

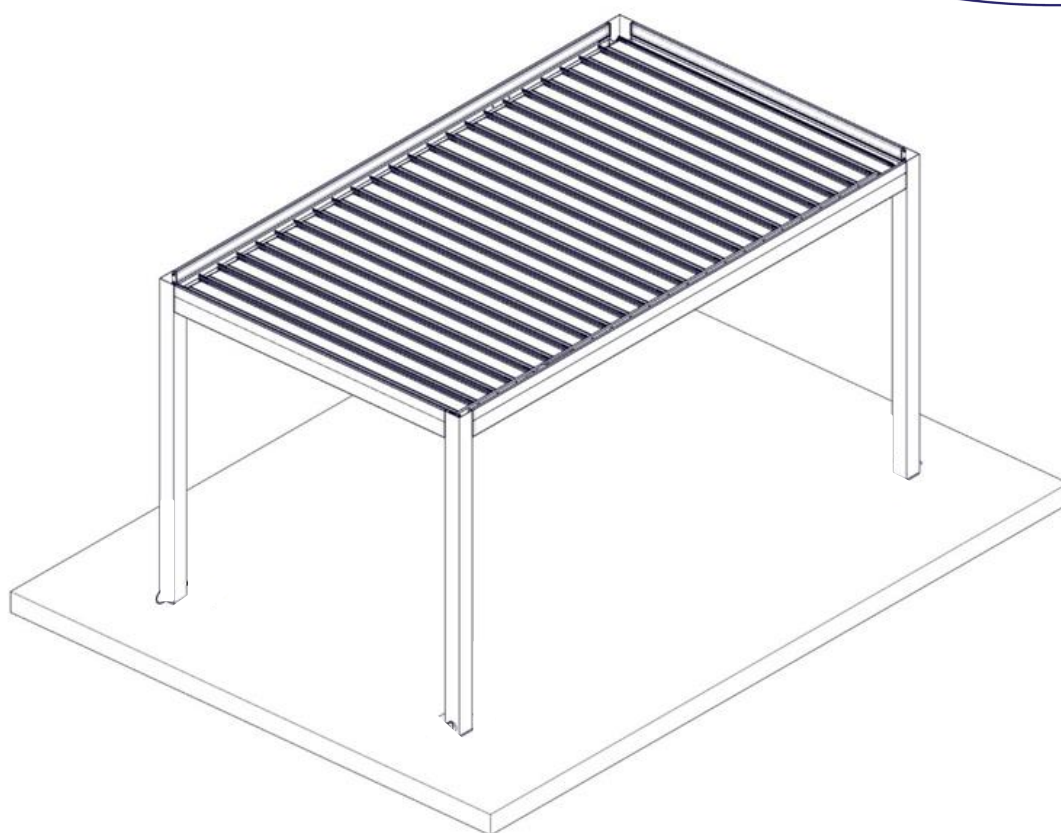
# Assembly instructions

Version: February 2022



# SBP

Passionate  
about building



the **Phoenix**

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KEEP THIS MANUAL IN A SAFE PLACE FOR FUTURE USE!

We also refer you to our General Terms and Conditions of Sale and Delivery which are available on request. We accept no liability for any damage or injury resulting from a failure to carefully follow the instructions in this manual or exercise due caution during transport, assembly, use and maintenance of the canopy. As a result of our policy of continuous product improvement, certain product details may differ from what is described in this manual. For this reason the instructions provided only serve as a guideline for installation of the product this manual describes. This manual has been compiled with the utmost care, but we cannot be held responsible for any errors in this manual or the consequences thereof. Furthermore, all rights are reserved and no part of this manual may be reproduced in any way whatsoever.

# 1 Introduction

## **Congratulations on the purchase of your canopy!**

Before you can start enjoying your canopy it must be assembled properly. This manual provides clear instructions for all the steps you must complete for correct assembly of your canopy. We recommend that you take the time to read the entire manual before you begin assembly. Check whether you have received all the necessary parts before you begin assembly. For your safety, follow all the applicable instructions. This also guarantees the safety of the installed roof. If you should have any questions, please feel free to contact us.



This manual should be kept in a safe, dry and shady place. In the event of damage or loss, the user should obtain another copy.

## 2. Safety precautions and warnings

### **Important:**

Please read the safety precautions and warnings before assembling the canopy.



- During assembly, carefully follow the instructions and guidelines as described in this manual. Never change the order of the steps to be performed. If any aspect of the assembly procedure is unclear, please contact us. We reserve the right to make technical changes without written notice.
- We normally recommend that the canopy must be assembled by at least two people (qualified technicians/authorized installers) working together.
- Check the delivery immediately upon receipt. In the event of damage or an incomplete delivery please contact us immediately.
- The materials must be stored in a dry, ventilated area, not exposed to direct sunlight.
- Open the packaging carefully. Make sure that you do not damage the product.
- To prevent damage to your canopy, place the parts on a smooth, clean surface. Place the profiles on a flat surface, protected from sun and rain.
- Adding or removing parts, the use or installation of materials other than described in this manual, may adversely affect the safety of the canopy and is therefore strongly discouraged!
- Cordon off the assembly location so that others are kept at a safe distance.
- Always place a ladder on a firm, stable surface.
- Always wear the correct protective clothing (work gloves, dust mask, safety glasses, shoes with non-slip soles, etc.) during installation or servicing.
- Mount the system against a firm, flat wall and on a flat and stable foundation. Ensure that the wall and the ground are clean and dry.

## 2. Safety precautions and warnings



- Mount the system against a firm, flat wall and on a flat and stable foundation. Ensure that the wall and the ground are clean and dry.
- Ensure that you consult a suitably qualified gas engineer if you are placing the canopy near or above a boiler flue point.
- **Never** step or walk on the panel system.
- You must maintain and clean your canopy at least once a year. During this yearly maintenance make sure all fasteners are properly tightened.
- When safety regulations and instructions are not followed correctly, we will not accept responsibility for damage(s) and injuries.

## 3. Product description

The Phoenix is a pergola/gazebo system which features rotatable roof panels which can rotate 120 degrees protecting from sun and rain.

The panels are connected to a linear actuator and are operated by the motor controlled via a remote control.

The Phoenix is available in the following dimensions:

- Width (mm): 3000 / 3500
- Projection (mm): 3011 / 3539\* / 4067 / 4947 \* only by 3500 mm width!

**NOTE:** All posts come at a standard length/height of 3500mm. The maximum recommended height from floor to underside of the gutter is 2500mm so posts will need to be cut down accordingly.

