

# SkyFlex OpenSky 2 IN 1 RETRACTABLE PERGOLA

## Installation Manual

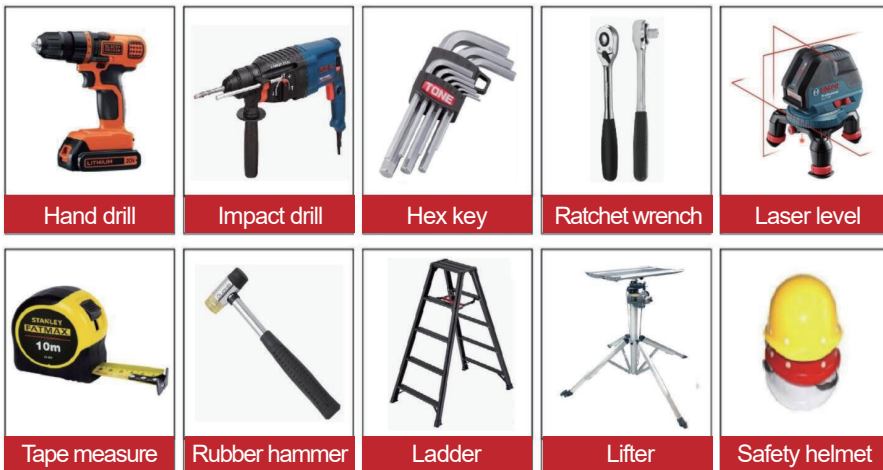
2025 Ver. 2.0



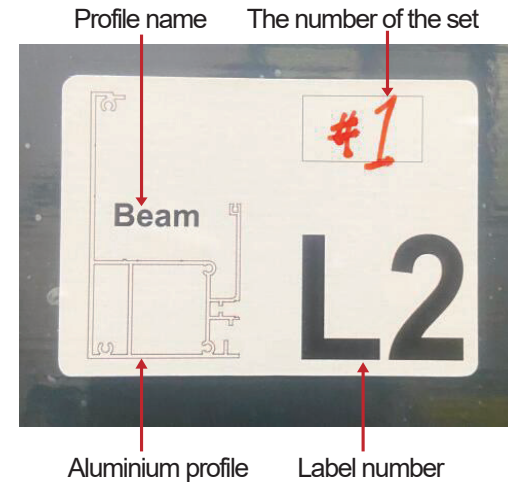
Before starting your pergola installation, please review the following notes:

1. This manual offers general guidance. Please read it carefully before starting the assembly process. For detailed instructions and specifications tailored to your custom order, refer to the accompanying drawings and tips.
2. Verify all items against the package list and keep the packaging until you are certain the pergola is fully assembled.
3. The assembly process requires a minimum of three people and require a lifting device to handle the beams.
4. Exercise caution when handling parts to avoid damage; consider placing a protective covering like a carpet or cardboard on the floor to prevent scratches.
5. Do not install on rainy days and ensure cables and motors are kept dry to avoid moisture damage.
6. We are not responsible for damage resulting from human error, especially incorrect assembly.
7. Should you face any difficulties during installation, please contact us promptly for support.

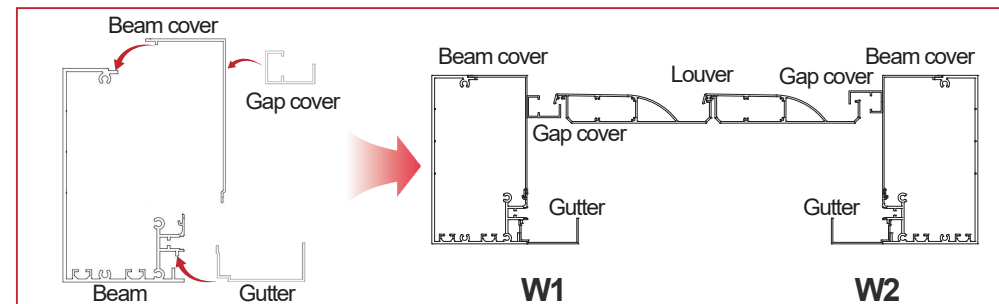
## Essential Tools for Your Assembly Project



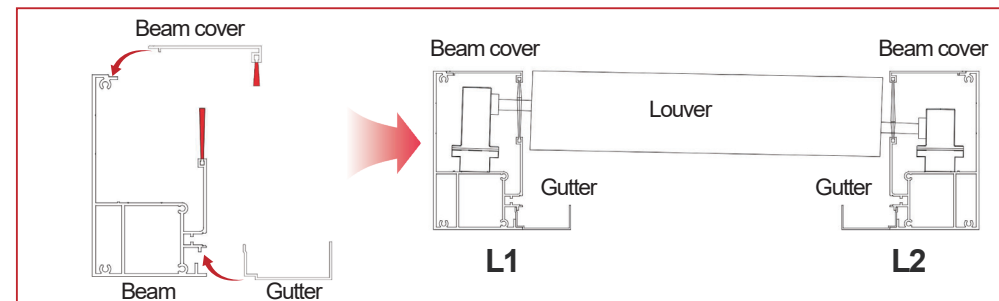
All aluminum components are labeled. Verify each label to identify the corresponding parts.

