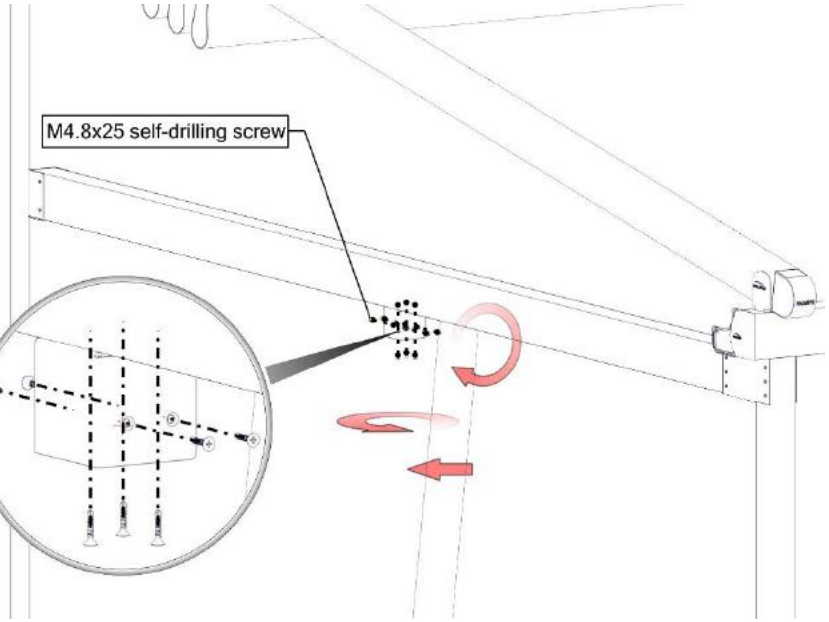
9. <u>Side beam – Front beam connection;</u>

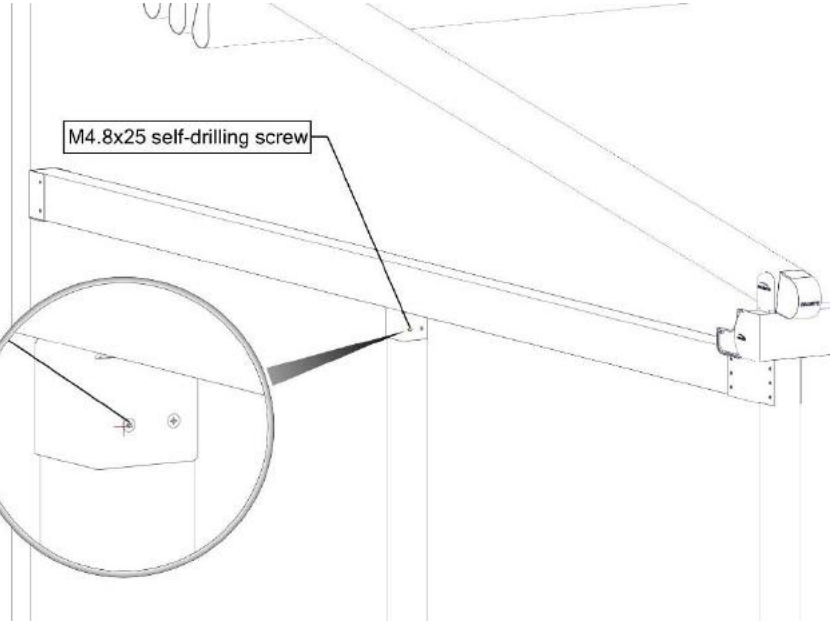
a. M4.8x25 self-drilling screw



10. <u>Side beam – Side beam pillar connection:</u>

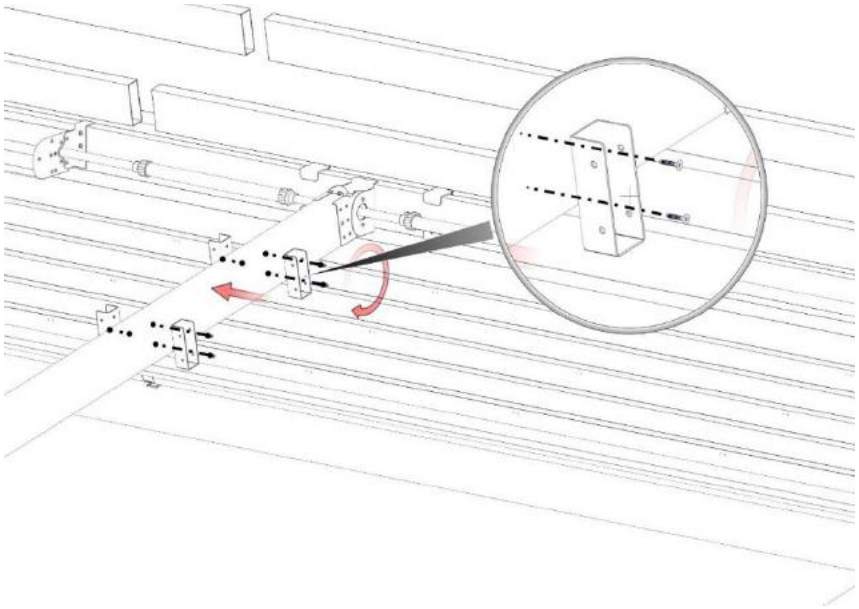
a. M4.8x25 self-drilling screw



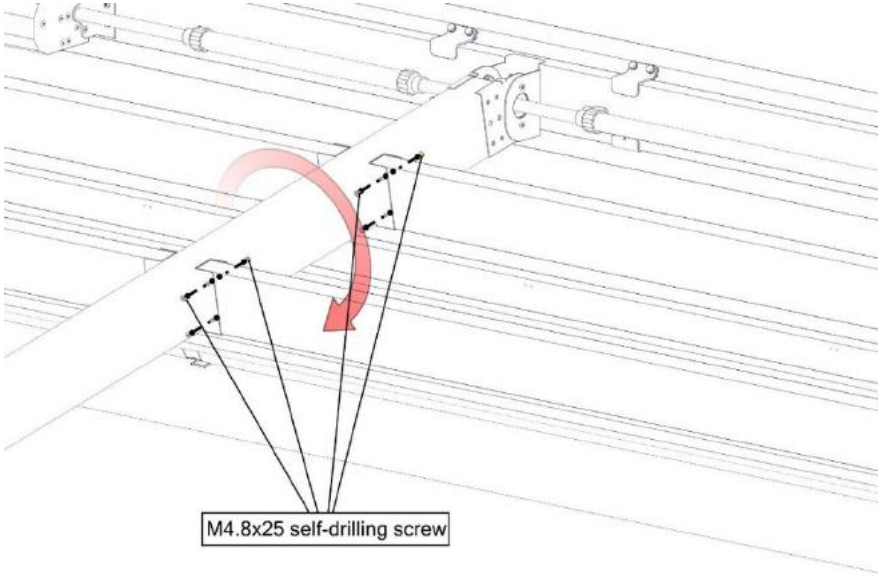


11. Cross beam – Rail connection:

a. M4.8x25 self-drilling screw

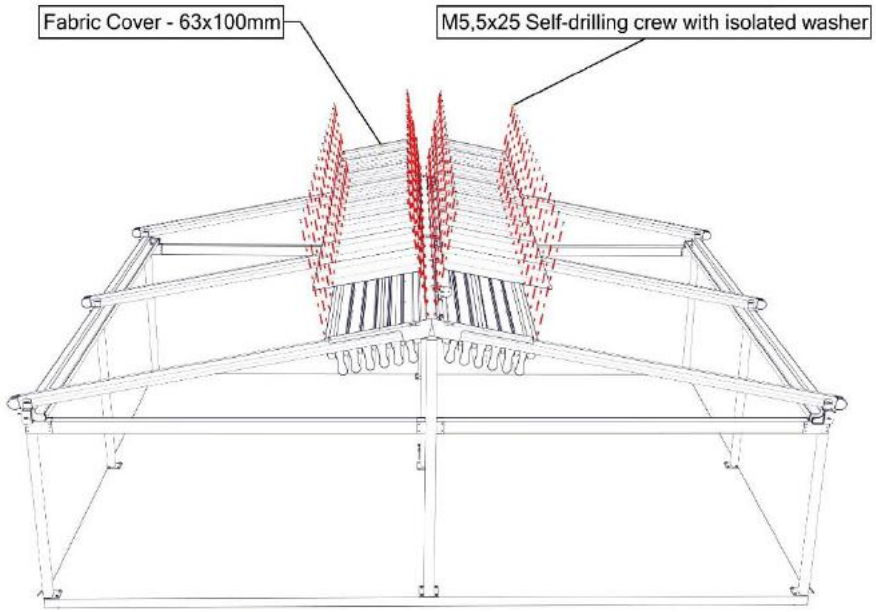


b. M4.8x25 self-drilling screw



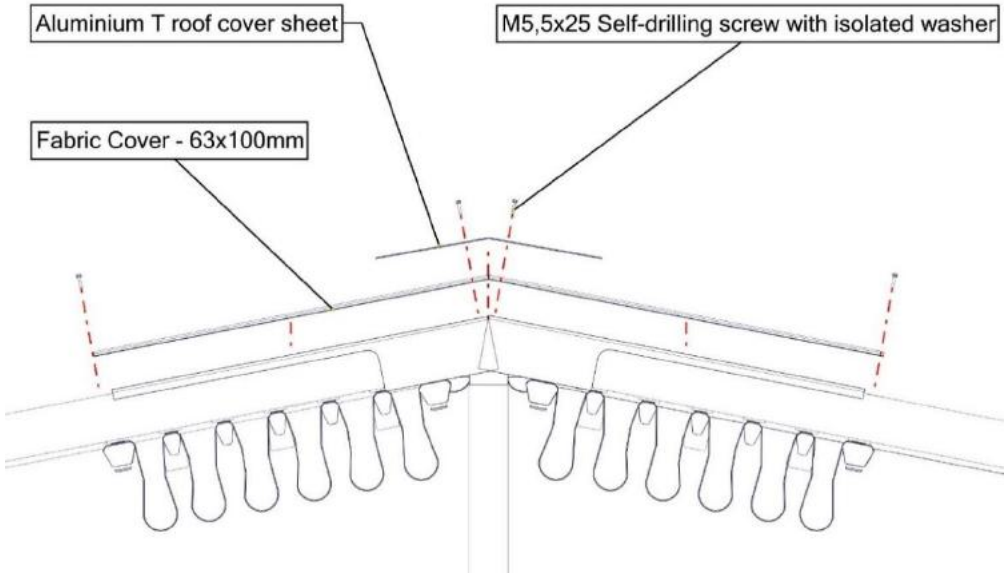
12. Fabric Cover Sheet – Cross Beam connection:

a. M5.5x25 self-drilling screw with washer



13. Aluminium T Roof Cover Sheet:

a. M5.5x25 self-drilling screw with washer



b.

PACKAGING

PRELIMINARY CHECKS

On receipt of the packed goods and before starting their assembly, check the integrity of the material and the presence of all the components necessary for the installation.

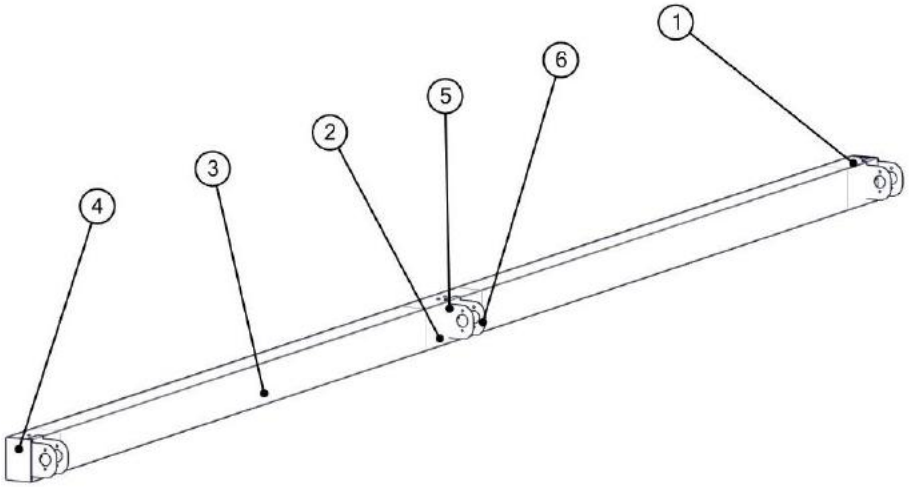
In case of anomalies, immediately stop the work and contact with hospital.

Fixing elements such as screws, plugs etc. are included on the box.

If not please contact service department of Palmiye

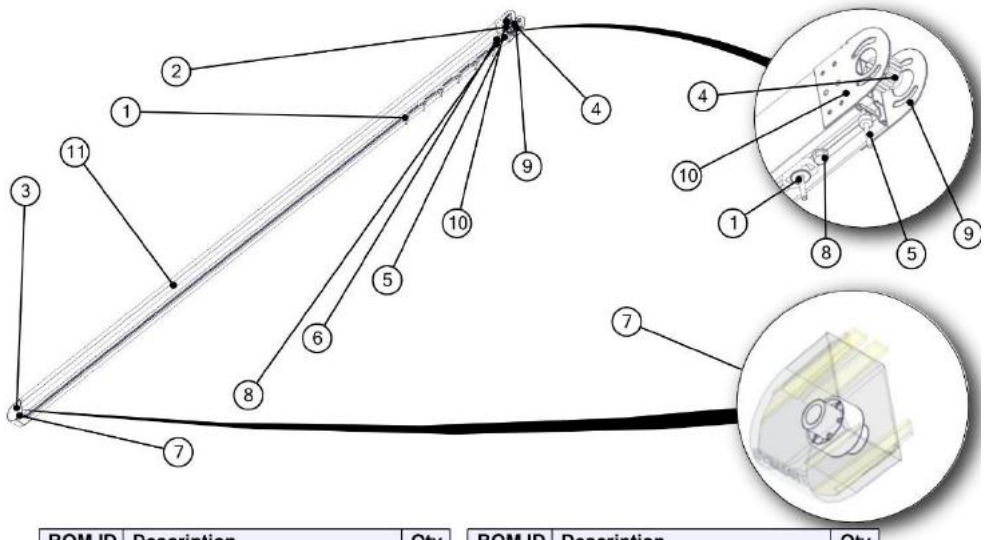
Do not use a knife to avoid the risk of ruining the paint or other materials.

Back Beam:



BOM ID	Description	Qty
1	100X150 Profile support 200mm	2
2	100X150 Profile support 400mm	1
3	100x150 Aluminium Profile	1
4	100x150 Side Cap	2
5	4,8X25 Self Tapping Screw	18
6	Rear Beam Rail Connecting Apparatus - Compact	3

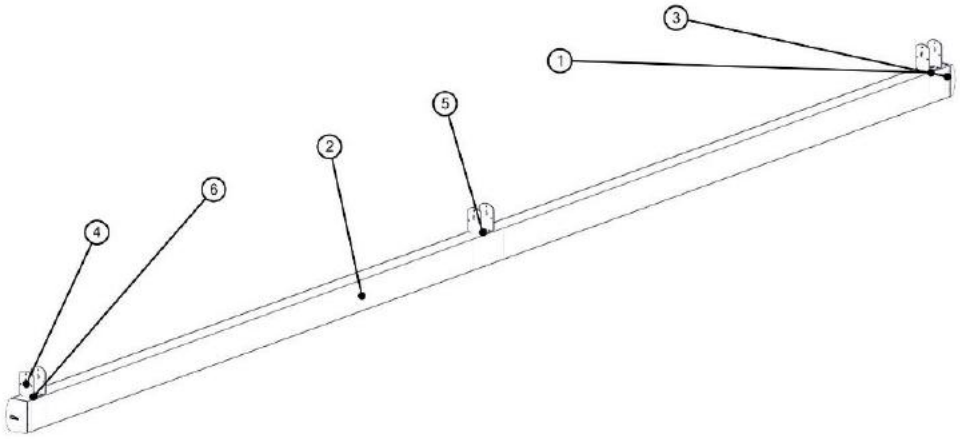
Rail:



BOM ID	Description	Qty
1	4 Wheel Carriage	6
2	M4,8x25 self-drilling screw	4
3	Rail Front Cap Rounded	1
4	Rear roll bearing set	1
5	Fixed carrier	1
6	Square nut	1

BOM ID	Description	Qty
7	Front roll Bearing Set	1
8	M8x16mm Hexagonal head bolt	1
9	Rail connection support Left	1
10	Rail connection support Right	1
11	Rail Profile - 75x120mm	1

Front Beam:



BOM ID	Description	Qty
1	4,8X25 Self Tapping Screw	6
2	Front Beam Aluminium Profile 80x130	1
3	Front Beam Cast Aluminium Cap - Rounded	2
4	Front beam - Rail connecting bracket (77 mm)	3
5	Support Profile 2x124x74 200mm	1
6	Support profile 2x124x74 100mm	2

Boxes:

1. Electrical:
   Electrical Equipments - Lighting box, Spot LED, Synchronized control box, Remote Controls, Sensors - are on Electric box. It has a red label on the box.

2. Metal Box:
   U Brackets, Mounting brackets, Gutter caps, Front beam and Rail connecting bracket caps, Hexagonal motor shaft drives, M12x185mm dacromented bolt, M10x160mm dacromented bolt, M4,8x25 self-drilling screws, M5,5x25 self-drilling with sealant washer screws, drainage elbow, Stainless steel anchorages, (If you have a decorative fabric: M5,5x45 philips screw, M5,5x70 philips screw) It has a blue label on the box.

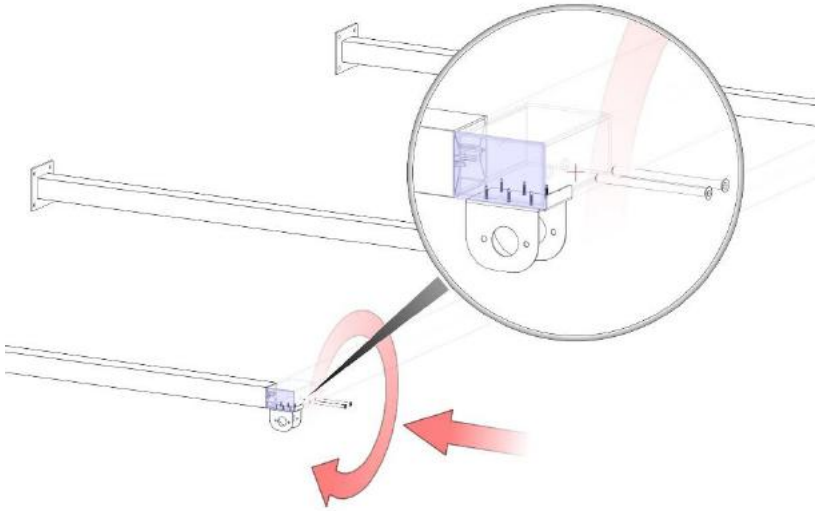
3. Plastic box:
   Rubber for gutter, Fabric support profile plastics and its caps, motor shaft drive transmitter. It has a yellow label on the box.

