

111 DA e-Motion+

INSTRUCTION MANUAL



6 PILLARS

THANK YOU FOR PURCHASING 111 Pergola e-Motion+



This manual will provide you with clear and detailed instructions on how to safely and correctly assemble and maintain your pergola, to ensure it brings you many years of use and enjoyment.

IMPORTANT

Warning: Important safety instructions. It is important for the safety of persons to follow these instructions. Save these instructions.

This product can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the product in a safe way and understand the hazards involved. Children shall not play with the product. Cleaning and user maintenance shall not be made by children without supervision.

Intended use

This pergola is intended for outdoor domestic use in residential environments, and to protect users from direct sunlight, glare and heat . Any use or modification to the pergola not included in this manual shall be considered as improper use, which may cause considerable danger to users and property and will void the product warranty.

E-mail: info@miradoroutdoor.de

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BEFORE ASSEMBLING YOUR PERGOLA

WARNING: Important safety instructions. Follow all instructions, since incorrect installation can lead to severe injury.

Make sure you have all the tools required for assembling your pergola:

In order to assemble your pergola safely and correctly, please ensure you have access to the following tools and accessories, all of which are not provided.



Hard hat



Protective gloves



Box cutter



Tape measure



Spirit level



Phillips screwdriver



Cordless screwdriver



Hexagonal spanner/
wrench set



Hammer drill



Hammer



2 step ladders



Scissors

Check to ensure there are no missing parts:







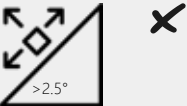
Before you begin installation, please check that you have all the parts required to assemble your e-Motion. Please also carefully check that the quantity of parts match with that of the model you have purchased.

If any parts are missing, please refer **Warranty & Complaints Procedure** to contact customer service before beginning the installation.

Prepare the parts you will need for each step:

In the **Installation** section of the manual, each step indicates the necessary parts and quantities required to complete the step. We recommend that you prepare the parts you will need for each installation step. Doing this will save you time and effort during assembly. If possible, place the parts on cardboard or other soft surface to protect from scratching the painted surfaces.

Select a suitable location:

| The ground should be solid and flat | The ground should be level | Sufficient water drainage | Easy access to power | No overhanging trees and powerlines |
|---|---|---|--|---|
|  |  |  |  |  |
|  |  | | | |

Warning:

Most terraces or patios are designed with a slight slope to prevent (rain) water from forming pools or reaching the house or other structures. For the perfect pergola installation, a level concrete surface without such a slope is required. Small pebbles could also prevent the pergola from being safely secured on the ground.

If the pergola is installed on an uneven surface, it may prevent accessory components from working correctly and may void the product warranty.

Prepare a foundation:

To prepare it, you need to:

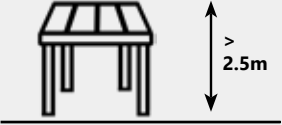
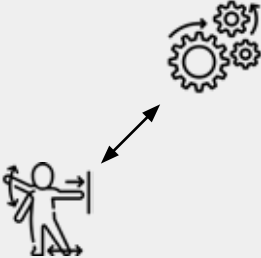






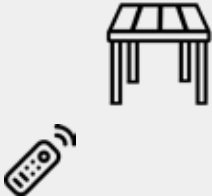
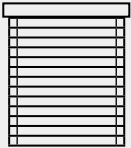


- check for underground pipes and cables (Call 811 before you dig if you live in the USA)
- check with your local authorities regarding any building permits that may be required
- contact a reliable contractor to have concrete base if you don't have one







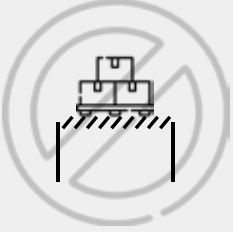




Do not assemble the pergola on sandy, muddy or loose soil, as the stakes do not have the sufficient anchorage to be installed in these types of soil.

IMPORTANT SAFETY ADVICE

For the safety of all persons installing and using the pergola, it is important to follow the safety guidelines below.

| | | | |
|---|---|---|--|
| <p>The pergola must be positioned and fixed on flat level surface.</p> | <p>Always wear appropriate work shoes, gloves and eye protection when working.</p> | <p>Work well away from power lines, particularly when handling metal parts.</p> | <p>If using power tools or a ladder, always follow the manufacturer's safety instructions.</p> |
|  |  |  |  |
| <p>Make sure the pergola complies with local building regulatory codes.</p> | <p>Working at heights can be dangerous. Always wear protective clothing to prevent injury in the event of a fall.</p> | <p>Only use ladders and scaffolding with a sufficiently high load bearing capacity.</p> | <p>Before installing the drive, remove any unnecessary cords and disable any equipment not needed for powered operation.</p> |
|  |  |  |  |

| | | | |
|--|---|--|--|
| <p>Hazardous unprotected moving parts of the drive shall be installed higher than 2.5m above the floor or other level that could provide access to it.</p> | <p>Keep clothing and body parts away from the pergola to prevent them from getting caught in the moving parts.</p> | <p>Foliage or other foreign objects on the louvers and in the guide rails should be removed regularly, to prevent damage to the pergola.</p> | <p>Put the louvers into the vertical position during snowfall or wind to avoid damage.</p> |
|  |  |  |  |
| <p>Only use replacement parts that are approved by the manufacturer.</p> | <p>Electrical installation may only be carried out by certified personnel according to the applicable regulation. (e.g. VDE 100 for Europe)</p> | <p>Make sure all electrical connections are disconnected from the mains during installation.</p> | <p>Mirador electric pergolas should only be connected to power sources that have been installed by a licensed electrical contractor.</p> |
|  <p>✓ Approved</p> |  |  |  |
| <p>The pergola should only be remote controlled when you have a full view of the moving parts.</p> | <p>Installation of accessories not from the same series will void the product warranty and can damage the operating mechanism.</p> | <p>Dispose of all plastic bags safely. Keep them out of the reach of children.</p> | <p>Keep children and pets away from the assembly area until the work is completed.</p> |
|  |  |  |  |

| | | | |
|--|---|---|--|
| <p>Changes to the design or configuration of equipment may not be made without consulting the manufacturer or authorized representative.</p> | <p>Hot items such as recently used grills, fire pits etc. must not be stored under or close of the pergola.</p> | <p>Prior to each operation, visually check the pergola for damage. If damage is visible, stop using it immediately and contact authorized personnel to repair the damage.</p> | <p>If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified people in order to avoid a hazard.</p> |
|  |  |  |  |
| <p>Do not climb on the louvers.</p> | <p>Do not touch moving parts during operation.</p> | <p>Do not place anything on the louvers.</p> | <p>Do not attempt to assemble the pergola in windy or wet conditions.</p> |
|  |  |  |  |
| <p>Do not start the roof mechanism in case of frost or ice build-up, as it may damage the drive of the louvers.</p> | <p>Do not allow children to contact the fixed controls. Keep remote controls away from children.</p> | <p>Hanging objects on the pergola may cause serious damage and is not permitted.</p> | |
|  |  |  | |


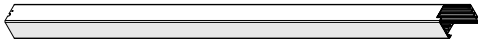
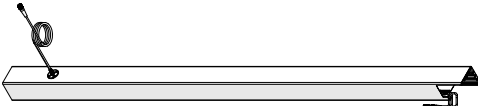



TECHNICAL DATA




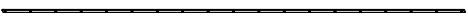
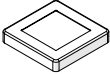
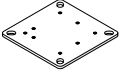
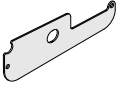

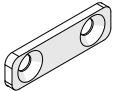
| | | |
|------------------------|-----------------------------------|--|
| Pergola | Continuous Operating Cycle | 10 cycles |
| | Sound Pressure Level | ≤70 dB |
| | Ingress Protection Rating | IPX5 |
| | Wind Resistance | Class 6 (Claimed Beaufort Wind Force Scale 12) |
| Linear Actuator | Input Voltage | 24V DC |
| | Ingress Protection Rating | IP66 |
| Control Box | Input Voltage | 24V DC |
| | Output Voltage | 24V DC |
| | Ingress Protection Rating | IPX5 |
| Light LED Strip | Input Voltage | 24V DC |
| | Wattage Per Meter | ≤10W |
| | Ingress Protection Rating | IP67 |
| Power supply | Input Voltage | 110 to 240V |
| | Ingress Protection Rating | IP67 |
| | Maximum Power | 350VA |
| Control | Control Method | Remote Control + App Control |
| | LTE Frequency band | B1, B3, B7, B8, B20, B28A, B38, B40 |
| | LTE Max Transmit power | 23dBm±2dBm |
| | GSM frequency band | EGSM900 and DCS1800 |
| | GNSS | 1559-1610MHz |
| | Remote control frequency band | 2400MHz~2483MHz |
| | Remote control Max Transmit power | 0dBm |
| Data Center | North America | West Coast: Oregon |
| | | East Coast: Virginia |
| | Europe | Sweden |
| | | Amsterdam |
| | | Frankfurt |








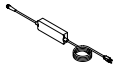












LIST OF PARTS

PLEASE NOTE that the anchor bolts provided may not be suitable for your chosen installation location. Please check before proceeding.

DO NOT USE AN IMPACT CORDLESS SCREW DRIVER TO ASSEMBLE THE PERGOLA. USE A STANDARD CORDLESS SCREW DRIVER ON THE BASE SETTING. ALL HOLES HAVE BEEN PREDRILLED OR FITTED FOR ASSEMBLY.

| REF | Part name | Length | | |
|-----------|--|------------|----------|------------|
| | | 5.3m/17ft. | 6m/20ft. | 7.2m/24ft. |
| A |  Standard corner pillar | 3 | 3 | 3 |
| A1 |  Middle pillar | 2 | 2 | 2 |
| A2 |  Cabled corner pillar | 1 | 1 | 1 |
| B |  Side beam | 1 | 1 | 1 |
| B1 |  Side beam 1 | 1 | 1 | 1 |
| B2 |  Side beam 2 | 1 | 1 | 1 |

| REF | Part name | Length | | |
|-----------|---|------------|----------|------------|
| | | 5.3m/17ft. | 6m/20ft. | 7.2m/24ft. |
| B3 |  Side beam 3 | 1 | 1 | 1 |
| C |  End beam | 2 | 2 | 2 |
| D |  Louver | 34 | 38 | 46 |
| G |  Connecting strip | 2 | 2 | 2 |
| I |  Foot plate cover | 6 | 6 | 6 |
| J |  Foot plate | 6 | 6 | 6 |
| K |  Louver end cap | 67+2 | 75+2 | 91+2 |
| L |  Louver end cap with control arm | 2 | 2 | 2 |
| M |  Shaft support cover | 68+3 | 76+3 | 92+3 |

| | REF | Part Nwame | 5.3m/17ft. | 6m/20ft. | 7.2m/24ft. | | REF | Part Name | 5.3m/17ft. | 6m/20ft. | 7.2m/24ft. |
|-----------|---|-----------------------|------------|----------|------------|------------|---|-------------------------|------------|----------|------------|
| N |  | Corner pillar cover | 4 | 4 | 4 | X |  | Hex key (small) | 1 | 1 | 1 |
| N1 |  | Middle pillar cover | 2 | 2 | 2 | Y |  | Hex key (large) | 2 | 2 | 2 |
| O |  | Screw ST5.65x 45mm | 36+3 | 36+3 | 36+3 | Z |  | 12mm SDS Plus Drill Bit | 1 | 1 | 1 |
| P |  | Screw M5x 12mm | 136+7 | 152+8 | 184+9 | Z4 |  | Power supply | 1 | 1 | 1 |
| Q |  | Screw 4.2x 25mm | 136+7 | 152+8 | 184+9 | Z5 |  | LED light strip | 2 | 2 | 2 |
| R |  | Screw 5.5x 19mm | 16+3 | 16+3 | 16+3 | Z6 |  | Remote control | 1 | 1 | 1 |
| S |  | Cotter pin | 34+5 | 38+6 | 46+7 | Z7 |  | 2.4G and 4G antenna | 1 | 1 | 1 |
| T1 |  | Spacer sleeve | 4 | 4 | 4 | Z8 |  | waterproof tape | 1 | 1 | 1 |
| U1 |  | Socket screw M8x 45mm | 4 | 4 | 4 | Z9 |  | Screw ST4.8x 13mm | 4 | 4 | 4 |
| W |  | Anchor bolt M8x 80mm | 24 | 24 | 24 | Z10 |  | Spare plastic pin | 0+10 | 0+10 | 0+10 |

INSTALLATION

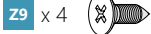


Installation Video

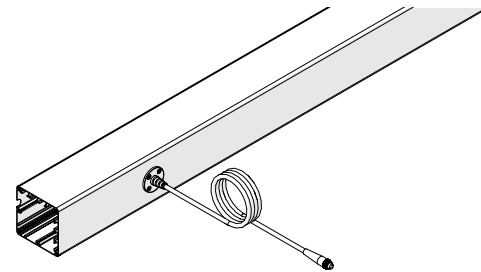
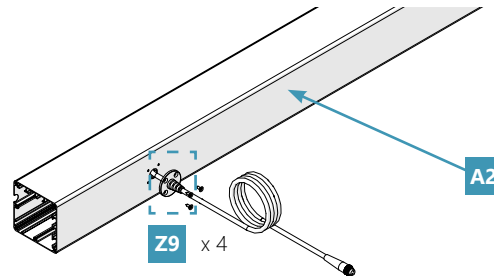
1. Set up the corner pillars

1A

Fix the cable flange with screws **Z9** onto the cabled corner pillar **A2**, and make sure the cable is hanging outside.



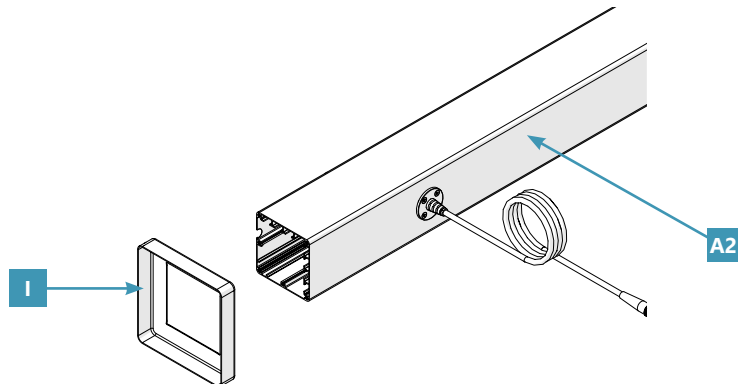
A2 x 1



1B

Slide the foot plate cover **I** with its wide opening facing outwards on the straight end of the cabled corner pillar **A2**.