### Optional additions:

- Perimeter lighting system

### Wind resistance:

No of Panel	Projection (cm)	Projection (cm)	Width (cm)	
	(Freestanding)	(Wall installation)	300	350
16	301.1	303.9	7	7
19	353.9	356.7	7	7
22	406.7	409.5	7	7
27	494.7	497.5	7	7

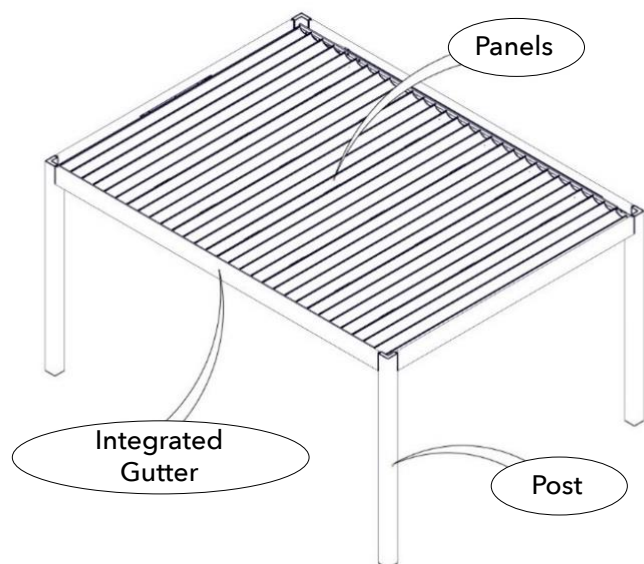
- The values given are according to the Beaufort scale ( 7 Beaufort = 13.9 - 17.1 m/s  $\leq$  0.18 kN/m<sup>2</sup>).
- Calculated for the Phoenix with a front height of 250 cm according to Eurocode EN 1991-1-4 Terrain Category 4.

### Snow load (kg/m<sup>2</sup>):

No of Panel	Projection (cm)	Projection (cm)	Width (cm)	
	(Freestanding)	(Wall installation)	300	350
16	301.1	303.9	125.3	119.0
19	353.9	356.7	103.3	98.0
22	406.7	409.5	81.4	77.0
27	494.7	497.5	44.8	42.0

## 4. Parts Overview

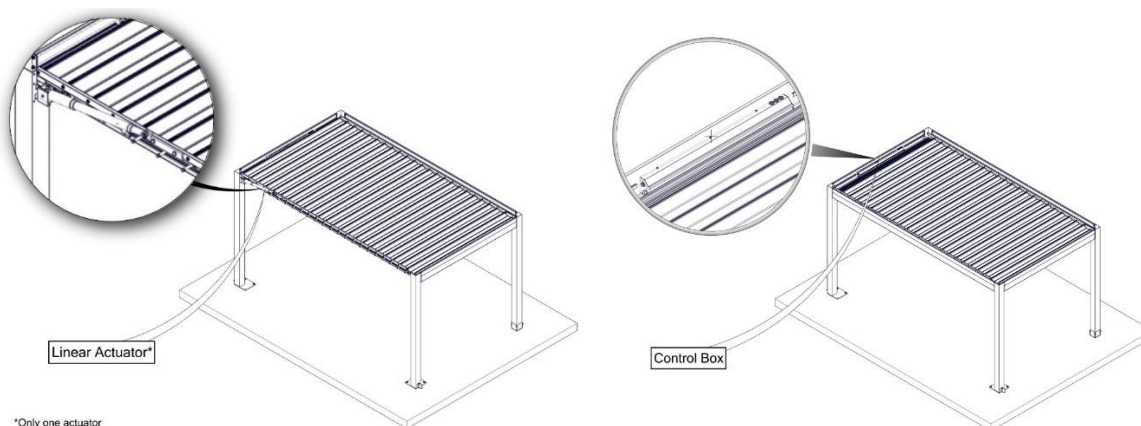
### 4.1 Terminology



#### Linear Actuator

linear actuator provides the movement of the roof panels and works with 24V power provided by a control box. The actuator is located on the lateral integrated gutter with the control box located in the rear integrated gutter and needs to be powered from a 230V source.

The linear actuator has to be adjusted to provide exact movement and this must be done during installation.



## 4.2 Delivery Inspection

The canopy shown is an example. The type and number of components supplied depends on your order.

**Note:**

- Boxes with red label: Electronic parts like Control Unit Box. Remote Controls.
- Boxes with blue label: Metal parts like U Brackets. Mounting brackets. Pillar caps.

# 5. Preparation for assembly

## 5.1 Conditions for assembly

### Ground & wall

- A good flat stable surface is required for construction of the canopy.
- The location where the system is placed must be construction-ready and free of obstacles (garden furniture, flower boxes. etc.) so installers can perform their work without hindrance.
- Any obstacles including utility lines (such as power cables. etc.), roots and debris must have been removed from the ground.
- The façade must be free of sun shades. etc.
- The area where the wall profile will be placed must be firm even and flat.

### Attachments at walls

- Due to expansion of the materials the pergola may not be placed tightly between two walls; there must be a gap of 1.5 mm per metre of width of the pergola.

### Rubber seals

- The Phoenix is equipped with pre-assembled rubber seals.
- If the rubber seals are deformed they can be straightened with a little heat from a hot air heater or hair dryer for example.