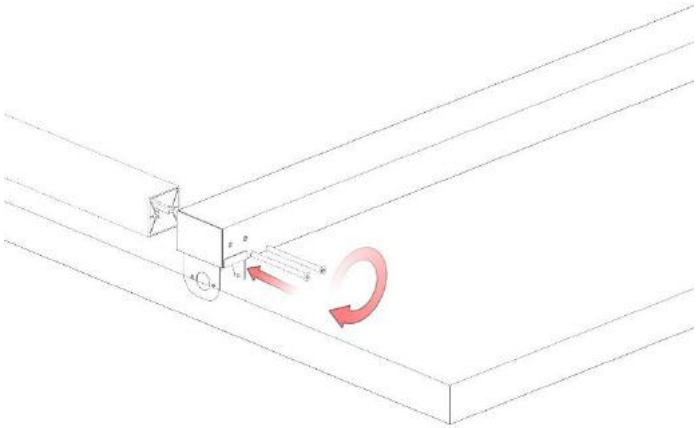
INSTALLATION STEPS

A. **STRUCTURE INSTALLATION**

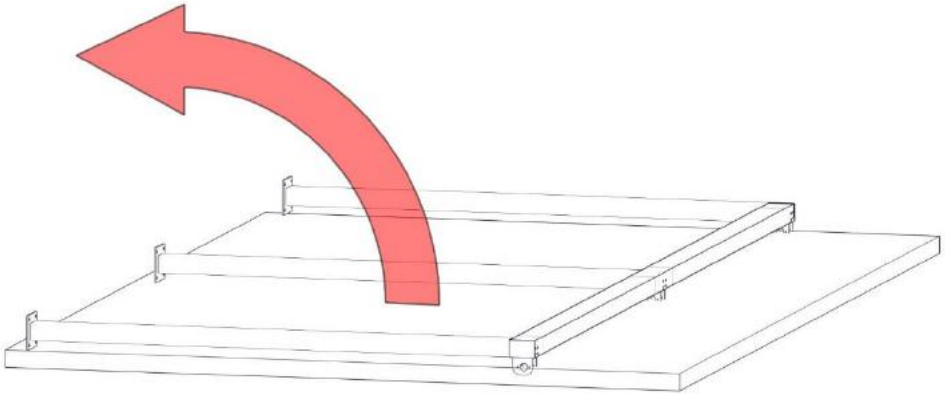
a. Back beam and Back pillar installation;

Back beam and back pillar should be connected by M12x185mm dacromented rod on ground.



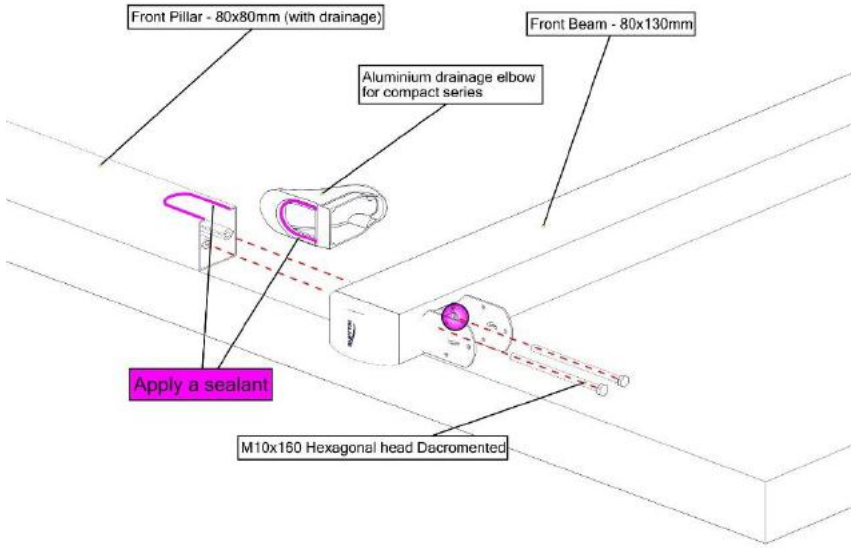


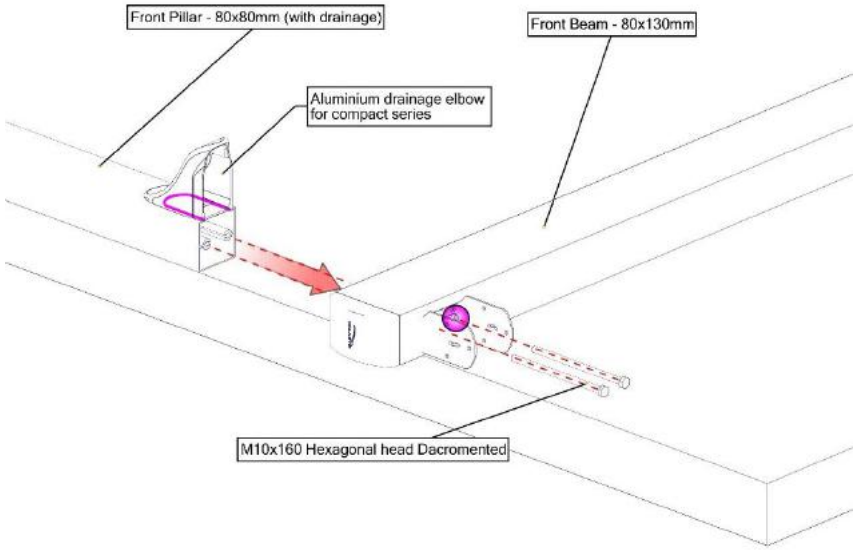
Don’t work alone. You may need someone else while placing of the back profile.



b. Front beam and front pillar connection:

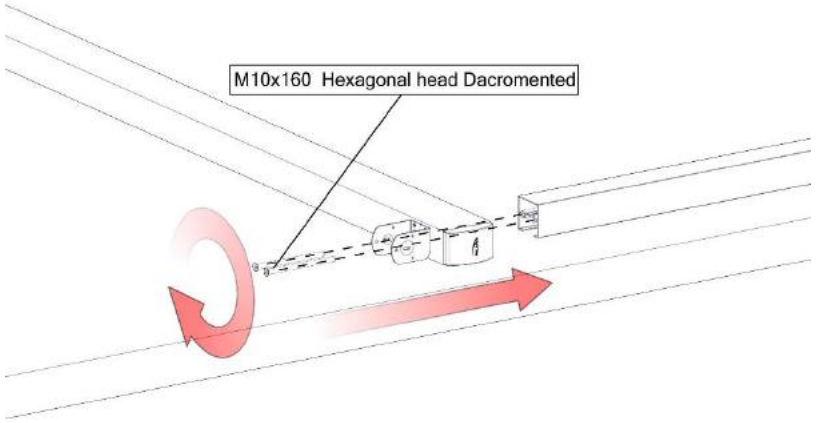
In order to protect of the water leakage you should apply to sealant as defined below picture.

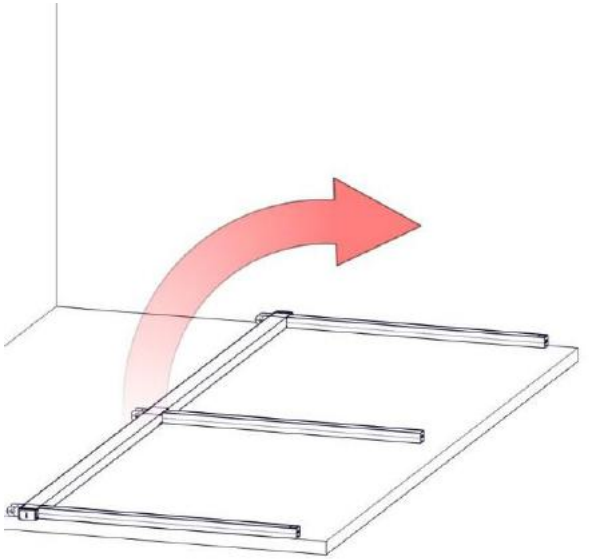




Front beam and front pillar connection screws should be fasten on ground after that you are able to lift as you shown image at below.

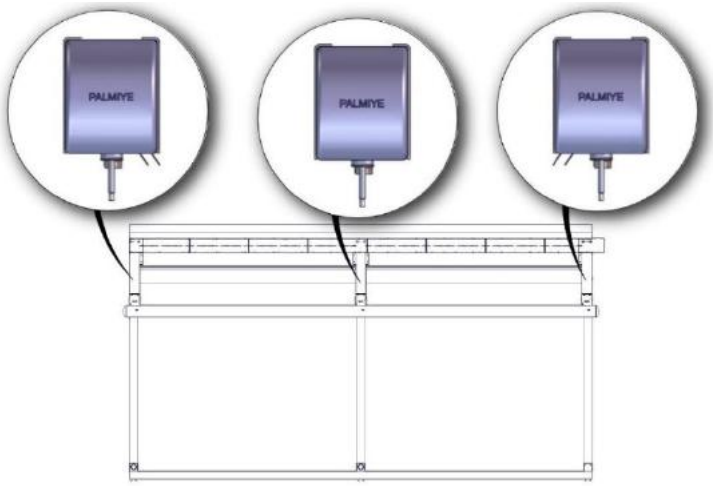
In this situation you may need some people since you must hold to pillars as carefully.



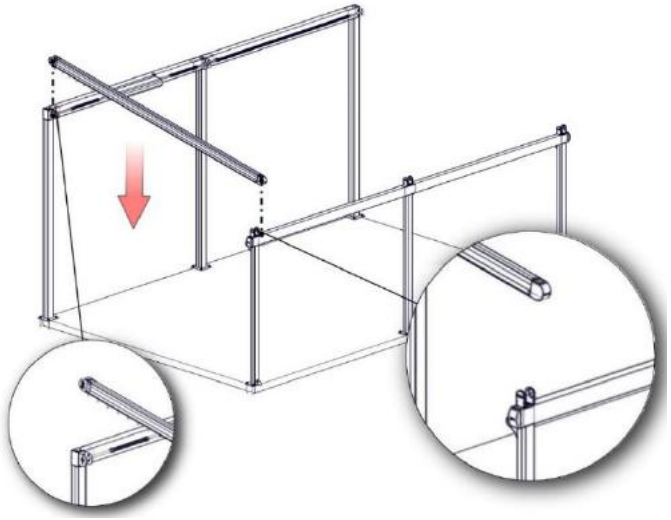


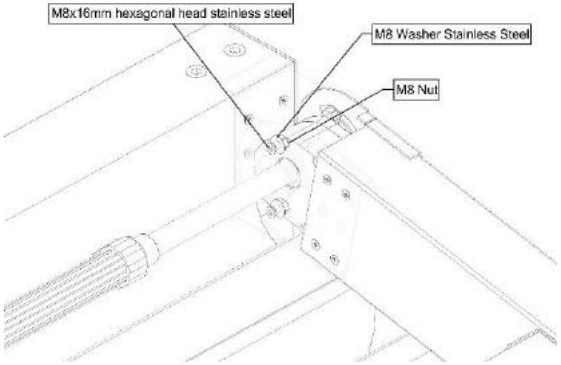
c. Rail Placing:

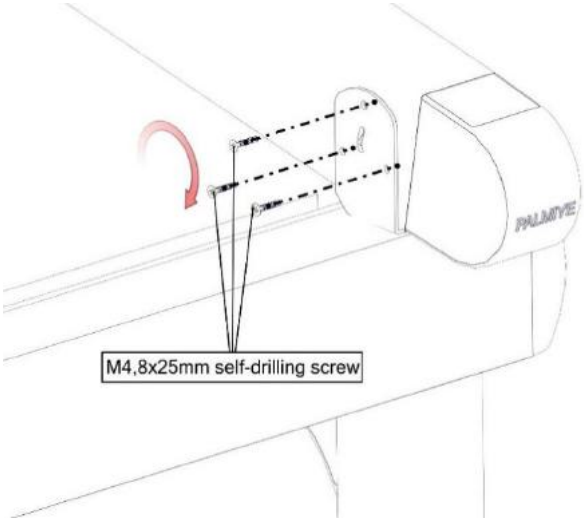
There is two type rail. One of them without gasket and another one with gasket which located bottom of the rail and according to rail position. When you looking in front of the product the gasket must be inside of the product as you see at below picture.

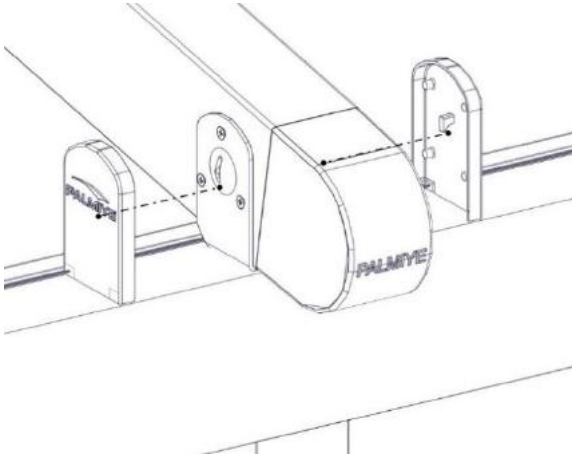


During rail bolts fastening to back beam and front beam you will need someone else according to rail weight and length dimension.

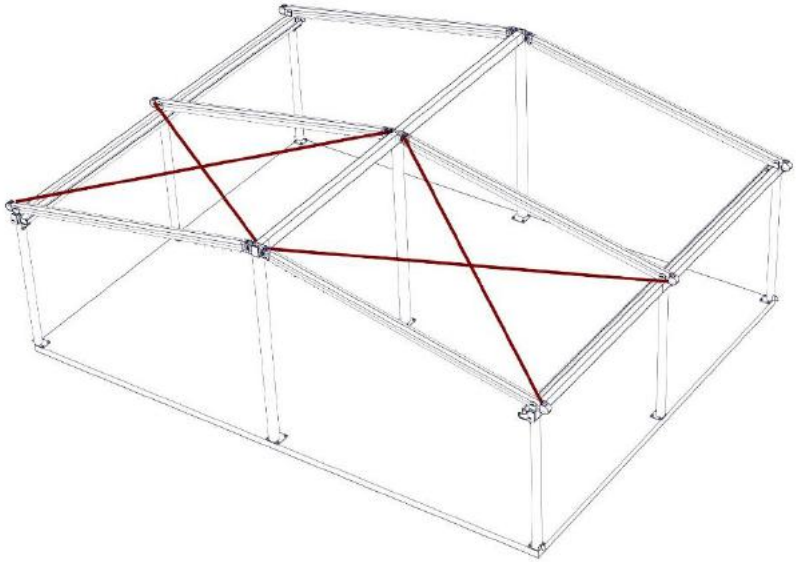


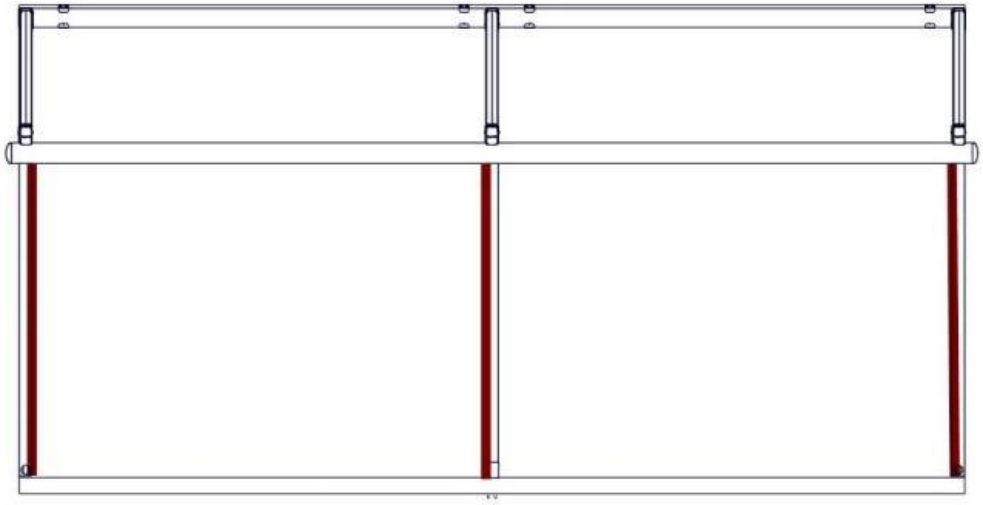


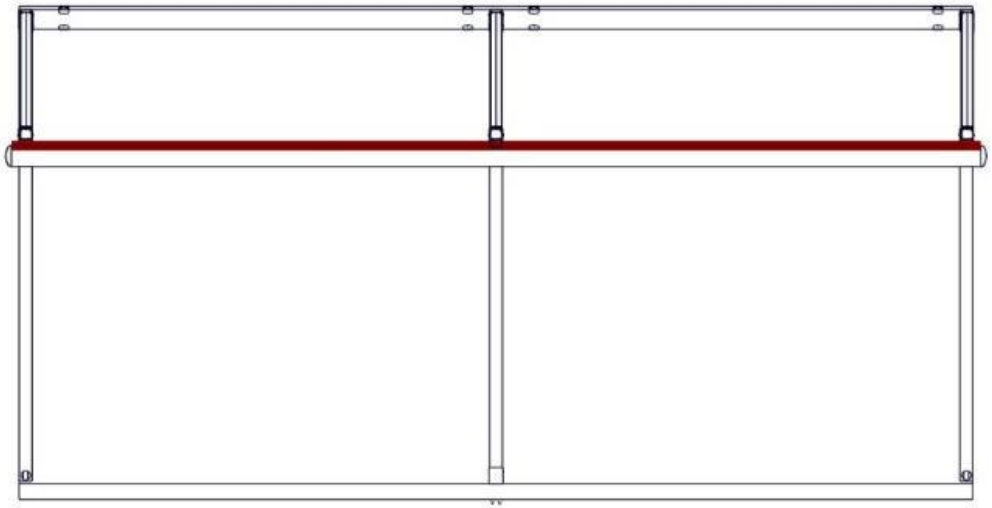




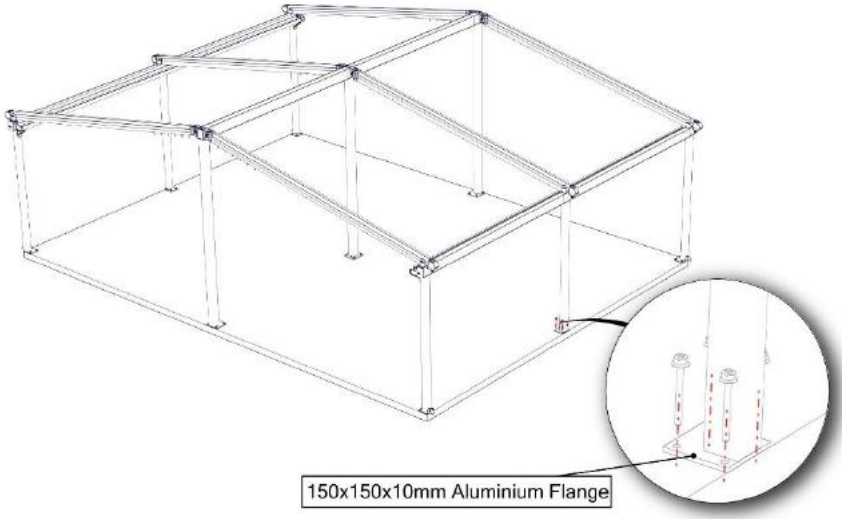
d. Cross Check and Level control:



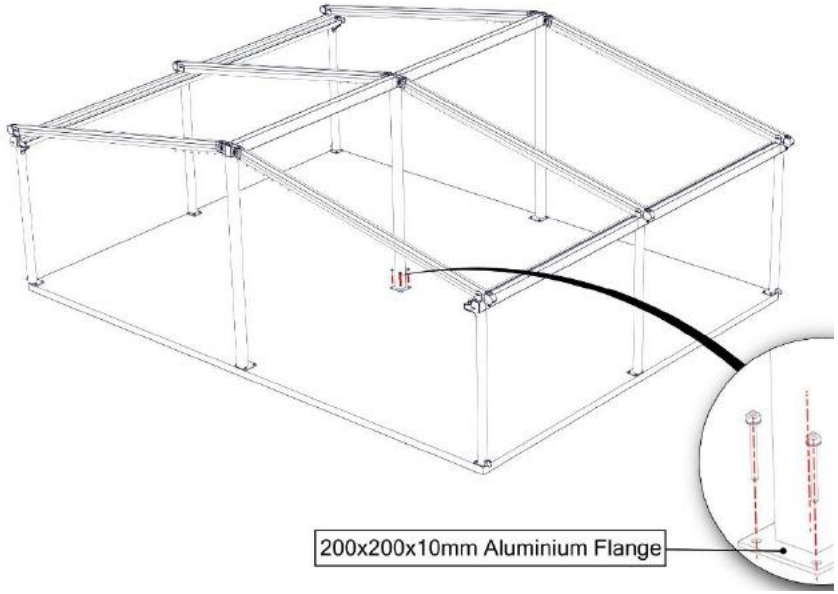




e. Front pillar – ground connection detail

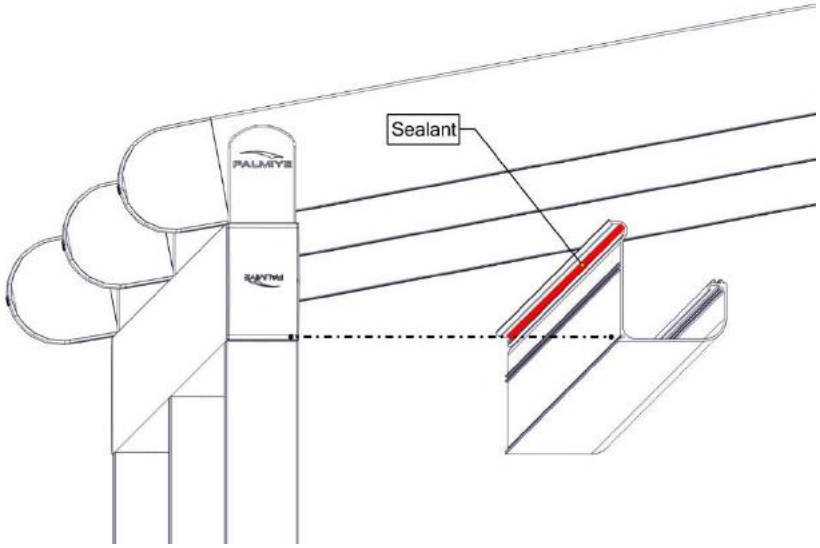


f. Back pillar – ground connection detail

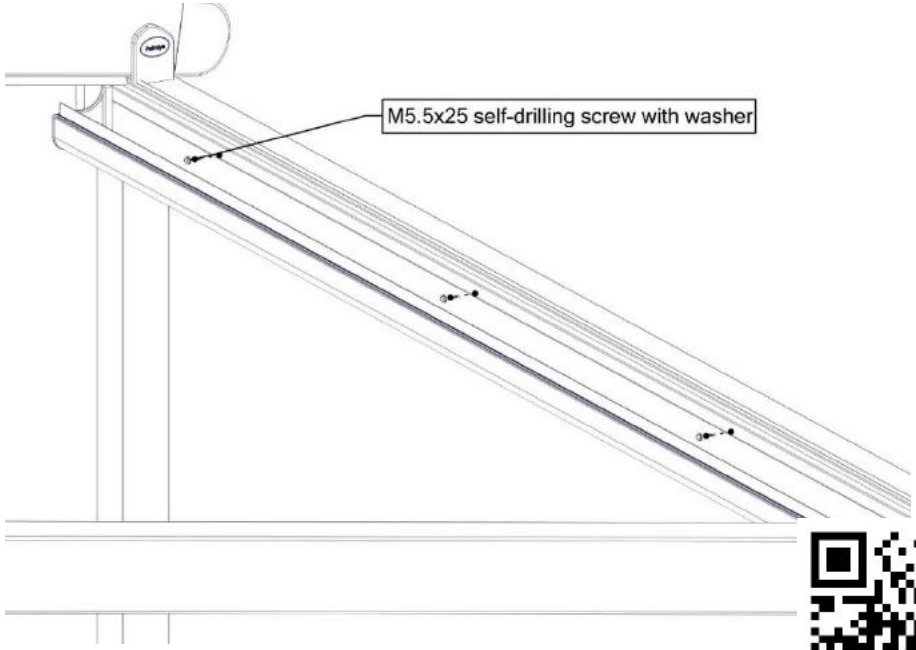


g. Gutter fixing

Apply to sealant behind of the gutter profile before of the install it.



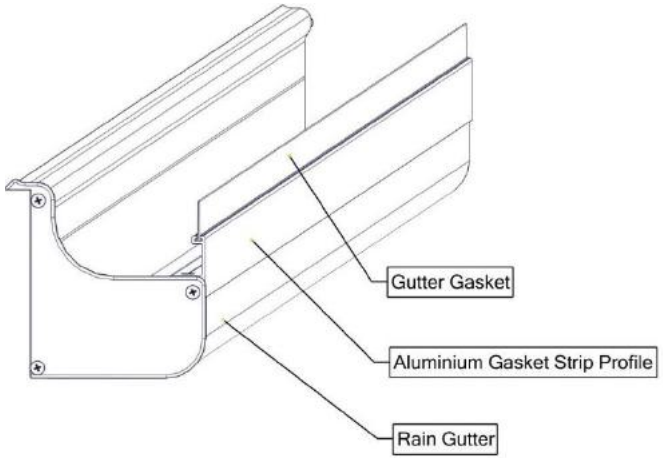
Carry out to self-drilling screw related line on gutter



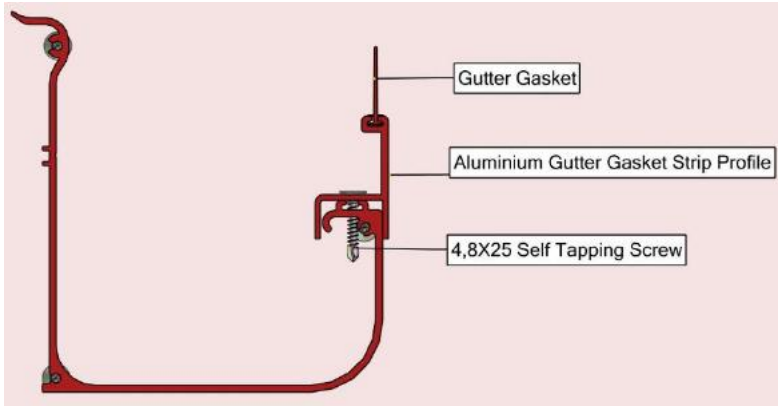
h. Gutter gasket types;

There is a 6 type gutter rubber size (Defined on your production document)

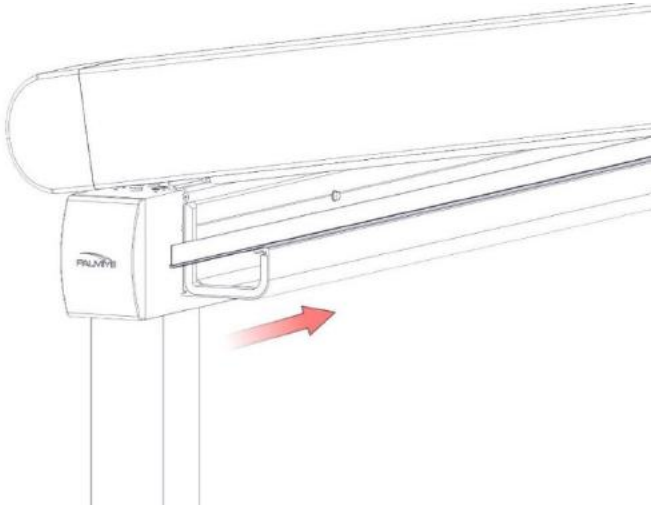
- SP130 = 30 mm only gutter gasket
- GS451 = 50 mm only gutter gasket
- 30 mm gutter gasket with 30 mm gutter gasket extension profile
- 30 mm gutter gasket with 50 mm gutter gasket extension profile
- 50 mm gutter gasket with 50 mm gutter gasket extension profile
- 50 mm gutter gasket with 30 mm gutter gasket extension profile



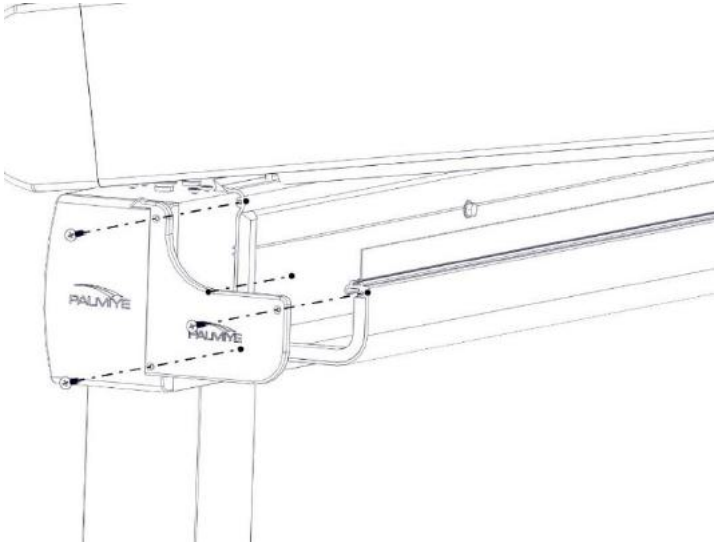
Applying type at below



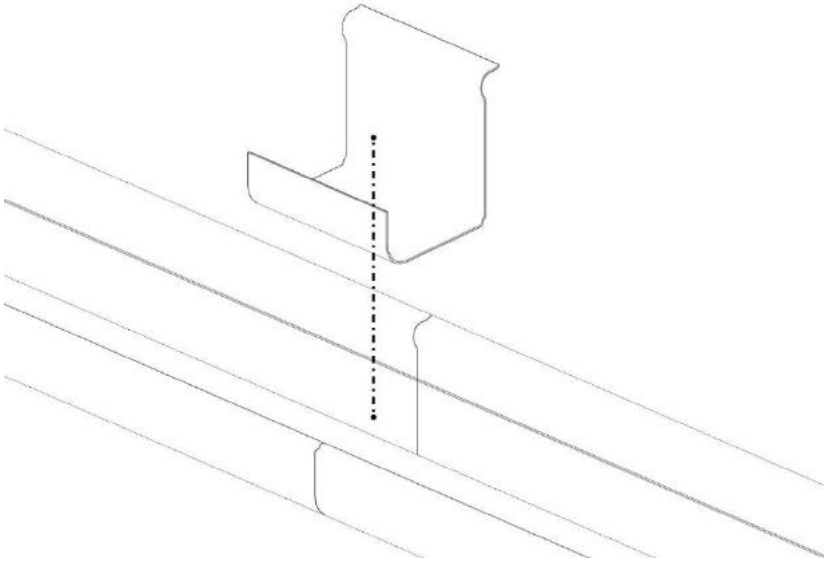
Place gasket to the gutter channel. Secondly, apply the adhesive glue as approximately 10 cm to gasket channel where is end of the gutter then the adhesive glue will dry. Pull back to gasket from other side. Thus, the gasket will stretched. At this time apply the adhesive glue on the other side of the channel on the gutter. Finally, cut the gasket with knife.



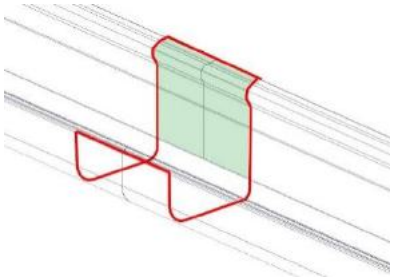
Place to cap and fasten the screws.

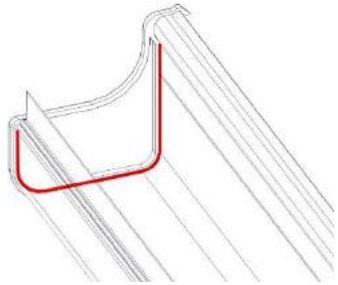


i. If you have more than 1 pc gutter profile you must use the gutter connector



Apply a sealant to gutter connector:



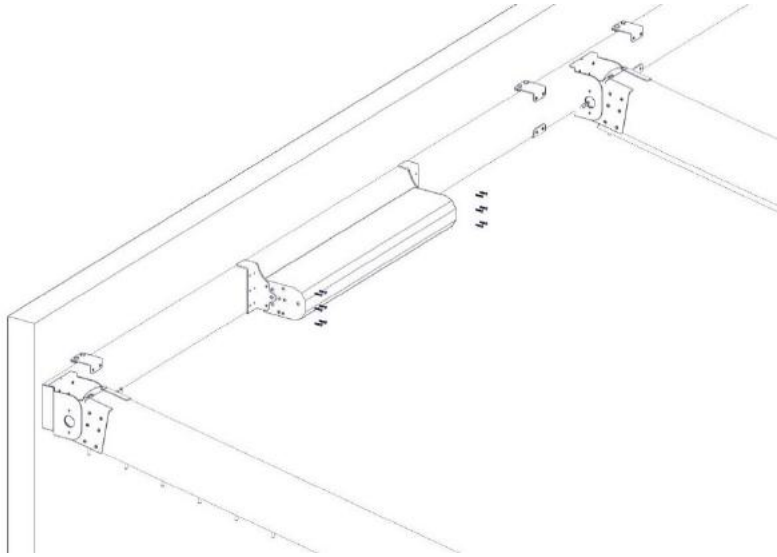


B. **MOTOR & FABRIC**

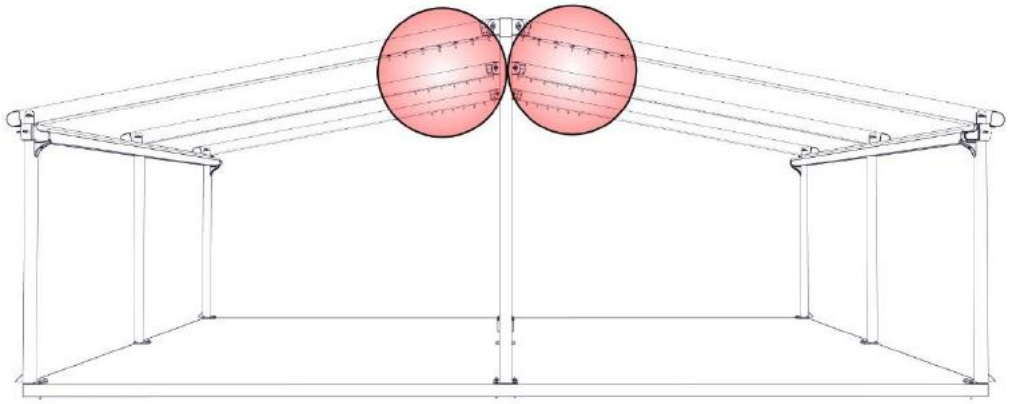
a. Motor Installation

i. Motor box fixing

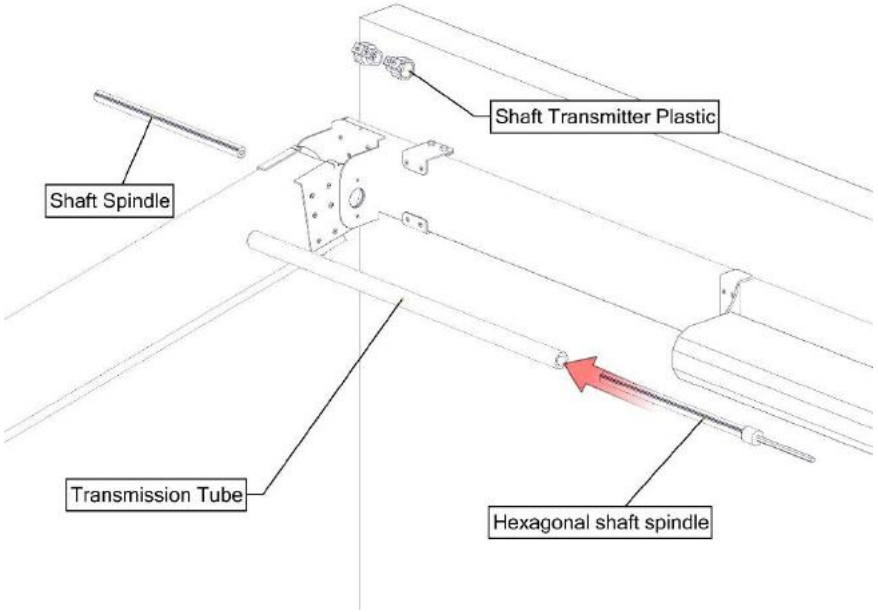
Motor box should be center of the between two rails.