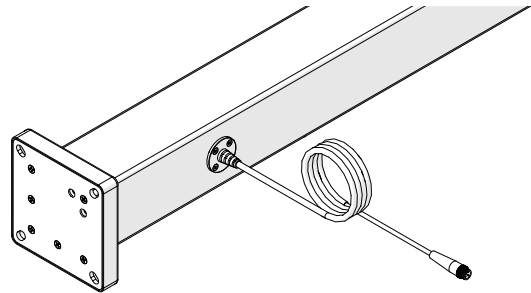
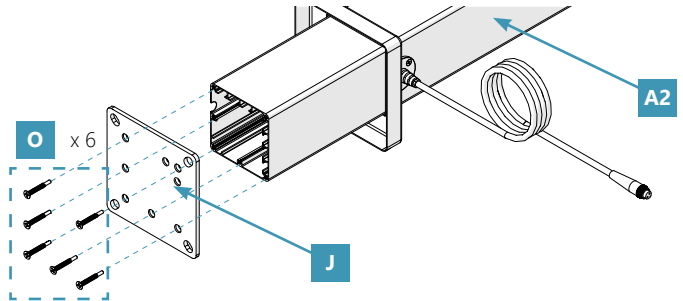
I x 1



1C

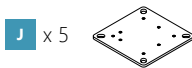
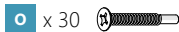
Push the foot plate **J** against the straight end of the cabled corner pillar **A2**. It only fits in one direction and in one position. If in doubt, rotate it until it fits easily.

Screw in the foot plate **J** with 6 screws **O** using a cordless screwdriver.

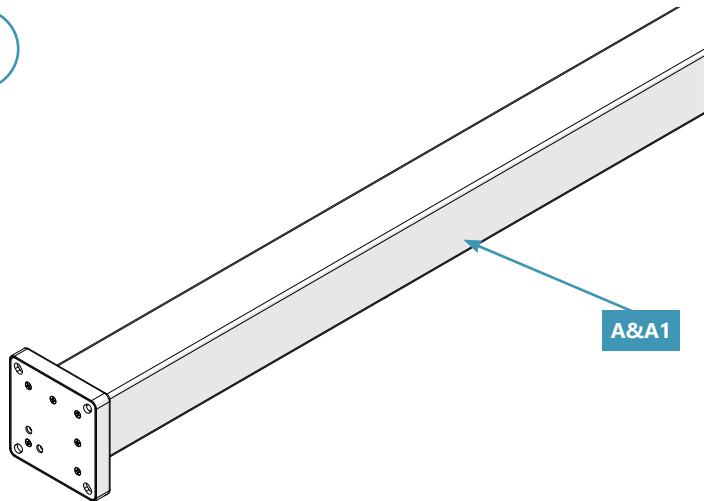


1D

Repeat steps **1B** – **1C** to assemble the foot plates **J** of the 3 standard corner pillar **A** and 2 middle pillars **A1**.



x 5



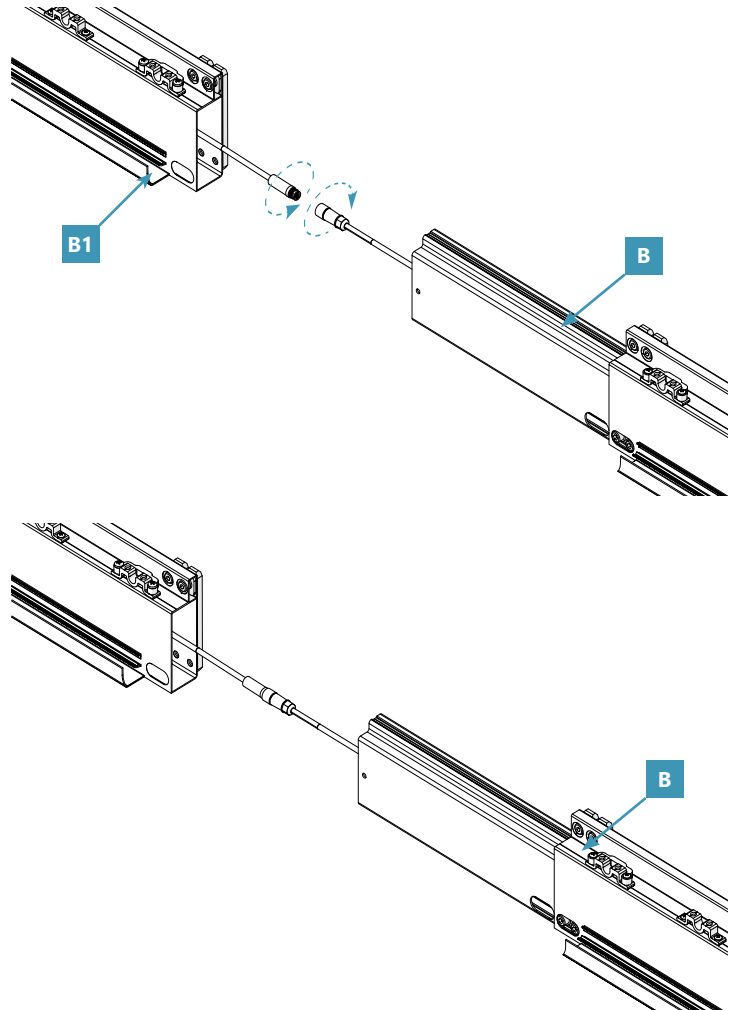
2. Connect side beams **B** and **B1** together, and to their corresponding pillars **A** , **A1** , and **A2**

2A

Pull out the cables from the inside of side beams **B** and **B1** . Connect the two cable sockets together.

Tip:

It is recommended to wrap waterproof adhesive tape on the waterproof connectors to prolong their service life.

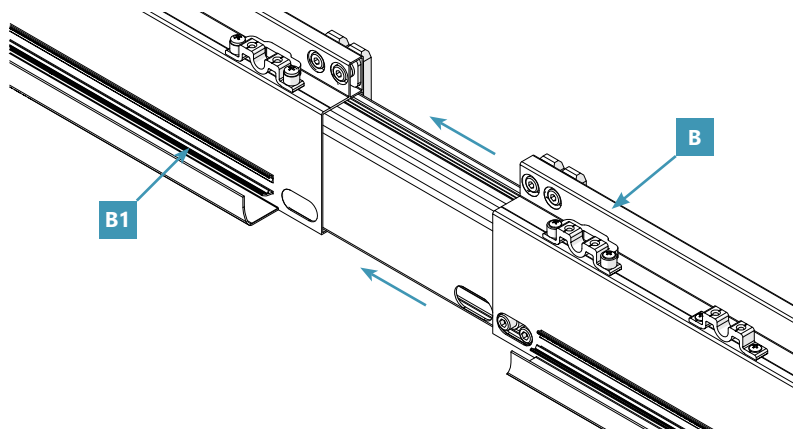


B x1 

B1 x1 

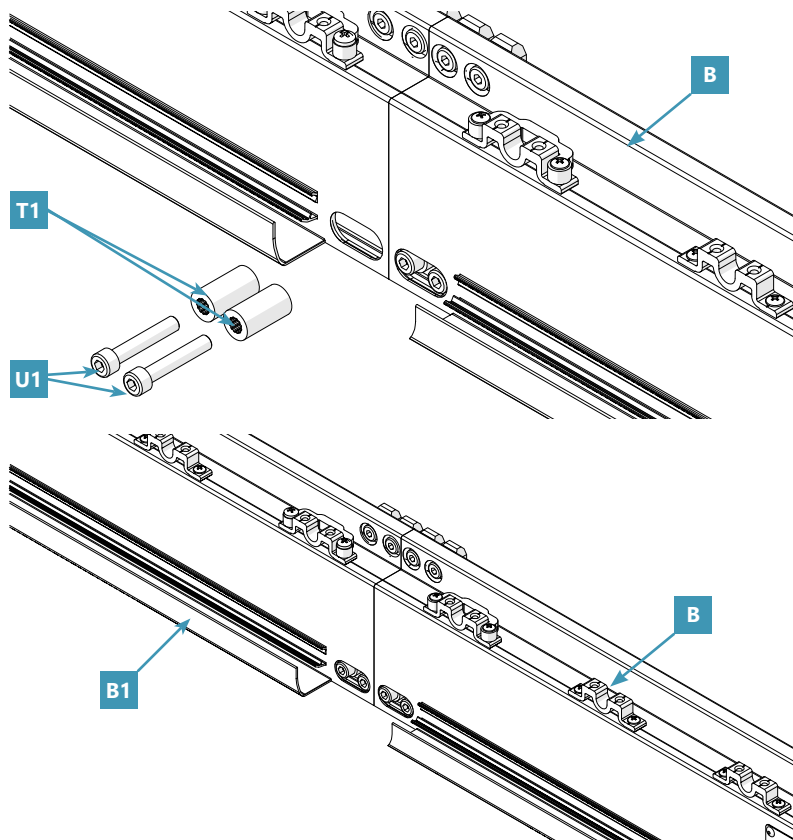
2B


Slot side beam **B** into side beam **B1** until the end section of **B** has been fully inserted and is no longer visible.



2C

Insert the socket screws **U1** into the spacer sleeves **T1**, and place them into the sockets, making sure sides beams **B** and **B1** are firmly connected.



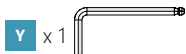
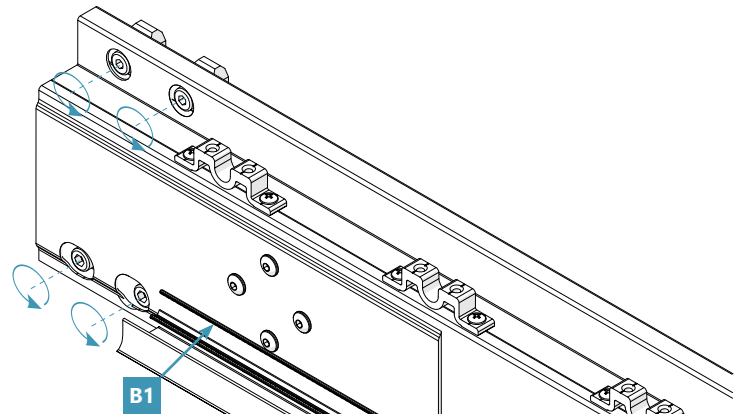
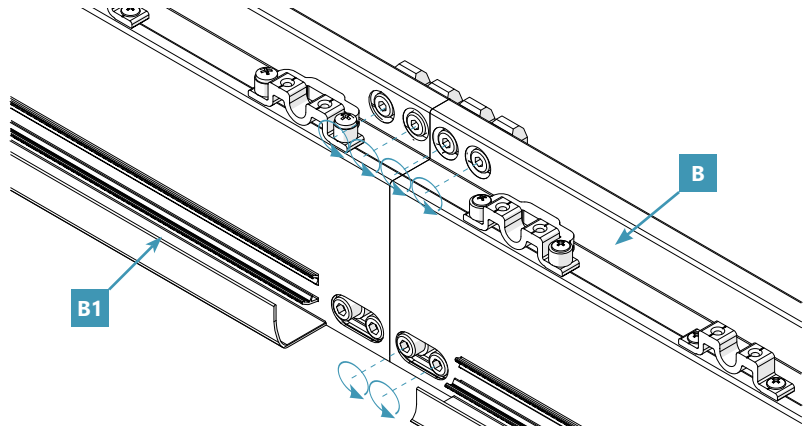
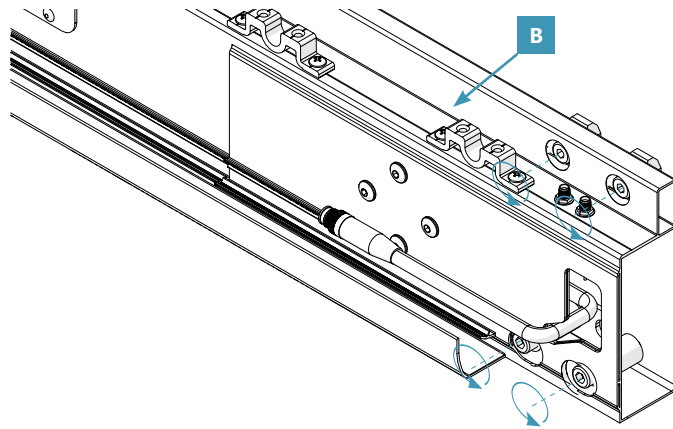
U1 x 2 

T1 x 2 

2D

Then loosen the top 6 built-in screws where the side beams meet in the middle.

Do not touch the bottom 2 screws of **B1**.

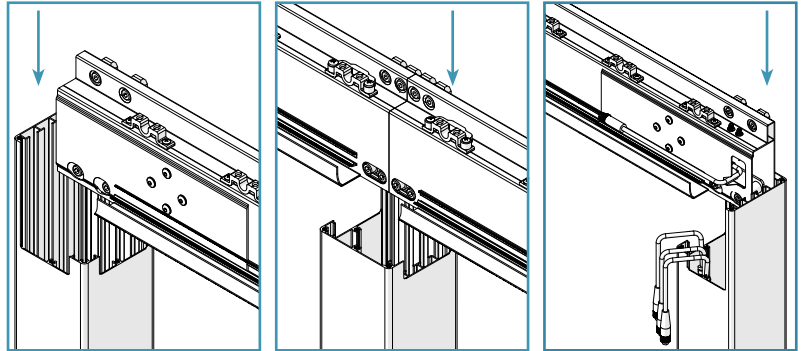
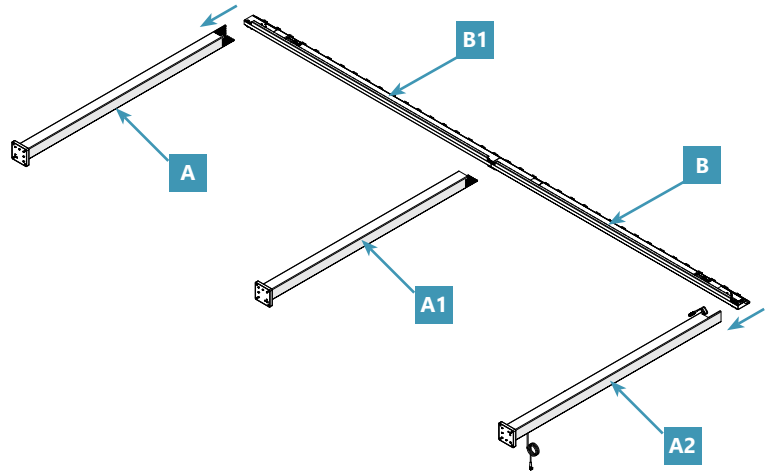


2E

Lay the side beams and pillars on the ground as shown in the opposite figure.