**Warranty is void if the Phoenix is not assembled and installed in accordance with the instructions.**

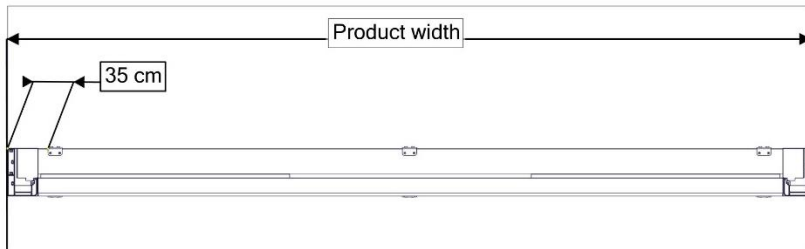


# 6. Assembly

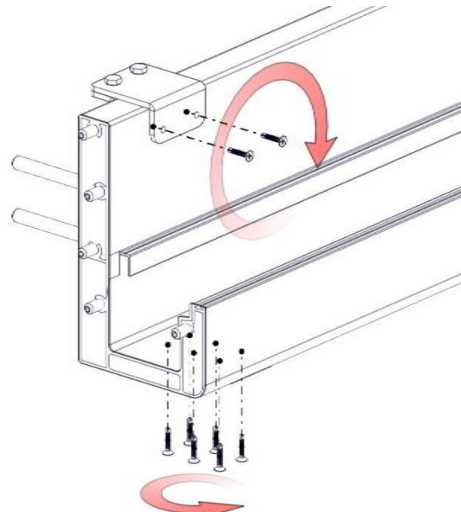
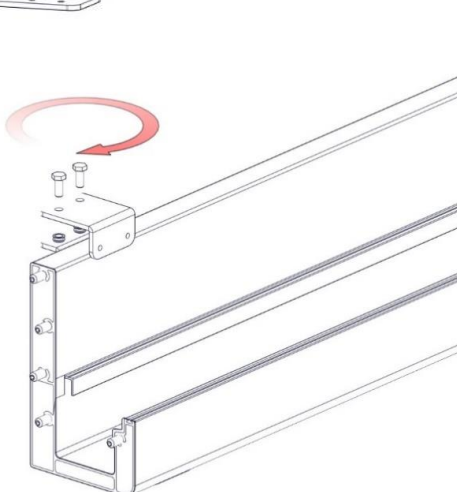
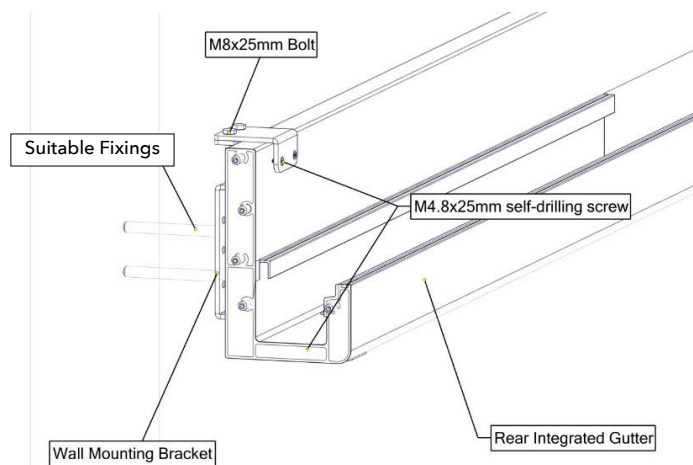
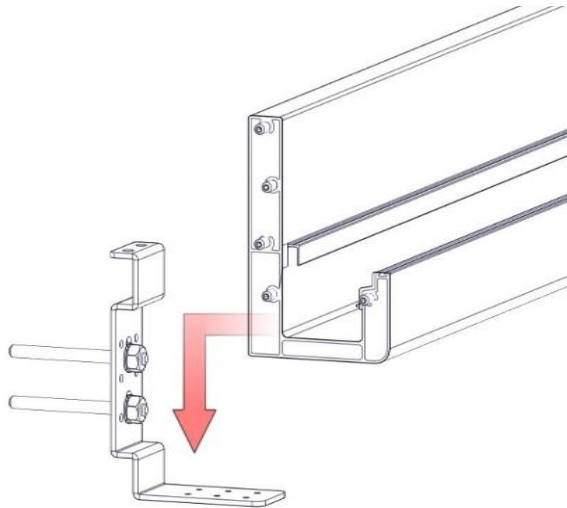
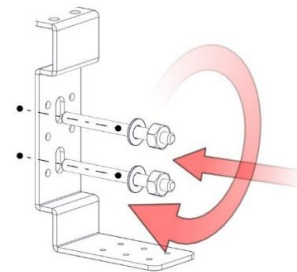
## 6.1 Mounting the wall profile (in case of wall installation)

**Determine which post will be used as the rainwater discharge post. An rainwater discharge hole has to be drilled in this post.**

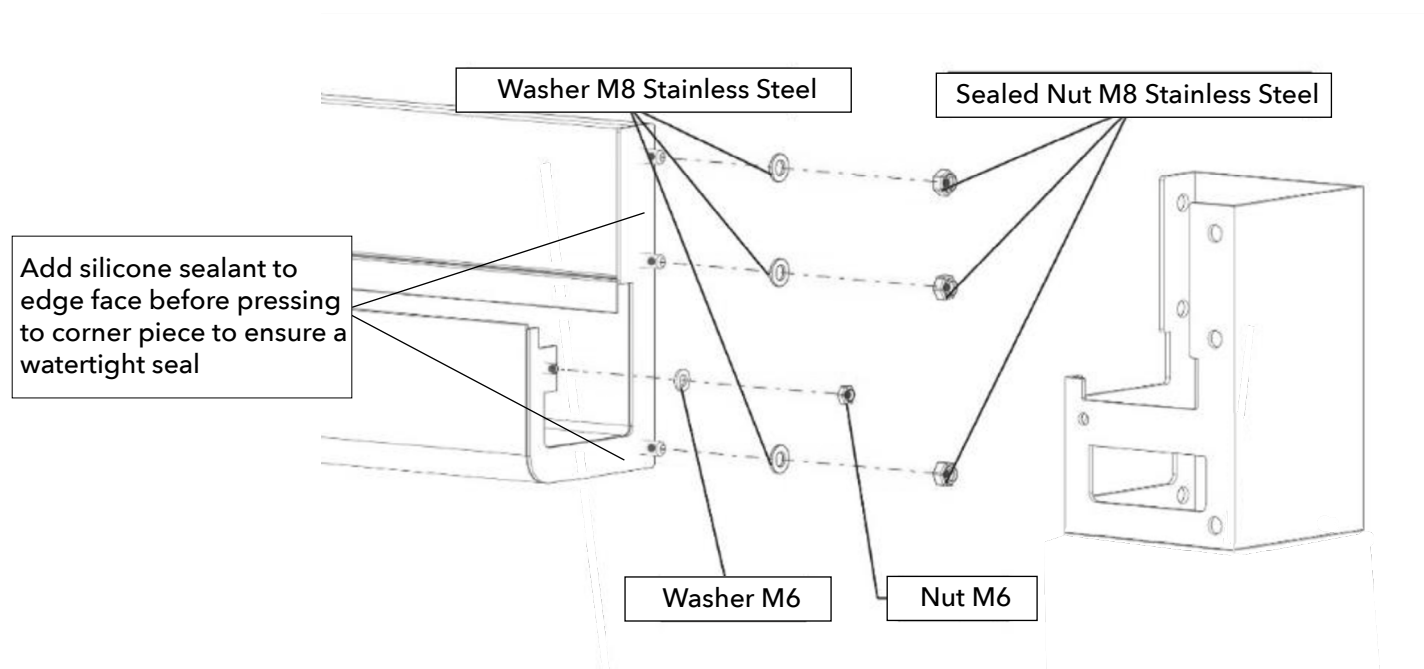
1. Determine the mounting bracket position on the wall and fix using suitable fixings for your wall. We suggest a minimum size of M12 fixings but these are not supplied as need to be chosen depending upon your wall.



2. Mount the back length of integrated gutter on the wall mount brackets & fix in place (the rear gutter will house the control box and manual override buttons)



**3.** Fix the 2 wall-corner pieces in place:



**4.** Now continue to section 6.2

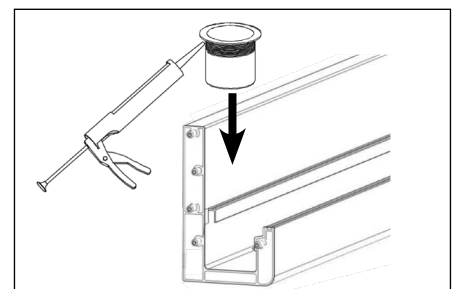
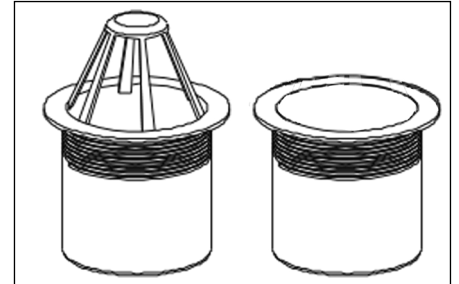
## 6.2 Post and integrated gutter connection

1. Determine how rainwater will be discharged from the gutter. A post can be used for simple discharge by drilling in a hole in the gutter above a post and at the bottom of the post so the water can drain out. A 60mm hole is recommended.

For more effective rainwater discharge a downpipe can be attached using a downpipe outlet running through the gutter (a hole will need to be drilled in the gutter) and rainwater then fed into a downpipe which can be run to a suitable location.