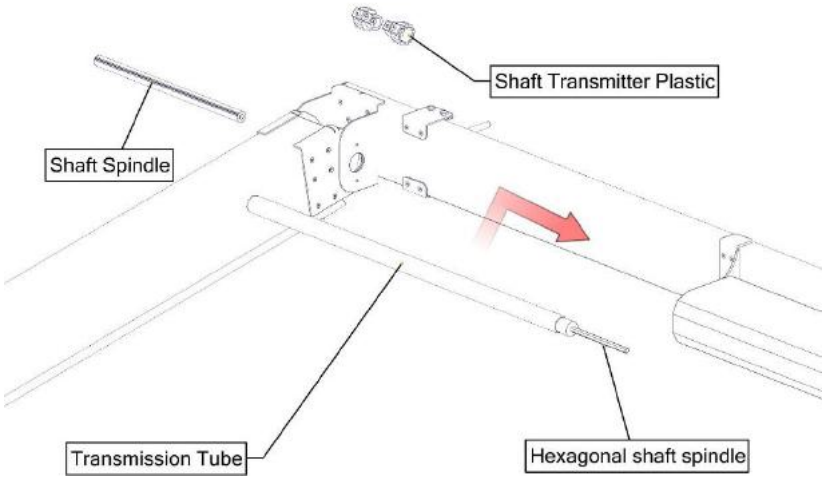
ii. All carriers must be on the rear.



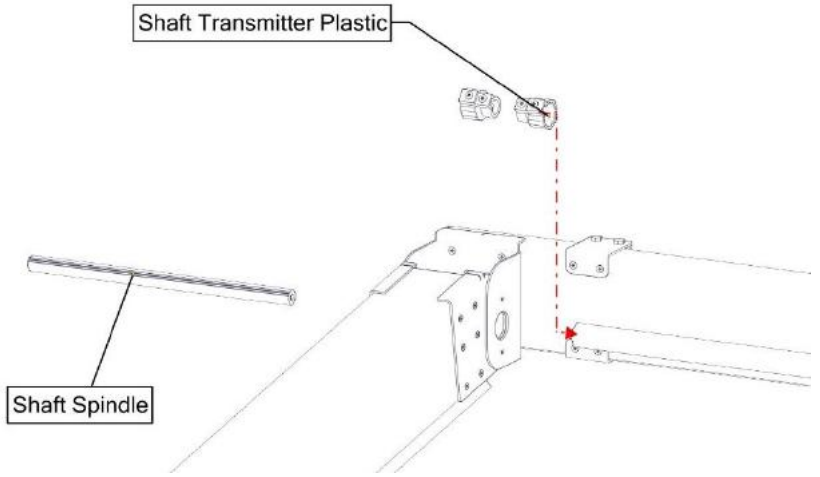
iii. Place a Hexagonal shaft spindle to transmission tube.



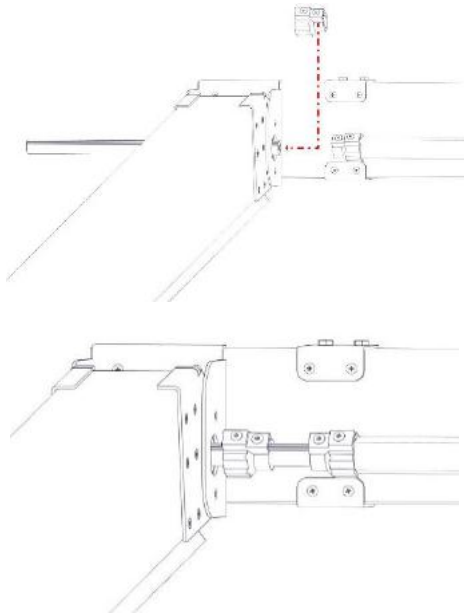
iv. Place hexagonal shaft spindle and transmission tube to inside of the motor as you see below figure.



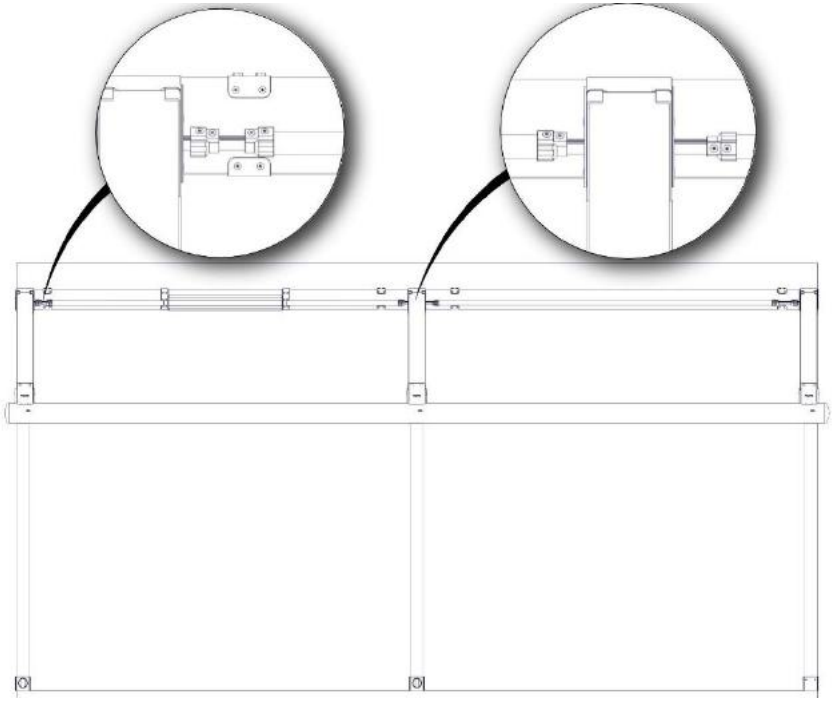
v. Insert a shaft transmitter plastic to transmission tube.



vi. Place a shaft spindle and insert shaft transmitter plastic to there.



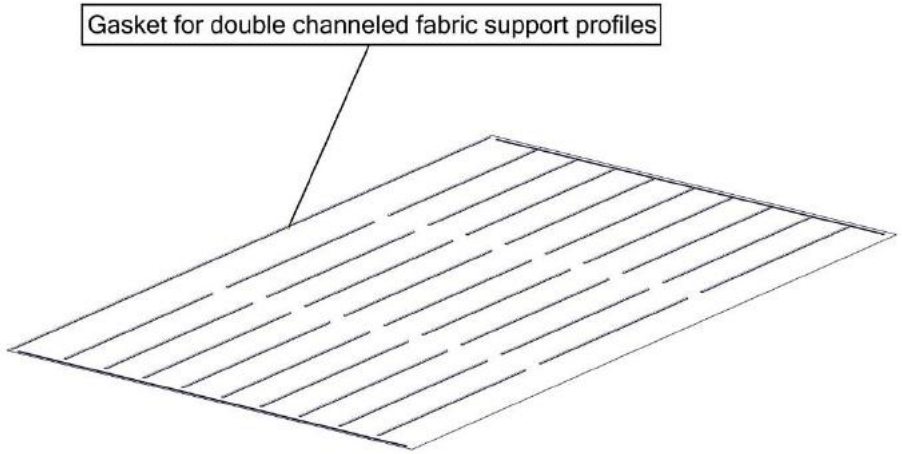
vii. Fasten bolts on shaft transmitter plastic.



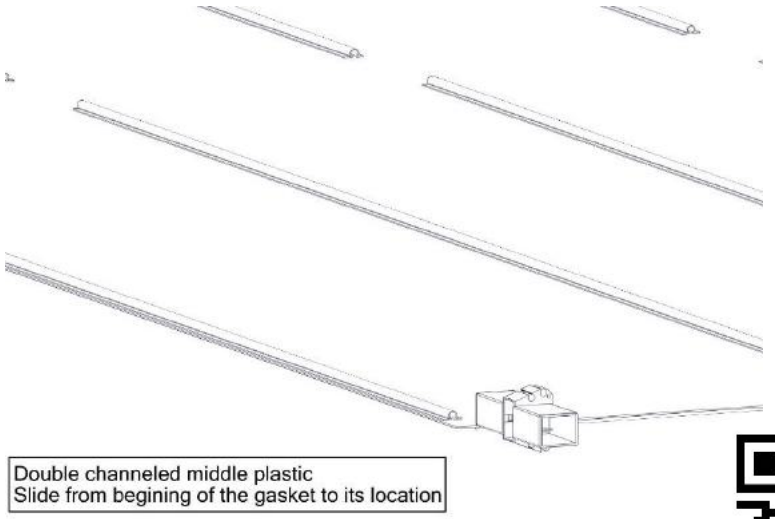
b. *<u>Fabric Installation</u>*

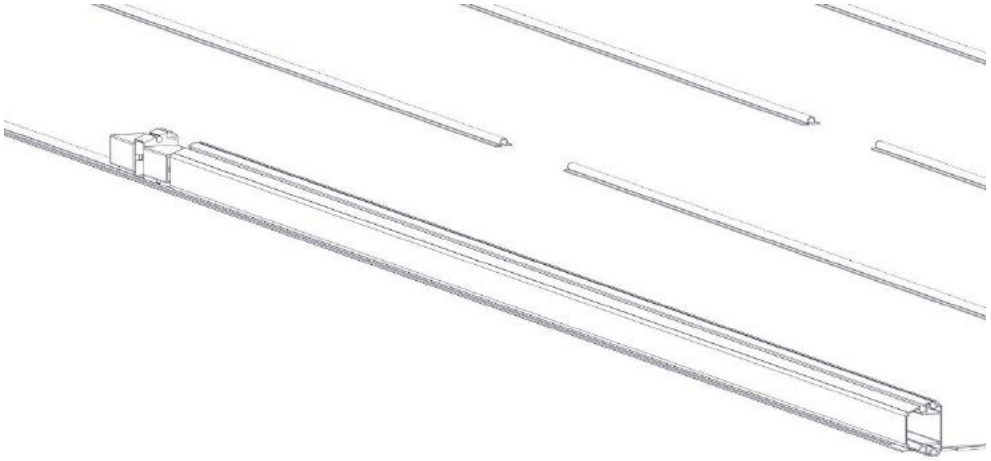
i. If the product width is bigger than 800cm. the fabric support profile doesn't install to the fabric. In this situation you must install the fabric support profiles to the fabric on site.

Double channeled fabric support profile's gasket goes to the end without any gap.



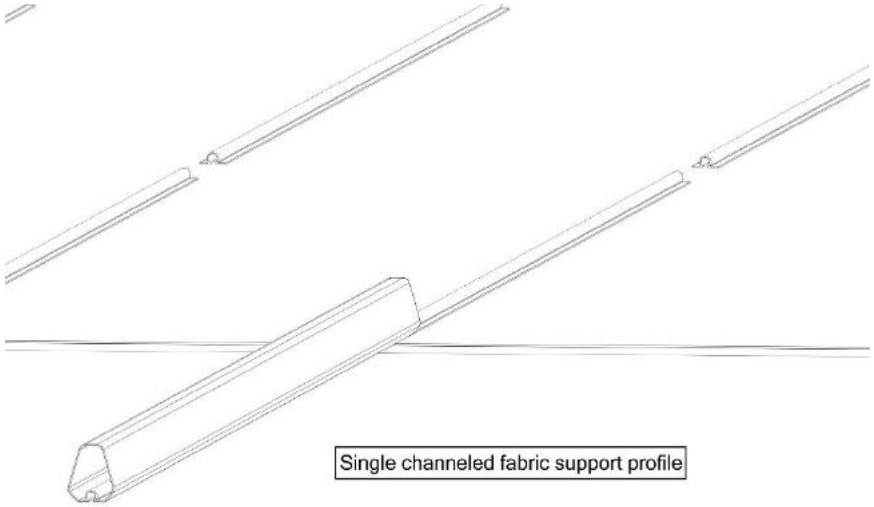
In this case, you must slide to middle plastics and middle fabric support profile from beginning to its location.



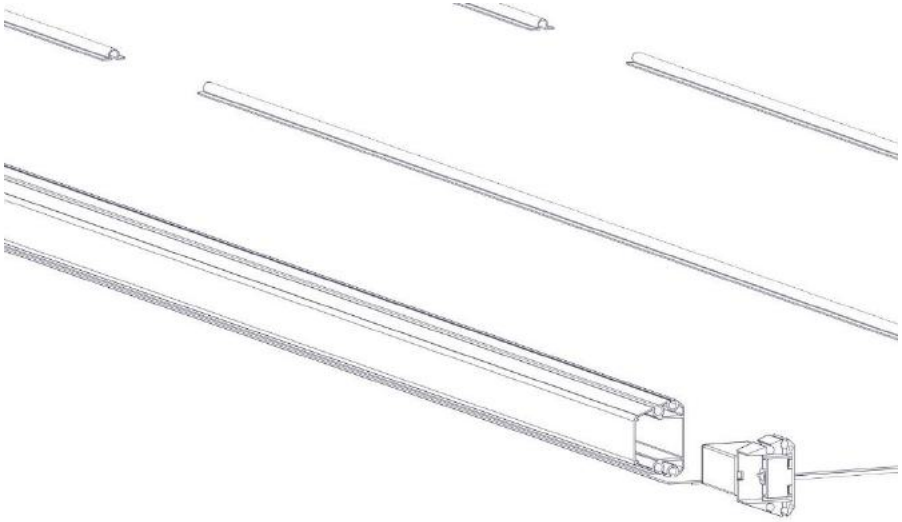


Double channeled fabric support profile

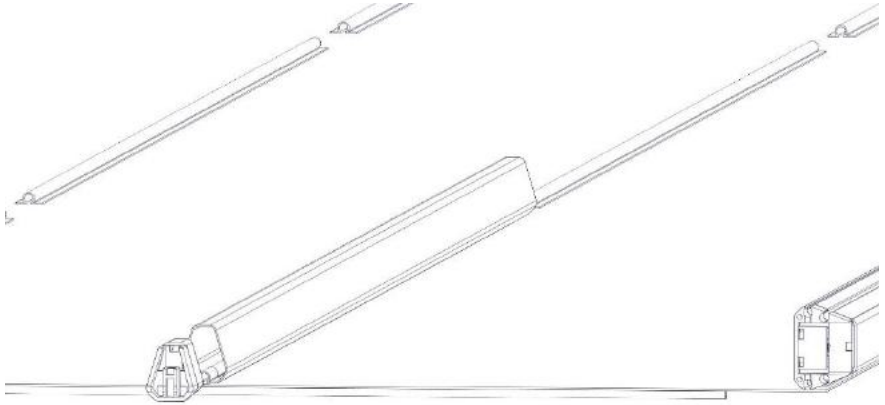
However, Single channeled fabric support profiles has designed a gap according to the rail position.



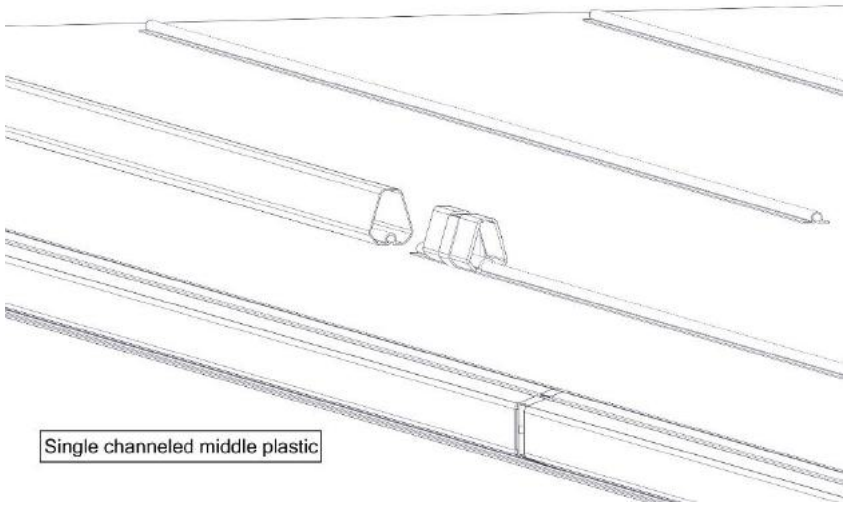
Single channeled fabric support profile



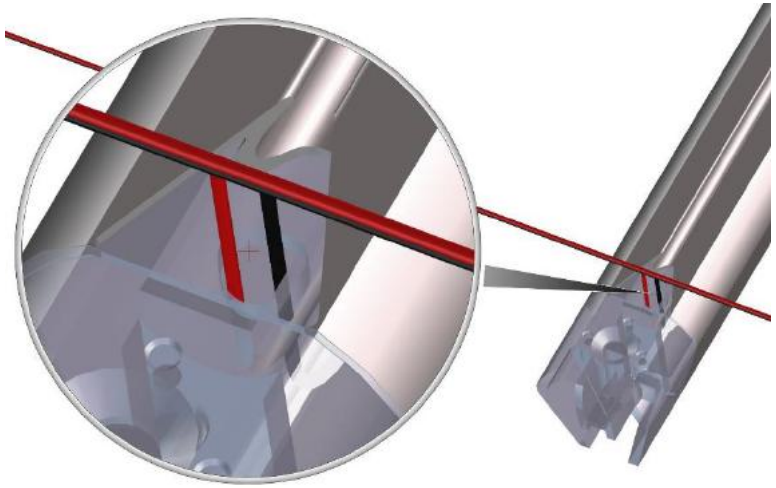
Double channeled side plastic



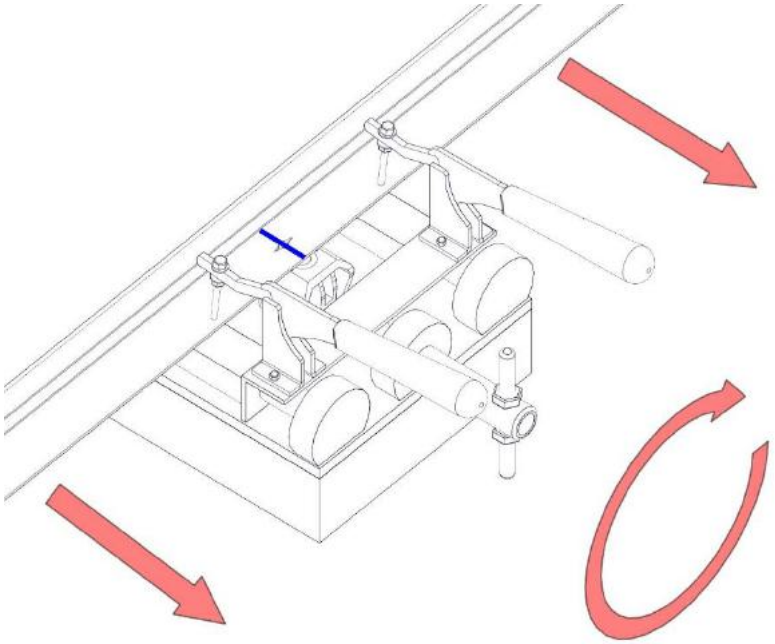
Single channeled side plastic



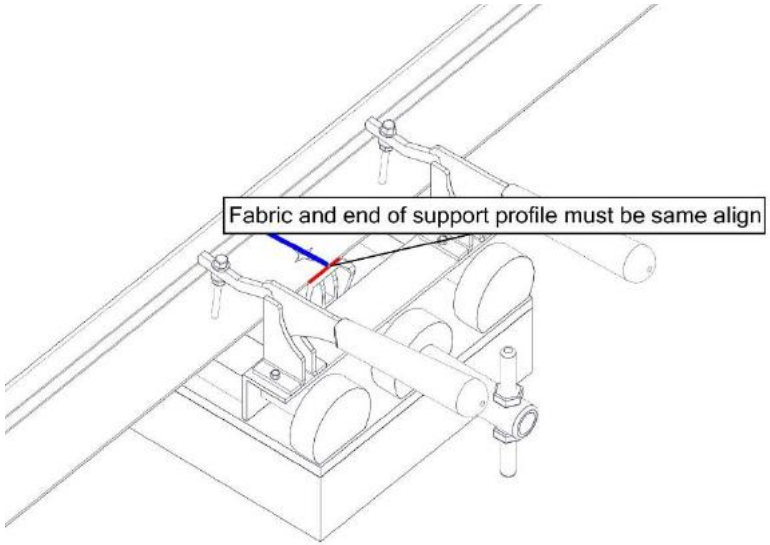
In order to Cabling, exiting hole can use it into the side plastic

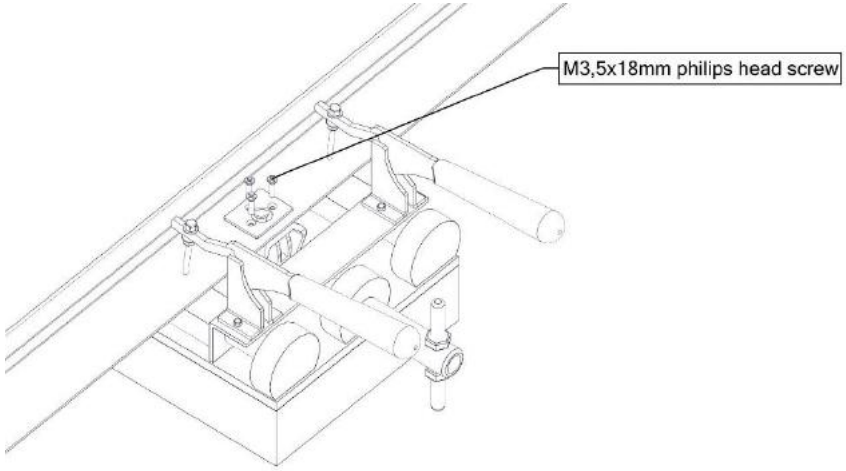


After that fabric should be stretch as an exactly. In order to this PALMIYE designed a special tools which is Fabric Stretching Equipment. The fabric pulls to the end of the fabric support profile it mean is a fabric has stretched.