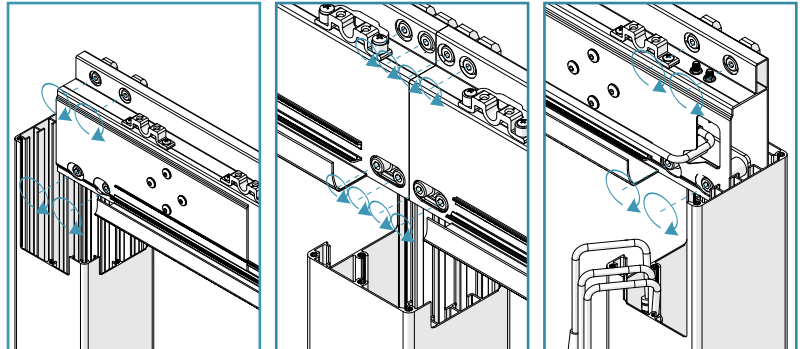
Before inserting the beams, please ensure the ends of the corner cables are pulled outside of the corner pillar.

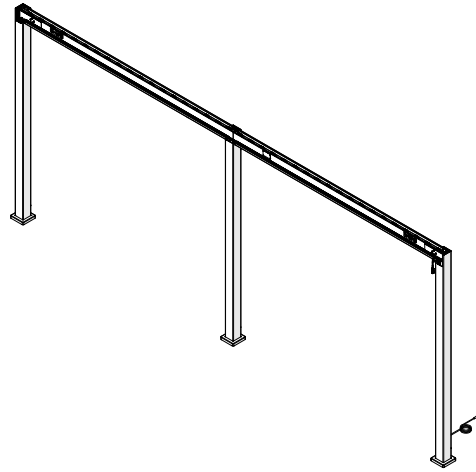
Slide the connected side beams into their corresponding pillars, ensuring that the slot nuts of the side beams interlock with the pillar slots.



2F

Tighten the socket screws, and all built-in screws with the hex key provided.





3. Connect side beams **B2** and **B3** together, and to their corresponding pillars **A** , and **A1**

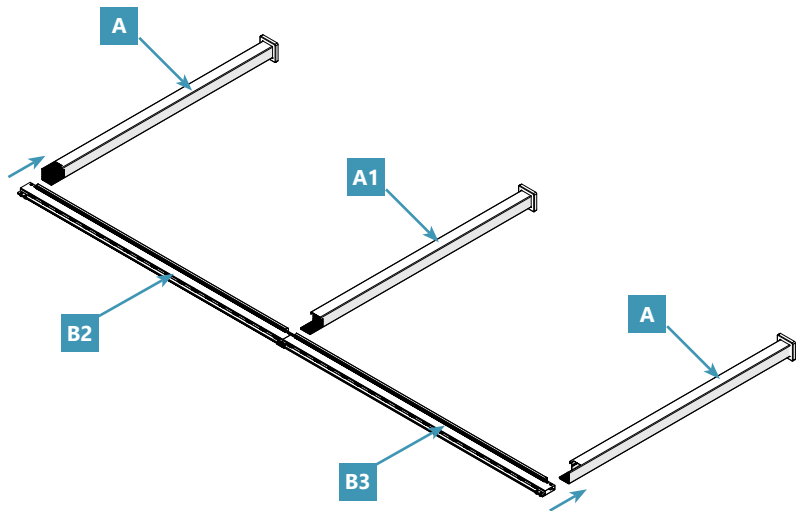
3A

Repeat steps **2A** - **2F** to connect the side beams **B2** and **B3** with the remaining two corner pillars **A** and middle pillar **A1**.

B2 x1



B3 x1



4. Slide in the two end beams

This phase requires four persons and at least two stepladders.
Make sure that the stepladders are standing securely to avoid falling.



6 PEOPLE REQUIRED

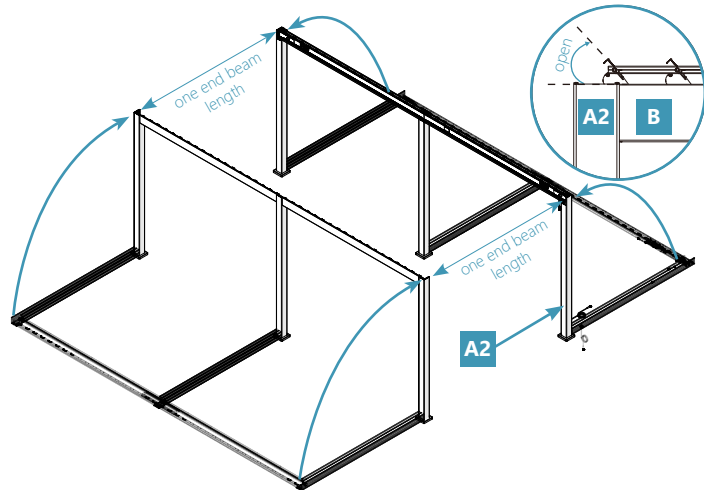
Only use ladders suitable for this kind of installation work.

4A

Stand the two structures built during steps 2 and 3 in an upright position, and place them at one end beam length away from one another. Make sure that one person is supporting pillars **A** and **A2** to prevent the structures from falling.

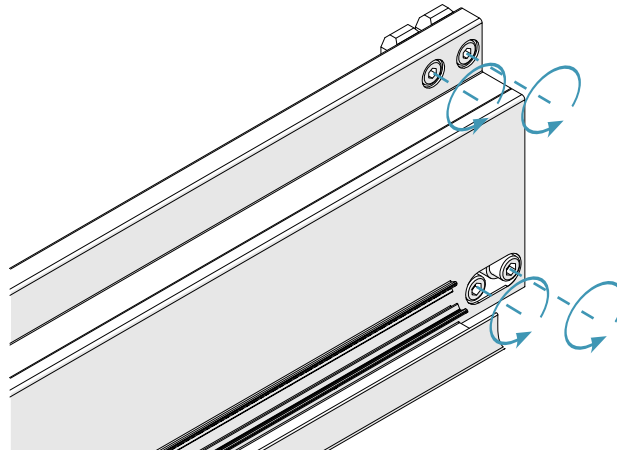
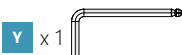
Reminder:

When determining the installation direction of the product, please consider the opening direction of the louvers as well as the desired sunshade effect.



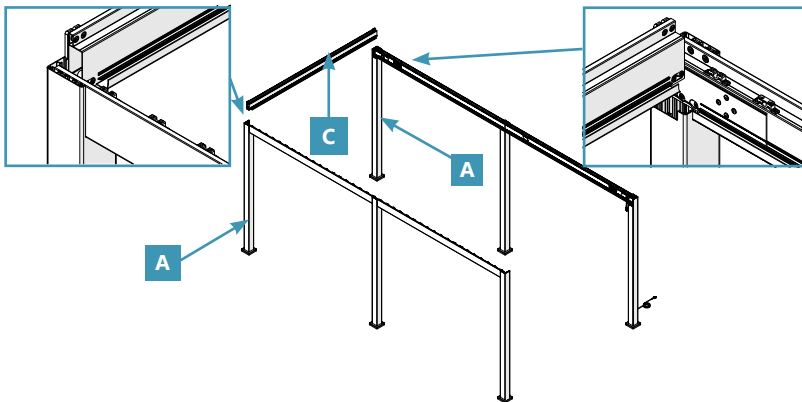
4B

Slightly loosen the 8 built-in screws at both ends of the end beam **C**.



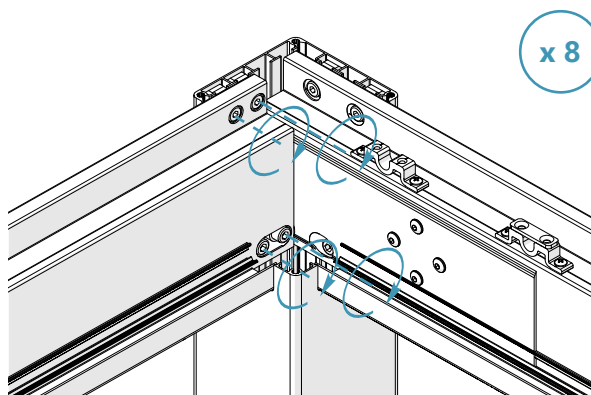
4C

Slide the slot nuts of the end beams **C** from above into the slots of the corner pillars **A**.



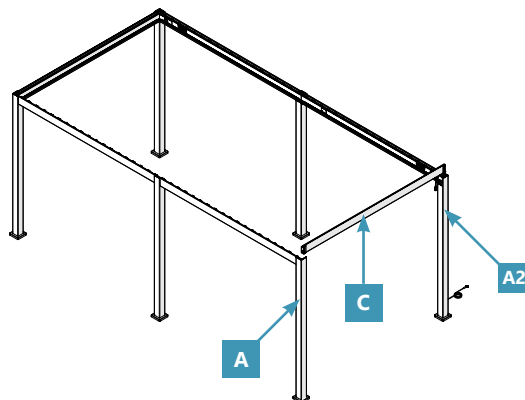
4D

Once the beam is in the correct position, tighten the 8 built-in screws on both ends using the hex key **Y** provided.



4E

Install the other end beam **C** by repeating steps **4B** - **4D**.

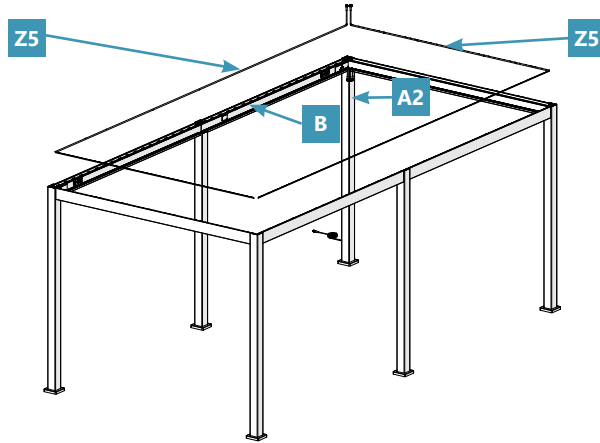


5. Install the LED strip lights

5A

Place both LED light strips **Z5** along the grooves on the side beams **B** and end beams **C**, as shown in the figure. Put the connection socket of the LED light strip **Z5** close to the cabled corner pillar **A2**, and put the tail of the LED light strip **Z5** into the top of the corresponding corner pillar if needed.

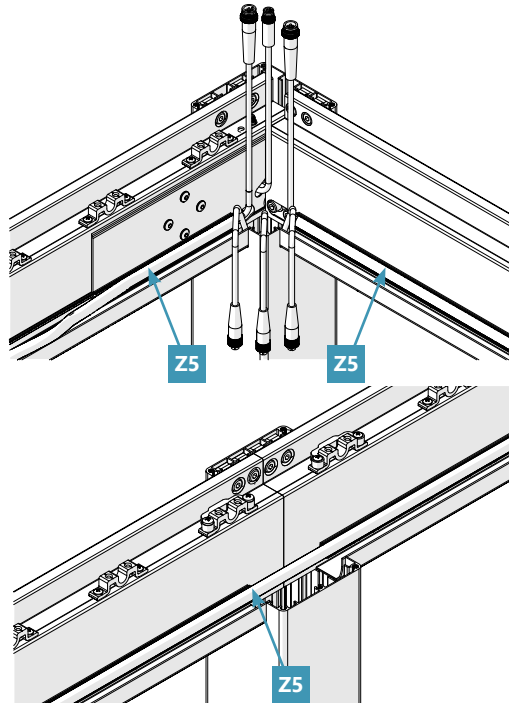
Z5 x 2



5B

As shown in the figure, press both LED light strips **Z5** firmly into the light strip slots one by one to ensure they are fitted evenly.

Z5 x 2







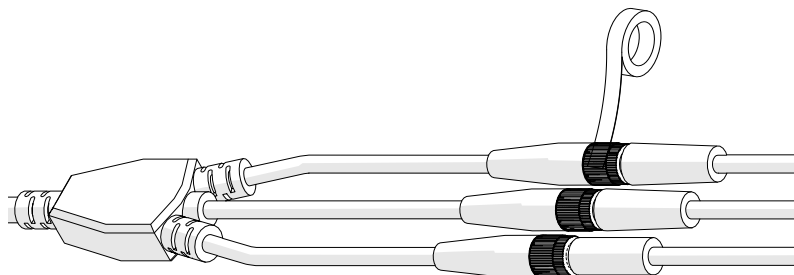
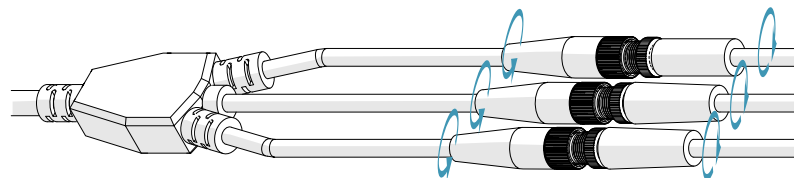
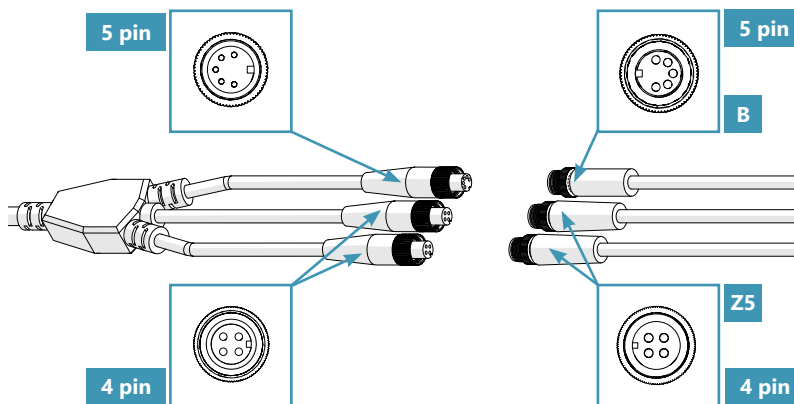
6. Connect the power cables of the motor and LED strip lights Z5

6A

Connect the cable connector (5-pin) of the side beam **B** into the corresponding connector socket on the top of the cabled corner pillar **A2**. Then tighten the waterproof connector.

