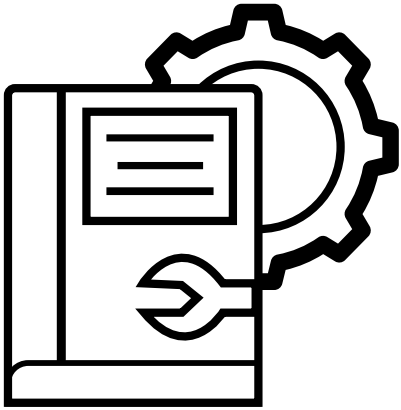
PALMIYE

Four Seasons Outdoor Living Areas



Installation Manual

Liberty

Dear Customer,

Installation manual contains suggestions and rules for fast and exact installation of our 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.

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1. SYMBOLS, PRECAUTIONS AND WARNINGS

1.1. Symbols

Attention: General operation notes.

Attention: General hazards; possible risk for persons.

Attention: Electrical hazard.

Attention: Risk of crushing hands.

Contact: Palmiye service department or related parties.

You can scan the barcodes located next to the titles in the page to see video demonstration of the related steps.

1.2. 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.

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 the product, installation of automation accessories must be made by qualified personnel.

The dealer will provide the necessary fittings for the wall and floor.

In case of any incompatibility, call Palmiye.

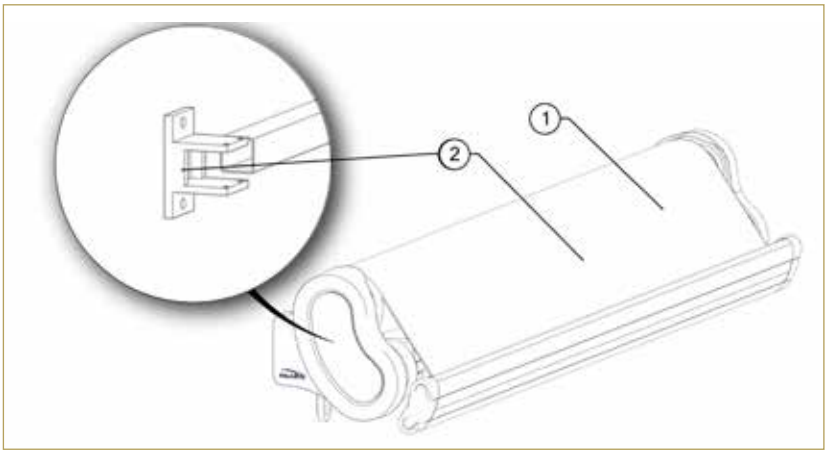
General Safety Precautions

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.

2. TERMINOLOGY



BOM ID	Description	Qty
1	Awning	1
2	Wall bracket	2

3. PACKAGING

3.1. 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.

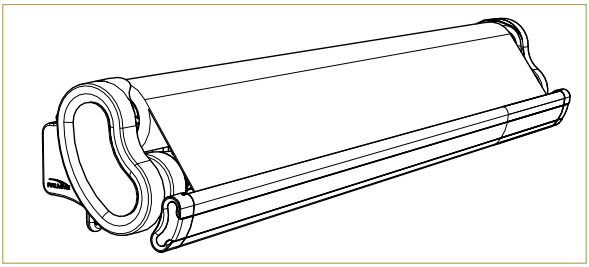
Fixing elements such as screws, plugs etc. are included in the box.

If not please contact service department of Palmiye.

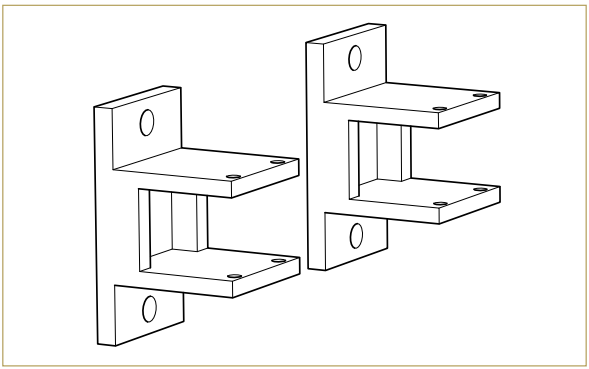
Do not use a knife to avoid the risk of ruining the paint or other materials.

