

# BIOCLIMATIC PERGOLA80S



# THANK YOU FOR PURCHASING OUR MIRADOR BIOCLIMATIC PERGOLA!

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. Please keep these instructions in a safe place.

This product can be used by children ages 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 of an adult.

### 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.

For parts and customer service, please call +1 (877)-506-4777 in the U.S. and Canada (English and Spanish) Monday - Friday: 6:30 am - 4:30 pm, Saturday – Sunday: 8:30 am – 4:30 pm, Pacific Time. Or email: support@miradoroutdoor.com

Digital instruction manual is also available on our official website www.miradoroutdoor.com for your reference.

## **TABLE OF CONTENTS**

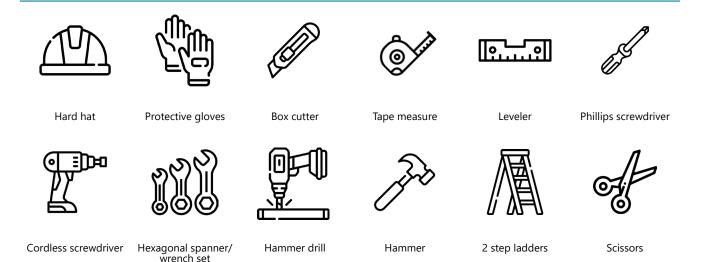
- Before Assembling Your Pergola 3
  - Important Safety Advice 5
    - List of Parts 7
      - Assembly 10
  - Operating Your Pergola 29
- Problem Solving, Care & Maintenance 30
  - Warranty & Complaints Procedure 32
- Disassembly & Disposal of the Product 33
  - Certification Information 34

# BEFORE ASSEMBLING YOUR PERGOLA

### Please read all the instructions carefully before you begin, and follow the steps in the order they are presented.

### 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.



3

### Check to ensure there are no missing parts:

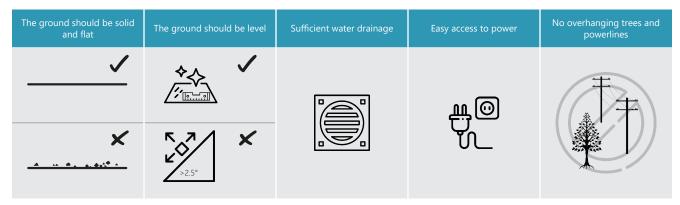
Before you begin assembly, please check that you have all the parts required to assemble your pergola. Please also carefully check that the quantity of parts match with that of the model you have purchased.

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

### Prepare the parts you will need for each step:

In the **Assembly** 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 assembly 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:



### 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 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:

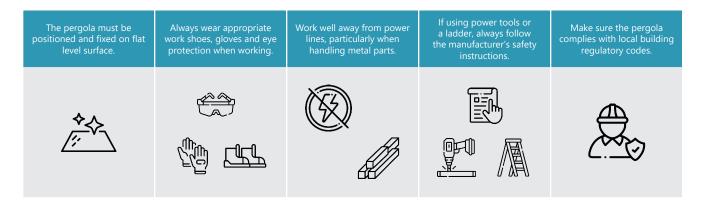
To prepare it, you need to:

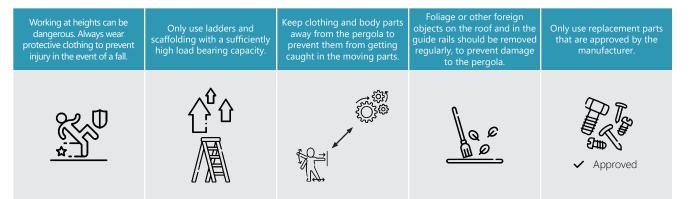
- check for underground pipes and cables (Call 811 before you dig if you live in the USA)
- check with your local authorities regarding any building permits that may be required
- contact a reliable contractor to install a concrete base if you don't have one

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

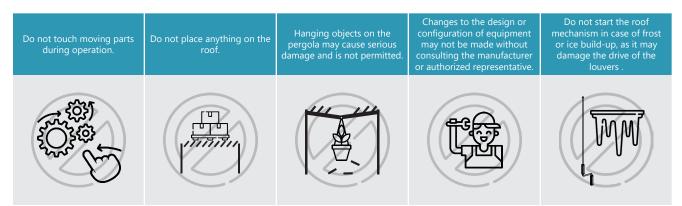
# IMPORTANT SAFETY ADVICE

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





Put the louvers into the vertical position during snowfall or wind to avoid damage.	Installation of non-Mirador branded accessories will void the product warranty and can damage the operating mechanism.	After prolonged use we recommend you check all the fittings are tightened securely.	Please recycle packaging where possible.	Do not attempt to assemble the product if you are tired or have consumed alcohol.
י_י_ט י_י_י י`ייי וייייי  'יייי	Mirador®		A A A A A A A A A A A A A A A A A A A	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
Dispose of all plastic bags safely. Keep them out of the reach of children.	Keep children and pets away from the assembly area until the work is completed.	Do not attempt to assemble the pergola in windy or wet conditions.	Do not climb on the roof.	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.
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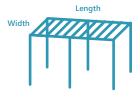


# **LIST OF PARTS**

Please carefully check that the quantity of parts matches with that of the model you have purchased.