Connect the cable connector (4-pin) of the LED light strip **Z5** into the corresponding connector socket on the top of the cabled corner pillar **A2**. Then tighten the waterproof connector (there is no need to differentiate the plug sockets of the two light strips as they are the same).

- Z5** x 2 
- Z8** x 1 
- B** x 1 
- A2** x 1 

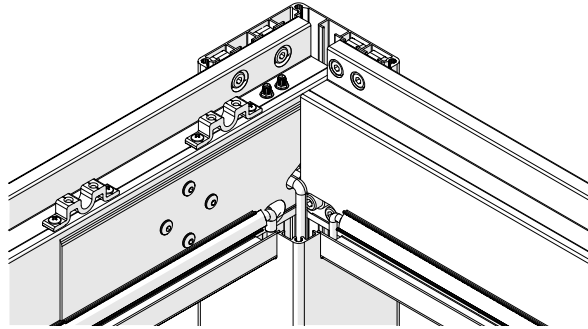


Tip:

It is recommended to wrap waterproof adhesive tape on the waterproof connectors to prolong their service life.

6B

Carefully tuck all connected cables and connectors at the top of the structure back into the corner pillar.



7. Check the alignment of the frame and the distance between the corner pillars

You are now almost done installing the main frame of the pergola. Please double check to ensure all corner pillars, beams, and cables have been installed and fitted correctly. You may have to unscrew certain bolts during this step.

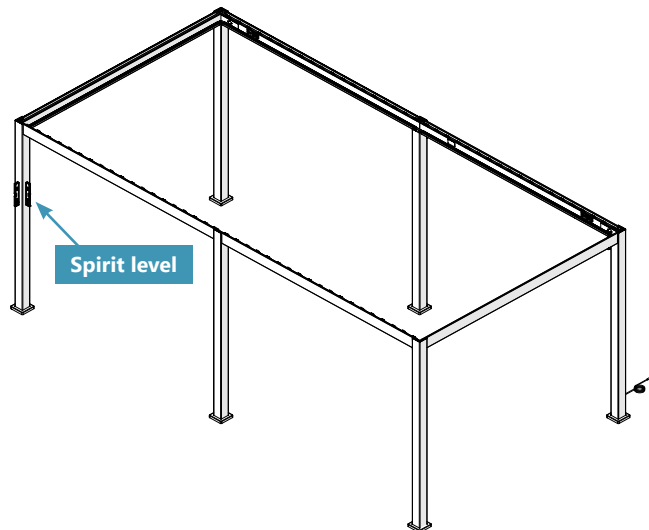
You will also need a tape measure and a spirit level to complete this step.

7A

Choose one of the corner pillars (**A** & **A2**) and work from this pillar. Choose this pillar carefully as it will define the final installation location of the pergola.

Use a spirit level to measure against both of the inner sides to ensure that the corner pillar is straight and level.

Make sure this corner pillar does not move position during the remaining installation steps.

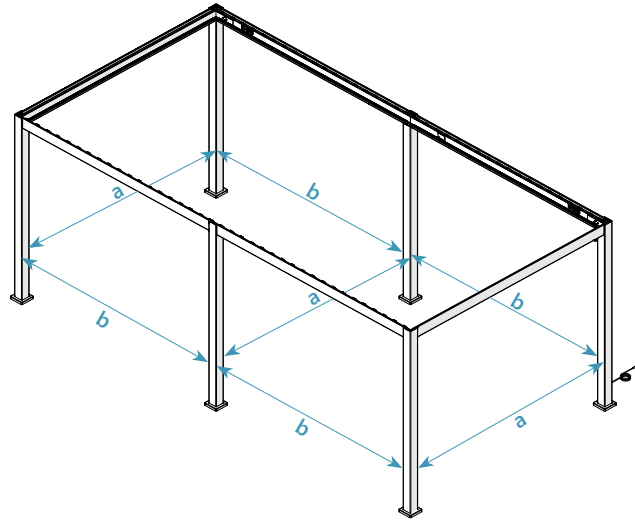


7B

Measure the distances between the adjacent corner pillars. Adjust accordingly and ensure the distances match those shown in the opposite figure.



| Size (m) | a (mm) | (inch) | b (mm) | (inch) |
|---------------|-----------|--------|-----------|--------|
| 3x5.3/10x17 | 2790.5 | 109.9 | 2485.7 | 97.9 |
| 3x6/10x20 | 2790.5 | 109.9 | 2790.5 | 109.9 |
| 3x7.2/10x24 | 2790.5 | 109.9 | 3400 | 133.9 |
| 3.6x5.3/12x17 | 3400 | 133.9 | 2485.7 | 97.9 |
| 3.6x6/12x20 | 3400 | 133.9 | 2790.5 | 109.9 |
| 3.6x7.2/12x24 | 3400 | 133.9 | 3400 | 133.9 |

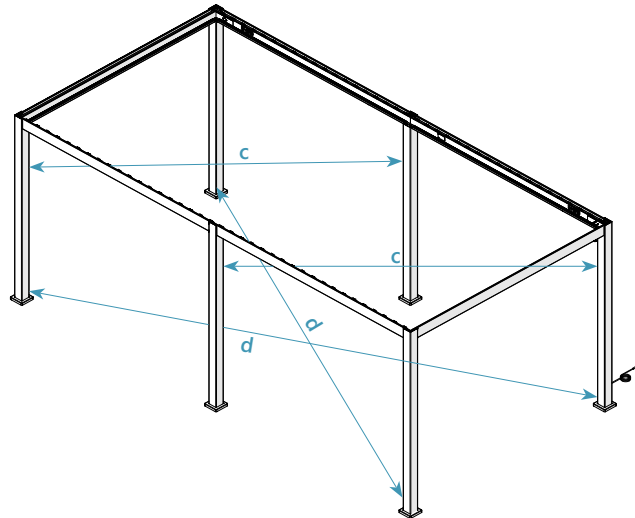


7C

Measure the diagonal distance between the opposite corner pillars. Adjust the other corner pillars accordingly until both diagonal distances are equal. You may have to repeat the above steps after completing the remaining steps.



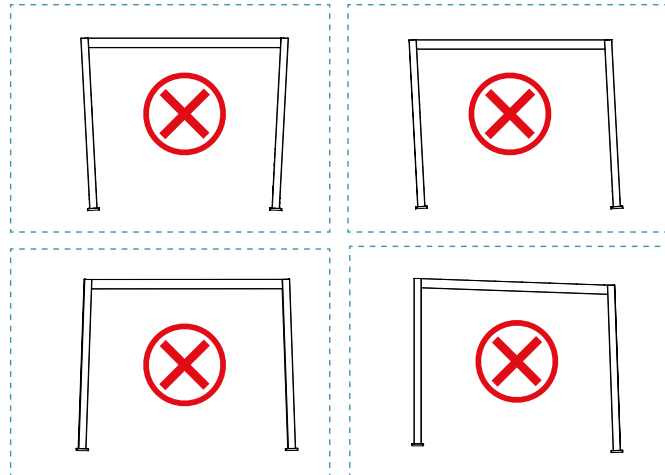
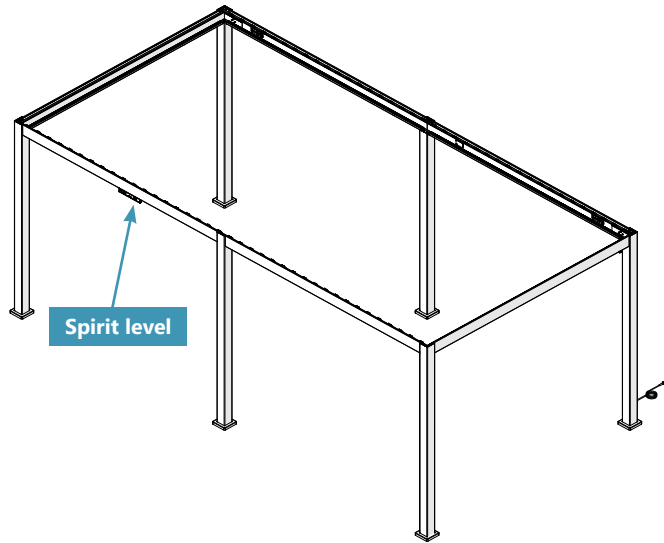
| Size (m) | c (mm) | (inch) | d (mm) | (inch) |
|---------------|-----------|--------|-----------|--------|
| 3x5.3/10x17 | 3739 | 147.2 | 5802.5 | 228.4 |
| 3x6/10x20 | 3951 | 155.6 | 6343 | 249.7 |
| 3x7.2/10x24 | 4403 | 173.3 | 7457 | 293.6 |
| 3.6x5.3/12x17 | 4217 | 166.0 | 6120 | 240.9 |
| 3.6x6/12x20 | 4403 | 173.3 | 6635 | 261.2 |
| 3.6x7.2/12x24 | 4813 | 189.5 | 7706 | 303.4 |



7D

Check that all corner pillars are straight and level using a spirit level. If the corner pillars or beams are still not level, this means that your main building surface isn't sufficiently level, and that you will need to raise the corner pillars that are positioned lower than the others. (Contact qualified workers if needed.)

Warning:
If you do not adjust the main structure at this point, you may encounter problems when fitting the louvers and/or accessories to the frame.



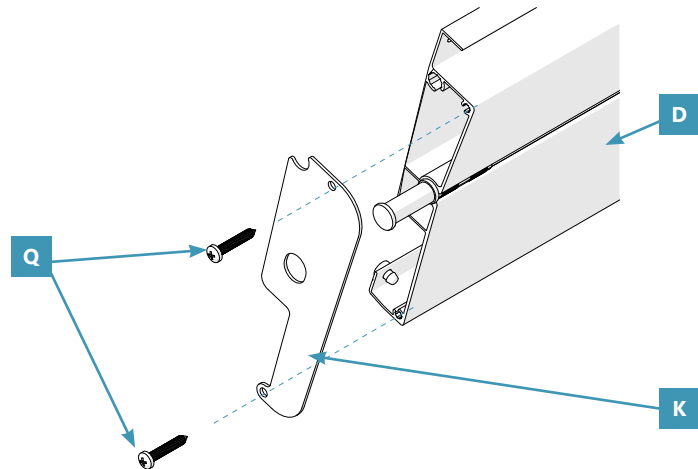
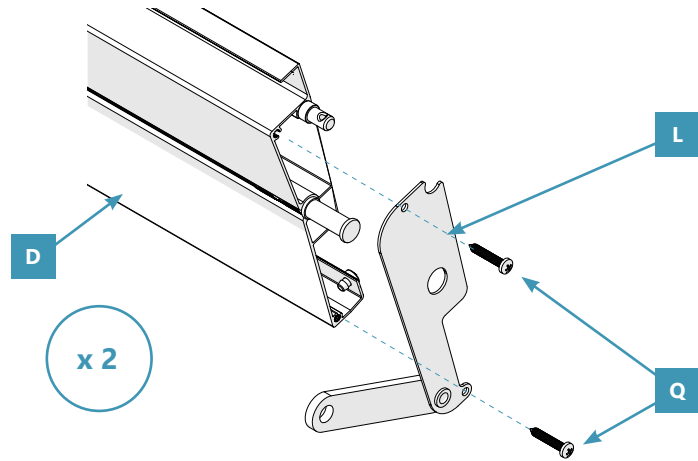
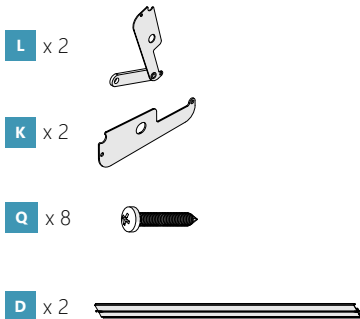
8. Install the louvers, and connecting strip

8A

Prepare the two driving louvers: select two of the louvers **D** to be the driving louvers.




Attach the louver end cap with control arm **L** to one end of the driving louver, and attach a louver end cap **K** to the other end of the driving louver.

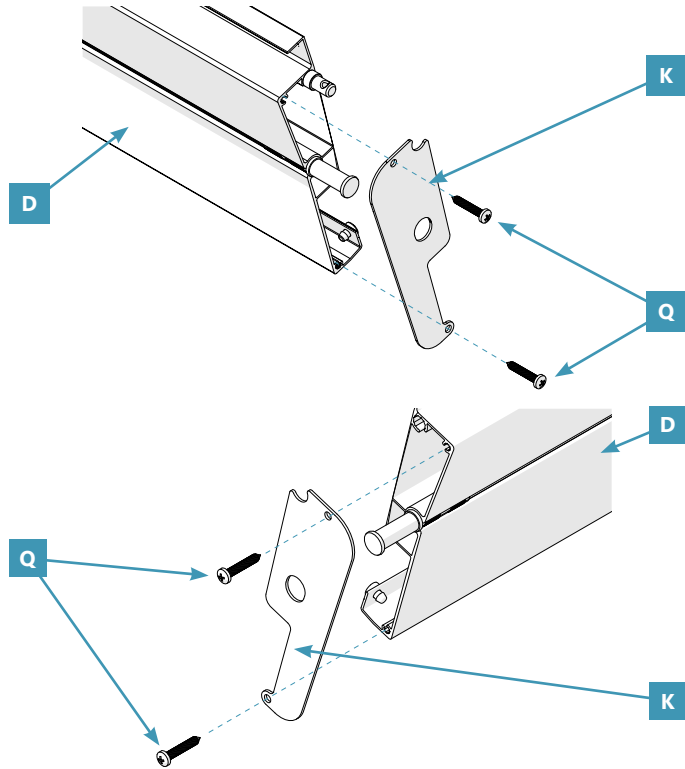
Use two screws **Q** on each side, and fix them firmly using a cordless screwdriver.