3.2. Packed Parts

3.2.1. Awning (Liberty)

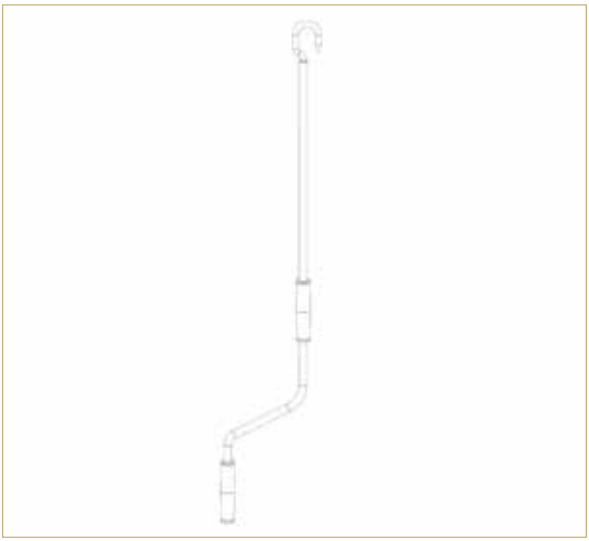


3.2.2. Wall Brackets



3.2.3. Rod

*Only manual or motorized+manual versions



3.2.4. Boxes

1. Electrical Box

Remote Controls, Sensors are on Electric box. It has a red label on the box.

2. Metal Box

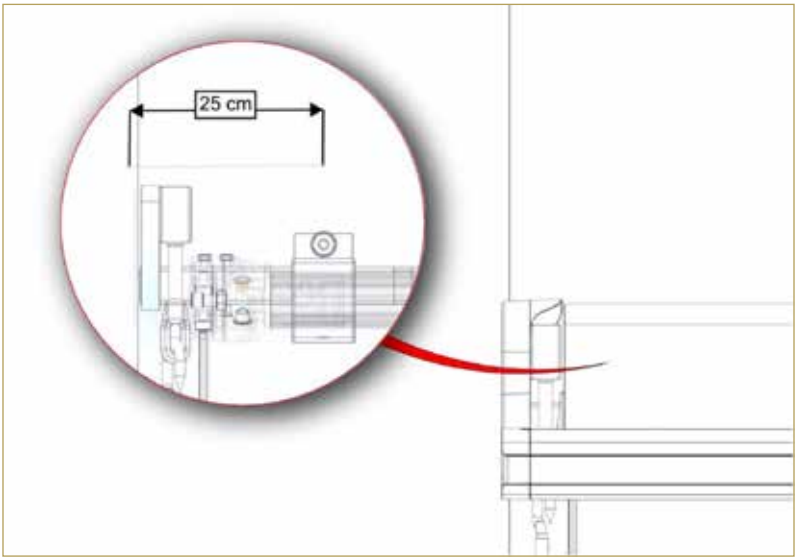
Mounting brackets.

4. INSTALLATION STEPS

4.1. Wall Bracket Installation

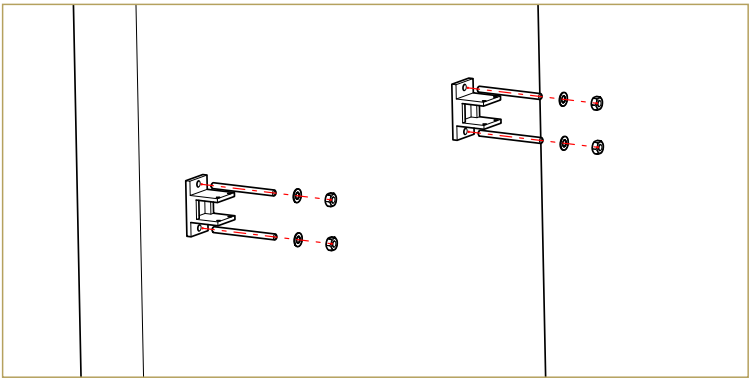
Define a wall bracket position;

According to awning width dimension, you can fix as 25cm (10”) inside of the product.