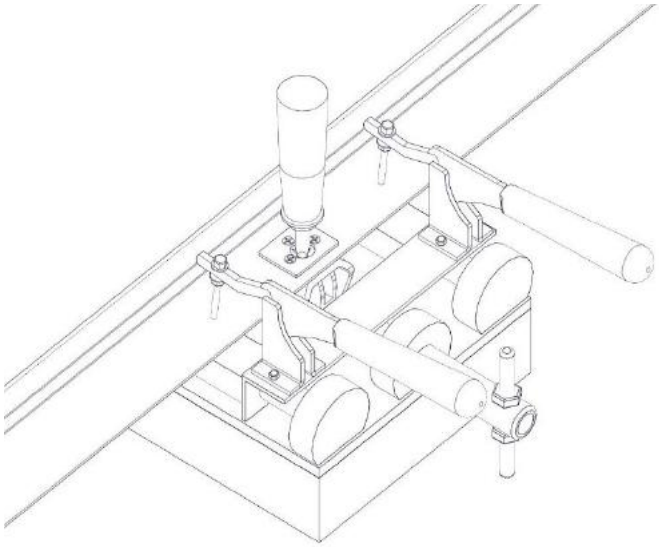


Then you are able to fix a fabric washer. The fabric washer's center hole defined on the fabric with line. You can use this reference line.



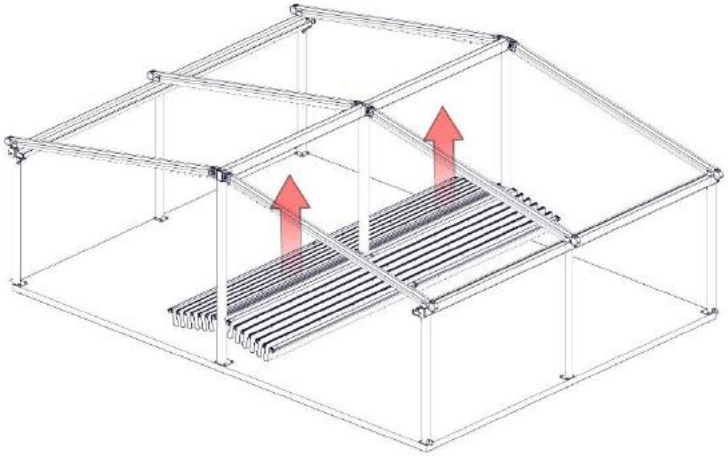


In order to install to the retractable pergola carriers there must be a hole. You should make a hole carefully.

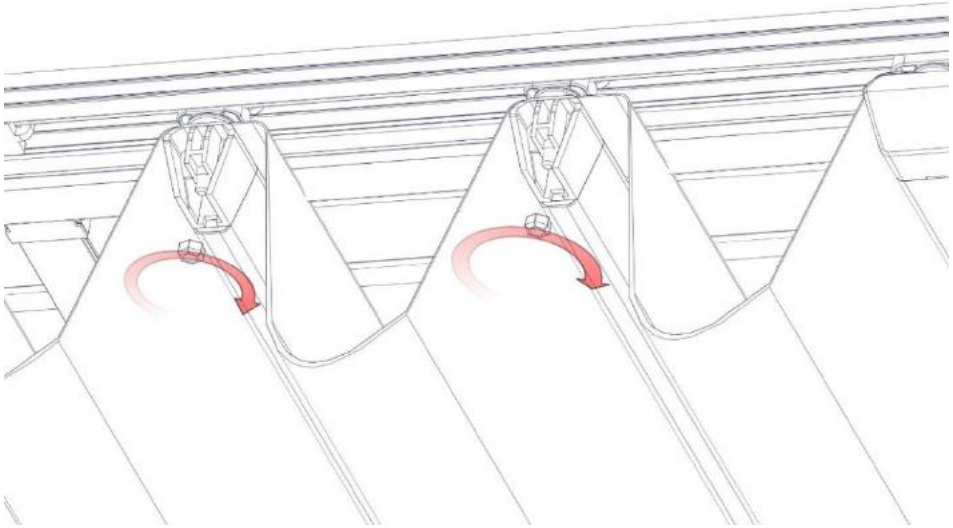


ii. When you stretched to whole fabric support profile the fabric will be ready to integrate to retractable pergola.

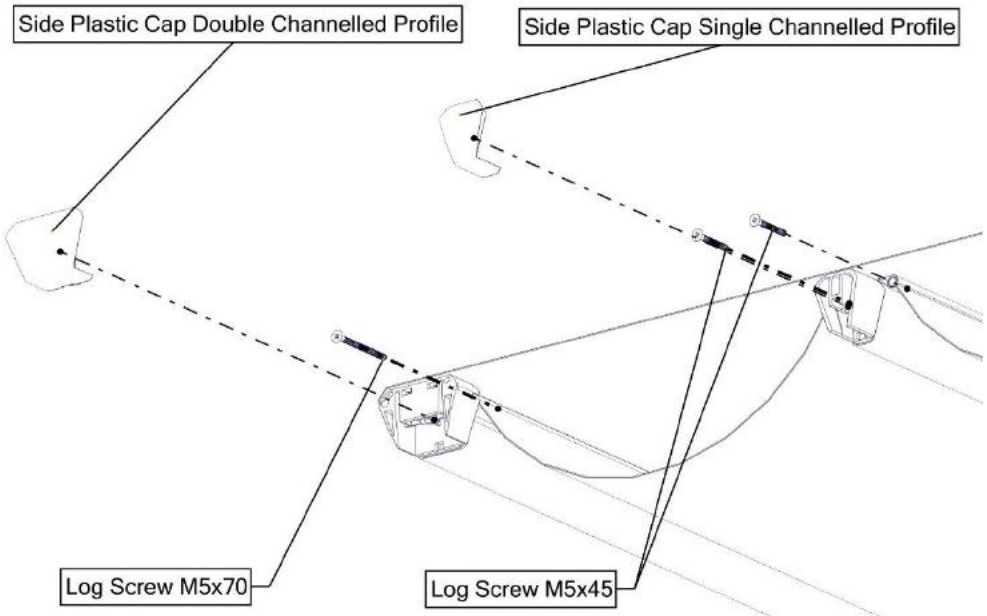
In this operation you should use to lift or our special fabric elevator. Thus, you are able to lift up without any damage to the fabric.



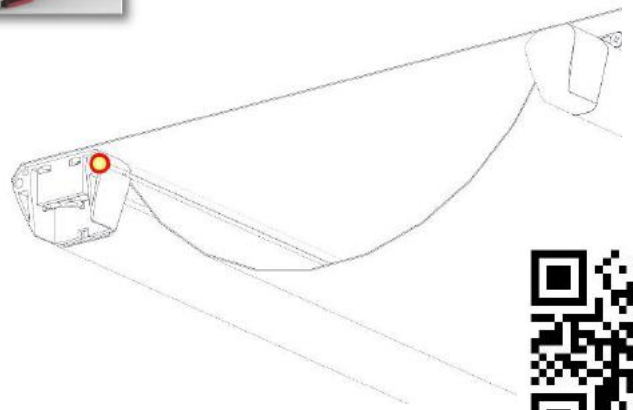
iii. While installing a fabric, you must fasten to nut simultaneously with same align fabric support profiles plastic.



iv. If you have a decorative fabric, you must follow the same operations. In addition, you should stretch to decorative fabric from both side of the fabric support profile.



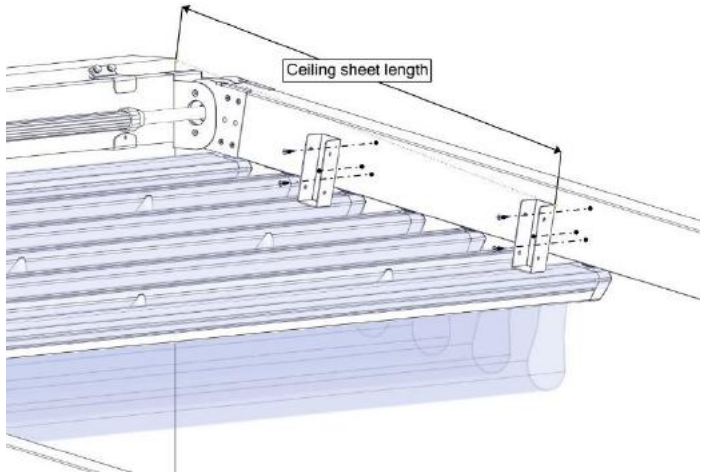
Fasten the M5x70 screw you should make a hole on all double channel fabric support profile as shown at below image.

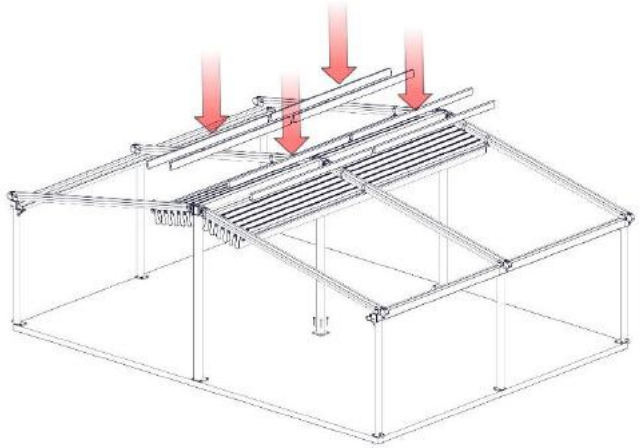


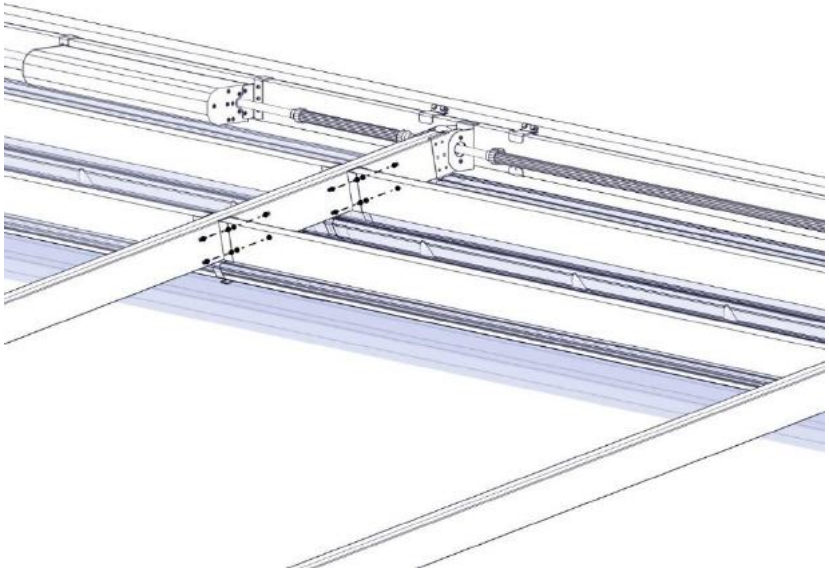
C. **CROSS BEAM & CEILING SHEET & SIDE BEAM INSTALLATION**

a. Cross beam installation:

In order to fix to the cross beam, you should define an exact U Bracket position. It means, firstly you have to check ceiling sheet length, after that you can place to U bracket according to that dimension.

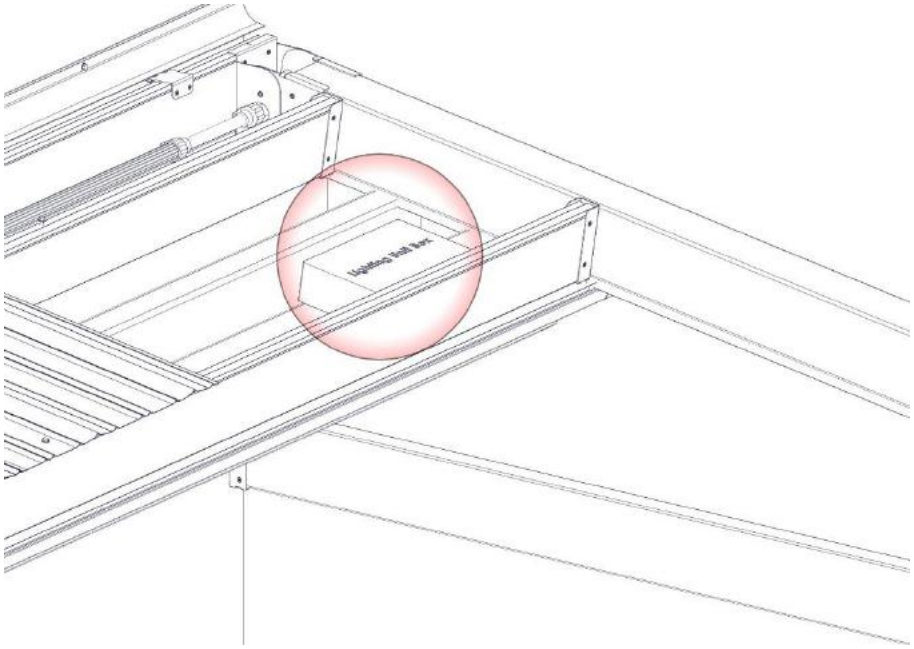






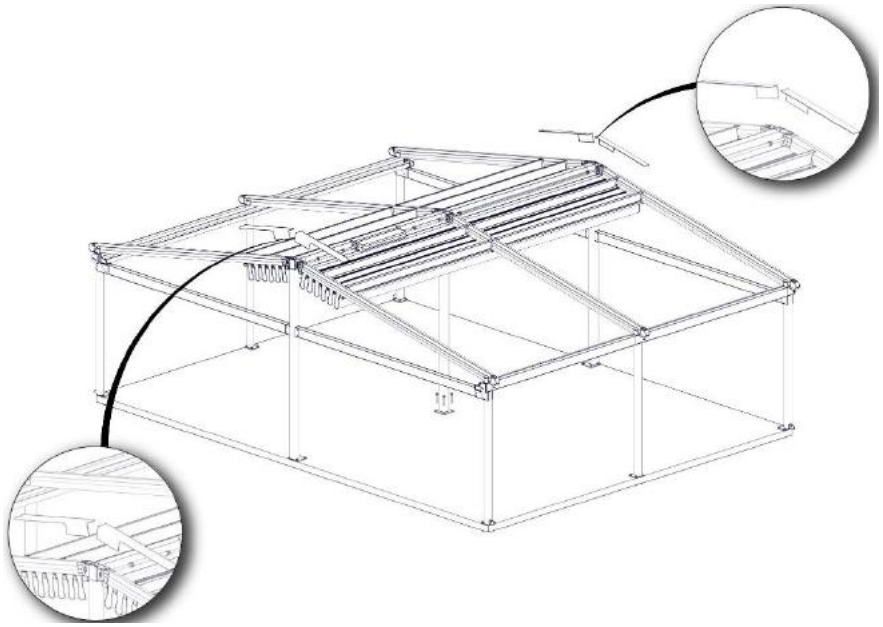
b. Control Box installation:

Also you can adapt a control box to the Cross beam as you find at below.