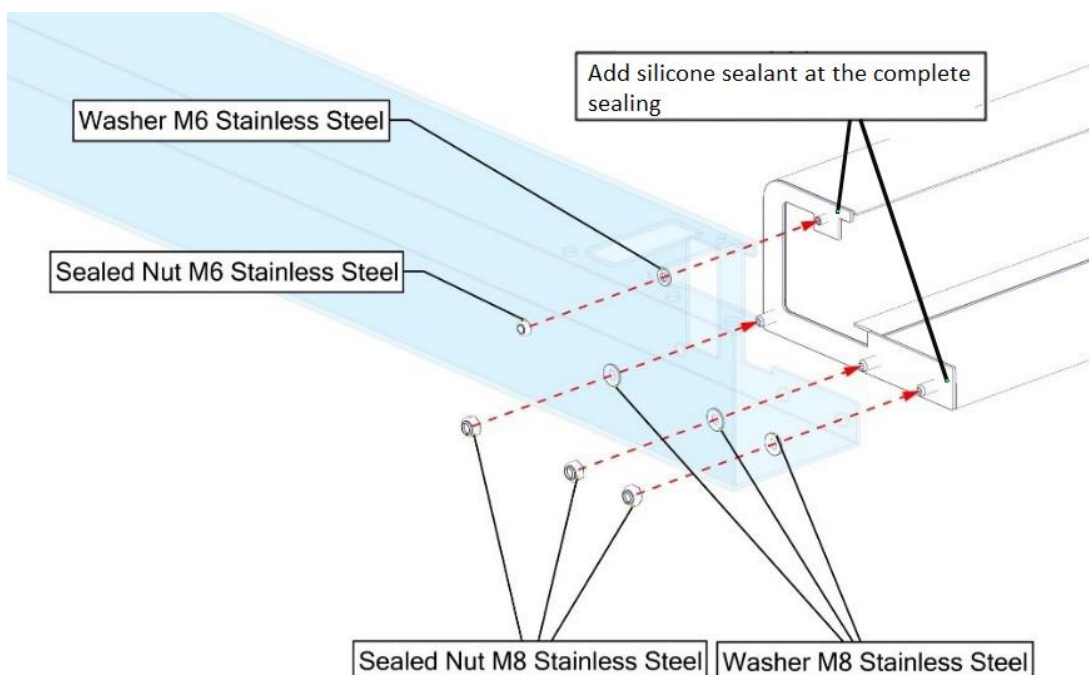
If fitting using a downpipe outlet then it should be placed through a hole cut for it in the gutter and it should be sealed to the inside of the gutter. Note the top will need to be trimmed off as the available height in the gutter below the panels is very limited:

The outlet should then be pushed through the hole so the flange sits flat against the bottom of the gutter and is sealed to it

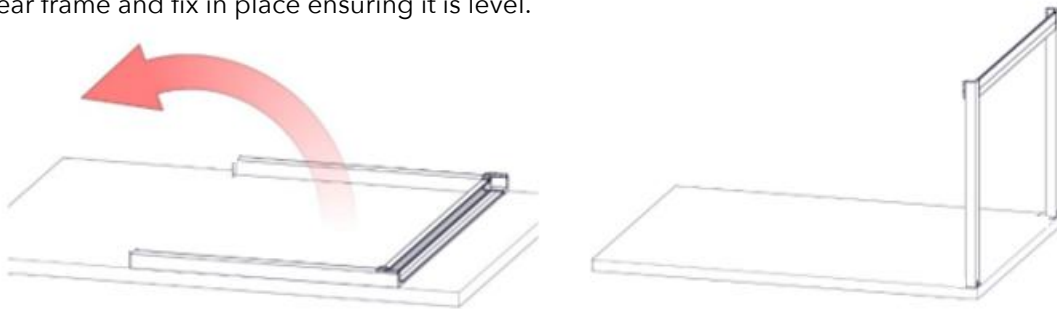


2. Measure and trim the posts to the required length by cutting off at the bottom. The maximum floor to underside gutter height should be 2500mm so trim accordingly depending upon whether fixing into the ground using a suitable cement-based foundation mix or fixing to a solid surface using the floor mounting brackets. Also consider whether the ground is flat as the Phoenix must be fitted with no greater than a 5mm difference in height across the full width or height to enable proper drainage.
3. \*\*If you have a wall mounted option then go to step 5\*\*\*

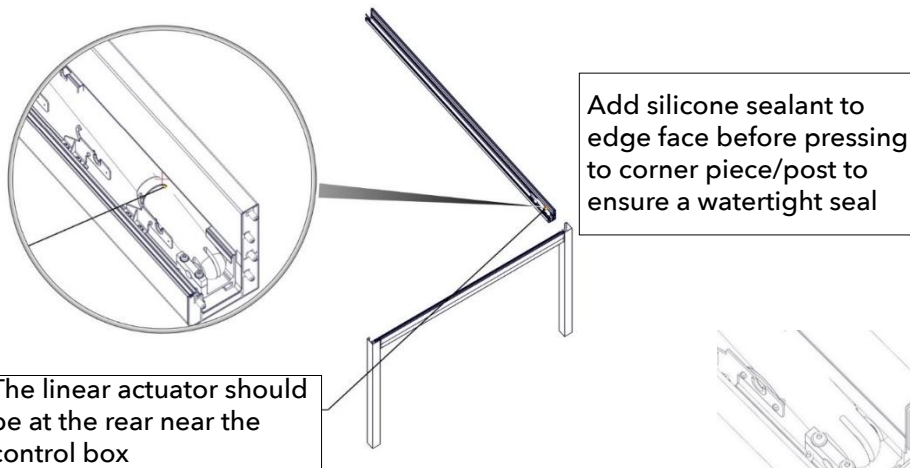
Lay the back integrated rear gutter profile on the ground and fix the two posts to it adding silicone sealant where indicated to ensure a watertight seal.



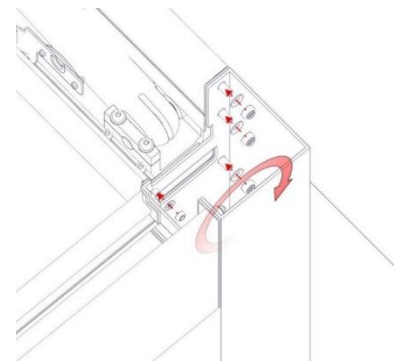
4. Lift up the rear frame and fix in place ensuring it is level.



5. Lay the front gutter on the ground and attach the posts as shown in point 3.
6. Lift up the front frame and fix in place ensuring it is both level and aligns with the rear gutter and at the required distance so that the side gutters will fit properly between the front and rear frames.
7. Install the side gutters ensuring that the linear actuator is located to the rear where the control box will be placed inside the gutter. Make sure to seal them to the posts/corner connectors using silicone sealant at the joins to ensure a watertight seal.