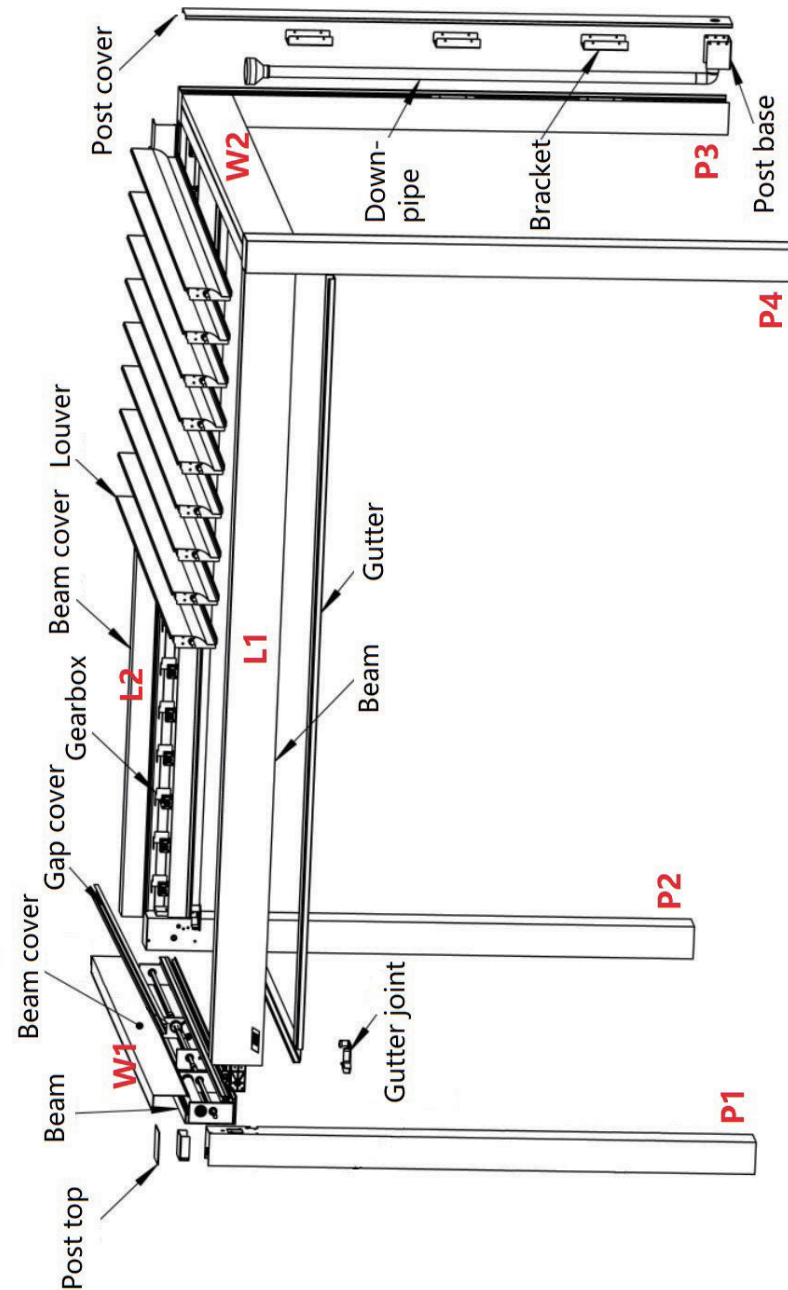


**W1, W2 represent width beam (motors and controllers inside)**



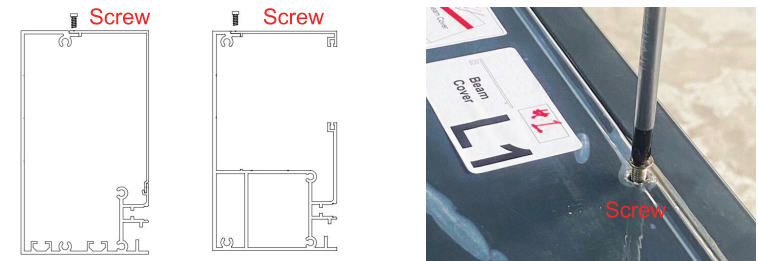
**L1, L2 represent longitude beam (tracks and gearboxes inside)**





## ① Unpack beams and install brushes

1.1 Remove all tightened screws from beams W1, W2, L1, and L2

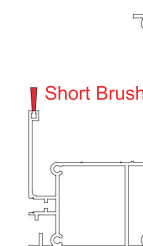
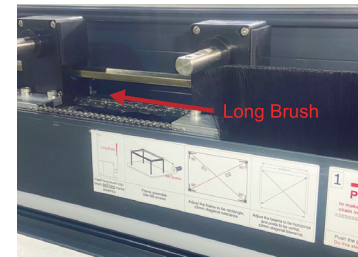


Remove screws, lift beam cover, and take out the gutters, brushes, and gap covers.