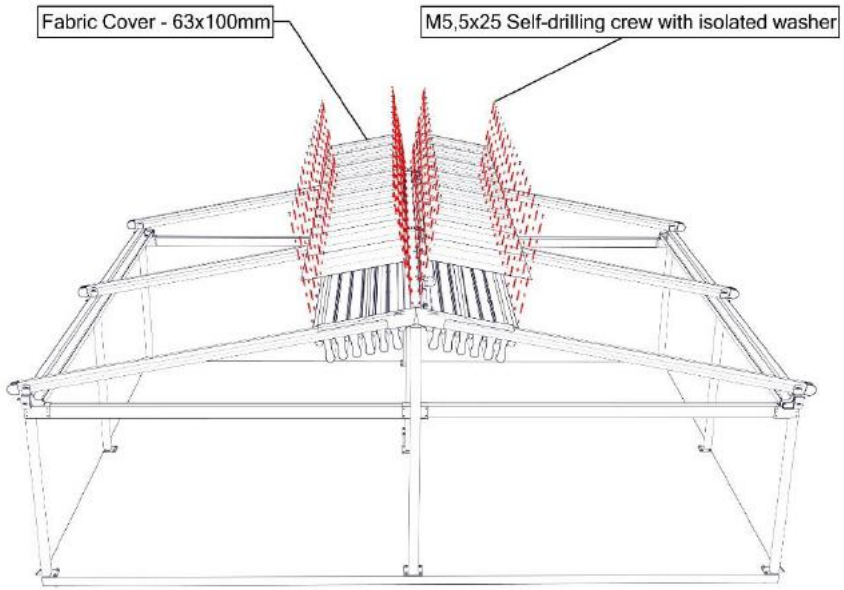


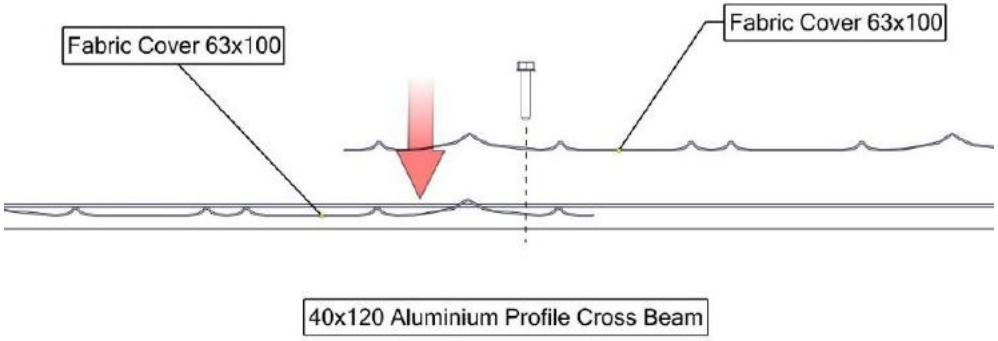
c. Fabric cover sheet installation:

Before of the ceiling sheet fixing, you can place to side cover profile;



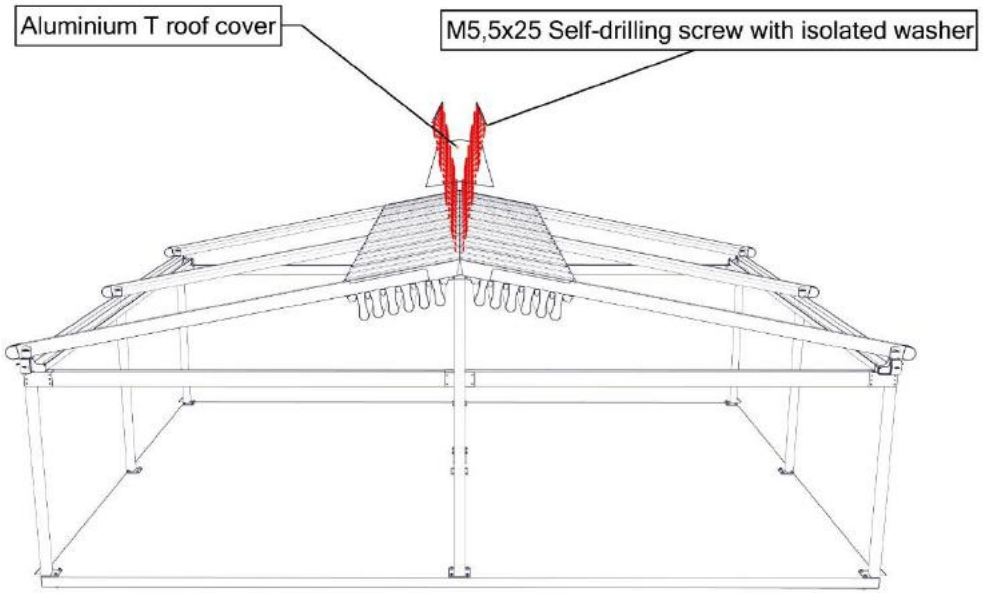
After that you can cover the ceiling sheets





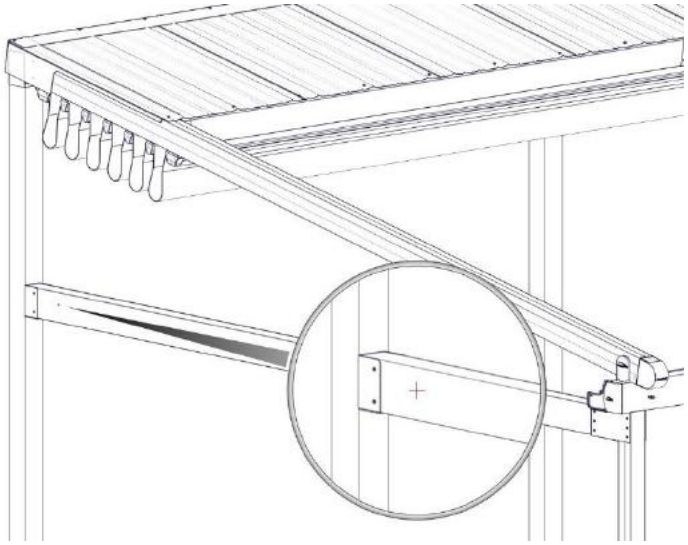
d. Top finish:

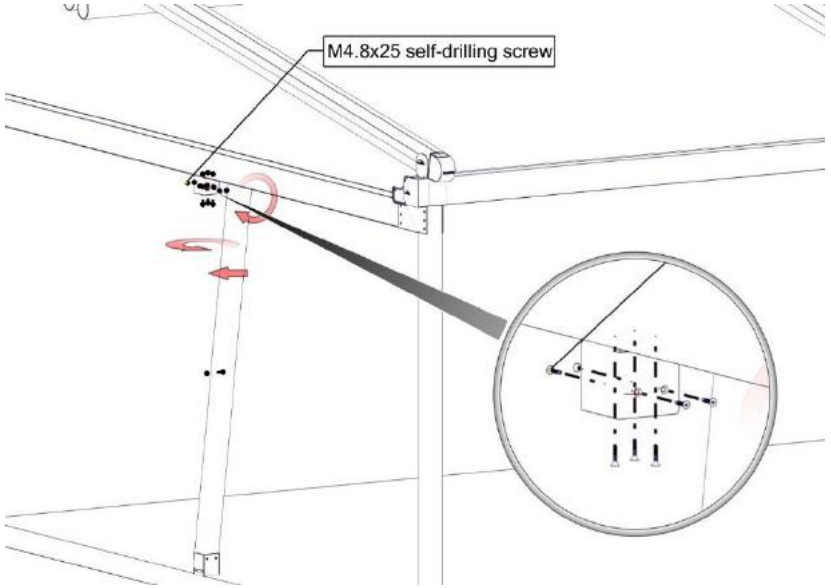
Top finish is T angle roof enclosure sheet



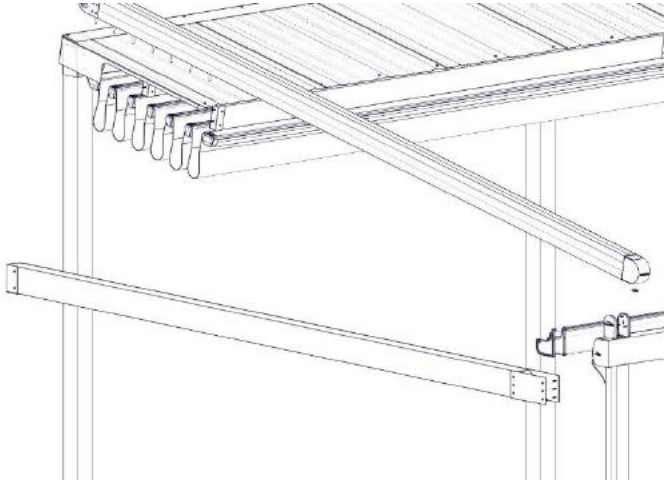
e. Side beam:

If using the fixed glass system on triangle of the pergola, you must not order to S3000 or S6000 glass profile bottom of the rail. Only F profile can use.





In addition, the side beam has to fix bottom of the gutter align.



f. Side beam pillar

D. Programming Instructions

a. Attention

The installation and initial setup procedures are the responsibility of a specialized technician.

When retractable pergola system is mounted, check the connection of drive system which is control box for double motor systems or connected to the single motor as directly.

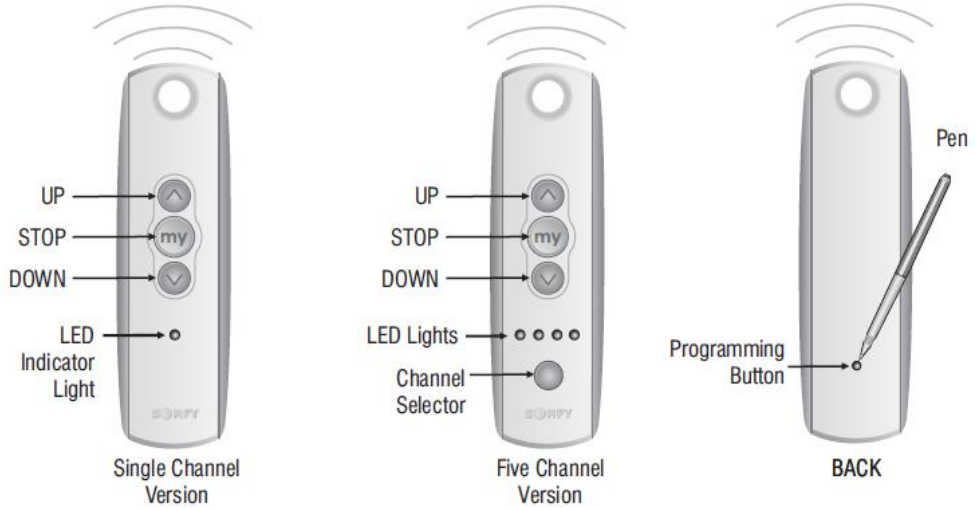
- All wiring must conform to NEC (National Electrical Code) and local codes.
- Power input:
  - For the double motor systems: The power has to connect to the Control Unit box.
  - For single motor systems: the power has to connect to the single motors.
  - For lighting system: The power has to connect to the Lighting Control Unit box.
- PALMIYE Reserves the right to void the motor warranty if wiring recommendations are not followed.
- The Motor Control Unit Boxes, Lighting Control Unit Boxes and also Single motors works only 230 V AC / 50~60 Hz.
- If you have another main voltage and frequency value you have to supply to 230V AC / 50~60 Hz.
- If the installation is made up of several RTS system, only one RTS system must be powered during programming. All other RTS systems must be disconnected. This will avoid interferences during the initial programming of each motor.
- Use only SOMFY RTS radio controls. *The receiver (433,42 MHz) must be programmed with transmitters.*

b. Remote Control Button Configurations

Gala Compact Twin is integrated with linear tube motor with radio control for opening, closing or stopping the fabric support profiles use the respective buttons (see figure).

There is a 3 type of remote control

- Telis 1 (has a only one channel. It means can control 1 RTS motor)
- Telis 4 (has a 5 channel. It means can control 5 different RTS motor)
- Telis 16 (has a 16 channel. It means can control 16 different RTS motor)



c. *Remote Types*

			
	TELIS 1	**TELIS 4**	**TELIS 16**
Channels	1	5	16
Battery Type	2430 Lithium		LR03AAA
Battery Voltage	3 V		1,5 V
Thickness	22		18
Width	49		47
Height	145		151
Colour	Silver		Silver & Pure
Compatibility	Compatible with a range of Somfy RTS enabled products		
	For indoor use		
Radio Frequence	433,42 MHz		
Radio Range	200m in open field or 20m through 2 reinforced concrete walls		
Protection Index	IP30		
Working temperature	0°C to +60°C		
Information	Shock-proof		
Installation	Wall brackets supplied		

Telis 16 RTS Pure
16 Channel Hand-Held Remote
1811081

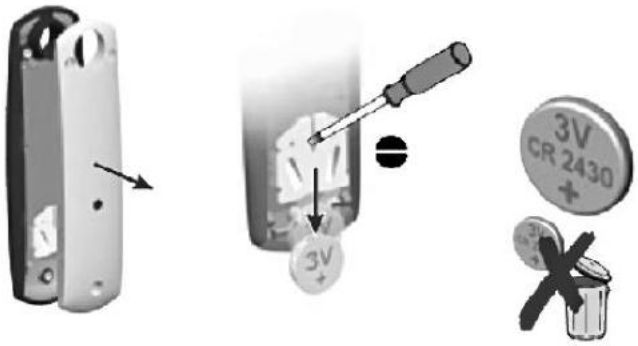
Also available in Silver finish

NOTE: The Telis 16 channel remote features an LCD screen that numerically displays what channel is selected.

Programming Button (recessed)

Back view of Remote

d. Replacing the Battery



1. Using a small screwdriver loosen the screws on the reverse side of the remote control and remove the back cover.
2. Replace the battery with one 2430 Lithium 3V Battery.

e. Single Motor Programming

Step 1: There isn't any control unit box at single motor products. Therefore, you are able to connect directly to electric power unit (230V). Notice the motor will not respond to any transmitter until a transmitter is assigned to communicate with the motors receiver.

Step 2: Please select desired channel then to assign the transmitter to communicate with the motor's receiver, push the "UP" and "DOWN" buttons on the transmitter SIMULTANEOUSLY, motor will jog. The OREA RTS motor records the address of this transmitter, and only this activated transmitter can be recorded into the memory of the OREA motor.

Step 3: Check direction of operation. The "UP" button must correspond to FRONT on the end-product. In the case of a pergola, it will stretch the ceiling cover of the pergola. If the direction is wrong, change the direction by pressing "MY" button until the motor jogs (3 seconds)

Step 4: Stop the motor at the desired BACK limit. Align the double channel fabric support profile to the cross beam.

Step 5: To set the BACK limit, press the "MY" and "UP" buttons SIMULTANEOUSLY for more than 2 seconds. Release the buttons once the product begins to move towards front of the Pergola.

Step 6: Press "MY" button and the motor will stop.

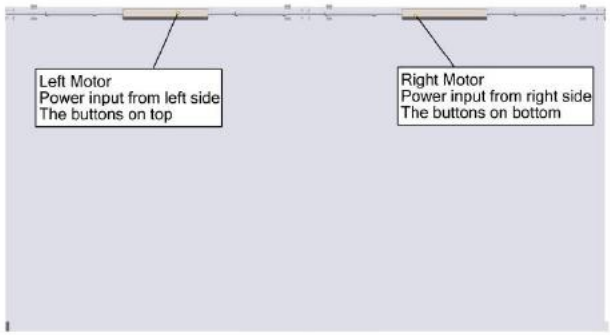
Step 7: Press "MY" button CONSTANTLY until motor jogs to confirm the settings (5 seconds)

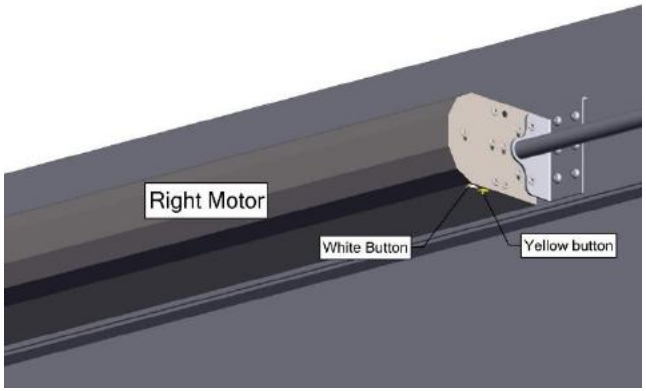
Step 8: Finally, press the "PROGRAMING BUTTON" on the back of the transmitter until the motor jogs (to leave the installation mode).

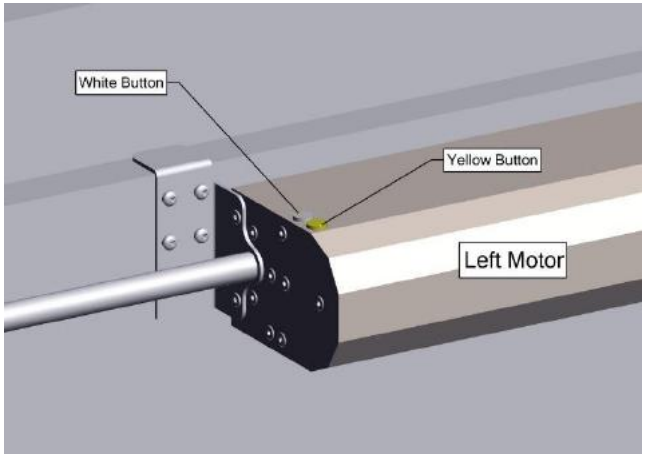
**Front limit doesn't need to be set for single motor product as the motor will stop automatically when fabric is stretch.*

f. Double Motor Programming

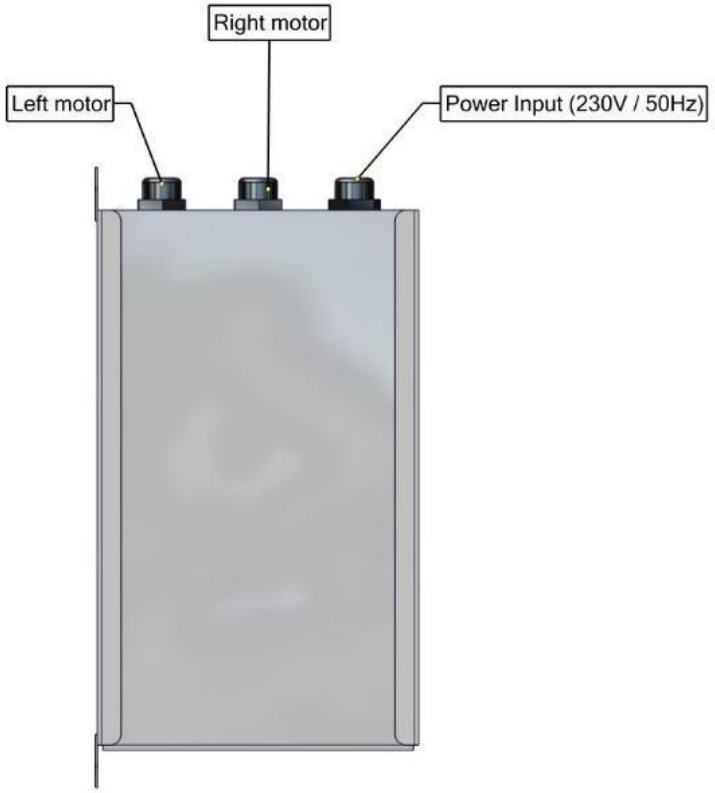
Step 1: Please have a look schedule of wiring diagram.







Step 2: Motor power cable must be collected on the motor control unit box as you see at below picture



Step 3: Move from “Auto” to ”0” button on the control unit box, motor will jog briefly.