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

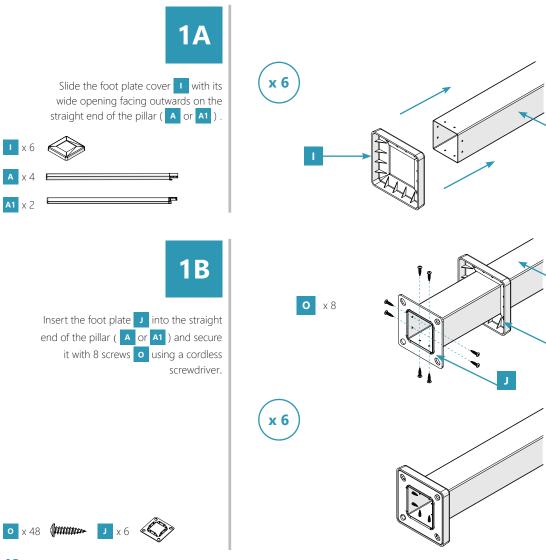
Do not use an impact cordless screw driver to assemble the pergola. Use a standard cordless screw driver on the base setting. All holes have been predrilled or fitted for assembly.



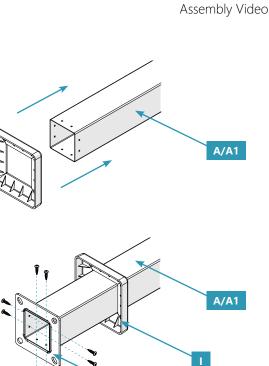
	REF	Part Name	Length	
	KEF	Part Name	5m/16.5ft.	6m/20ft.
Α		Corner Pillar	4 pcs	4 pcs
A1		Middle Pillar	2 pcs	2 pcs
В	<u> </u>	Side beam with gearbox 1	1 pcs	1 pcs
B1		Side beam with gearbox 2	1 pcs	1 pcs
B2		Side beam without gearbox 1	1 pcs	1 pcs
<b>B3</b>		Side beam without gearbox 2	1 pcs	1 pcs

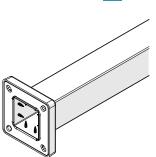
	DEC	Dant Name	Length		
	REF	Part Name	5m/16.5ft.	6m/20ft.	
С		End beam	2 pcs	2 pcs	
D		Driving Louver	2 pcs	2 pcs	
D1		Louver	30 pcs	36 pcs	
F		Connecting pipe	2 pcs	2 pcs	
G	<u> </u>	Connecting strip 1	2 pcs	4 pcs	
G1		Connecting strip 2	2 pcs	-	
н		Crank	2 pcs	2 pcs	
I		Foot plate cover	6 pcs	6 pcs	
J		Foot plate	6 pcs	6 pcs	
К	e c c c c c c c c c c c c c c c c c c c	Louver end cap	2 pcs	2 pcs	

	REF	Part Name	5m/16.5ft.	6m/20ft.		REF	Part Name	5m/16.5ft.	6m/20ft.
K1		Louver end cap L	30+2 pcs	36+2 pcs	т	<b></b> v)	Louver shaft	4 pcs	4 pcs
K2		Louver end cap R	30+2 pcs	36+2 pcs	U		Screw M8x16mm	24+3 pcs	24+3 pcs
L	apple of the second sec	Louver end cap with control arm	2 pcs	2 pcs	U1		Screw M8x18mm	24+3 pcs	24+3 pcs
M1		Shaft support cover	64+16 pcs	76+4 pcs	V		Crank coupler	2 pcs	2 pcs
M2		Shaft seat	64+16 pcs	76+4 pcs	W		Anchor bolt M8x80mm	24 pcs	24 pcs
0	<i>(fittilitier</i> +	Screw ST5.5x23mm	176+9 pcs	200+10 pcs	X		Hex key M5	1 pcs	1 pcs
Р	@[]]	Connecting fixed axis	4 pcs	4 pcs	Y		Hex key S6	2 pcs	2 pcs
Q	(+))))))))»	Screw ST4.2x25mm	68+10 pcs	80+12 pcs	Y1	ſ	Hex key M6	2 pcs	2 pcs
R		Screw ST4.8x16mm	122+6 pcs	146+7 pcs	<b>Y6</b>		Ratchet hex wrench	1 pcs	1 pcs
S	Contraction of the second seco	Cotter pin	12+2 pcs	12+2 pcs	Z	5 <b>=</b>	12mm SDS Plus Drill Bit	1 pcs	1 pcs