Fixing wall bracket to the wall;

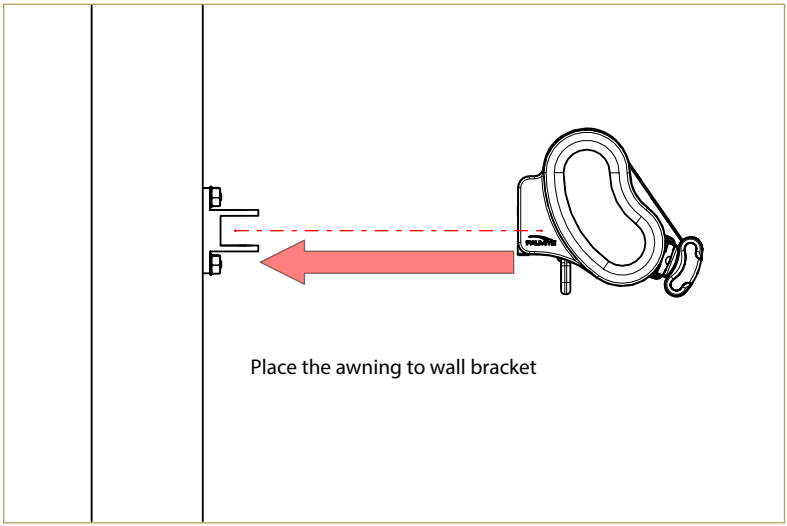
Make a hole with M16 drill bit then place a chemical anchor to inside of the hole. After that place to M12x200 galvanized rod and wait for freeze. Finally place a bracket and fix by M12 Acorn nut.



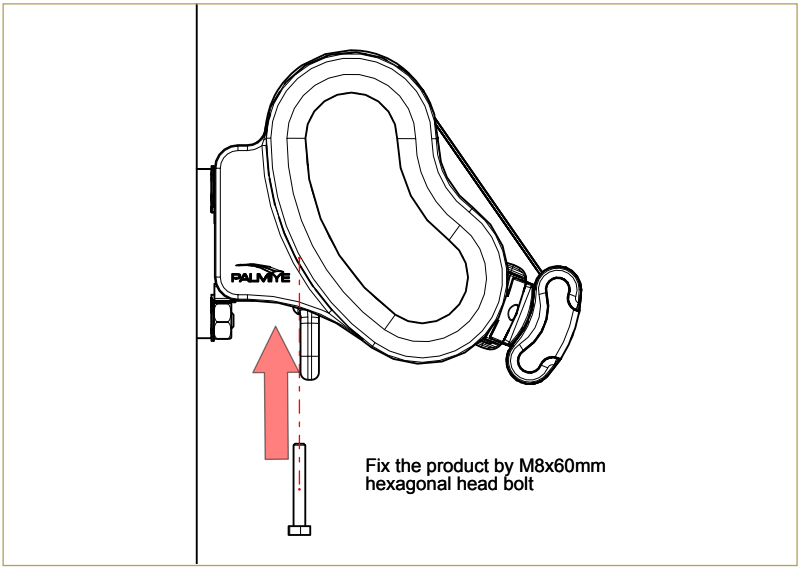
4.1.1. Place an awning (Liberty)

In this situation, you may need some people since you must hold the awning as carefully.

There is a gap on wall bracket. Place product from 40x40mm box profile to wall its bracket.