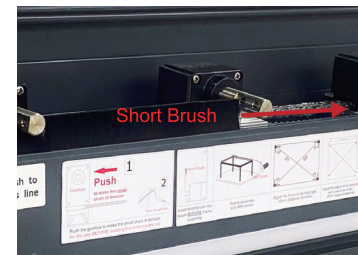
1.2 Insert brushes into corresponding beams



Insert the long brush into beam W1.



Insert the long brush into beam W1.

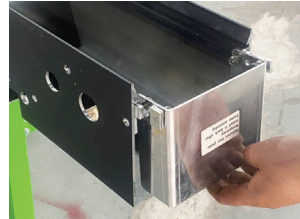
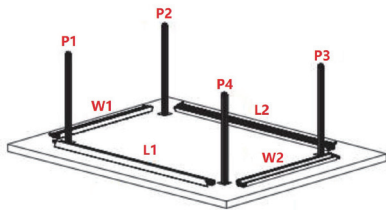


This step must be completed before frame assembly.

# INSTALLATION INSTRUCTION

## 2 Frame assembly

### 2.1 Preparation



Locate labels on posts and beams. Remove post covers and top plates.

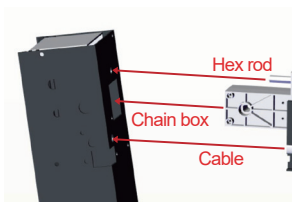
### 2.2 Attach beam L1 to post P1 using M8 screws



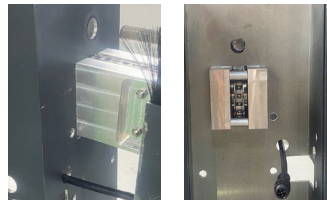
Take ring off hex rod.



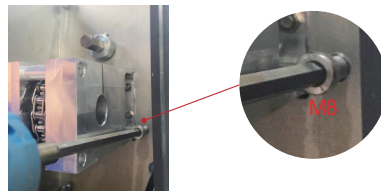
Lift beam L1 with lifter.



Insert cable, chain box and hex rod into post carefully. Do not rotate hex rod.



Put ring back on hex rod. Keep reference lines straight.



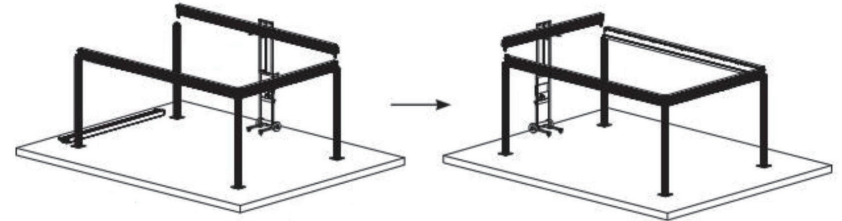
Use M8 screw to secure beam and post.

### 2.3 Attach beam W1 to post P1 using M8 screws

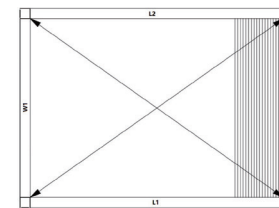


Insert cable and universal joint into post carefully.

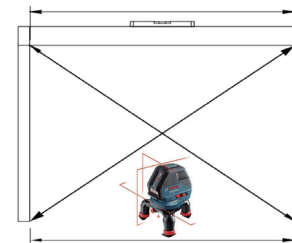
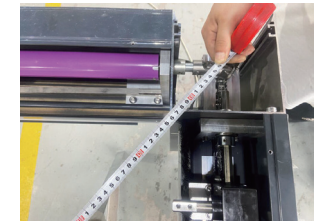
### 2.4 Same steps to P2, P3, P4



### 2.5 Adjust frame and posts



Use laser and tape to adjust frame to rectangle,  $\pm 2\text{mm}$  diagonal tolerance.



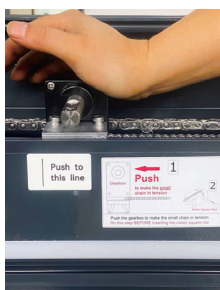
Use laser and tape to adjust the beams to be horizontal and posts to be vertical,  $\pm 2\text{mm}$  diagonal tolerance.