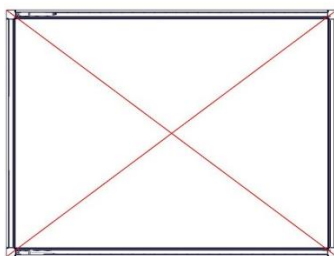


8. Fix the side and front/rear gutters using the M8 and M6 sealed nuts:



9. Check if the structure is level on all sides. 5mm difference in the full length (for water) is allowed

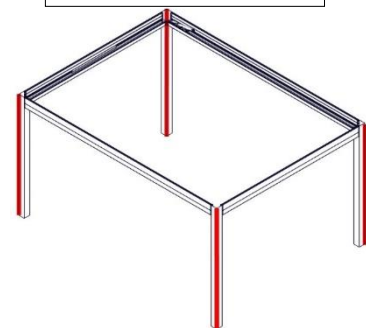
Check the cross



Check the lateral gutter is level



Check the Posts are level

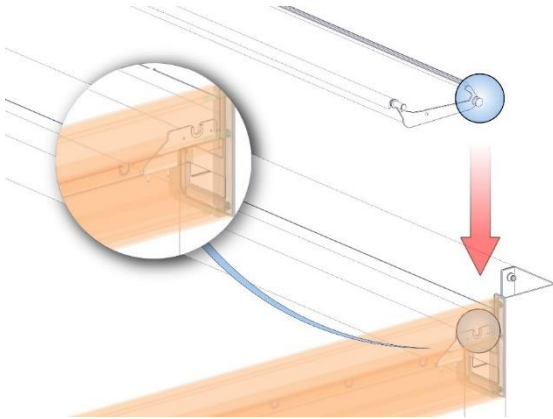


10. If you have connected a downpipe outlet for drainage then fix the downpipe run at this point ensuring that a bracket is placed within the first 300mm of the downpipe outlet. If this is not possible the either glue the downpipe to the spigot at the bottom of the outlet or fix with a screw through the downpipe into the outlet spigot.

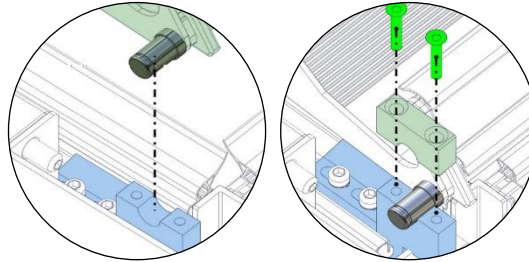
## 6.3 Panel installation

1. Start by placing the panel closest to the rear gutter in place. There should be a rubber gasket at the rear gutter which will sit over the edge of the first panel when closed. If this is not in place then insert now.

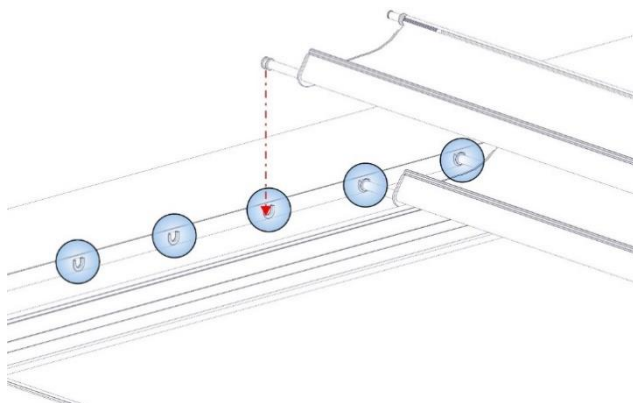
The bottom pins of the first three panels are shorter than the rest to leave space for the linear actuator.



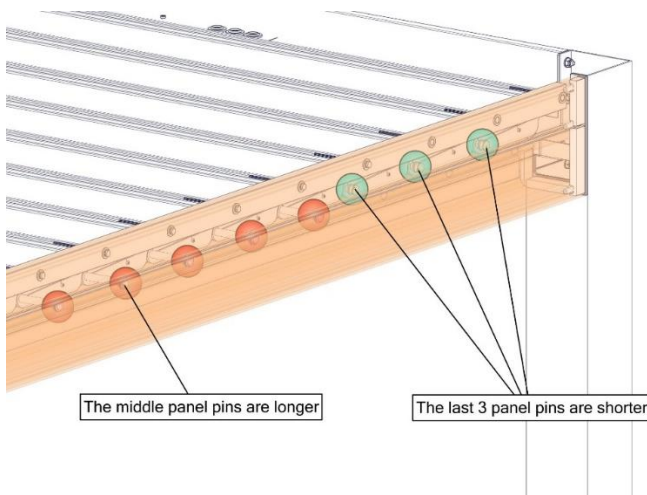
These three panels also have brackets to hold the lower pins in place to stop them being lifted. The housing for these brackets is fixed to the gutter and the top pieces need to be placed over the pins and secured with the machine screws provided.



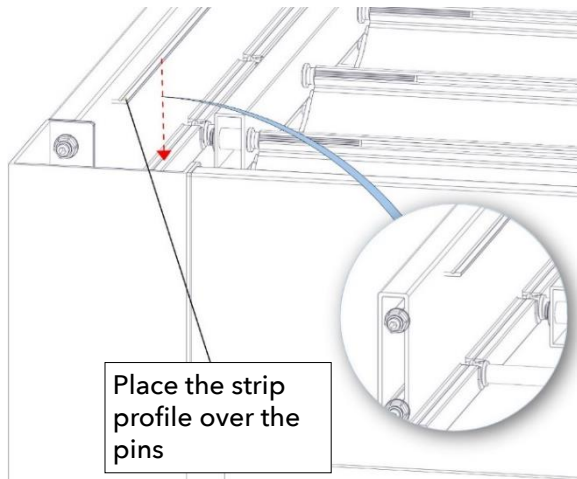
2. Place the middle panels in to the integrated lateral side gutter which is shown in the figure below.



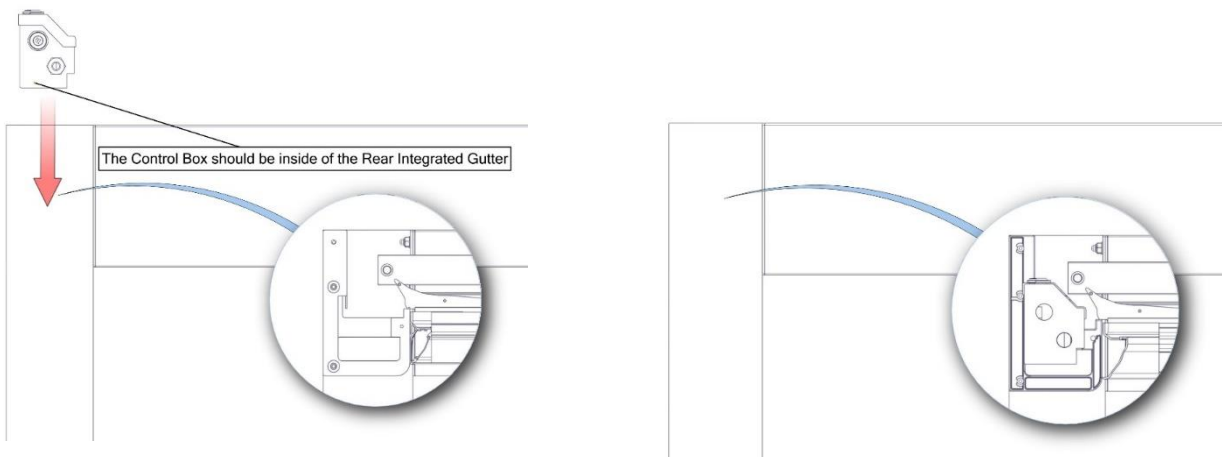
The pins of the first 3 panels are shorter than the pins of the middle panels. This is to prevent the pins from hitting the linear actuator.