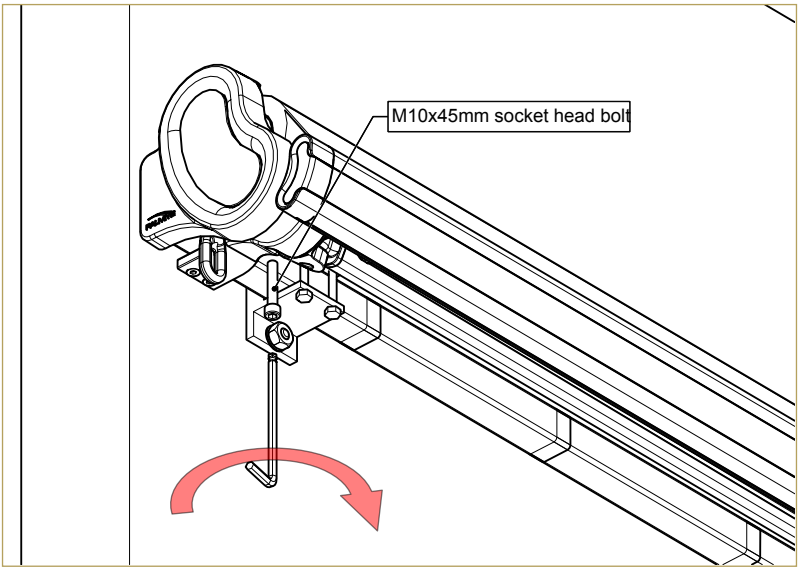


Finally, fix the product by M8x60mm hexagonal head bolt to wall bracket.



4.2. Slope adjustment

You can adjust the slope by M10x45mm socket head bolt.



Adjustable max. angle is 60^{0}.

5. PROGRAMMING / RESETTING

5.1. Attention

The installation and initial setup procedures are the responsibility of a specialized technician. When awning system is mounted, check the connection of drive system connected to the motor as directly.

- All wiring must conform to NEC (National Electrical Code) and local codes.
- Power input: the power has to connect to the single motors.
- PALMIYE Reserves the right to void the motor warranty if wiring recommendations are not followed.
- The motor works 120VAC / 60Hz or 230VAC / 50Hz
- 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.

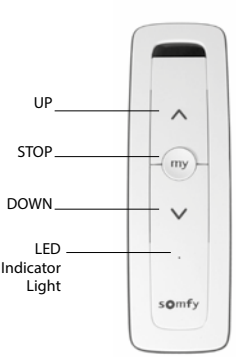
5.2. Remote Control Button Configurations

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

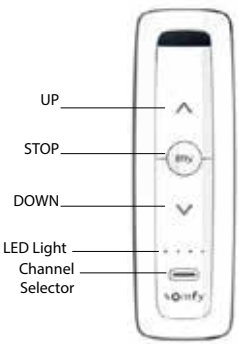
There are a 4-type of remote control

Situo, Patio, Lounge, Modulis

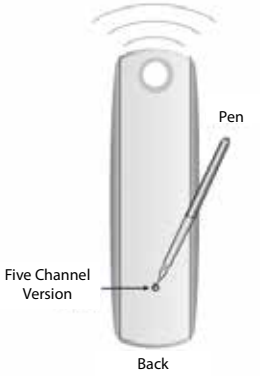
- Situo 1 (has an only one channel. It means can control 1 RTS motor)
- Situo 5 (has a 5 channel. It means can control 5 different RTS motor)
- Telis 16 (has a 16 channel. It means can control 16 different RTS motor)



Single Channel Version



Five Channel Version



Back

5.3. Remote Types

	Situo 1 RTS	**Situo 5 RTS**	**TELIS 16**
Channels	1	5	16
Battery Type	2430 Lithium		LR03AAA
Battery Voltage	3V		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		
Radio Frequence	For indoor use		
Radio Range	433,42 MHz		
Protection Index	200m in open field or 20m through 2 reinforced concrete walls		
Working temperature	IP30		
Information	0C to + 60C		
Installation	Wall brackets supplied		

Signal indicator

Large screen LCD display

Channel number

Product icon

Low battery alert

Product name *(up to 8 characters: 7 letters + 1 number)*

Selection button

Navigation arrows

Up/down/ "my" button

E.g.: The screen in the office

E.g.: The roller shutters on the first floor

E.g.: The awning on the roof balcony

E.g.: All products in the house

5.4. 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.