# INSTALLATION INSTRUCTION

## ③ Install transmission parts

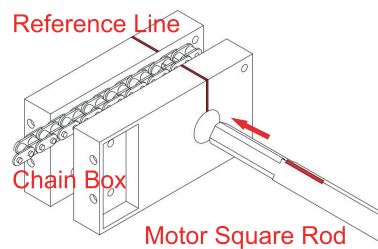
### 3.1 Push gearboxes to marked lines



Gearboxes may shift during transportation. Before inserting the motor square rod, push them back to the marked lines. Failing to do so will make inserting the square rod nearly impossible or incorrect.

Push gearboxes on beam L1 and L2 to marked lines.

### 3.2 Insert square rods into chain boxes



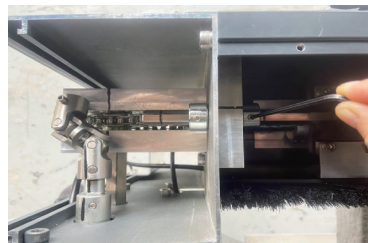
Insert the motor square rods through the bearings and then into the chain boxes. Keep the reference lines straight.

### 3.3 Connect all square rods to form one piece



Use couplings to connect square rods. Keep the reference lines straight. Tighten the screws.

### 3.4 Loosen the screws of the hex rings on the rod



4 hex rings

### 3.5 Insert hex rod into universal joint



Use a rubber hammer to tap the hex rod from the other side and insert it into the universal joint.



Do not rotate the rod and keep the reference lines straight.



Fasten the screw.

### 3.6 Fasten the screws of the hex rings on the rod

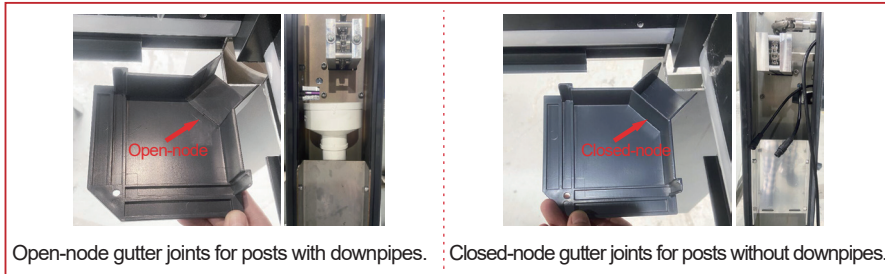


4 hex rings

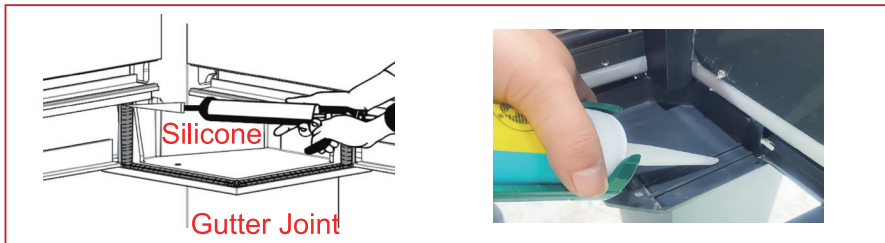
# INSTALLATION INSTRUCTION

## 4 Install gutters

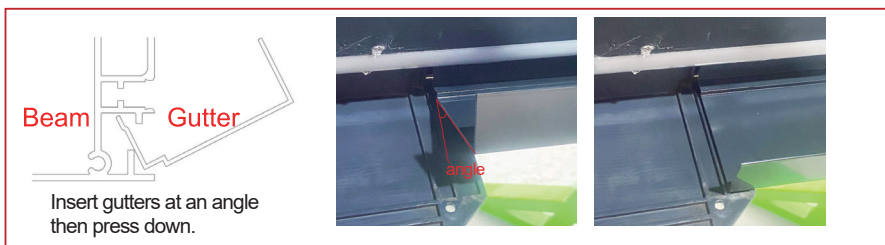
### 4.1 Insert gutter joints into posts



### 4.2 Put silicone along the entire edge of the gutter joints



### 4.3 Install gutter like this



### 4.4 Put silicone and use plastic triangle and screw to secure gutter and gutter joint

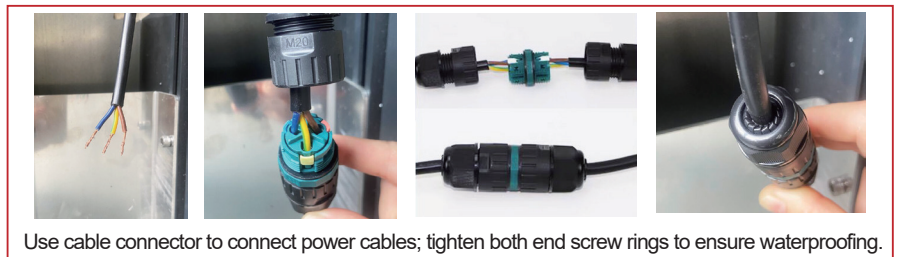


## 5 Electric wiring

### ⚠ Before connecting power, verify the following:

- Ensure gearboxes are aligned with the marked lines.
- Confirm square rods are correctly inserted into the chain box, with reference lines straight.
- Verify square rod couplings are securely fastened.
- Check hex rods are properly inserted into the universal joint, with reference lines straight.
- Make sure all screws on hex rings and universal joints are tightened.
- Adjust beams and posts to form a rectangle.