8B

Prepare the regular louvers: attach the louver end caps **K** to each end of the rest of the louvers **D** with two screws **Q** using a cordless screwdriver. Repeat this step for all louvers.

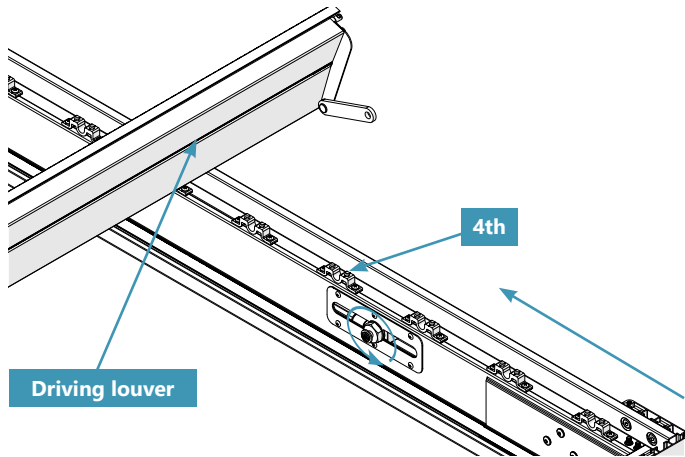
| Part \ Length | 5.3m/17ft. | 6m/20ft. | 7.2m/24ft. |
|--|------------|----------|------------|
| K  | 64 | 72 | 88 |
| Q  | 128 | 144 | 176 |
| D  | 32 | 36 | 44 |



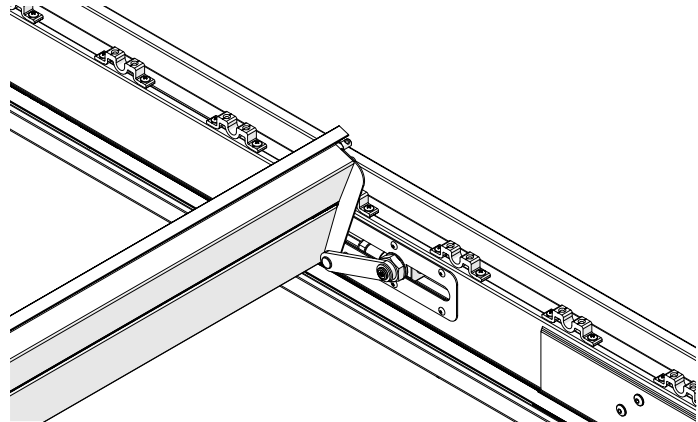
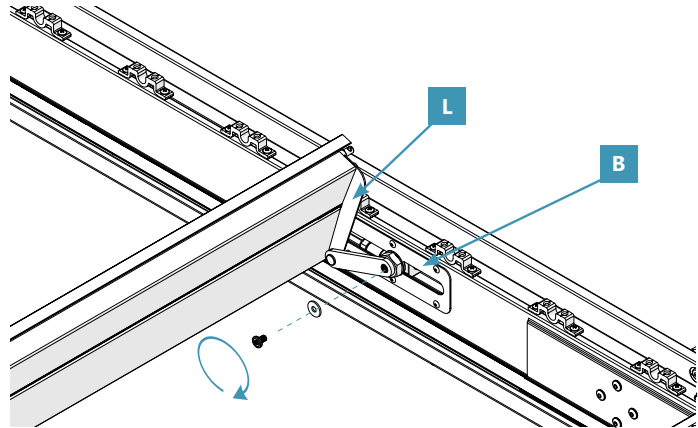
8C

Place one of the driving louvers **D** on the corresponding louver shaft support brackets on both side beams (**B** & **B3**), **Make sure this driving louver is placed 4th from the right.**

X x1 

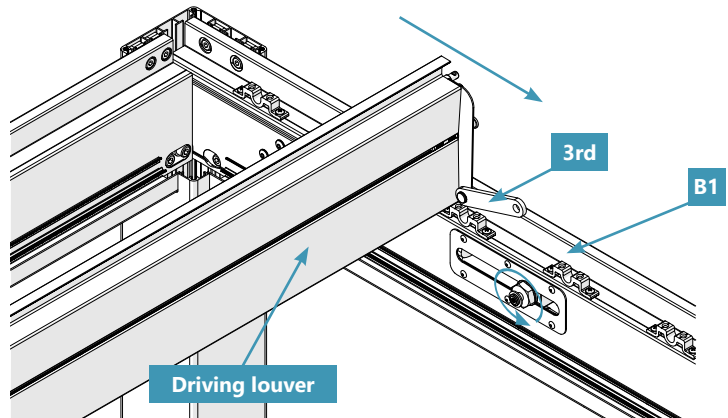


Loosen the screw and washer already attached to side beam **B** . Then fix the end cap control arm **L** of the driving louver to side beam **B** , by firmly tightening the same screw and washer, using the hexagon socket key **Y** .

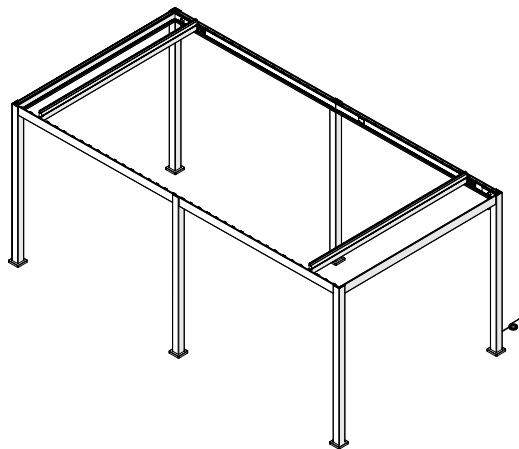
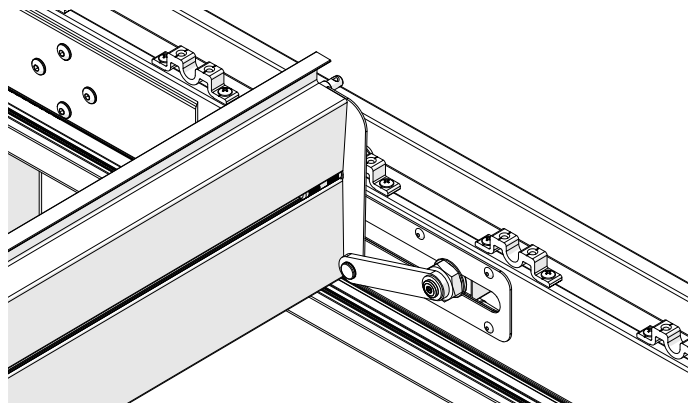
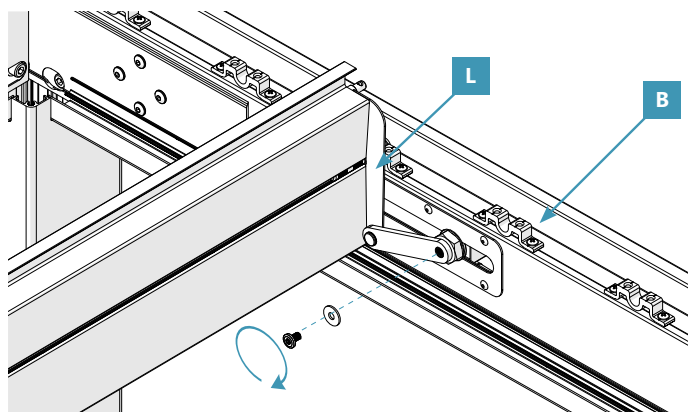


Place the other driving louver **D** on the corresponding louver shaft support brackets on both side beams (**B1** & **B2**),

Make sure the driving louver is placed 3rd from the left.

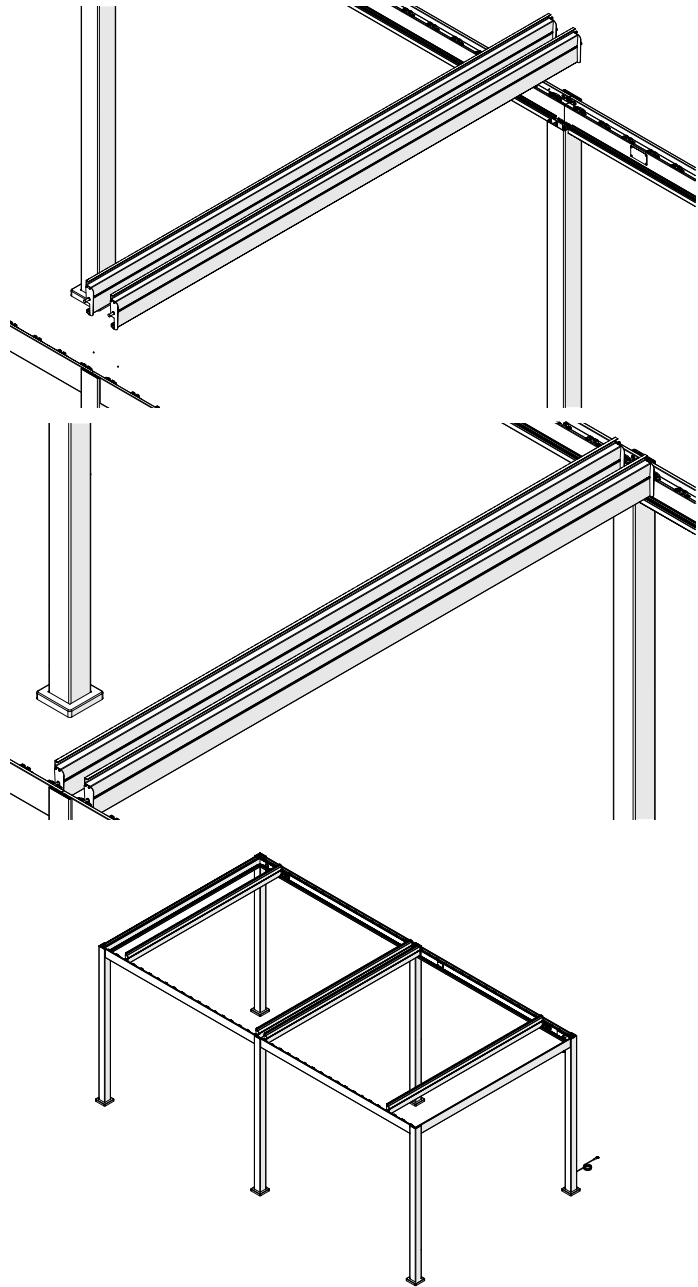


Loosen the screw and washer already attached to side beam 1 **B1** . Then fix the connecting rod **L** of the driving louver to the side beam 1 **B1** , by firmly tightening the same screw and washer, using the hexagon socket key **Y** .



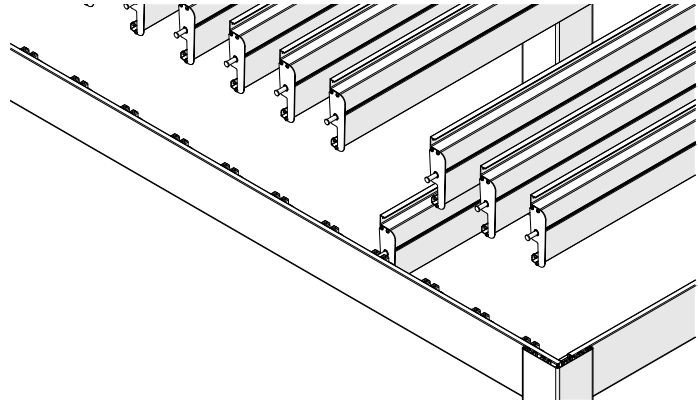
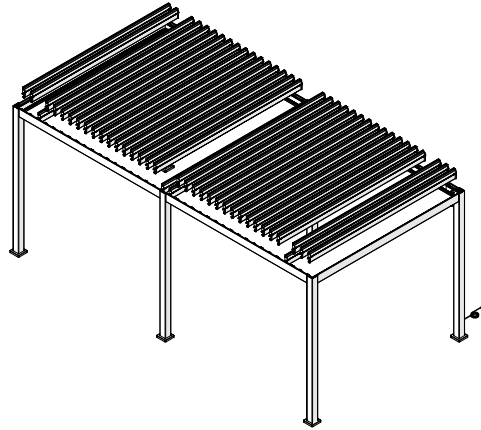
8D

Place two louvers into the shaft support brackets of the two most central points of the structure, and make sure they are placed in the same direction as the driving louvers.



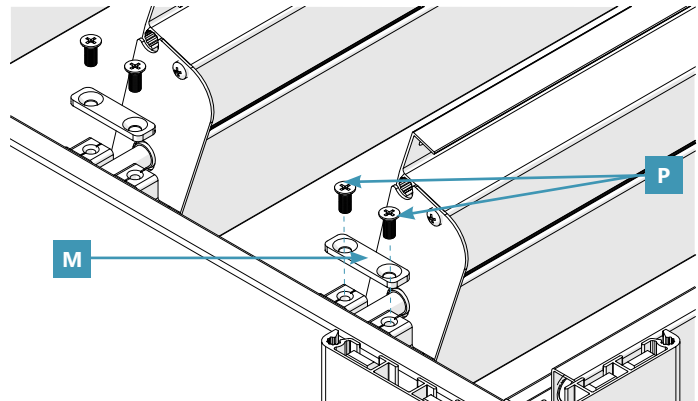
8E



Place the rest of the louvers into the remaining shaft support brackets.