5.5. 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 (120VAC / 60Hz or 230VAC / 50Hz). Notice the motor will not respond to any transmitter until a transmitter is assigned to communicate with the motor's 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 ALTUS RTS motor records the address of this transmitter, and only this activated transmitter can be recorded into the memory of the ALTUS motor.

Step 3: Check direction of operation. The "DOWN" button must correspond to BACK on the end-product. In the case of an awning, it will be closed. 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 position.

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 awning.

Step 6: Stop the motor at the desired FRONT limit position.

Step 7: To set the FRONT limit, press the "MY" and "DOWN" buttons SIMULTANEOUSLY for more than 2 seconds. Release the buttons once the product begins to move towards back of the awning

Step 8: Press "MY" button and the motor will stop.

Step 9: Press "MY" button CONSTANTLY until motor jogs to confirm the settings (5 seconds)

Step 10: Finally, press the "PROGRAMING BUTTON" on the back of the transmitter until the motor jogs (to leave the installation mode).

5.5.1. Reseting

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

Step 2: Plug in 10 seconds

Step 3: Unplug 2 seconds

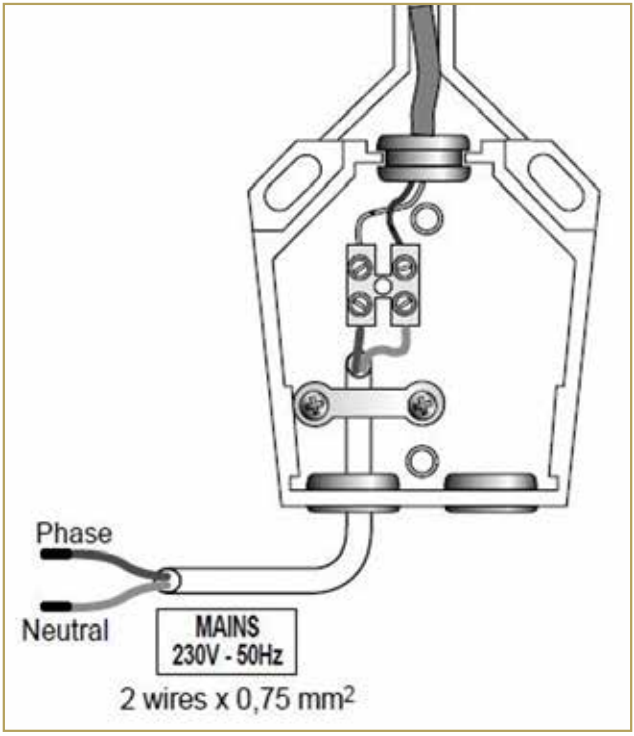
Step 4: Plug in 10 seconds, the ALTUS motor will jog briefly

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

6. SENSORS

6.1. Connection to EOLIS RTS sensor

6.1.1. Cabling



6.1.2. 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)

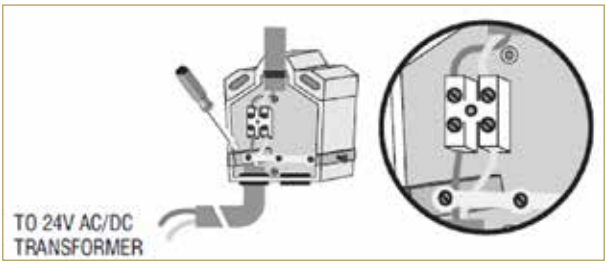
6.1.3. Functioning

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.

6.2. Connection to SOLIRIS RTS Sensor

6.2.1. Cabling



6.2.2. 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.