### 5.1 Connect to the power



### 5.2 Power on and test with the remote control (see page 15) to check functionality

### 5.3 Connect the LED cable connectors and fasten the screw rings



### 5.4 Thread 3 cables through the post holes and attach the connectors

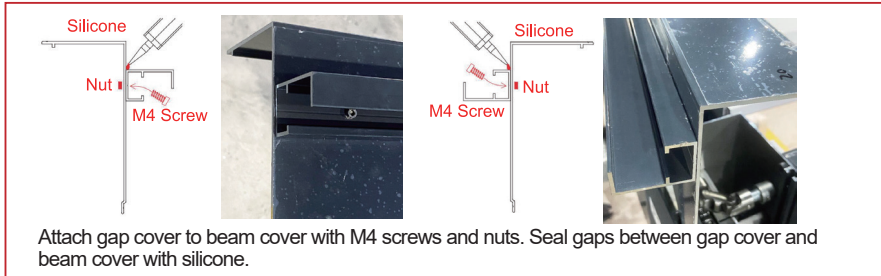




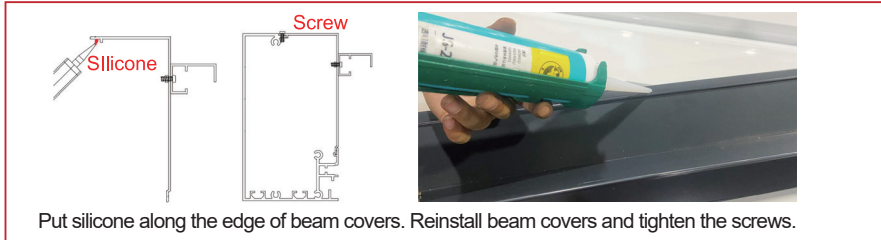
# INSTALLATION INSTRUCTION

## ⑥ Install beam cover W1, W2

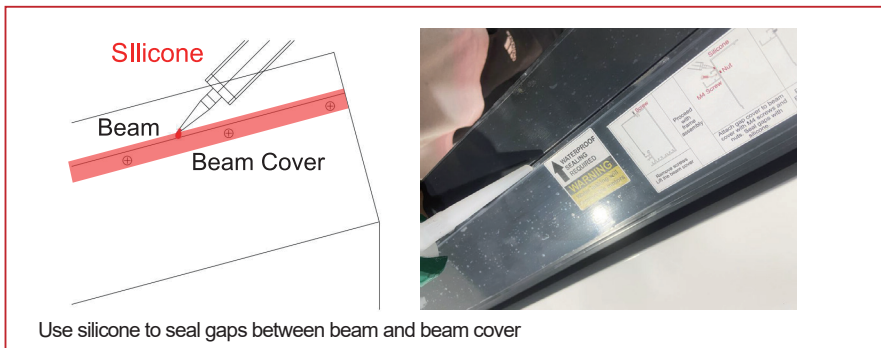
6.1 Attach gap covers to beam covers ( not all orders include gap covers )



6.2 Reinstall beam covers



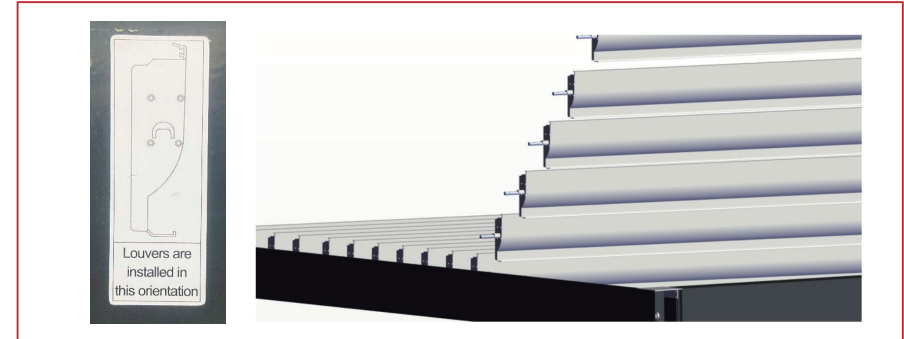
6.3 Seal all gaps to maintain waterproofing