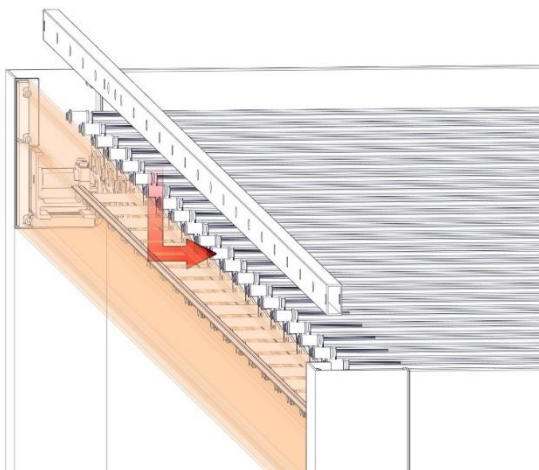
- 3.** To secure the panels in place install the 1.5x1.5mm (strip profile). Screwing through before and after each pin with a short self tapping screw.



- 5.** The control box should be placed in the rear integrated gutter.

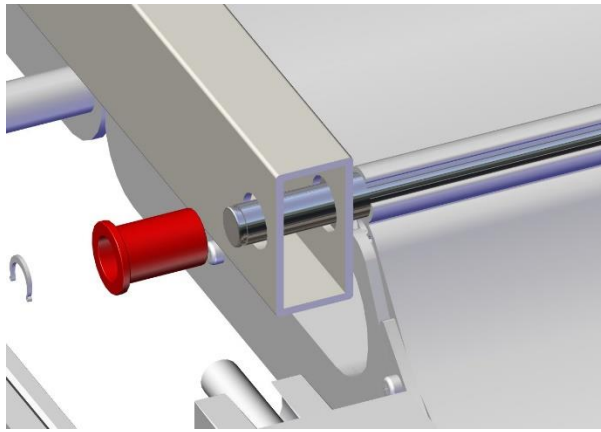


- 6.** Connect the 20x40mm aluminium profile to the side of the panels. This is what creates the movement from the actuator.

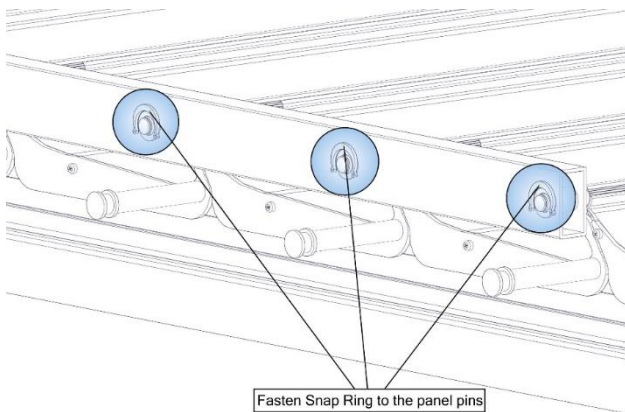




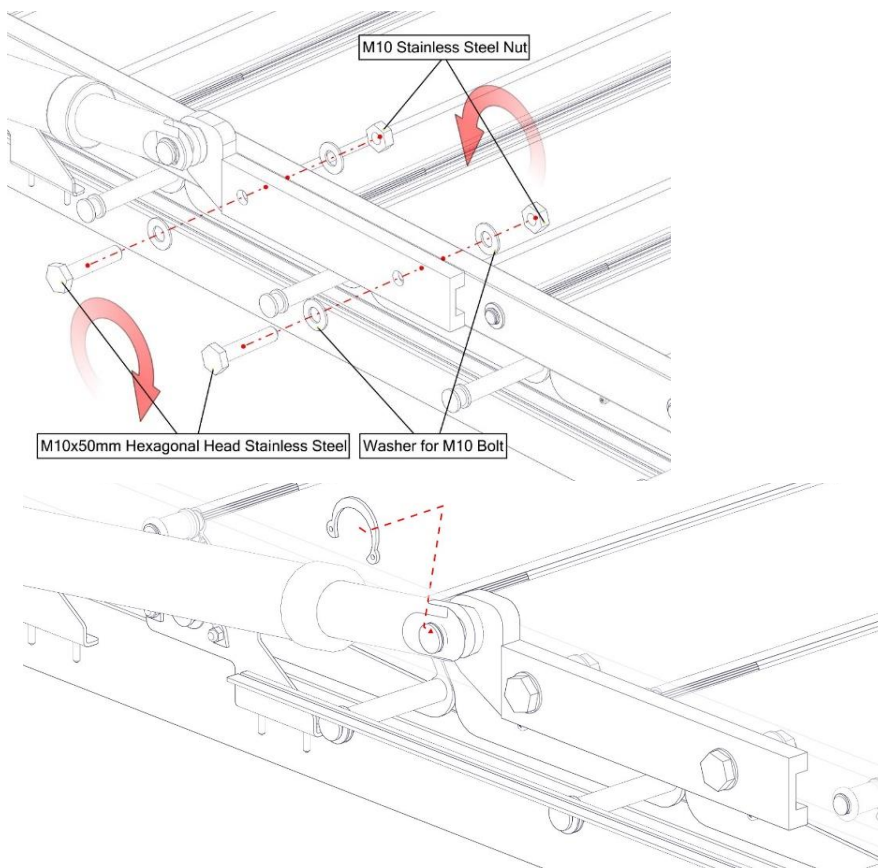
- 7.** The housing of the panel pin should be from outside in as in image below.



- 8.** Attached the pin covers from the outside of the profile to hold it in place.

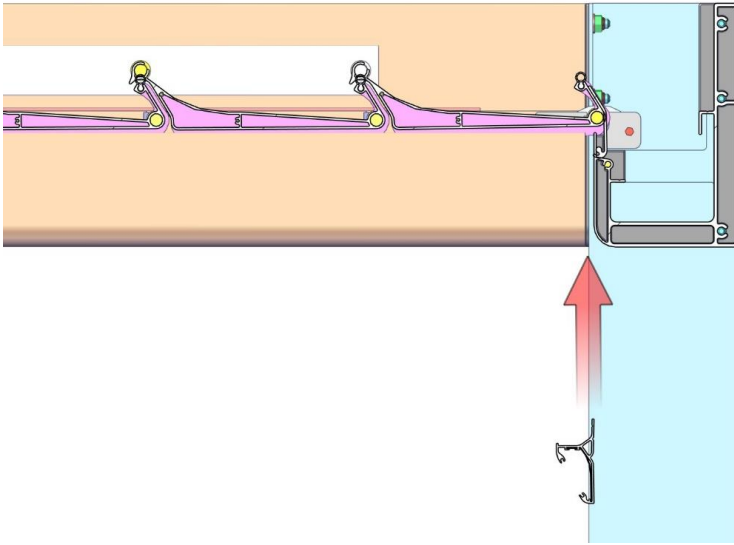


- 9.** Attach the crank piece to the 20x40 profile with two bolts and then attach the actuator to it by inserting the pin through and fixing with the snap ring. Inserting the pin from the crank through the hole in the actuator and securing with the snap ring.