6.2.3 Operation

- The SOLIRIS RTS Sensor controls and provides a measure of protection for a awning 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 awning indicates the modification of the sensor settings.

6.2.4 Connection to SUNIS RTS Sensor
Charging

IMPORTANT REMARKS BEFORE INSTALLATION

- Expose the sensor 20 minutes to the daylight to initialize its autonomous system (Place to cells under the maximum daylight intensity.)
- To verify charging level of the sensor, press briefly "Mode" button: if LED lights = ready for use.
- Up to 3 sensors can be memorized in one motor, it could be combined with other RTS sensors (Eolis Sensor RTS, Soliris Sensor RTS)
- One Sunis RTS Sensor can be memorized is several motors.
- Supply: Solar
- Autonomy: 24 hours without new daylight intensity.

6.2.5. Programming

- By pressing more than 2 second "prog" button of Remote Control until motor feedback.
- By pressing briefly "prog" button of sensor

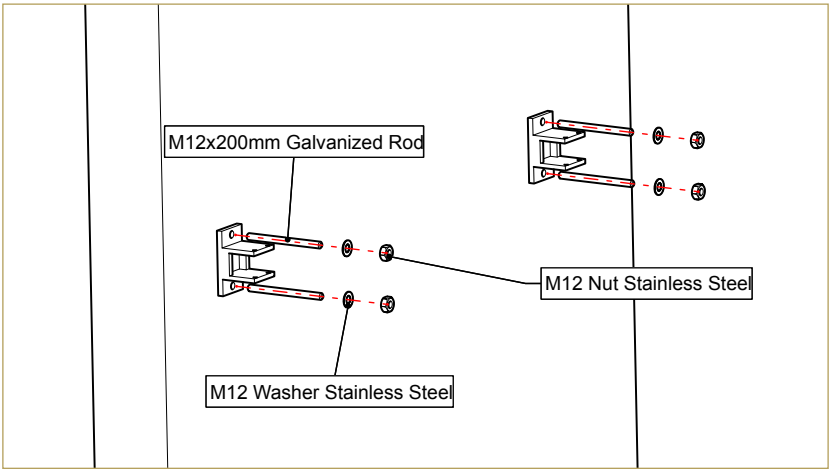
7. HARDWARE

7.1. Wall - Wall Bracket

M12x200mm galvanized rod

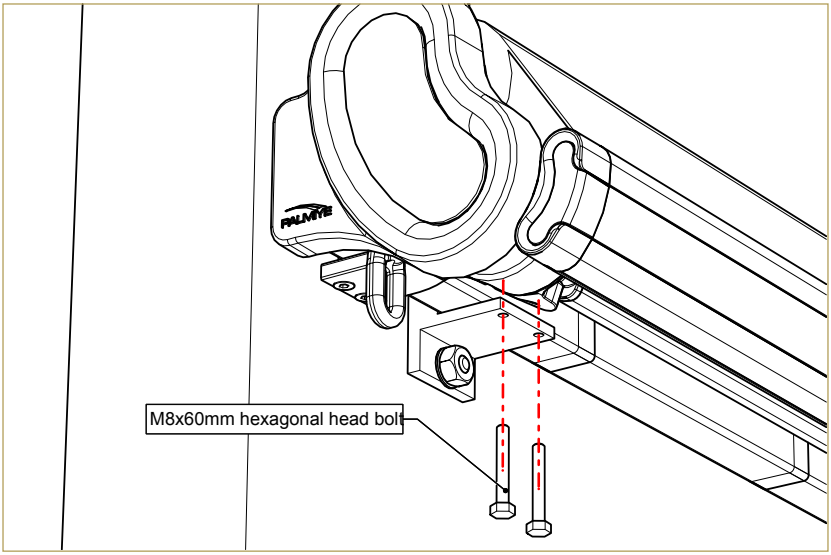
M12 Stainless steel nut

M12 Stainless steel washer



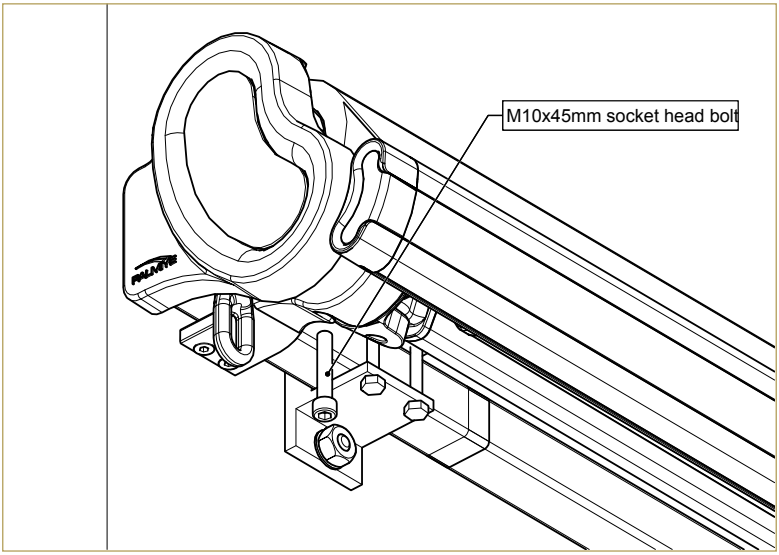
7.2. Wall Bracket - Awning

M8x60mm hexagonal head bolt



7.3. Slope Adjustment Bolt

M10x45mm socket head bolt



8. TOOLS

Image	Product	Description	Product Code