## **ASSEMBLY 1. Set up the pillars**

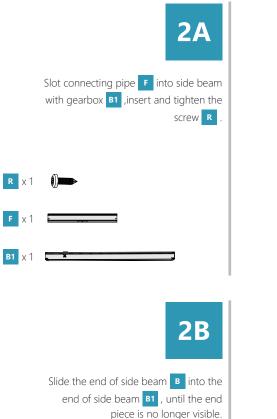




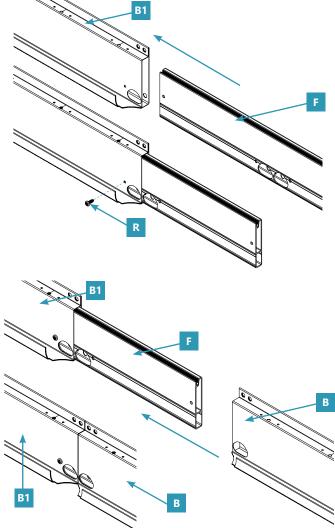


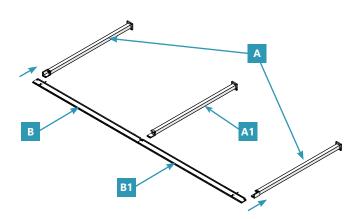


# 2. Connect the side beams to the corner pillars



B x 1 🕻

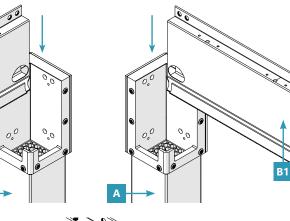


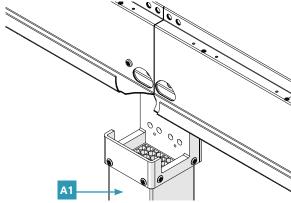




Align the newly connected side beams with the corresponding pillars ( A & A1 ).





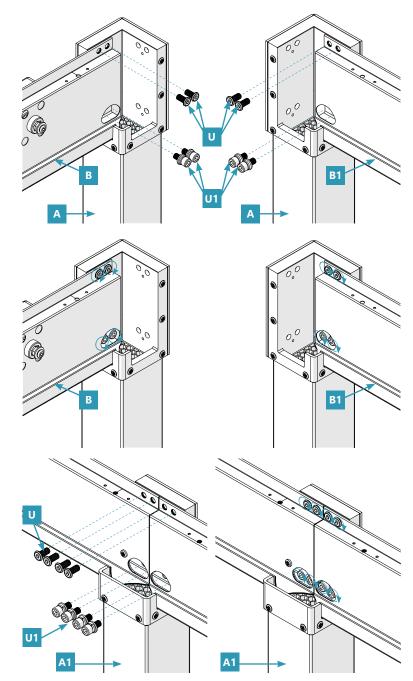


2D

C

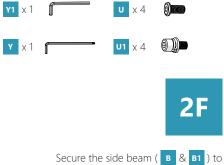
Α

Slide the side beams into the grooves of the corner pillars ( A & A1 ) in such a way that the slot nuts of the side beams ( B & B1 ) interlock with the slots in the pillars.

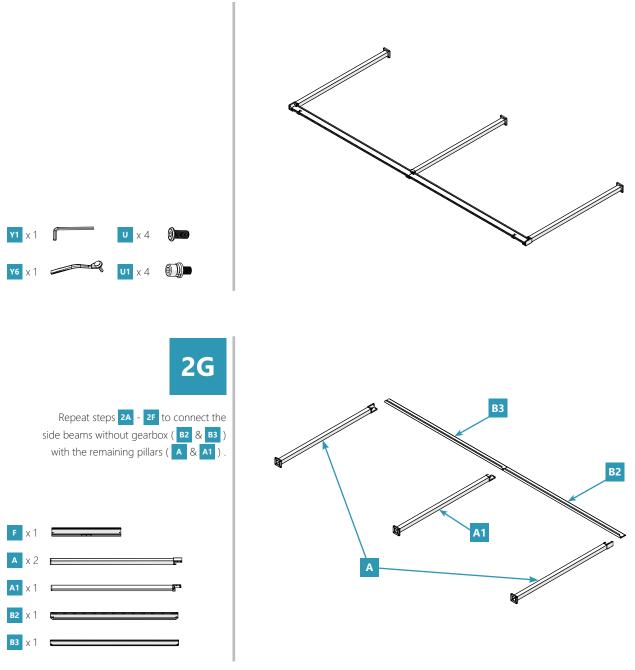


Secure the side beam ( B & B1 ) to A1 with screws U on the upper side by using hex key M6 Y1 and screws U1 on the bottom side by using hex key S6 Y .