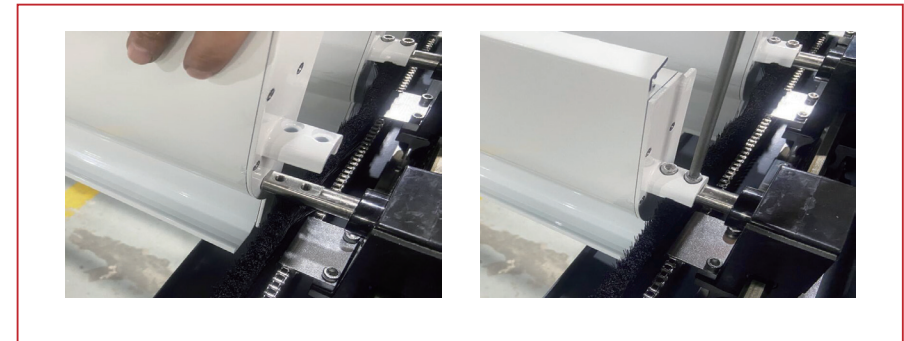
Several instances have been reported where improper sealing by customers led to motor damage. To avoid such issues, it is crucial to seal all gaps along the beams thoroughly to ensure complete waterproofing.

## ⑦ Install louvres

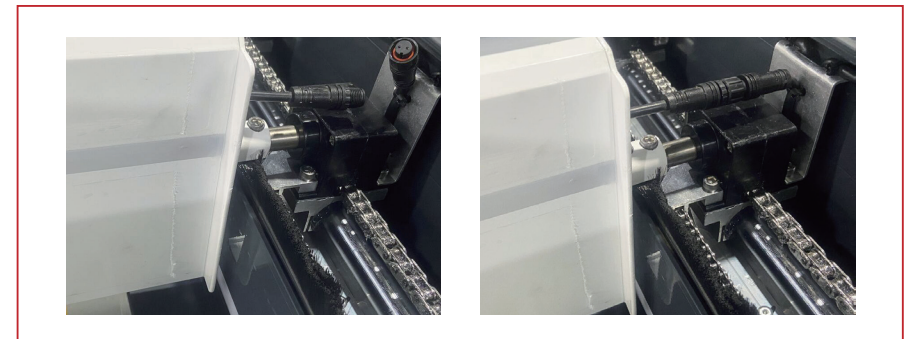
7.1 Look the beam label for correct louvre orientation



7.2 Place louvres onto gearboxes and secure them with M6 screws



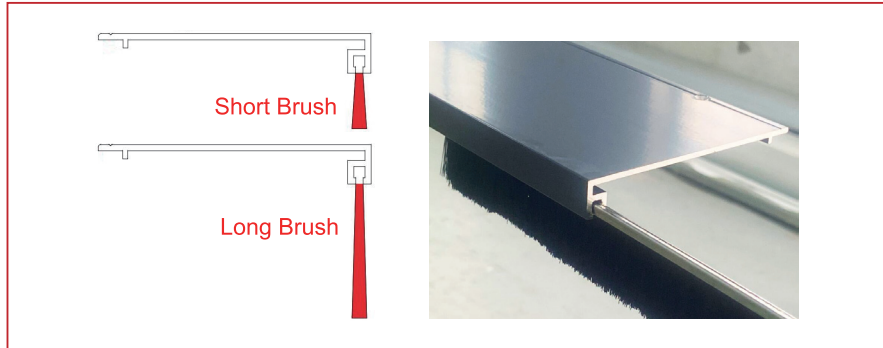
7.3 Connect the LED cable connectors and secure the screw rings