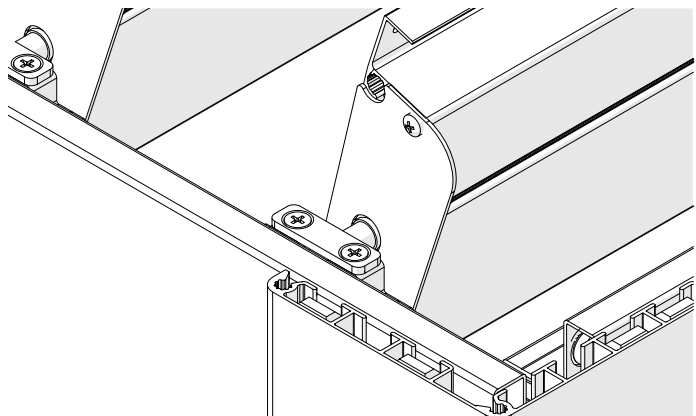


8F

Secure the louvers **D** in the shaft support brackets by fixing a shaft support cover **M** onto the shaft support brackets on both ends of each louver **D**. Use two screws **P** each and secure them with a cordless screwdriver. Repeat this step for all louvers.

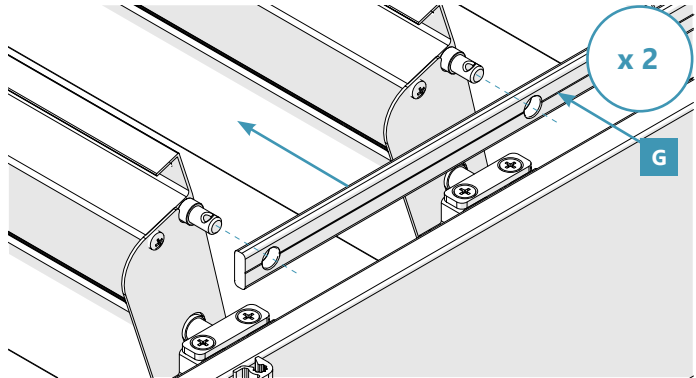




| Part \ Length | 5.3m/17ft. | 6m/20ft. | 7.2m/24ft. |
|---|------------|----------|------------|
| M  | 68 | 76 | 92 |
| P  | 136 | 152 | 184 |

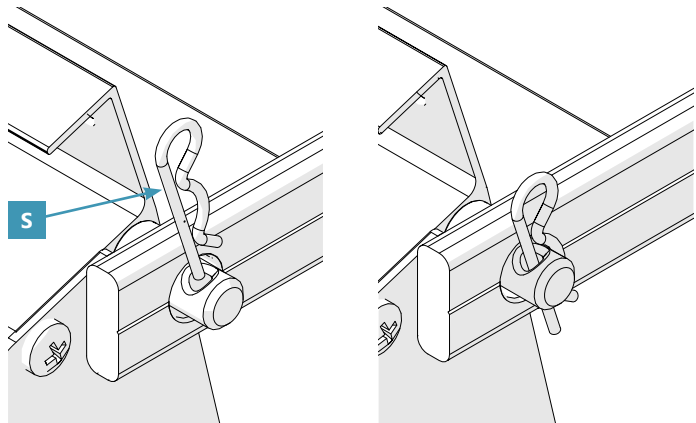


8G

Take the connecting strip **G**. Attach it to each louver fitting each of the holes onto the corresponding bolts of the louvers. Secure every bolt with a cotter pin **S**, inserting it through the small bolt hole. Repeat this step for all louvers.



| Part \ Length | 5.3m/17ft. | 6m/20ft. | 7.2m/24ft. |
|---|------------|----------|------------|
| G  | 2 | 2 | 2 |
| S  | 34 | 38 | 46 |

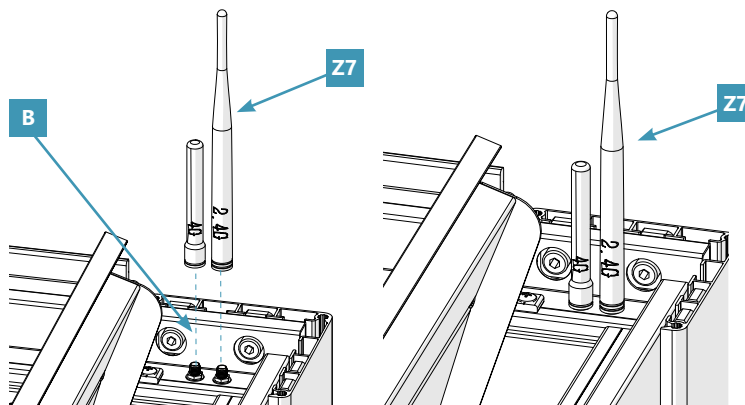


9. Finalize the electric connection and install the pillar cover

9A

Install the 2.4G and 4G antennae **Z7**, and make sure they correspond to the label on the side beam **B**.

Z7 x 1



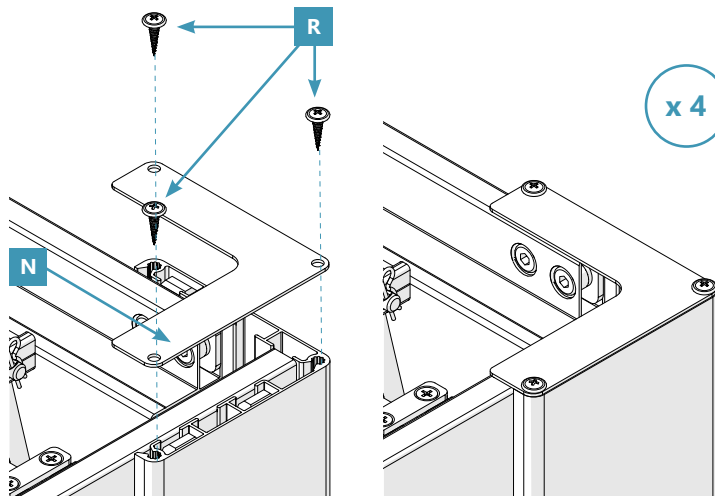
9B

To install the corner pillar covers, fix a corner pillar covers **N** to the top of each corner with three screws each **R**. Fix them using a cordless screwdriver.

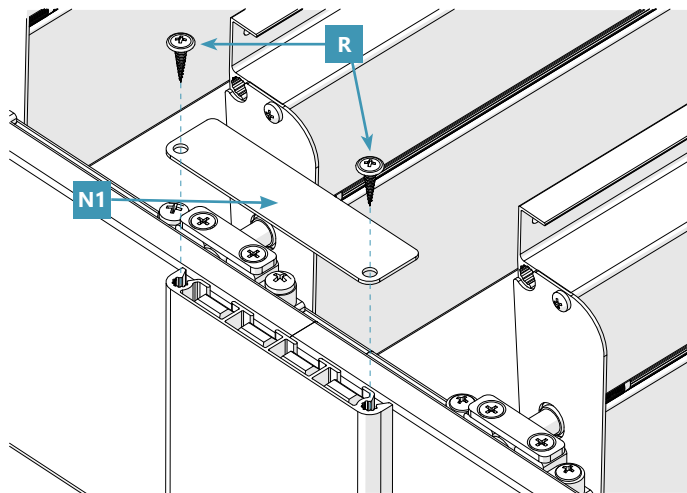
N x 4



R x 12

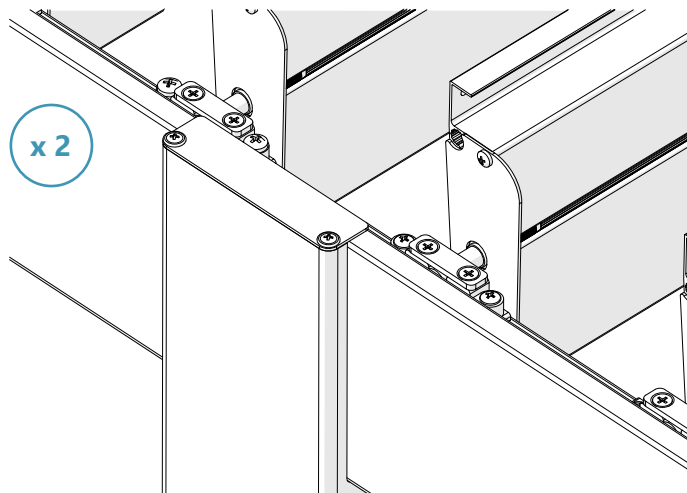


To install the middle pillar covers **N1**, fix a middle pillar cover **N1** to the top of each middle pillar **A1** with two screws each **R**. Fix them using a cordless screwdriver.



Tip:

Check the frame alignment and pillar distances again by repeating **7A - 7D** if necessary.



N1 x 2



R x 4

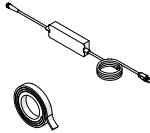


9C

Connect the cable on the base of the cabled corner pillar **A2** to the cable of the power supply adapter **Z4**.
Tighten firmly.

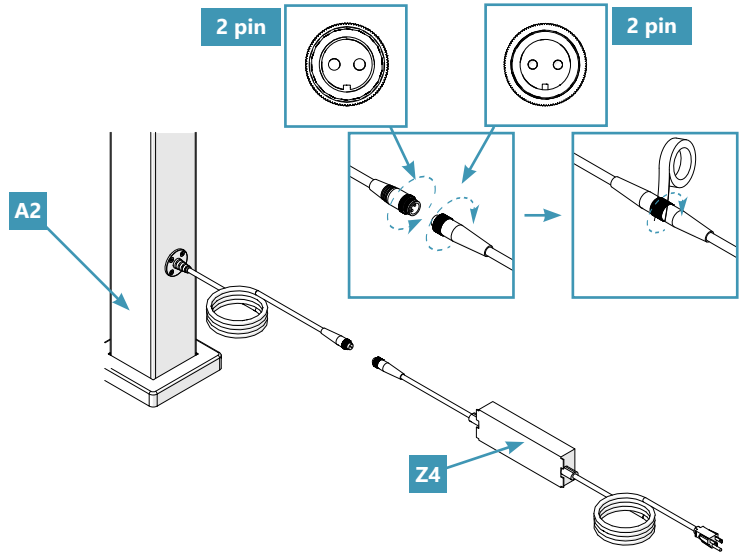
Z4 x 1

Z8 x 1



Tip:

It is recommended to wrap waterproof adhesive tape on the waterproof connectors to prolong their service life.

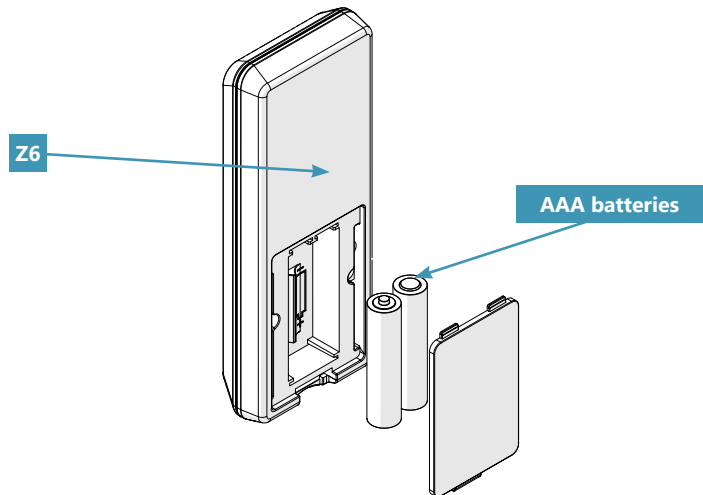


10. Pair the remote control

10A

Insert the AAA batteries into the remote control **Z6**.

Z6 x 1

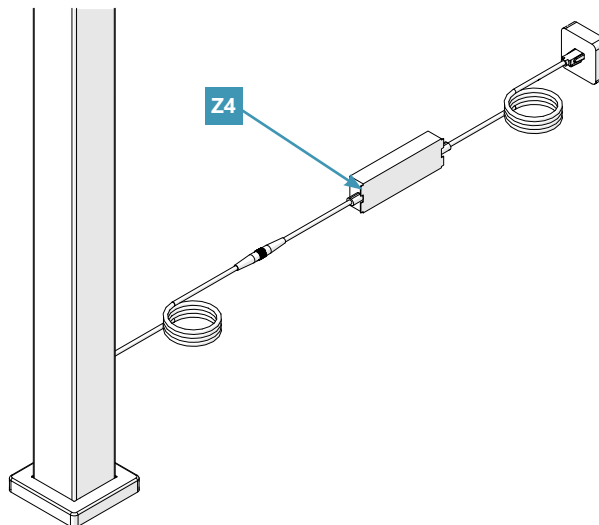
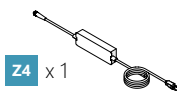


10B

Plug the power supply adapter **Z4** into the mains.

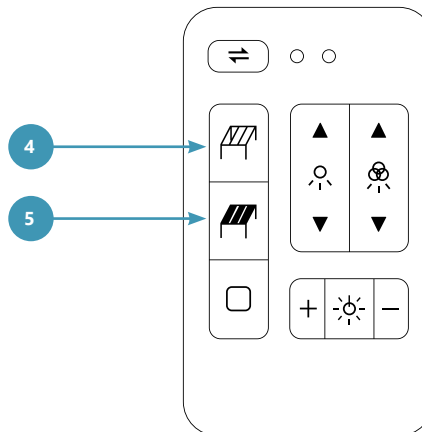
Warning:

To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.



10C

Within 5 minutes, press and hold both **4** and **5** to pair the remote control **Z6**.



All louvers will move back and forth once to indicate that the remote control has been paired successfully.

IF PAIRING HAS NOT BEEN COMPLETED WITHIN THE 5-MINUTE TIME WINDOW, UNPLUG AND REPEAT THE PAIRING PROCESS AGAIN.

Once the remote control has been paired, fully open and close the louvers several times and test LED functions to ensure the product is in perfect working order.

For full remote control instructions, please see **OPERATION OF YOUR PERGOLA.**

11. Secure the corner pillars to the ground

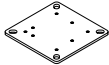
The pergola must be firmly and permanently secured to the ground. If the ground is not level or suitable, please refer to the section "Before assembling your pergola".

11A

To fix the corner pillars (**A** & **A2**) with the four foot plates **J**, drill through each hole with a hammer drill.