**2E** 

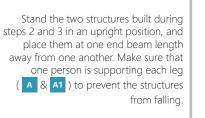


A1 with 4 screws U on the upper side by using hex key M6 Y1 and 4 screws
U1 on the bottom side by using ratchet hex wrench Y6 .



### 3. Assemble end beams

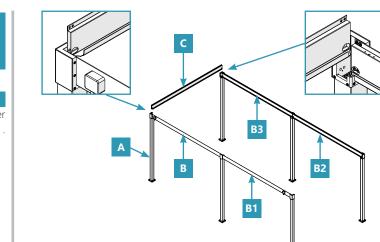
This phase requires six persons and at least two stepladders. Make sure that the stepladders are standing securely to avoid falling. Only use ladders suitable for this kind of assembly work.



### Reminder:

**3A** 

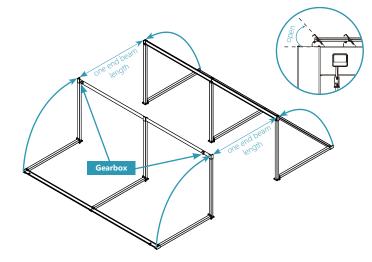
When determining the installation direction of the product, please consider the opening direction of the louvers as well as the desired sunshade effect.



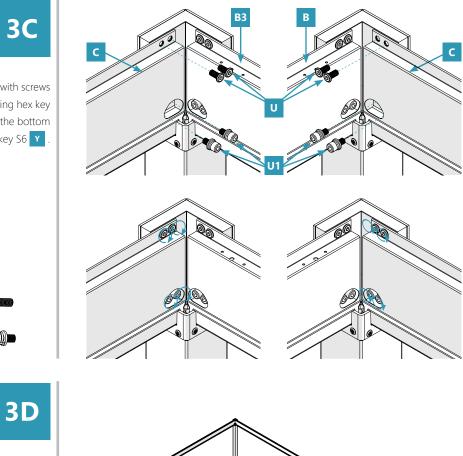


Slide the slot nuts of the end beams c from above into the slots of the corner pillars A.

**c** x 1



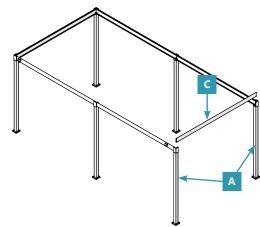


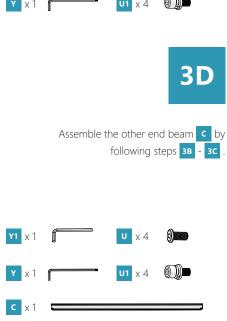


Secure the end beam **c** with screws • on the upper side by using hex key M6 **Y1** and screws **U1** on the bottom side by using hex key S6 Y



U x 4



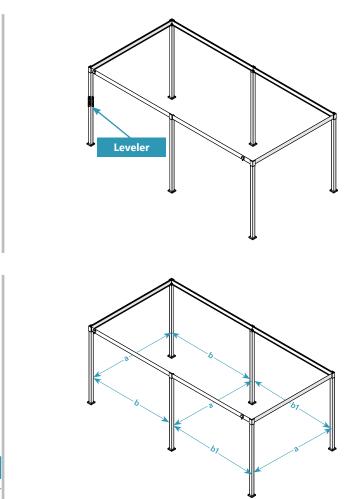


16

# 4. Check the alignment of the frame and the distance between the corner pillars

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

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





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

Use a leveler 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 assembly steps.

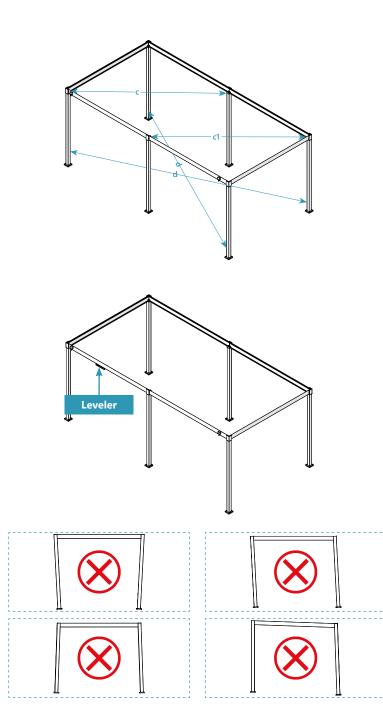




Measure the distances between the adjacent corner pillars. Adjust accordingly and ensure the distances match those shown in the opposite figure.