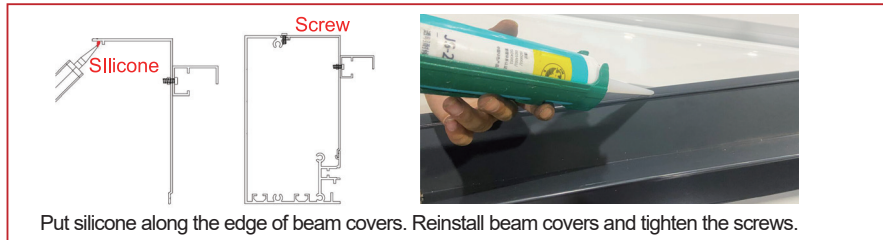
# INSTALLATION INSTRUCTION

## ⑧ Install beam cover L1, L2

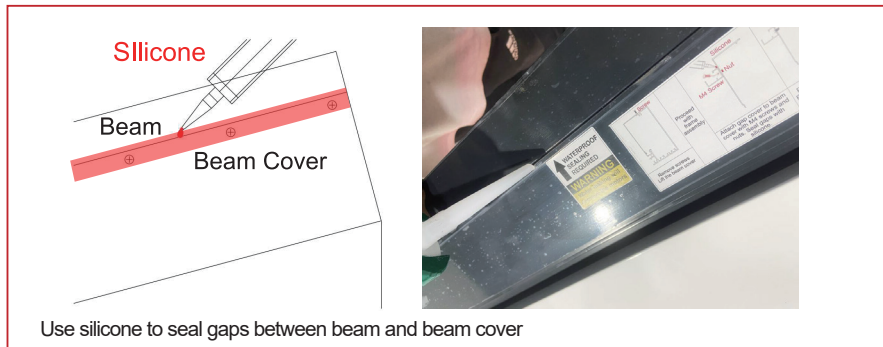
8.1 Insert long or short brushes into beam covers per label guidance



8.2 Reinstall beam covers

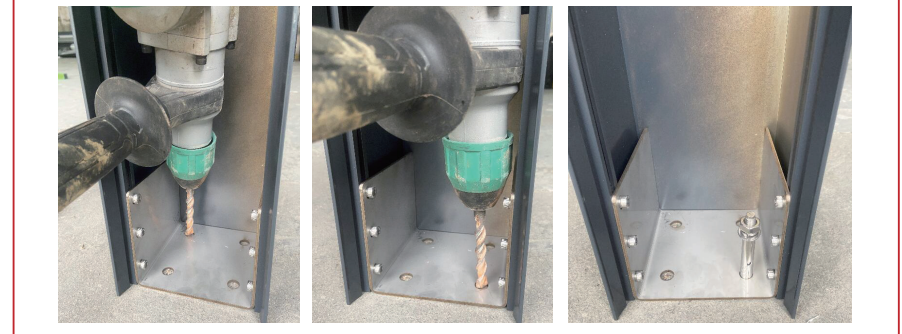


8.3 Seal all gaps to maintain waterproofing



## ⑨ Fasten posts and install post covers

9.1 Drill holes with an impact drill and secure with expansion bolts



9.2 Secure post covers onto posts by pressing or knocking them in (silicone glue not required)

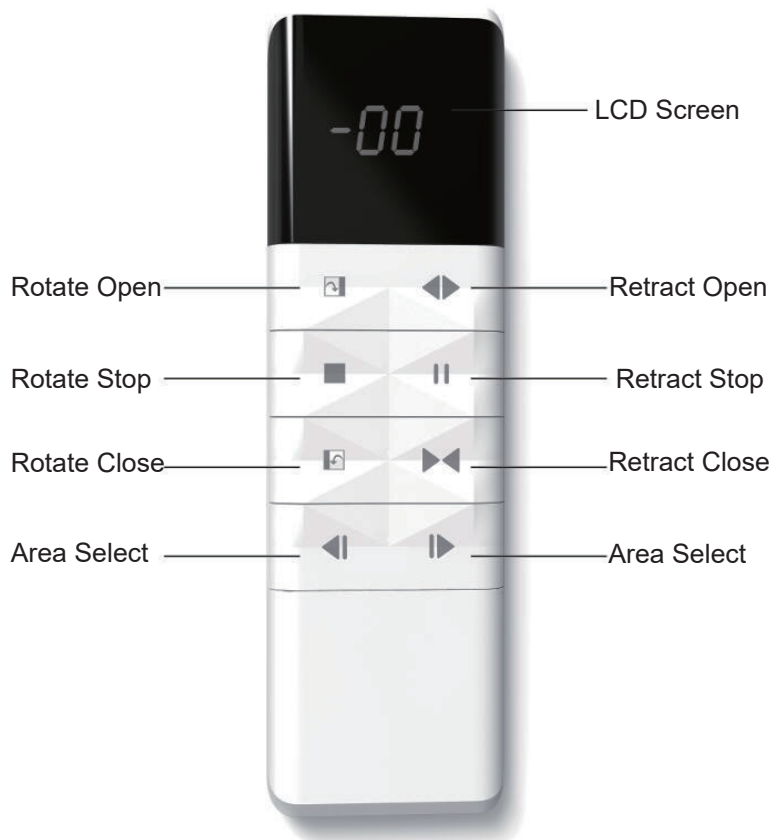


9.3 Install top covers





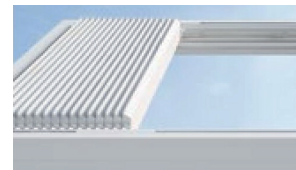
# REMOTE CONTROL - LOUVER OPERATION



**Rotate Open:** The louvers will rotate to open.

**Rotate Stop:** Stops the rotation whenever you choose.

**Rotate Close:** The louvers will rotate to close.

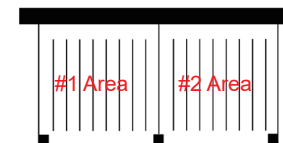


**Retract Open:** The louvers will retract to one end.

**Retract Stop:** Stops the retraction whenever you choose.

**Retract Close:** The louvers will extend back to close.

**Area Select:** Select the pergola to control.



Choose a single area for targeted control, or choose 'ALL' to operate all areas simultaneously.