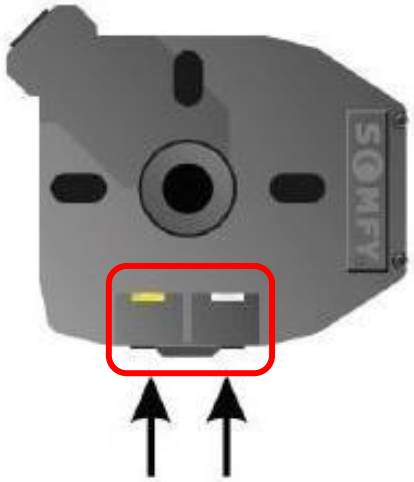
Step 4: Choose your desired channel on the Remote control

Step 5: Remove the cap of the Somfy control unit (Centralis UNO RTS) on the control unit box and press the “PROG” button until the motor jogs to be able to control the motors from the control unit box.

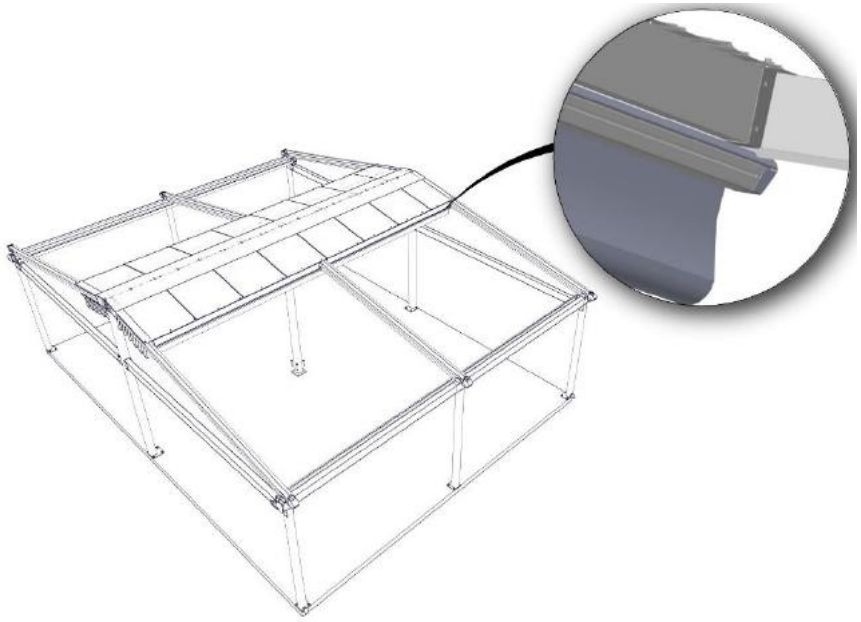
Step 6: Press and hold the PROG button back of the remote control, until motor will jog briefly.

Step 7: Move from "0" to "Auto" button on the control unit box, motor will jog briefly. Now, you can control to motor by your remote control.

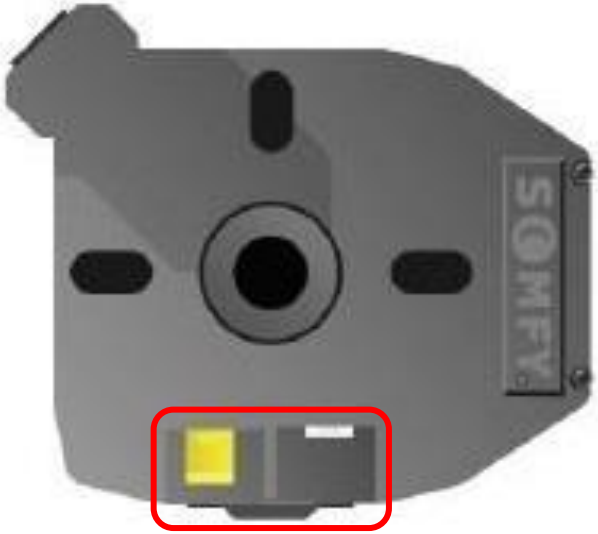
Step 8: Right and Left Motor has a switch (Yellow and White). Press both switch buttons on each motors until they lock in the down position (see below)



Step 9: Press the down button on remote control until the same align Cross beam reaches the required back position, then stop it.



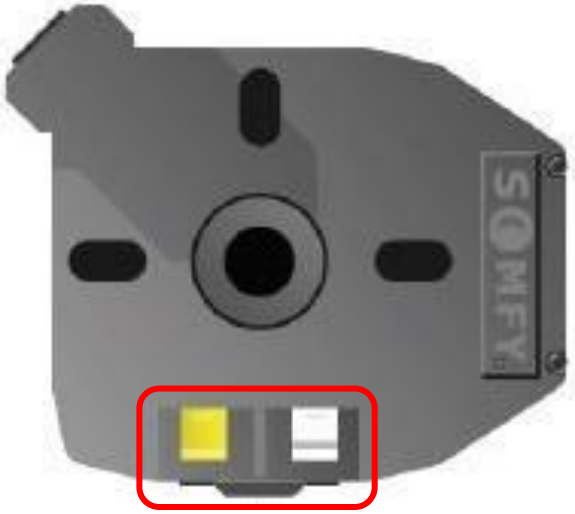
Step 10: Unlock the BACK limit switch (Yellow Button) on the <u>just one motor</u> head by pressing and releasing it. The back limit is now set.



Step 11: Check the back limit position. If the motors doesn't stop automatically Yellow button isn't true. You must return the last position to Yellow Button. Correct button is White button. Motor head by pressing and releasing it. The back limit is now set.

Step 12: Press UP button on your remote control the fabric will be reach to the front beam (Fabric will be stretch). Unlock the FRONT limit switch (White Button) on the <u>just one motor</u> (with same as back limited motor) head by pressing and releasing it. The front limit is now set

Step 13: Check the front limit position. If the motors doesn't stop automatically White button isn't true. You must return the last position to White Button. Correct button is Yellow button. Motor head by pressing and releasing it. The front limit is now set.



Lighting Programming

Step 1: Provide to power to the LED Lighting System Unit Control Box. The LED will light for 2 seconds.

Step 2: Select your desired channel on your remote. Press UP button and DOWN button simultaneously, the LEDs will light for 2 seconds.

Step 3: Press the PROG button on the back of remote control and the LEDs will light indicating the transmitter is memorized.

Resetting of Single Motor

Step 1: While provided power to OREA motor unplug for 2 seconds

Step 2: Plug in 10 seconds

Step 3: Unplug 2 seconds

Step 4: Plug in 10 seconds, the OREA motor will jog briefly

Step 5: Press and hold the PROG button on the back of Remote Control for more than 7 seconds until the OREA motor jog briefly 2 times. This removes ALL memorized motor transmitters.

Resetting of Double Motor

- Remove the cap of the Somfy control unit (Centralis UNO RTS) on the control unit box and press the “PROG” button around 15 seconds until the motor jogs.

Resetting of LED Control Panel

- While provided power to LED lighting System Unit Control Box unplug for 2 seconds
- Plug in 10 seconds
- Unplug 2 seconds
- Plug in 10 seconds, the LED starts to link in the 3 seconds interval.
- Press and hold the PROG button on the back of the remote control for more than 7 seconds until the LED blinks and the light flashes twice in succession. This removes ALL memorized LED transmitters.

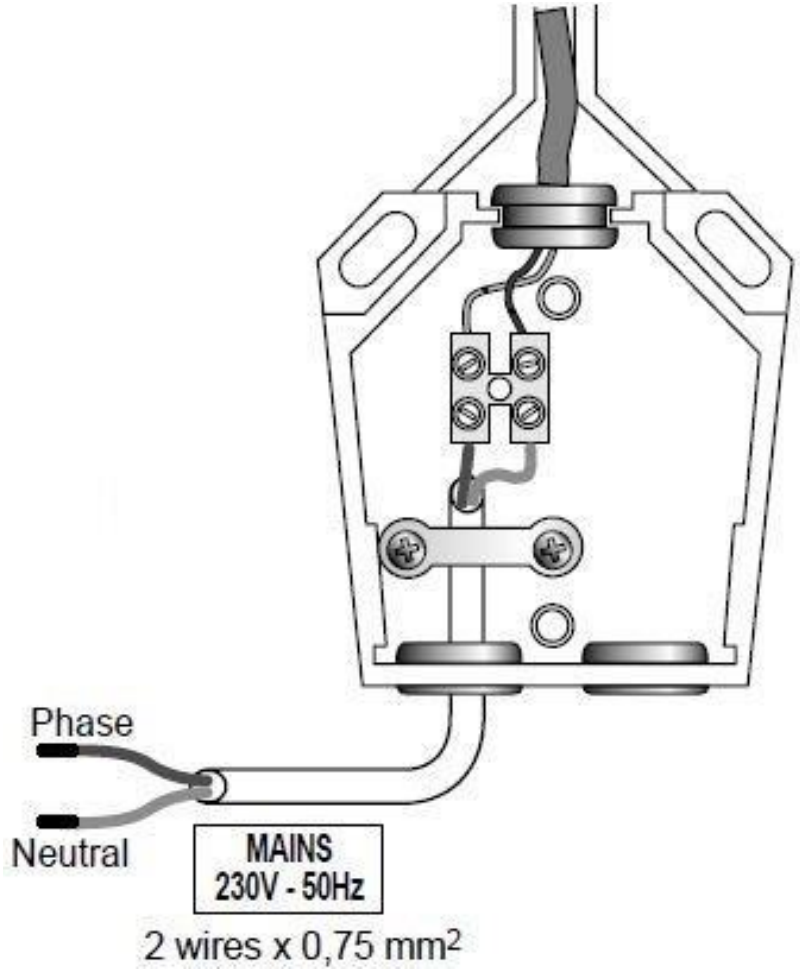
9. SENSORS & AUTOMATION

9.1. SENSORS

9.1.1. Single motor connection to EOLIS RTS (Wind Sensor);

- Somfy sensors designed according to the awning system working principle. Therefore, If you'd like to adapt a sensor you should change to the motor from Somfy Orea to Somfy Altus motor.
- On Altus Motor connection to EOLIS RTS Sensor (wind Sensor);

9.1.1.1. Cabling:



9.1.1.2. Programming;

The motor must be in its learning mode to record an EOLIS RTS Sensor.

Up to three EOLIS RTS Sensors can be memorized in a motor and one EOLIS RTS Sensor can be memorized in several motors.

- Enter the "learning" mode;
  - Press more than 2 seconds on the programming button of a RTS control which is already memorized in the motor.
  - Press briefly on the "prog" button of the EOLIS RTS Sensor.
  - The awning moves shortly (DOWN/UP).
- Record or delete a sensor;
  - Press briefly on the "prog" button of the EOLIS sensor RTS.
  - The awning moves shortly (DOWN/UP).
- Erase all the sensors and record a new one;
  - Press more than 7 sec. on the "prog" button of the new EOLIS RTS sensor.
  - The awning moves shortly (DOWN/UP)

9.1.1.3. Functioning;

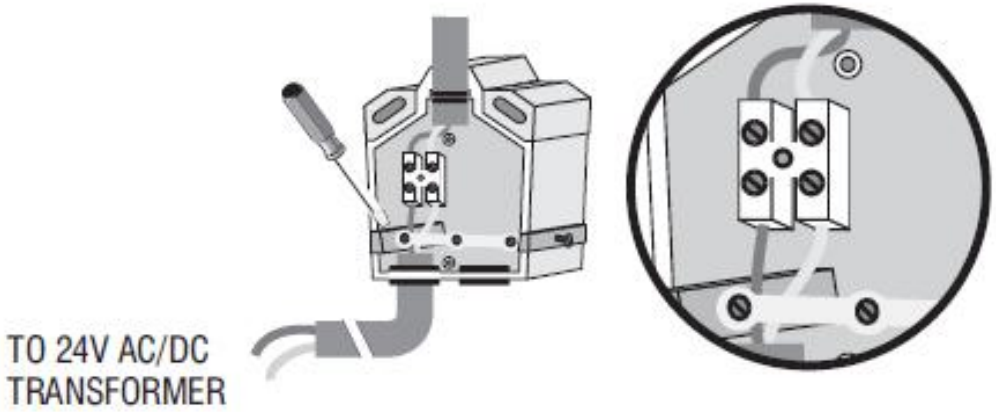
The WIND threshold can be adjusted by a potentiometer accommodate wind speed between 10 to 50 Km/h.

- When the wind speed exceeds the threshold set by the EOLIS sensor RTS, an UP order is given to the awning after 2 sec.
- As long as the measured wind speed is higher than the adjusted threshold, any order is inhibited.
- When the wind speed falls below the threshold setting, an order can be given with the RTS control after 30 sec.

9.1.2. Single motor connection to SOLIRIS RTS (Sun and Wind Sensor);

On Altus Motor connection to SOLIRIS RTS (Sun&wind Sensor);

9.1.2.1. Cabling;



9.1.2.2. Programming;

- The motor must be in programming mode to record a SOLIRIS RTS Sensor
- One SOLIRIS RTS Sensor can be memorized into several motors
- It isn't recommended to memorize more than 1 SOLIRIS RTS Sensor into motor's memory.
- To Enter the Programming mode
  - Activate the receiver's memory by pushing (for more than 2 seconds) the programming button of a transmitter already recorded in the motor's memory.
- To Record or delete a sensor
  - Press briefly on the programming button of the SOLIRIS RTS briefly sensor.
- To delete all the sensors and record a new one
  - Press for more than 7 sec. on the "programming" button of the new SOLIRIS RTS.

9.1.2.3. Operation;

- The SOLIRIS RTS Sensor controls and provides a measure of protection for a retractable pergola according to the sun and wind conditions. The WIND and SUN thresholds can be adjusted by two potentiometers, one for wind speed and the other for daylight intensity.
- The adjustment range is between 9 – 50 km/h (6 – 31 mph) for the WIND and between 0 to 50 kilolux for the SUN
- By using the SOLIRIS RTS Sensor it is possible to configure the functioning of the receiver (wind only or wind/sun). Please refer TELIS SOLIRIS RTS to the operating instructions.
- A short UP/DOWN movement of the retractable pergola indicates the modification of the sensor settings.

9.1.3. Single or Tandem system connection to SUNIS (Sun) sensor;

- IMPORTANT REMARKS BEFORE INSTALLATION
  - Expose the sensor 20min. to the daylight to initialize it's autonomous system (put the cells under the maximum daylight intensity)
  - To verify charging level of sensor, press briefly the Mode button: if LED lights=ready for use.
- FEATURES
  - Up to 3 sensors can be memorized in one motor, it could be combined with other RTS sensors (EOLIS RTS, SOLIRIS RTS)
  - One Sunis sensor RTS can be memorized in several motors
  - Supply: "SOLAR"
  - Autonomy: 24 hours without new daylight intensity.
- PROGRAMMATION
  - To proceed to programmation, sensor must be charged (refer to important remarks before installation step)
    - Enter the "Programming" Mode
      By pressing > 2 sec. PROG. button of Remote Control (for single motor) or Centrolis (for tandem system) until motor feedback.
    - Record a sensor
      By pressing briefly PROG. Button of sensor until motor feedback.

➢ SETTING INSTRUCTIONS

LED reaction in “DEMO” mode or “USER” mode.

THRESHOLD	USER MODE	DEMO MODE
Under sun level: RED LED	Continuos light during 5 sec.	Blinking light during 30 sec.
Over sun level: GREEN LED	Continuos light during 5 sec.	Blinking light during 30 sec.

- ➢ Enter the “DEMO” mode
  By pressing MODE button > 2 sec. > the light will start blinking for 30 sec. + feedback motor.
- ➢ Adjust the sun threshold with the potentiometer
  The blinking led will be green once you have reached the current sun level.
  The level you set will be the one to set off the sun function
- ➢ Verify the functioning
  Let the demo mode works (if no sun, use a lamp)
- ➢ Enter the “USER” mode
  By pressing MODE button > 2 sec. > feedback motor

- DEMO mode will move back automatically after 3 min. in USER mode

➢ MOUNTING INSTRUCTIONS

- ➢ Make sure to install sensor vertically and in place where solar cells can catch daylight intensity.
- ➢ Sensor delivered without screws, use the screw adapted to your wall support

➢ SUN FUNCTIONNING

Use the Telis with sun function to activate or deactivate the sun function (Telis Soliris RTS, Telis Modulis Soliris RTS.)

Manual Mode: Sun function deactivated

Automatic mode: Sun function activated.

o Sun appearing

When the intensity of the daylight exceeds the threshold set by the Sunis sensor RTS, a Down order is sent to the blind after 2 mins. The blind goes to the MY position or to its down end limit position if no My position has been memorized.

o Sun disappearing

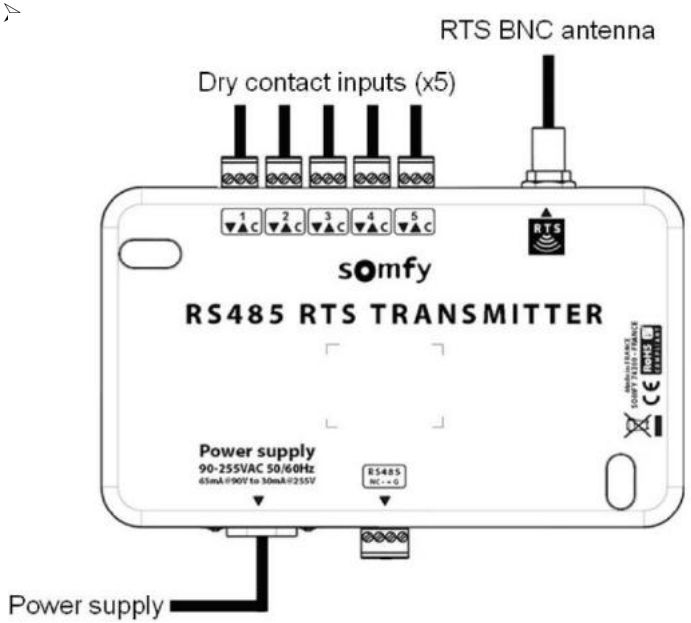
When the daylight level fails below the threshold setting, a variable time delay from 12-30 mins. is activated (depending on the sun presence duration). After this time delay, an UP order is given to the blind.