	Size	ä	1	k	כ	b	b1	
$\sim$	(m/ft)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
$(\bigcirc)$	3x5/10x16.5	2824.7	117.5	2827.6	111.3	1884	74.2	
0	3x6/10x20	2824.7	117.5	2827.6	111.3	2812.7	110.7	







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				1	d	
(m/ft)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
3x5/10x16.5	4113.69	162	3531.8	139	5647.38	222.3
3x6/10x20	4113.69	162	4103.46	161.6	6454.33	254.1



Check that all corner pillars are straight and level using a leveler. 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 professional installers if needed.)

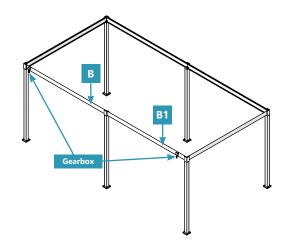
### Warning:

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

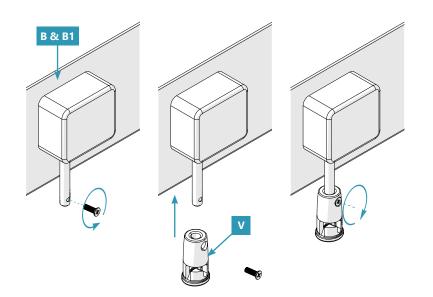
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### 5. Assemble cranks





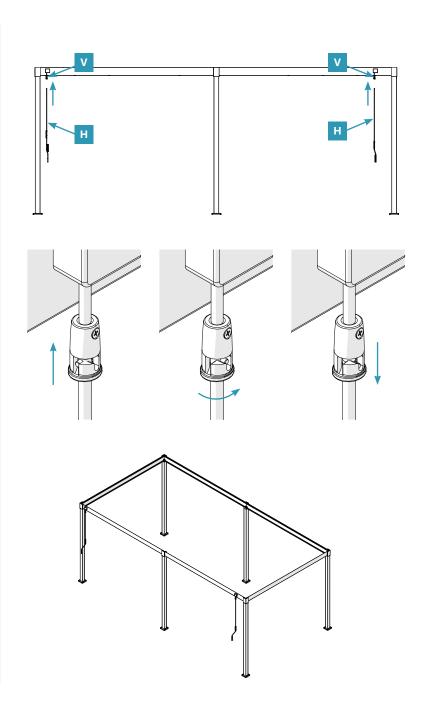




Unscrew and remove the small screw from the crank connectors.

Insert the crank couplers **v** into the crank connectors and re-insert and tighten the small screw.



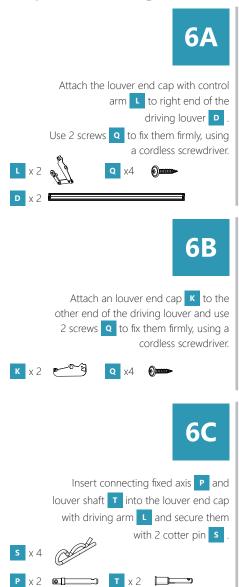


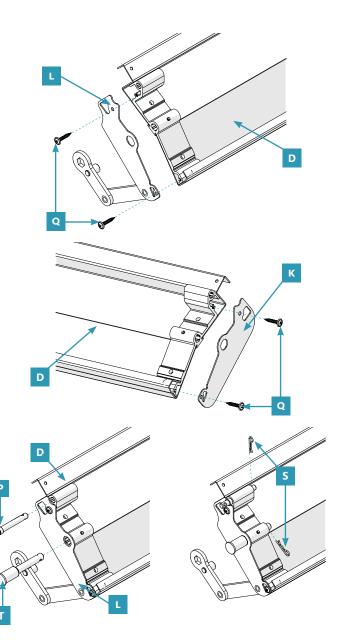


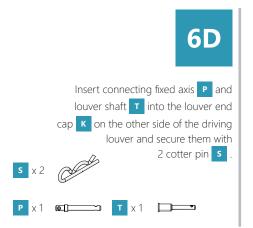
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### 6. Assemble louvers & connecting strips