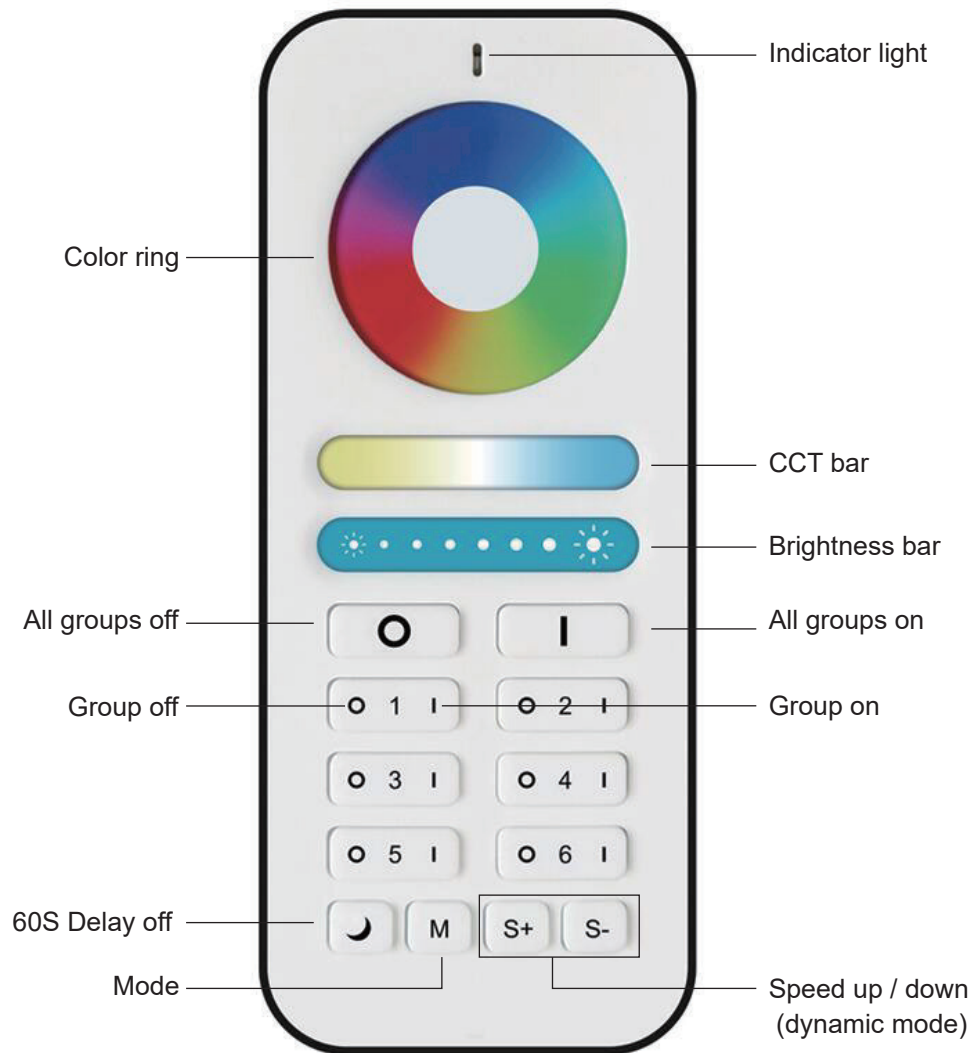
## Specific Functions

**Auto-Vertical:** Press and hold the "Rotate Stop" button for 2 seconds. The louvers will automatically rotate to 90°.

**Retract Open:** Press the "Retract Open" button. The louvers will rotate to the vertical position and retract to one side.

**Alarm:** If the louvers are not fully extended (retract close), pressing the rotate button will trigger a Beep-Beep alarm and will not rotate.

# REMOTE CONTROL - LED LIGHT



## Button Functions:

1. **Color ring:** Adjust RGB color.
2. **CCT bar:** Adjust color temperature.
3. **Brightness bar:** Adjust the brightness.
4. **All off:** All groups OFF.
5. **All on:** All groups ON.
6. **Group off:** Turn off the devices paired to the group selected.
7. **Group on:** Turn on the devices paired to the group selected.
8. **Moon Key(☾):** Long press for 2 seconds, the indicator light will flash 3 times, indicating a 60-second countdown to turn off the lights when the countdown ends, the lights will turn off.
9. **Mode Key(M):** Switch 9 different modes.
10. **Speed Keys (S+/S-):** Adjust the changing speed of dynamic mode selected.

## SkyFlex Outdoor Systems