	Palmiye T-Shirt	For Installation teams	HZM.ISG.G1009BRUT
	Palmiye Trousers	For Installation teams	HZM.ISG.G1014.BRUT
	Palmiye Waistcoat	For Installation teams	HZM.ISG.1013.BRUT
	Sealant (Black)	to block the passage of water through the surface or joints or openings in materials	HRD.KMY.G0016.SYAH
	Sealant (White)	to block the passage of water through the surface or joints or openings in materials	HRD.KMY.G0017.BYAZ
	Sealant (Grey)	to block the passage of water through the surface or joints or openings in materials	HRD.KMY.G0022.GREY
	Epoxy	to anchor rods to concrete	HRD.KMY.G1027.BRUT
	M12 Rod	to fix and stabilaze products to ground/wall/ ceiling	HRD.CVT.G0100.ZINC
	M30 - Rod Galvanized	to fix and stabilaze products to ground/wall/ ceiling	HRD.CVT.G0105.ZINC
	M12 Rondela Washer - Stainless Steel	part to to fix and stabilaze products to ground/wall/ceiling	HRD.CVT.G1062.PSMZ
	M12 Washer Stainless Steel	part to to fix and stabilaze products to ground/wall/ceiling	HRD.PUL.G0003.PSMZ
	M30 Washer - Galvanized	part to to fix and stabilaze products to ground/wall/ceiling	HRD.PUwG0014.ZINC
	M12 Acorn Nut	part to to fix and stabilaze products to ground/wall/ceiling	HRD.SMN.G0008.ZINC
	M12 Nut Stainless Steel	part to to fix and stabilaze products to ground/wall/ceiling	HRD.SMN.G0011.PSMZ
	M30 Nut - Galvanized	part to to fix and stabilaze products to ground/wall/ceiling	HRD.SMN.G0022.ZINC