### Prepare the driving louver



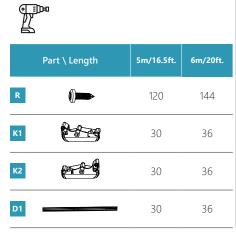


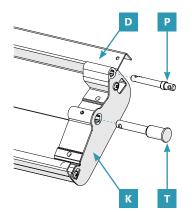


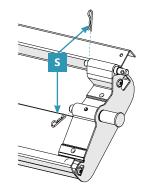
### **Prepare regular louvers**

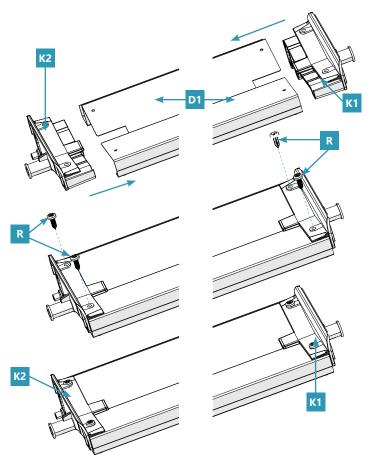
6E

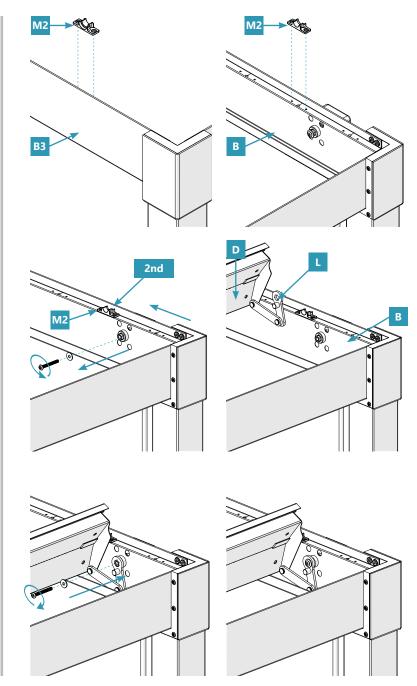
Attach the Louver end cap <sup>K2</sup> / louver end cap <sup>K1</sup> to the right/left end of the louver <sup>D1</sup>. Use 2 screws <sup>R</sup> on each side ,and fix them firmly using a cordless screwdriver.







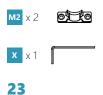


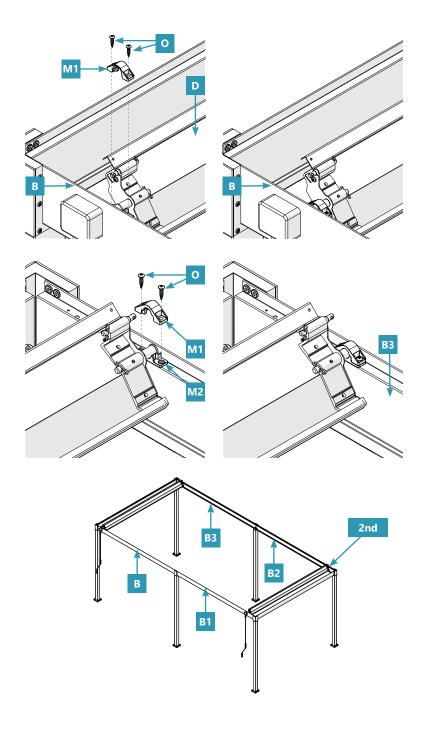




Place the shaft seat M2 at the **2nd position from the right** on both sides of the beams ( **B** & **B3** ), Loosen the screw and washer already attached to the beam **B** . Then fix the connecting rod **L** of the driving louver to the side beam with gearbox **B** , by firmly tightening the same screw and washer, using the hexagon socket key **X** .

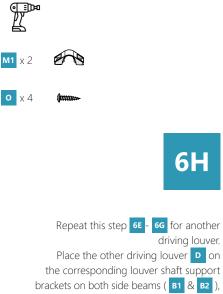
Place the driving louver D on the corresponding louver shaft seat support M2 on both side beams ( B & B3).





**6G** 

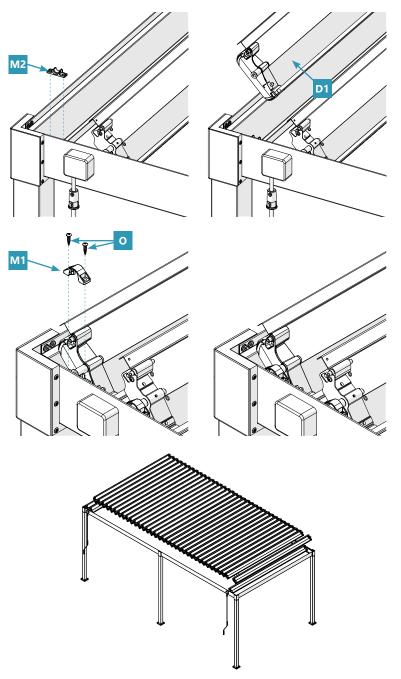
Secure the driving louver **D** in the shaft support brackets by fixing a shaft support cover M1 onto the shaft seat M2 on both ends. Use 2 screws o each and secure them with a cordless screwdriver.