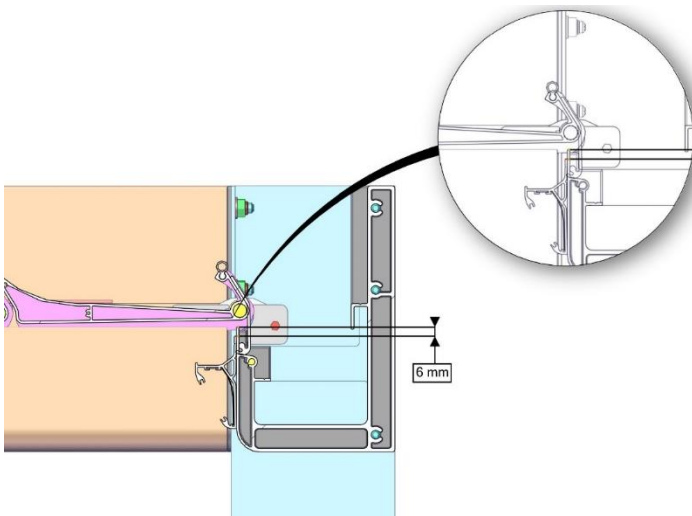


## 6.4 Perimeter lighting installation

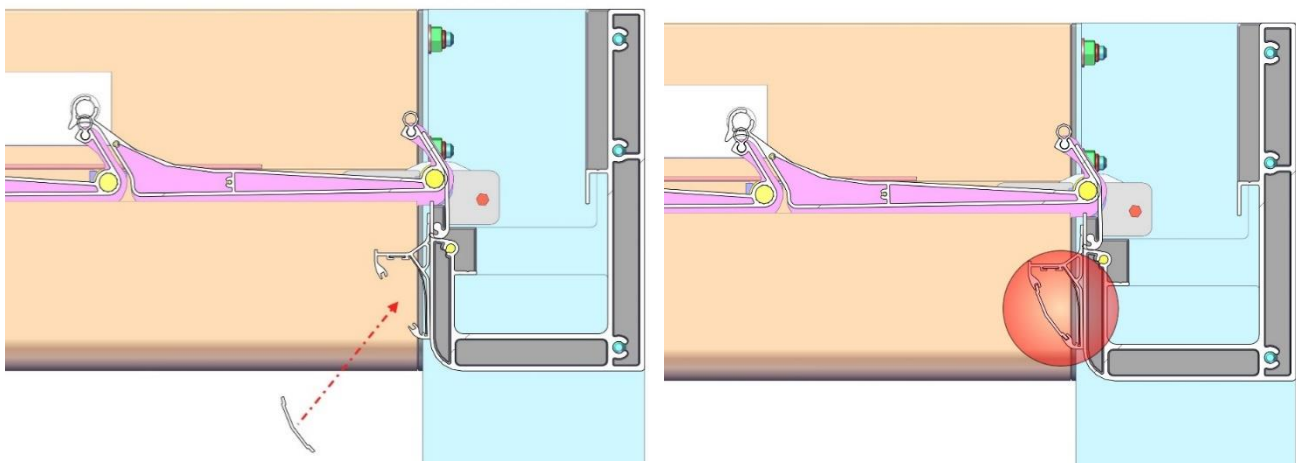
1. Place the perimeter lighting profile on the inside of the integrated gutter. (optional)



2. The perimeter lighting profile should be installed 6mm down from inside top lip of the integrated gutter and secured using short self tapping screws fitted through the groove found towards to the top of the profile.

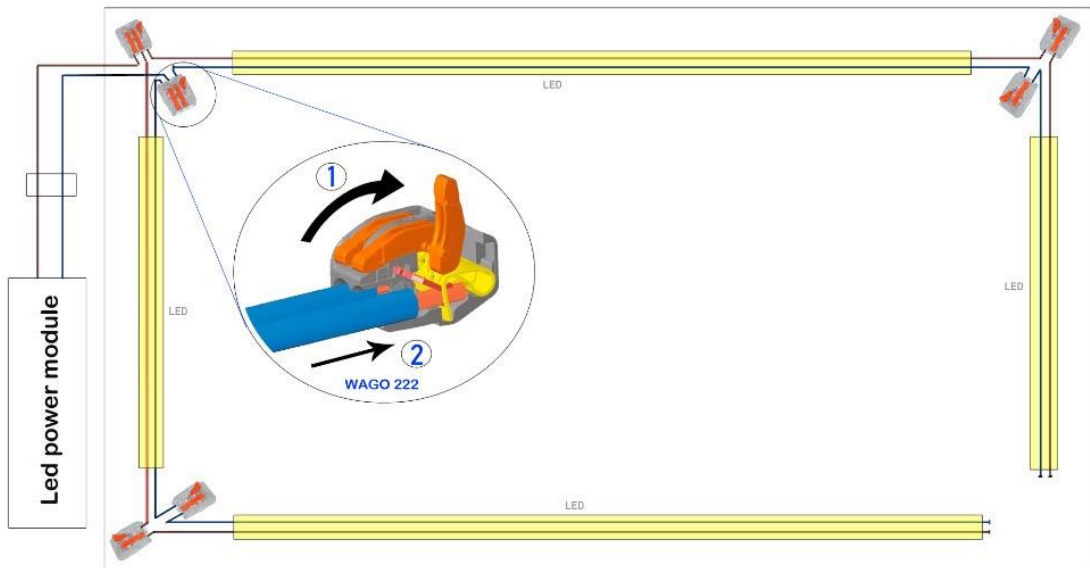
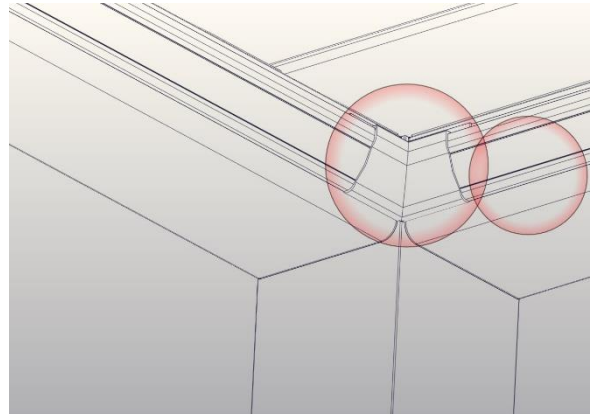
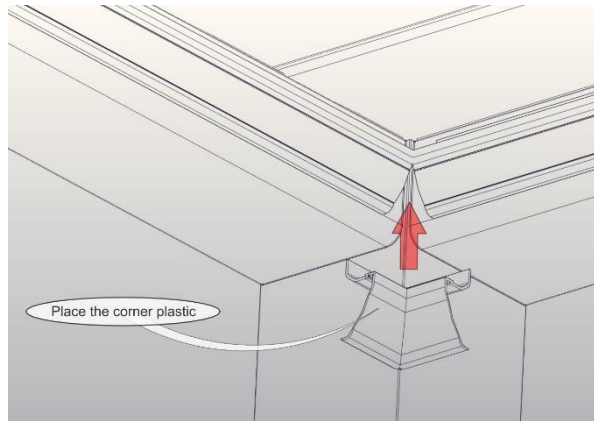


3. Place the perimeter lighting profile cap to the housing on the perimeter lighting profile.






4. Place the corner piece between the perimeter lighting profile in the corners.



By Osman and S. Bongers

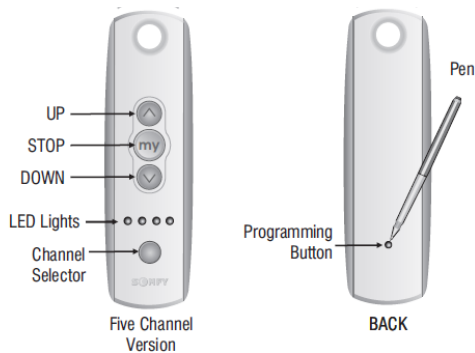
 Tip: The wires to the LED lighting are soldered and therefore more fragile on the solder point, do not pull or bend intensively at the installation.