➢ READJUSTING

ADJUST THE SUN LEVEL WITH THE POTENTIOMETER ACCORDING TO YOUR WISHES	
1 turn to left (-)	2 Turn to right (+)
LESS sun is needed to lower the blind	MORE sun is needed to lower the blind

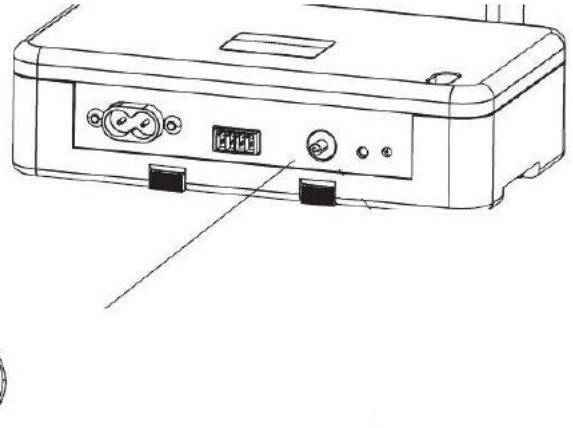
9.1.4. Single motor connection to ONDEIS (Rain) sensor;

- Rain sensor requires a dry contact input. Our single motors (OREA or ALTUS) works with RTS.
- In order to use ONDEIS rain sensor you must use Dry contact transmitter.
- The RTS motors can communicate with dry contact transmitter or RS485 (multiple dry contact transmitter. Up to 5 channel.) Then dry contact transmitter communicate with ONDEIS Rain Sensor and also RTS motors.
- The Ondeis rain sensor has a two cable output. One cable must go to main voltage (230V/50Hz) and other is dry contact signal cable.
- You must joint rain sensor dry contact cable to RS485's channel input jacks (from 1 to 5)
-

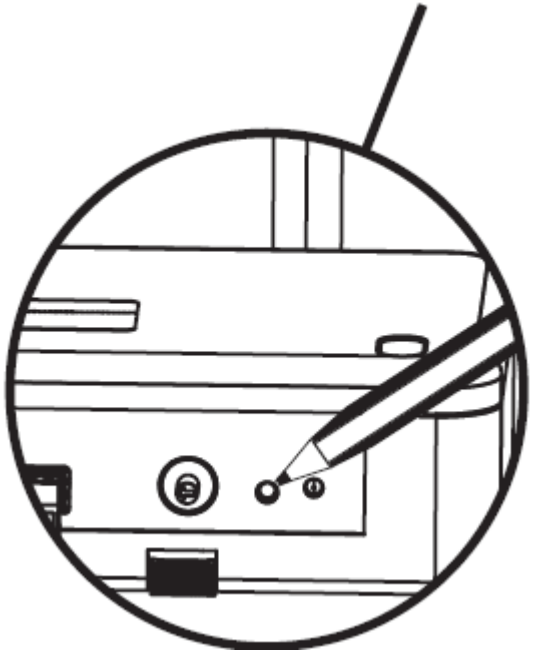


When you plug all cables now you can program to rain sensor.

- Select the RTS address on the channel selector corresponding to dry contact connectors.

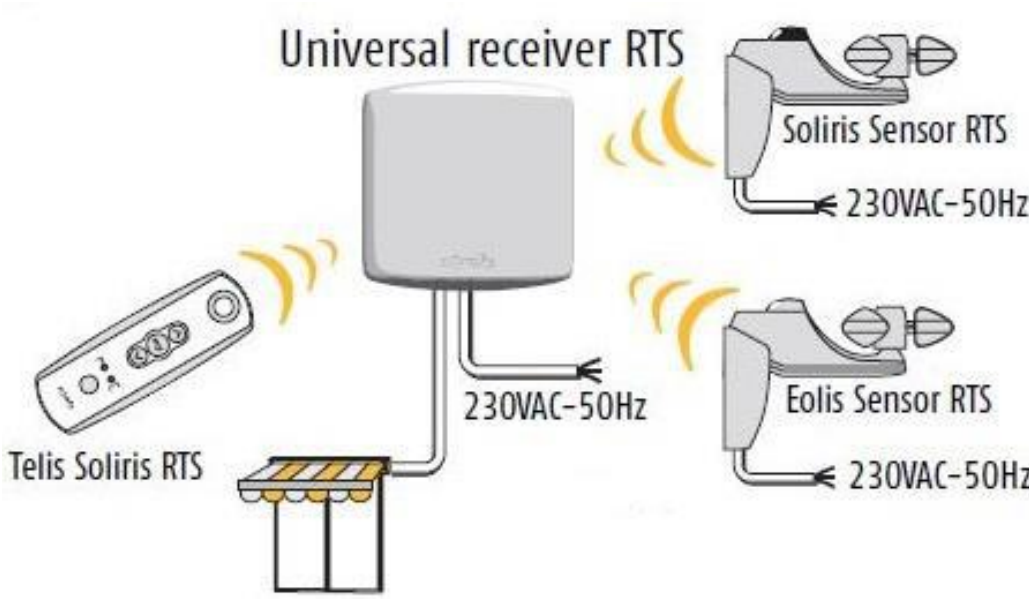


- Press to PROG button on your remote control
- Then press PROG button on RS485 or Dry Contact Transmitter.



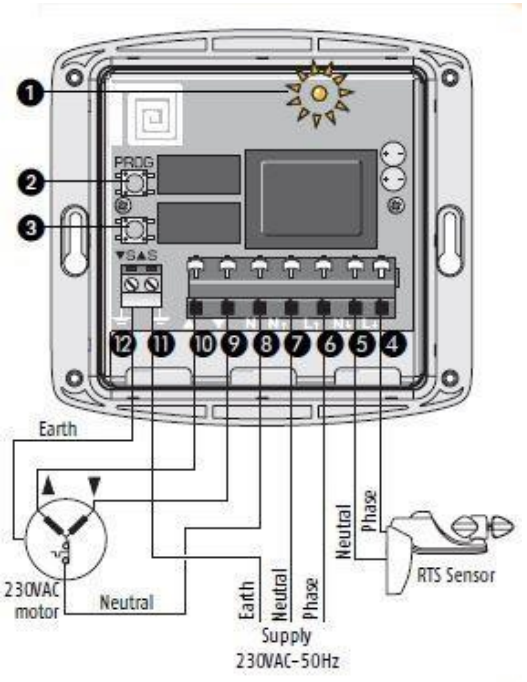
9.1.5. Tandem system connection to EOLIS or SOLIRIS sensor

We uses the Universal RTS Receiver on Tandem motors system. The Universal receiver RTS is compatible with all standard SOMFY wired motors. Cabling arrangements are shown in the diagram. Up to 3 sensors can be memorized to one receiver to optimize weather detection and up to 12 transmitters can be recorded.



9.1.5.1. Universal receiver RTS inside description:

1. Prog. LED
2. Prog button
3. Test button
4. Sensor live (brown)
5. Sensor neutral (blue)
6. Power supply live (brown)
7. Power supply neutral (blue)
8. Motor common
9. Motor DOWN
10. Motor UP
11. Power supply earth (yellow/green)
12. Motor earth (yellow/green)



9.1.5.2. Programming;

- Installing or Removing a Transmitter;
  - Enter Programming Mode;
  - Press the programming button of the Universal Receiver -> 2sec until the motor feedback and LED lights
- Record/Delete the transmitter
  - Press briefly prog button on the back of the transmitter -> motor feedback / LED of receiver blinks.
- Installing or Removing a Sensor;
  - Enter Programming Mode;
  - Press the programming button of the Universal Receiver -> 2sec until the motor feedback and LED lights.
- Record/Delete the transmitter
  - Press briefly prog button of the sensor -> motor feedback / LED of receiver blinks
- Removing all the controls and the sensors from the memory of the receiver
  - Press the programming button of the Universal Receiver -> 7 sec until blinking of the LED and and 2 motor feedbacks.

9.1.6. Tandem systems connection to ONDEIS (Rain) Sensor

Rain sensor requires a dry contact input. Our tandem systems has a synchronizing control unit box. That box ensures that both motors works simultaneously.

Also, these motors not RTS motors. That's why there is Centrolis.

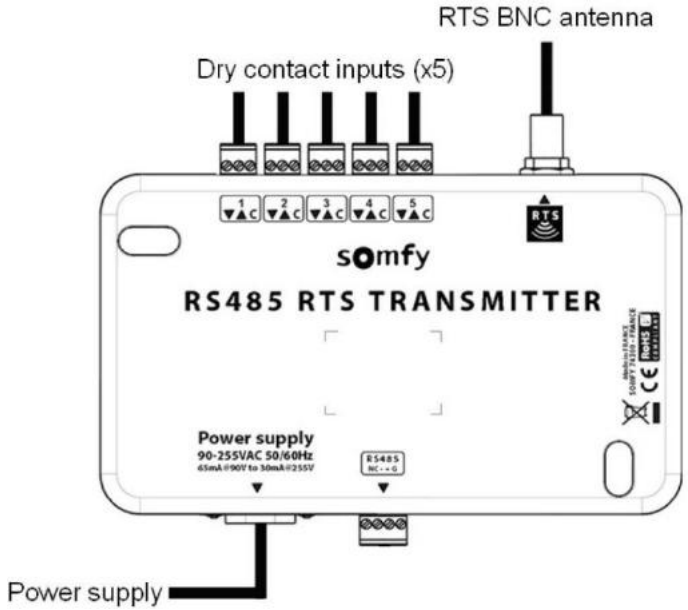
The Centrolis ensures that communication between transmitter and synchronizing control unit box. But, it can't communicate between rain sensor and synchronizing control unit box. The ONDEIS rain sensor can send a signal as dry contact signal.

In order to use ONDEIS rain sensor you must use Dry contact transmitter. That's why you must change the Centrolis with UNIVERSAL RECEIVER RTS in Synchronizing control unit box.

The Universal Receiver RTS can communicate with dry contact transmitter or RS485 (multiple dry contact transmitter. Up to 5 channel.) Then dry contact transmitter communicate with ONDEIS Rain Sensor and also synchronizing control unit box.

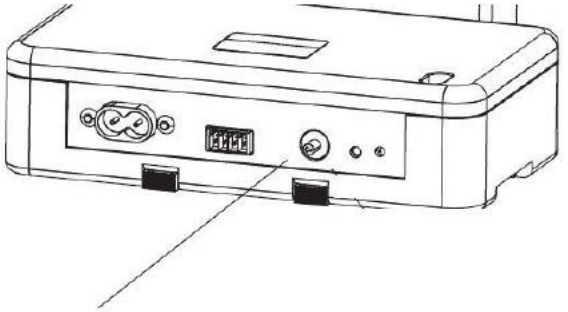
The Ondeis rain sensor has a two cable output. One cable must go to main voltage (230V/50Hz) and other is dry contact signal cable.

You must rain sensor dry contact cable joint to RS485's channel input jacks (from 1 to 5)

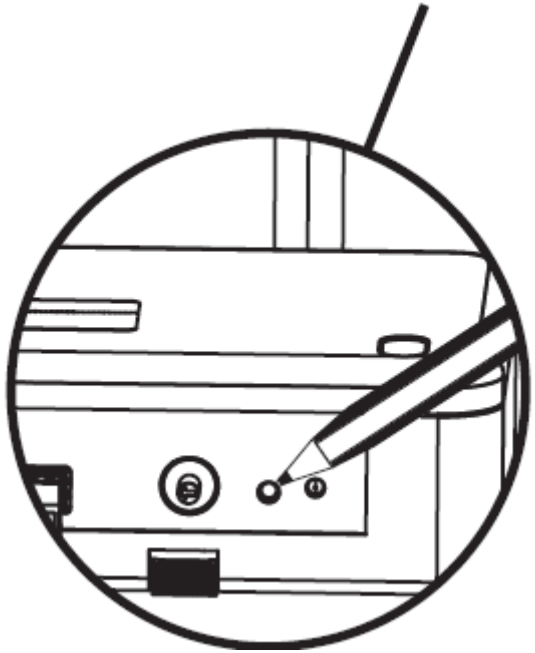


When you plug all cables now you can program to rain sensor.

- Select the RTS address on the channel selector corresponding to dry contact connectors.

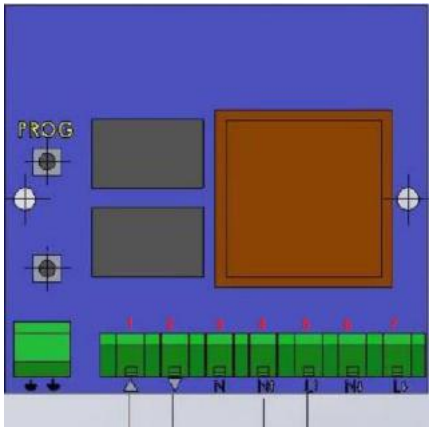


- Press to PROG button on your remote control
- Then press PROG button on RS485 or Dry Contact Transmitter.



If you supplied any time (after order or installation) you can change it.

Firstly, remove to Centrolis then place the Universal Receiver RTS as you see at below figure.



ii. Red cable to no:1
iii. Black cable to no:2
iv. Blue cable no:3
v. Neutral: Blue cable no:4
vi. Phase: Red cable no:5

If you have ONDEIS Rain sensor you must inform before the order. Then Palmiye will send changed from Centrolis to Universal Receiver RTS on during the production.

9.2. AUTOMATION

9.2.1. Adaptable to Somfy systems

Our Retractable Pergola System can control by Somfy Home Automation Smart System which is CONNEXOON®;

- The retractable pergola system motors can control by CONNEXOON® application on smart phone.
- CONNEXOON® works RTS and also IO motor systems.
- CONNEXOON® device has to connect to the Ethernet modem connection.

9.2.2. Adaptable to other automation systems

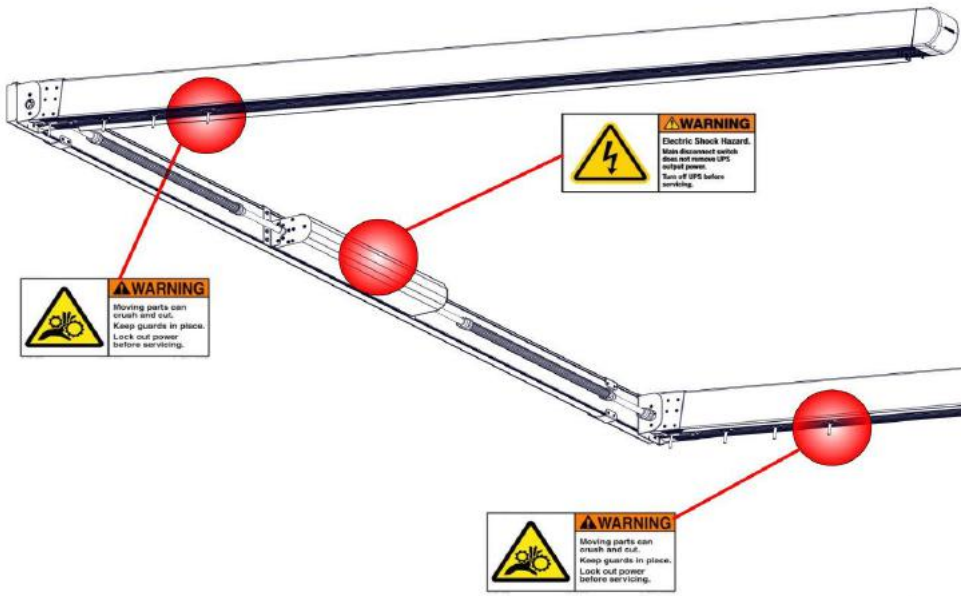
In order to connect to different automation home smart system, there is RS485 RTS Transmitter;

- Only RTS motors can control by RS485 RTS Transmitter.
- There is 5 dry contact input.
  - *Select the RTS address on the Channel selector corresponding to dry contact connectors.*
    - *The dry contact connector nº1 has per default, the RTS address nº1*
    - *The dry contact connector nº2 has per default, the RTS address nº2*
    - *The dry contact connector nº3 has per default, the RTS address nº3*
    - *The dry contact connector nº4 has per default, the RTS address nº4*
    - *The dry contact connector nº5 has per default, the RTS address nº5*
  - *Press the programming button on the back of the RTS control point or the RTS receiver until the motor jogs.*
    The product is in programming mode
  - *Press the programming button on the RS485 RTS transmitter until the motor jogs*
    The product is assigned to the transmitter.
- *It can up to 16 groups of Somfy RTS motors and receivers.*
  - *Press the programming button on the back of the RTS control point or the RTS receiver until the motor jogs*
    The product is in programming mode.
  - *Send by the RS485 control, the corresponding RTS frame on the desired channel.*
    The product is assigned to the transmitter's channel with a motor jog.
    - It is impossible to set a motor or a receiver with this RS485 RTS transmitter.

10. FREQUENTLY ASKED QUESTIONS

FAQ	REASON	HOW TO RESOLVE?
The product motor would not start	The motor is not energized	Check the switch of the current distribution board connected to the motor is on.
	The motor has no regular current	Disconnect the power and wait for 15 minutes then try to start again. Please call our technical service if the motor is not started again.
The product does not work properly	Erroneous installation	Please call our technical service.
	Natural disasters	Please call our technical service.
Lights are not on	Not all lights are on	It should be checked if the product is energized. The power must be disconnected and connected again. Please call our technical service if nothing changes at lights.
	Part of the lights is not on	Please call our technical service.
The remote controller does not work	It does not control the product	The battery should be replaced. Please call our technical service if it still does not work.
	Lights are not on	
Eaves troughs overflow	Drainage way clogged	It should be checked if drains inside eaves troughs are unblocked.
The product leaks water	The product isolation leaks water	Make sure that areas of the system water tightness gaskets are clean (leaves, branches, etc.). Please call our technical service if the problem is not solved.

11. RISK TABLE



12. WARRANTY CONDITIONS

12.1. WARRANTY TERMS

If the following cases are observed, products are not covered by the warranty.

- A certificate of warranty without the Authorized Dealer's approval is null and void.
- Installation, dismantling or relocation of products by unauthorized persons,
- External impacts upon our products,
- Our products being impacted by “Natural Disasters”,
- Damages having an impact upon products which may occur due to fire,
- Errors that may arise due to misuse,
- Failure to adhere to instructions relating to the product equipment as laid down in this booklet,
- Repairs and installations as well as relocations by parties other than the Authorized Dealer,
- Damages which may arise from substances falling on or spilling over the product,
- Damages which may arise due to any unusual variations and failures in the mains power installation,

The Technical Service provides 1 year of warranty for the replaced and repaired part. All our plastic and rubber parts are guaranteed for 2 years against problems such as structural deformations, cracks, and degradations, without any external intervention.

12.2. WARRANTY PERIODS

The warranty period commences from the production completion date. The materials which constitute our products in line with the respective international standards have different warranty periods of their own.

Except for the special cases determined in this manual, your product is under our warranty for the periods indicated as per the below listed material groups: *(Please review the respective articles indicated under the main titles include in the manual for the details of aforementioned special cases. All manufacturing defects are under scope of warranty within the following periods.)*

Table 1

Paint (Aluminum Standard Parts)	5 Years*
Fabric	5 Years
Motor	2 Years
Motor Parts	2 Years
Electronic Remote Controller and Receivers	2 Years
Electronic Cards, Circuits, Boards	2 Years
LED Lights	2 Years
Plastic Parts	2 Years
Paint (Steel Components Special Parts)	1 Year
Insulation	1 Year

** The paint warranty is 2 years under ambient conditions at places that have moisture spray with salty and chemical steam (port, coastline, swimming pool, etc.).*