Make sure the driving louver is placed 2nd from the side beam.

**6H** 

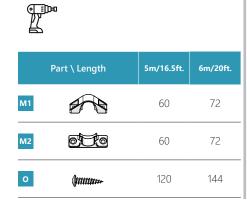
driving louver.

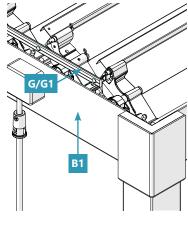


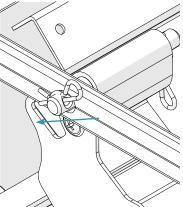
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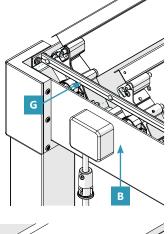
Place the shaft seat M2 on both sides of the beams and place the remaining louvers D1 into the remaining shaft seats M2 . Secure the louvers D1 in the shaft support brackets by fixing a shaft support cover M1 onto the shaft seats M2 on both ends. Use two screws O each and secure them with a cordless screwdriver.

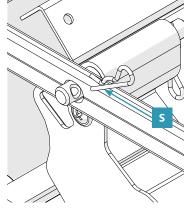
Repeat this step for all louvers.

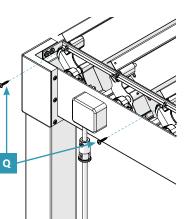


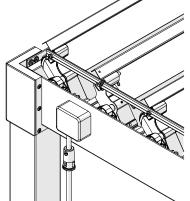








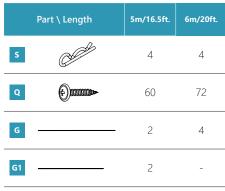






Take the connecting strip ( G & G1 ). Attach it to each louver, fitting each of the holes onto the corresponding shaft of the louvers. To fix driving louver D, insert and secure a cotter pin S through the small shaft hole on the driving louver. Use 1 screw Q to fix each louver D1 with ( G & G1 ) firmly.

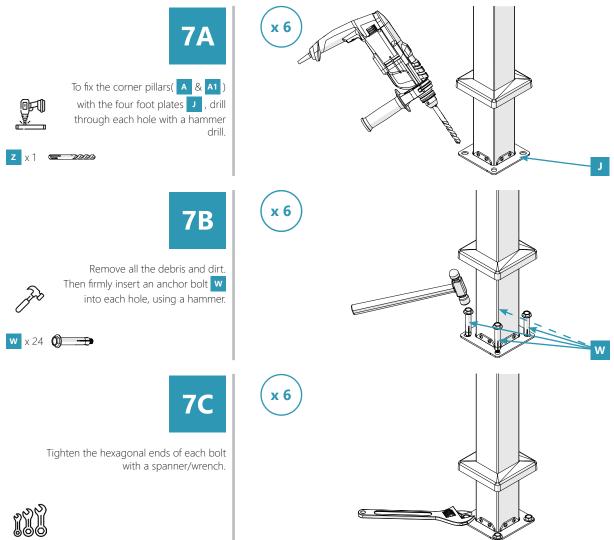
Repeat this step for the other side.



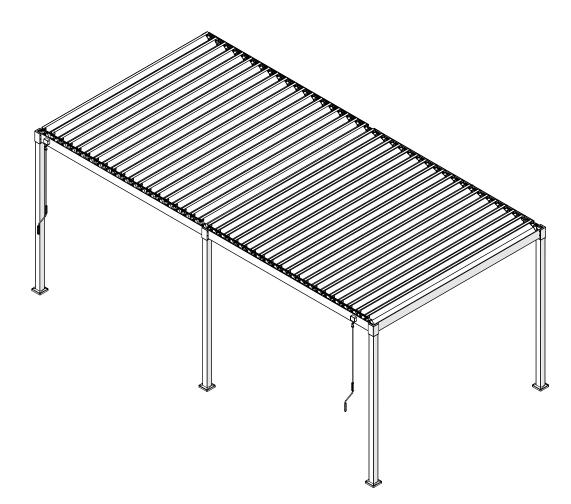
### 7. Secure the corner pillars to the ground

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".