Tip: The most common wire strip length is 11mm, this may vary slightly depending on the welding cap used.

# 7. Programming instructions

## 7.1 Remote Control

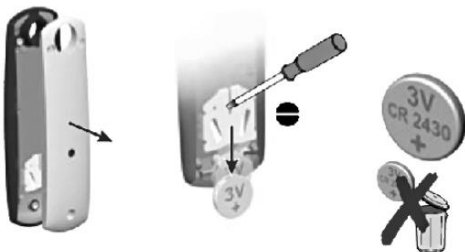
The canopy is equipped with remote control. For opening, closing or stopping the panels and activating the lights (if included).



### Remote control Details

Channels:	5
Battery type:	2430 Lithium
Battery voltage:	3V
Thickness:	22mm
Width:	49mm
Height:	145mm
Colour:	White
Radio frequency:	433,42 MHz
Radio Range:	20m through walls
Protection index:	IP30
Details:	Shockproof / For indoor use

### Replacing the battery



Using a small screwdriver loosen the screws on the reverse side of the remote control and remove the back cover.

Replace the battery with one 2430 Lithium 3V Battery.

## 7.2 Programming

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

When the canopy is installed check the connection of the drive system with its control box - actuator and also actuator to the 40x20mm aluminium profile.

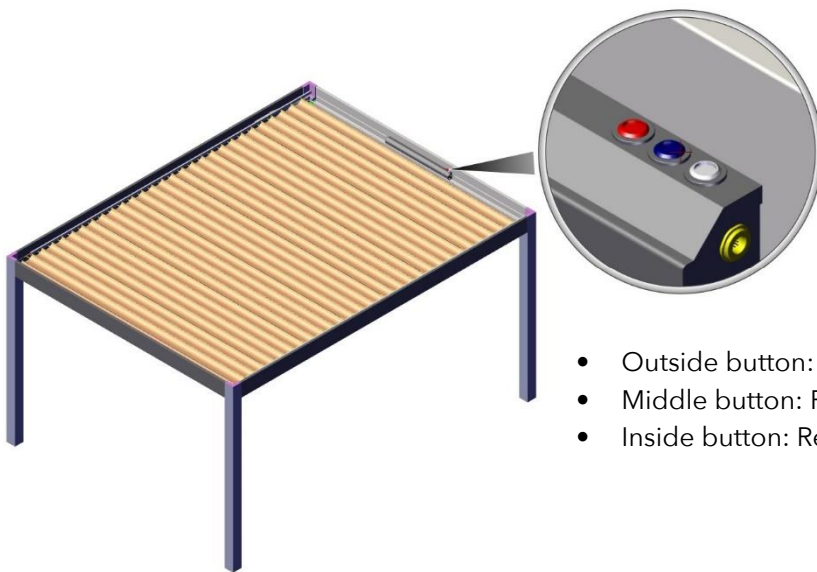
### Power Supply (230 V AC / 50~60 Hz)

- All wiring must conform to local electrical code.
- The control unit boxes can be wired in PARALLEL.
- There should be a way to disconnect the power at each motor independently.
- Only the control unit needs to be powered. The receiver is completely housed inside of the control unit box.
- Garden Space reserves her right to void the motor warranty if wiring recommendations are not followed.
- The control box only works with 230 V AC / 50~60 Hz.

### Installation Requirements

- If the installation is with more that one RTS system make sure only one RTS system is powered on 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 the transmitters.

### Button configurations



- Outside button: Programming of actuators/panels
- Middle button: Programming of lights.
- Inside button: Resetting of units

## Programming of Actuators / panels

- **Step 1:** The actuator has to be connected directly to the electric power unit (230VAC/50~60 Hz). Notice that the control unit box will not respond to any transmitter until a transmitter is assigned to communicate with the control unit box receiver.
- **Step 2:** Choose the channel on your transmitter that you want to set for the actuators / panels.
- **Step 3:** Press the outside button until the motor will jog briefly once.
- **Step 4:** Press and hold the programming button of the transmitter until the actuators / panels will jog again.



The actuators / panels have been stored to the desired channel on your transmitter.

## Deleting of Actuators / Panels

Keep the outside button pressed until the actuators / panels jog two times. (All stored remotes will be deleted). The actuators / panels has deleted on your transmitter.

## Programming of LED perimeter lighting - optional

- **Step 1:** Choose the channel on your transmitter that you want to set for the lights (LED Perimeter)
- **Step 2:** Press the middle button once.
- **Step 3:** Press and hold the UP and DOWN button on your transmitter until the lights will jog.
- **Step 4:** Press and hold the programming button of the transmitter until the lights jog again.



The lights have been stored to desired channel on your transmitter.

## Deleting of the LED perimeter lighting

- **Step 1:** Turn off the power for 2 sec.
- **Step 2:** Turn on the power for 10 sec.
- **Step 3:** Turn off the power for 2 sec.
- **Step 4:** Turn on the power after that the lights will go on
- **Step 5:** Press the programming button on your transmitter.

The lights have been deleted from your transmitter.

## 8. FAQ

FAQ	REASON	HOW TO RESOLVE?
The product motor would not start	The motor is not powered	Check if there is power to the unit control box.
	The motor has no regular current	Disconnect the power and wait for 15 minutes then try to start again.
Lights are not on	Not all lights are on	Check if the product is powered. The power must be disconnected and connected again. Please call our technical service if nothing changes at lights.
The remote controller does not work	It does not control the product	The battery should be replaced.
	Lights are not on	
There is a leak in the canopy	There is a leak in the canopy installation	Make sure that areas of the system water tightness gaskets are clean (leaves, branches, etc.).

## 9. Maintenance

We recommend that you maintain and clean your canopy at least once a year.

Check whether the screw connections are tight. If not, tighten them firmly.

The aluminium profiles that are dirty can be cleaned with lukewarm water and a cleaning product.

- Use a soft brush or sponge.
- Never use abrasives, aggressive solvents or a pressure washer.
- Wet first and rinse off with lots of water, and then wipe with a soft cloth.

## 10. Warranty conditions

Warranty in accordance with the warranty conditions and our general terms and conditions. These can be found on our website.

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.

Paint (Aluminium Standard Parts)	5 Years *
Motor	5 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

- \* 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.).