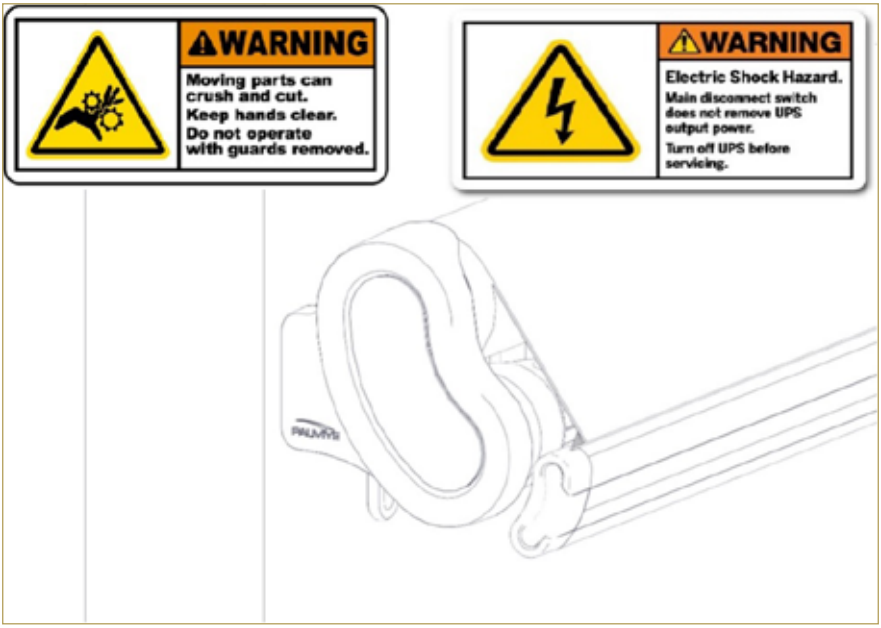
INSTALLATION TOOL LIST		
	Tool box with wheel	**1 pc**
	Spiral grinder	**1 pc**
	Batery driller.	**1 pc**
	Electric impact drill	**1 pc**
	Lighting	**2 pc**
	Extansion lead	**2 pc**
	Ladder	**2 pc**
	Tape measure 5m	**1 pc**
	Tape measure 10m	**1 pc**
	Water gauge	**2 pc**
	Laser Meter	**1 pc**
	35 cm angle	**1 pc**
	Wrench Set	**2 Set**
	Flush Cutter	**2 pc**
	Pliers	**2 pc**

	Allen wrench set	**2 Set**
	Socket wrench	**1 pc**
	Screw driver	**1 Set**
	Plastic hammer	**1 pc**
	Iron hammer	**2 pc**
	Electrical screw driver	**2 pc**
	Cutter	**1 pc**
	Slicon gun	**2 pc**
	Bits	**2 Set**
	PH2X100 Bits	**2 pc**
	APEX 493 A Bits	**2 pc**
	Insulating Tape (Black)	**6 pc**
	Insulating Tape (White)	**6 pc**
	Glue	**2 pc**
	Punch driller 70 mm	**2 pc**
	Guide drill bit	**1 set**

9. 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.
Both parts of the product does not close at an equal level	The product is out of square	Check the cross dimensions and adjust it.
	Installation error	Please call our technical service.
The remote controller does not work	It does not control the product	The switch to which power is supplied should be checked and one should make sure that power is supplied. Please call our technical service if the problem persists.
	Lights are not on	
Wind / sun sensor does not work	No power	The switch to which power is supplied should be checked and one should make sure that power is supplied. Please call our technical service if the problem persists.
	Energy current is not regular	The system might have reset itself. Follow the resetting and identification processes specified in the technical catalog. Please call our technical service if the problem persists.

10. RISK TABLE



11. MOTORIZATION

Altus motors must be used in the awnings. Because Altus motors needs defined to front and back limit.

Somfy Altus RTS 40/17 and Mariner 40/12 motor is able to used. They are controlling by remote control devices.

	Nominal Torque (Nm)	Nominal Speed (rpm)	Rated Power (W)	Rated Current (A)	Thermal Tripping (^{0}C)	Noise (dBA)
Altus	40	17	270	1,2	140	57
Mariner*	40	12	240	1,1	150	55
LT50 Altus	40	14		1,8	250 turns	

*Only manual and motorized+manual versions.
*Manual + motorized version available only on 230V/50Hz.
This motor can be mounted on the left or right side of the awning and it is compatible with the RTS sensors. It features an integrated radio receiver with remote limit setting and a remote user programmable intermediate stop.

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