To ensure the correct installation of the subsequent fttings, check the frame alignment and pillar distance by repeating steps 4A - 4D

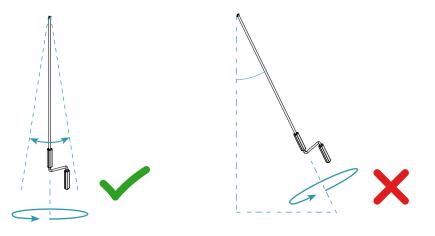


### 8. End of assembly

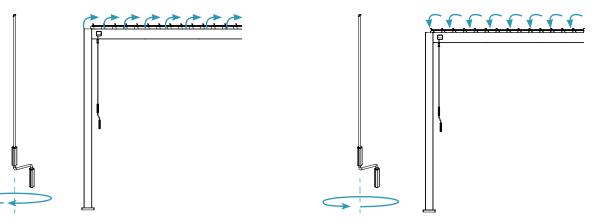


# OPERATING YOUR PERGOLA

When opening/closing the louvers, please ensure the crank remains in a vertical position next to the pillar. Do not move the crank too far away from the pillar.



To open the louvers, turn the crank handle clockwise; To close the louvers, turn the crank handle counter clockwise.



# PROBLEM SOLVING, CARE & MAINTENANCE

Issue	Explanation or action to take
Abnormal noise occurs during the rotation of the louvers.	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 flatness of the louver is damaged due to weather conditions.	Replace the affected louvers.
The drain is blocked by leaves or debris.	Clean the ducts and guttering of the pergola regularly.
The resistance to wind loads.	Class 6 (Claimed Beaufort Wind Force Scale 10).
The resistance to water pocket.	Class 1.
The mechanical endurance.	Class 1.

### **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.	For more soiled areas, rinse the surface with clean water from top to bottom.
00000			
In coastal areas, it is recommended that you frequently spray the pergola with water to reduce accumulation of salt and dirt.	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.	Do not use any petroleum based spray lubricant.	In most situations it should not be necessary to lubricate the moving components of the pergola. However, when squeaking occurs, using a silicone spray lubricant is recommended.
	< 0°C / 32°F	Petroleum based	Silicone based

### **PERIODIC INSPECTION**

- Check the pergola is fixed firmly to the ground.
- Check that the driving parts are sufficiently lubricated.
- Check the screws and rivet joints on the pergola.

# WARRANTY & COMPLAINTS PROCEDURE

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

### **Complaints procedure:**

• The complaint must include an order number or transaction number. Goods without an order number or transaction number are not covered under the warranty.

• The complaint must include a detailed description of the defect, the name of the company which assembled/installed the product if 3rd party was used and the date when the defect was discovered.

• At Sorara Outdoor Living USA's discretion, customer must offer supplier the photos/videos of the issue/damaged parts. Otherwise,

supplier reserves the right to refuse replacement parts or credit.

• Please save a copy of your purchase receipt.

### Contact:

Customer Service: support@miradoroutdoor.com Need Assistance? Call +1 (877)-506-4777

### **Hours of Operation:**

Phone Support: Monday - Friday: 6:30 am - 4:30 pm, Saturday – Sunday: 8:30 am – 4:30 pm, PST.
Email Support: We are available 24 hours a day. Please allow up to 24 hours for a response.
Chat With Us Online: miradoroutdoor.com, Monday - Friday: 5:30 am - 2:00 pm, Saturday – Sunday: 8:30 am – 4:30 pm, PST.

**Note:** Our team is available to assist you during these hours. If you have any inquiries or require support outside of these hours, please leave a voicemail, send an email, or use our online contact form. We will get back to you promptly during the next available support hours. Thank you for choosing Mirador Outdoor!

# DISASSEMBLY & 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.

When the service life of the pergola 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.

### **CERTIFICATION INFORMATION Declaration of performance (DOP)** Reference no. DOP0002

#### Product name and type

Mirador Pergola and Mirador Wall Pergola/ pergola awning

#### Model name/ Unique identification code of the product:

80 Solid AxBm, 80 AxBm, AxB: 3x2.4, 3x3, 3x5

88 Solid AxBm, AxB: 3x3

88 Basic AxBm, 88 S AxBm, AxB: 3x3, 3x3.6, 3x6

88 Basic A AxBm, 88 A AxBm, AxB: 3x3, 3x3.6, 3x6

Purpose of Usage: External use in buildings and other construction works

#### Manufacturer:

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

**Documentation officer:** Ziad Zhao Zhejiang Zhengte Co., Ltd. 811 Dongfang Ave, Zhejiang, PRC

System for assessing and verifying the constancy of performance according to Annex V of the Construction Products Regulation (EU)305/2011 System 4

Declared performance (Excluding the structural part):

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

Zhejiang 20.07.23



(Chairman/President)





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