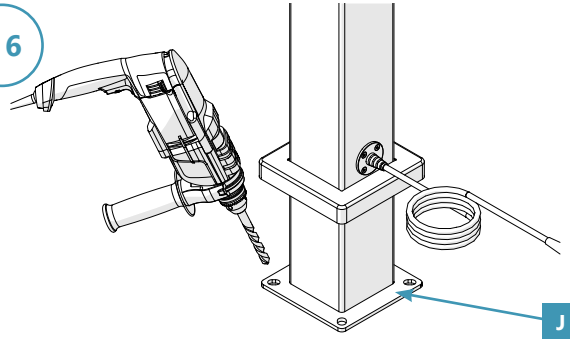
J x 6



Z x 1



x 6



11B

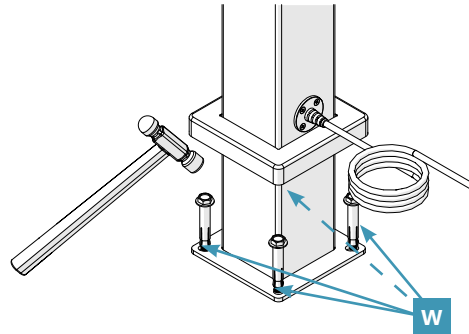
Remove all the debris and dirt. Then firmly insert an anchor bolt **W** into each hole, using a hammer.



W x 24



x 6

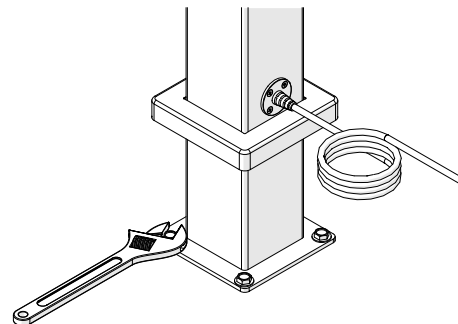


11C

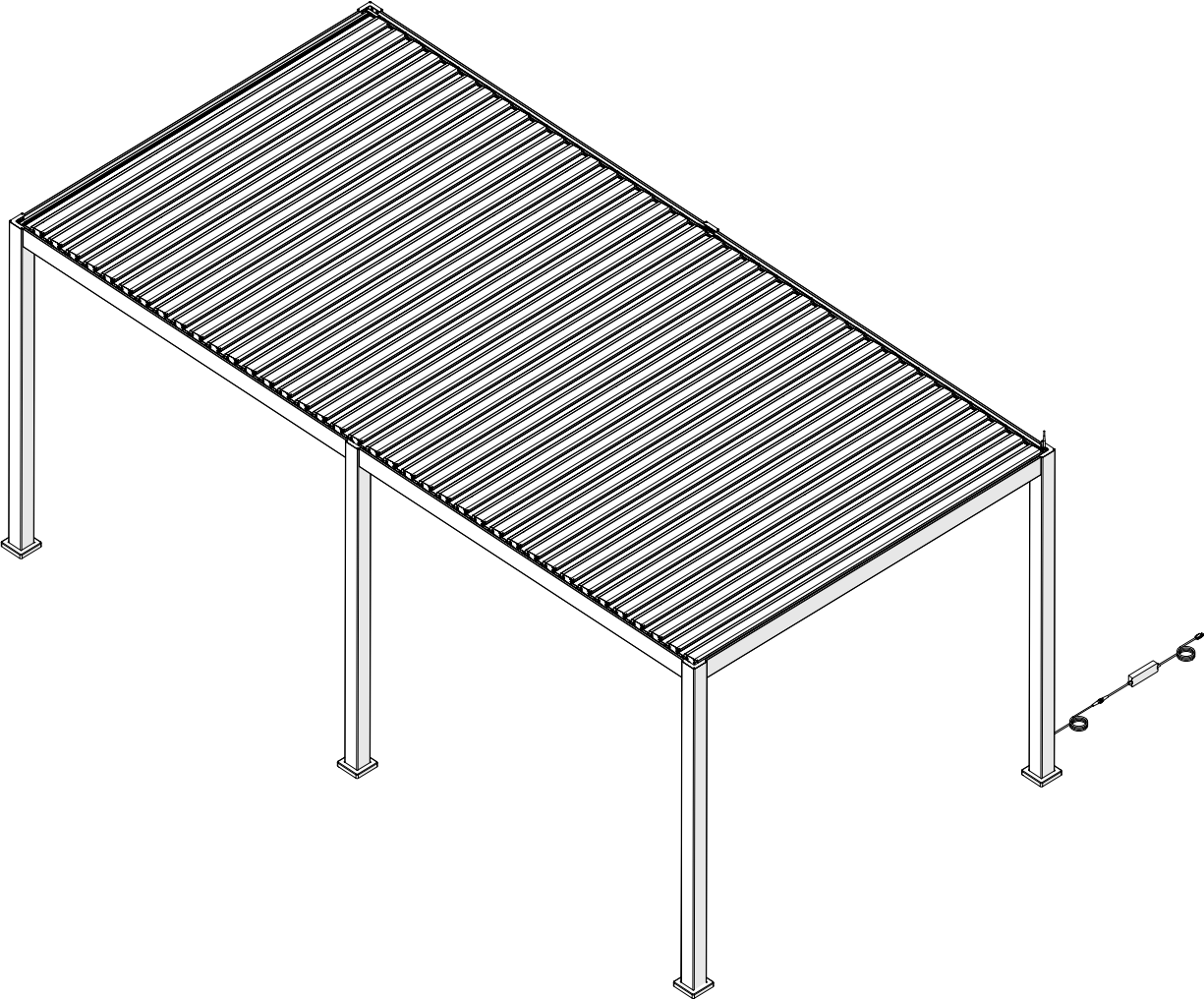
Tighten the hexagonal ends of each bolt with a spanner/wrench.



x 6

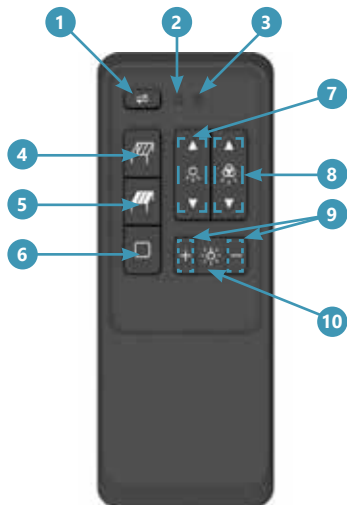


12. End of installation



OPERATION OF YOUR PERGOLA

How to use the remote control






How to connect the product with your phone



- I. Download the app from Google Play Store or App Store by scanning the QR code below.
- II. Open the app and scan the QR code on the nameplate on the beam to pair the pergola.













If the APP shows that the product is bound by other users?

Connect the device to the mains and ensure that the light strip is turned off. Then, simultaneously press and hold the Toggle light colors  and Toggle chasing effects  keys for ten seconds. The light strip will flash pink  and turn off after 3 seconds. The product is successfully unbound.


Pairing

- I. Insert 2 AAA batteries into the remote control.
- II. Plug the power adapter of the pergola into a socket.
- III. Within the first 5 minutes of the pergola being powered on, press and hold both open  and close  buttons for 3 seconds to pair the remote control with the pergola. (Once paired, all louvers will move back and forth once to indicate success.)

Operating

-  Toggle to control actuator 1, actuator 2 or both actuators
-  Led indicator for actuator 1
-  Led indicator for actuator 2
-  Open louvers
-  Close louvers
-  Stop louver movement
-  Single color mode: Toggle light colors
-  Dynamic lighting mode: Toggle chasing effects
-  Adjust brightness (Only works for single color mode)
-  Turn on/off lights

Notice

If you own a single pergola instead of a dual-pergola set, make sure only led indicator  is on. If you have problem pairing or controlling the pergola.

- Stand closer to the pergola.
- Make sure to point the remote control directly at the pergola.
- Make sure batteries are not worn out and that they are inserted correctly.
- Try pairing again the remote control by unplugging the pergola first and follow the pairing steps.

Warning

Non-rechargeable batteries are not to be recharged.

Different types of batteries are not to be mixed.

New and used batteries are not to be mixed.

Batteries are to be inserted with the correct polarity.

Exhausted batteries are to be removed from the appliance and safely disposed of.

If the appliance is to be stored unused for a long period, the batteries should be removed.

The supply terminals are not to be short-circuited.

Please refer to the problem solving section on page 40-41 if you run into any issues.




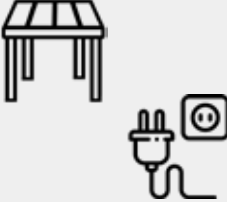



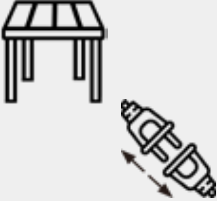
PROBLEM SOLVING, CARE & MAINTENANCE

| Issue | Explanation or action to take |
|--|--|
| The LED light strip is deformed after removing it from the packaging. | Expand the light strip and leave it at room temperature for a period of time until its shape is restored before installing it. |
| The surface of the LED light strip oxidizes and changes color after long-term use. | Regularly clean the surface to ensure cleanliness. If necessary, order a replacement light strip. |
| Abnormal noise occurs during the rotation of the louver(s). | Check if any of the louvers are deformed. If this is the case, replace them. If the louvers are not deformed but they are colliding with one another, replace the beam. |
| The remote control cannot be paired with the control system. | Check if the product is powered on. Check if the remote control battery is installed or if the battery is depleted. Remove the rear cover of the remote control and check if the positive and negative poles of the battery are correct. Remove the battery and reinstall it to avoid poor contact. (The details can be reviewed in the Page 39) If the problem still persists, please contact customer service. |
| The remote control can be paired with the control system, but the app cannot. | It may take a few minutes for the device to search for the network. Please enter the network configuration diagnostic mode. Then wait patiently and confirm that the light strip flashes blue before attempting to scan the code for pairing. If there are still problems, please contact point of sale. |
| The LED light strip operates normally, but the liner actuator does not. | Replace the beam with motor. |
| During operation, the product takes time to respond, or the app does not operate in real-time. | Check the local network signal strength. |
| The product is a dual-pergola, and the louvers on both sides do not open or close synchronously. | Slight asynchronization is normal. If it differs by more than 1 second, please refer to the contact section on page 43. |

| Issue | Explanation or action to take | |
|---|--|--|
| Some of the light beads on the LED light strip do not work according to the instructions. | Replace the light strip. | |
| The flatness of the louver is damaged due to weather conditions. | Replace the affected louvers. | |
| The louvers cannot be reset when there is a power failure. | Remove the screws on the driver, take out the driver connected to the screws, and allow the louvers to reset automatically. | |
| The drain is blocked by leaves or debris. | Clean the ducts and guttering of the pergola regularly. | |
| The casting powder on the beam surface falls off after the motor runs for long periods. | No intervention is needed under normal circumstances. | |
| How do I enter the network configuration diagnostic mode? | Connect the device to the mains and ensure that the light strip is turned off. Then, simultaneously press and hold the increase brightness + and decrease brightness - keys. The light strip in the device's corner will blink in different colors to indicate the current network status. | |
| | <ul style="list-style-type: none"> ● SIM card not detected ● Searching for Service ● Registered Successfully | <ul style="list-style-type: none"> ● IP Obtained ● Connected to the Cloud ○ SIM Card Registration Denied |

General Care & Maintenance

| | | | |
|---|---|--|--|
| Dust and dirt will collect on the pergola and will require periodic cleaning | Use a water/detergent mixture and a soft clean cloth to clean the pergola. | Air dry or wipe with a soft clean cloth. | Do not operate the awning when maintenance, such as window cleaning, is being carried out in the vicinity. |
|  |  |  |  |

| | | | |
|--|--|--|---|
| <p>For more soiled areas, rinse the surface with clean water from top to bottom.</p> | <p>In most situations it is not necessary to lubricate the moving parts of the pergola. However, when squeaking occurs, using a silicone spray lubricant is recommended.</p> | <p>Do not use any petroleum based spray lubricant.</p> | <p>Disconnect the awning from the supply when maintenance, such as window cleaning, is being carried out in the vicinity.</p> |
|  |  <p>Silicone based</p> |  <p>Petroleum based</p> |  |
| <p>In coastal areas, it is recommended that you frequently spray the pergola with water to reduce accumulation of salt and dirt.</p> | <p>Disconnect the cables if the pergola is not being used for long periods.</p> | <p>When the temperature is below 0°C/32°F, it is recommended to use the product less frequently to prolong the product's service life.</p> | <p>The drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts.</p> |
|  |  |  <p>< 0°C / 32°F</p> |  |

Periodic inspection

Frequently examine the installation for imbalance and signs of wear or damage to cables and springs. Do not use if repair or adjustment is necessary.

- Check the pergola is fixed firmly to the ground.
- Check the pergola's mobile components are in good working order.
- Check that the driving parts are sufficiently lubricated.
- Check the condition of the electrical cables and inspect their mains connection.
- Check the operation of the motor's limit switch and correct where necessary.
- Check the screws and rivet joints on the pergola.
- Check of the condition of mobile roof and bearings.

WARRANTY & COMPLAINTS PROCEDURE

For terms and conditions of our limited warranty, please visit www.miradoroutdoor.de or contact your local Pergola sales representative.

Customer Service: info@miradoroutdoor.de

DISASSEMBLY AND DISPOSAL OF THE PRODUCT

Incorrect disassembly of the pergola may lead to serious injury and product damage.

Disassembly should be assigned to qualified personnel with adequate training within the scope of occupational health and safety and knowledge within the scope of recycling.

Disposal of used Electrical and Electronic Equipment

When the service life of the product is over, it is necessary to disassemble it for disposal and to sort the individual materials and components in compliance with the local regulations of your country.

Important disposal information

In compliance with European Directive 2012/19EU on waste electrical and electronic equipment (WEEE) it is forbidden to place the waste equipment marked with the crossed bin symbol with other waste to a container intended for domestic waste. Users wishing to dispose of electronic or electrical equipment are obliged to return it to a designated waste equipment collection point.

The above statutory obligations were introduced in order to limit the amount of waste generated from waste electrical and electronic equipment, and to ensure an appropriate level of collection, recovery and recycling. The equipment does not contain hazardous components which have a particularly adverse effect on the environment or human health.



Utilization of used batteries

In compliance with the provisions of the Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators and waste batteries and accumulators and repealing Directive 91/157/EEC, the End User is obliged to transfer used portable batteries, which are no longer used as a source of energy, to an official collection point. It is forbidden to place used batteries with other waste in the same container. To prevent environmental pollution and causing a possible hazard for human and animal health, used batteries should be disposed of in the correct container at the designated collection points.

CERTIFICATION INFORMATION

- Declaration of performance (DOP) —→ 46
- EU Declaration of Conformity —→ 47
- EC Declaration of Conformity —→ 48
- UK Declaration of Conformity —→ 49
- ETL —→ 50
- FCC —→ 51

Declaration of performance (DOP)

Reference no. DOP0001

Product name and type

Mirador Pergola and Mirador Wall Pergola/ pergola awning

Model name/ Unique identification code of the product:

111 Deluxe AxBm, 111 Deluxe e AxBm, 111 Deluxe e-Motion RC AxBm, 111 Deluxe e-Motion AxBm,
111 DA AxBm, 111 LED DA AxBm, 111 e-Motion DA AxBm, 111 e-Motion+ AxBm,

111 Deluxe Edge AxBm, 111 Deluxe Edge e AxBm, 111 Deluxe Edge e-Motion RC AxBm, 111 Deluxe Edge e-Motion AxBm, 111 Deluxe R AxBm, 111 Deluxe R e AxBm, 111 Deluxe R e-Motion RC AxBm, 111 Deluxe R e-Motion AxBm,
AxB:

3x3, 3x3.6, 3x4, 3.6x3.6, 3.6x4,
3x5.3, 3x6, 3x7.2, 3.6x5.3, 3.6x6, 3.6x7.2

111 Classic AxBm, 111 Classic e AxBm, 111 Classic e-Motion AxBm, 111 S AxBm, 111 LED S AxBm, 111 e-Motion S AxBm,
111 Premium AxBm, 111 Premium e AxBm, 111 Premium e-Motion AxBm, 111 A AxBm, 111 LED A AxBm, 111 e-Motion A AxBm,
AxB:

3x3, 3x3.6, 3x4,
3x5.3, 3x6, 3x7.2

111 Infinite AxBm, 111 Infinite e AxBm, 111 Infinite e-Motion RC AxBm, 111 Infinite e-Motion AxBm,
111 Infinite LED AxBm, 111 Infinite e-Motion DA AxBm, 111 Infinite e-Motion+ AxBm,
111 Infinite Edge AxBm, 111 Infinite Edge e AxBm, 111 Infinite Edge e-Motion RC AxBm, 111 Infinite e-Motion AxBm,
AxB:

3x3, 3x3.6, 3x4, 3x5.3, 3x6, 3x7.2,
3.6x3.6, 3.6x4, 3.6x5.3, 3.6x6, 3.6x7.2, 7.2x7.2

Purpose of Usage:

External use in buildings and other construction works

Manufacturer:

Zhejiang Zhengte Co., Ltd.
811 Dongfang Ave, Zhejiang, PRC

Documentation officer:

Stefan Baricik
Sorara Outdoor Living B.V.
Cockveld 3, 5672 AE Nuenen, The Netherlands

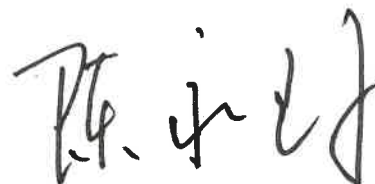
System for assessing and verifying the constancy of performance according to Annex V of the Construction Products Directive 305/2011/EC

System 4

Declared performance (Excluding the structural part):

Wind resistance = Class 6
Standard: EN 13561:2004+A1:2008

Zhejiang
20.07.23



(Chairman/President)

EU Declaration of Conformity

Product name

Mirador Pergola

Model name/ Unique identification code of the product:

111 Deluxe e-Motion RC 3x7.2m, 111 Deluxe e-Motion RC 3.6x3.6m, 111 Deluxe e-Motion RC 3.6x4m,
111 Deluxe e-Motion RC 3.6x5.3m, 111 Deluxe e-Motion RC 3.6x6m, 111 Deluxe e-Motion RC 3.6x7.2m
111 Deluxe e-Motion 3x3m, 111 Deluxe e-Motion 3x3.6m, 111 Deluxe e-Motion 3x4m, 111 Deluxe e-Motion 3x5.3m,
111 Deluxe e-Motion 3x6m, 111 Deluxe e-Motion 3x7.2m, 111 Deluxe e-Motion 3.6x3.6m, 111 Deluxe e-Motion 3.6x4m,
111 Deluxe e-Motion 3.6x5.3m, 111 Deluxe e-Motion 3.6x6m, 111 Deluxe e-Motion 3.6x7.2m, 111 Deluxe Edge e-Motion 3x3m,
111 Deluxe Edge e-Motion 3x3.6m, 111 Deluxe Edge e-Motion 3x4m, 111 Deluxe Edge e-Motion 3x5.3m,
111 Deluxe Edge e-Motion 3x6m, 111 Deluxe Edge e-Motion 3x7.2m, 111 Deluxe Edge e-Motion 3.6x3.6m,
111 Deluxe Edge e-Motion 3.6x4m, 111 Deluxe Edge e-Motion 3.6x5.3m, 111 Deluxe Edge e-Motion 3.6x6m,
111 Deluxe Edge e-Motion 3.6x7.2m, 111 Deluxe R e-Motion 3x3m, 111 Deluxe R e-Motion 3x3.6m, 111 Deluxe R e-Motion 3x4m,
111 Deluxe R e-Motion 3x5.3m, 111 Deluxe R e-Motion 3x6m, 111 Deluxe R e-Motion 3x7.2m, 111 Deluxe R e-Motion 3.6x3.6m,
111 Deluxe R e-Motion 3.6x4m, 111 Deluxe R e-Motion 3.6x5.3m, 111 Deluxe R e-Motion 3.6x6m, 111 Deluxe R e-Motion 3.6x7.2m
111 Infinite e-Motion 3x3m, 111 Infinite e-Motion 3x3.6m, 111 Infinite e-Motion 3x4m, 111 Infinite e-Motion 3x5.3m,
111 Infinite e-Motion 3x6m, 111 Infinite e-Motion 3x7.2m, 111 Infinite e-Motion 3.6x3.6m, 111 Infinite e-Motion 3.6x4m,
111 Infinite e-Motion 3.6x5.3m, 111 Infinite e-Motion 3.6x6m, 111 Infinite e-Motion 3.6x7.2m, 111 Infinite Edge e-Motion 3x3m,
111 Infinite Edge e-Motion 3x3.6m, 111 Infinite Edge e-Motion 3x4m, 111 Infinite Edge e-Motion 3x5.3m,
111 Infinite Edge e-Motion 3x6m, 111 Infinite Edge e-Motion 3x7.2m, 111 Infinite Edge e-Motion 3.6x3.6m,
111 Infinite Edge e-Motion 3.6x4m, 111 Infinite Edge e-Motion 3.6x5.3m, 111 Infinite Edge e-Motion 3.6x6m, 111 Infinite Edge e-Motion 3.6x7.2m
111 Classic e-Motion 3x3m, 111 Classic e-Motion 3x3.6m, 111 Classic e-Motion 3x4m, 111 Classic e-Motion 3x5.3m,
111 Classic e-Motion 3x6m, 111 Classic e-Motion 3x7.2m

Software: ZTC1_EU_M2_Boot_Main

Accessories: Remote control, 3V DC Battery

Purpose of Usage:

External use in buildings and other construction works

Manufacturer:

Zhejiang Zhengte Co., Ltd.
No. 588 Linhai Ave., 317000 Linhai, Zhejiang, PRC

Documentation officer:

Stefan Barick
Sorara Outdoor Living B.V.
Cockeveld 3, 5672 AE Nuenen, The Netherlands

Meets the provisions of Machinery Directive 2006/42/EC

Harmonised standards used:

EN 13561:2015, EN 60335-1:2012+A11:2014+A13:2017+A1:2019 + A14:2019 +A2:2019+A15:2021,
EN 60335-2-97:2006+A11:2008+ A2:2010+ A12:2015, EN 62233:2008, EN IEC 55014-1:2021,
EN IEC 55014-2:2021 EN IEC 55015:2019/A11:2020, EN 61547:2009, EN IEC 61000-3-2:2019/A1:2021,
EN 61000-3-3:2013/A2:2021, EN 301 489-1 V2.2.3:2019, EN 301 489-3 V2.3.2:2023, EN 301 489-52 V1.2.1:2021,
EN 300 440 V2.1.1, EN 300 440 V2.2.1, EN 301 908-1 V15.1.1, EN 301 908-13 V13.2.1,
EN 50663:2017, EN 62311:2008, EN 50665:2017

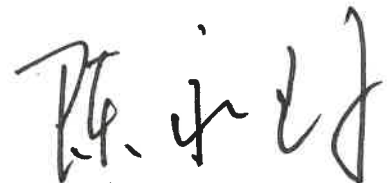
Notified Body: TÜV SÜD Danmark ApS

NB No.: 2443

Certificate No.: DK-RED002818 i01, DK-RED002821 i01

Zhejiang

28.09.23



(Chairman/President)

EC Declaration of Conformity



Product name and type

Mirador Pergola and Mirador Wall Pergola/ pergola awning

Model name/ Unique identification code of the product:

111 Deluxe AxBm, 111 Deluxe e AxBm, 111 Deluxe e-Motion RC AxBm, 111 Deluxe e-Motion AxBm
111 Deluxe Edge AxBm, 111 Deluxe Edge e AxBm, 111 Deluxe Edge e-Motion RC AxBm, 111 Deluxe Edge e-Motion AxBm
111 Deluxe R AxBm, 111 Deluxe R e AxBm, 111 Deluxe R e-Motion RC AxBm, 111 Deluxe R e-Motion AxBm

AxB:

3x3, 3x3.6, 3x4, 3.6x3.6, 3.6x4,
3x5.3, 3x6, 3x7.2, 3.6x5.3, 3.6x6, 3.6x7.2

111 Classic AxBm, 111 Classic e AxBm, 111 Classic e-Motion AxBm
111 Premium AxBm, 111 Premium e AxBm, 111 Premium e-Motion AxBm,

AxB:

3x3, 3x3.6, 3x4,
3x5.3, 3x6, 3x7.2

111 Infinite AxBm, 111 Infinite e AxBm, 111 Infinite e-Motion RC AxBm, 111 Infinite e-Motion AxBm

AxB:

3.6x3.6, 7.2x7.2

Purpose of Usage:

External use in buildings and other construction works

Manufacturer:

Zhejiang Zhengte Co., Ltd.
811 Dongfang Ave, Zhejiang (China)

Documentation officer:

Stefan Baricik
Sorara Outdoor Living B.V.
Cockeveld 3, 5672 AE Nuenen (The Netherlands)

Meets the provisions of Machinery Directive 2006/42/EC

Harmonised standards used:

EN 13561:2015
EN 60335-1:2012+A11:2014+A13:2017+A1:2019 + A14:2019 +A2:2019+A15:2021
EN 60335-2-97:2006+A11:2008+ A2:2010+ A12:2015
EN 62233:2008

Zhejiang
20.07.23

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A handwritten signature in black ink, appearing to be 'Stefan Baricik', written in a cursive style.

(Chairman/President)

UK Declaration of Conformity



Product name and type

Mirador Pergola

Model name/ Unique identification code of the product:

111 Deluxe AxBm, 111 Deluxe e AxBm, 111 Deluxe e-Motion RC AxBm, 111 Deluxe e-Motion AxBm
111 Deluxe Edge AxBm, 111 Deluxe Edge e AxBm, 111 Deluxe Edge e-Motion RC AxBm, 111 Deluxe Edge e-Motion AxBm
111 Deluxe R AxBm, 111 Deluxe R e AxBm, 111 Deluxe R e-Motion RC AxBm, 111 Deluxe R e-Motion AxBm
AxB:
3x3, 3x3.6, 3x4, 3.6x3.6, 3.6x4,
3x5.3, 3x6, 3x7.2, 3.6x5.3, 3.6x6, 3.6x7.2

111 Classic AxBm, 111 Classic e AxBm, 111 Classic e-Motion AxBm
111 Premium AxBm, 111 Premium e AxBm, 111 Premium e-Motion AxBm,
AxB:
3x3, 3x3.6, 3x4,
3x5.3, 3x6, 3x7.2

111 Infinite AxBm, 111 Infinite e AxBm, 111 Infinite e-Motion RC AxBm, 111 Infinite e-Motion AxBm
AxB:
3.6x3.6, 7.2x7.2

Purpose of Usage:

External use in buildings and other construction works

Manufacturer:

Zhejiang Zhengte Co., Ltd.
811 Dongfang Ave, Zhejiang (China)

Documentation officer:

Stefan Baricik
Sorara Outdoor Living B.V.
Cockeveld 3, 5672 AE Nuenen (The Netherlands)

Meets the provisions of Supply of Machinery (Safety) Regulations 2008 (No. 1597)

Harmonised standards used:

EN 13561:2015
EN 60335-1:2012
EN 60335-1:2012/AC:2014
EN 60335-1:2012/A11:2014
EN 60335-1:2012/A13:2017
EN 60335-1:2012/A15:2021
EN 60335-2-97:2006
EN 60335-2-97:2006/A12:2015

Zhejiang
20.07.23

(Chairman/President)

ETL LISTED MARK



Conforms and Certified to standard Door, Drapery, Gate, Louver, and Window Operators and Systems [ANSI/CAN/UL 325:2017 Ed.7+R:28Feb2020]

ETL is a Certification Program provided by Intertek, which is a Recognized Testing Laboratory (NRTL) in the United States , and is accredited by institutes and associations such as ANSI, A2LA, and UKAS.

The Mirador 111 DA e-Motion+ is ETL certified in the United States of America and Canada under Control Number 5026666.

FCC INFORMATION



Supplier's Declaration of Conformity Compliance Information

| Unique Identifier | |
|---|---|
| Product Description | Mirador Pergola |
| Model Number | 111 e-Motion+ |
| Trade Name | Mirador |
| FCC Compliance Statement | |
| This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. | |
| Responsible Party - U.S. Contact Information | |
| Company: | Sorara Outdoor Living USA, Inc. |
| Address: | 15271 Fairfield Ranch Rd. , Ste# 180, Chino Hills, CA 91709 |
| Telephone or internet contact information: | 909-597-5930 – Hello@Sorara.com |

Warning: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For Pergola:

MPE Requirements

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

For remote control:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

more to
enjoy

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recycled paper



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