

88 GRILL S1

INSTRUCTION MANUAL

LIFE SERIES

THANK YOU FOR PURCHASING OUR MIRADOR GRILL S1 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: RETAIN FOR FUTURE REFERENCE: READ CAREFULLY

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.

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BEFORE ASSEMBLING YOUR PERGOLA

WARNING: Important safety instructions. Follow all instructions, since incorrect assembly 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



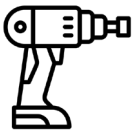
Tape measure



Leveler



Phillips screwdriver



S6.33x65mm

Cordless screwdriver



Hexagonal spanner/
wrench set



Hammer drill



Hammer



2 Step ladders



Scissors

Check to ensure there are no missing parts:

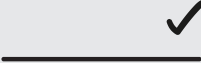
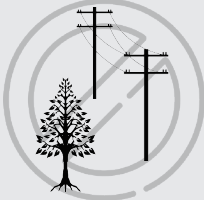
Before you begin assembly, please check that you have all the parts required to assemble your pergola. Please also carefully check that the quantity of parts match with that of the model you have purchased.

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:

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 assembly, 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:

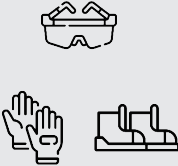
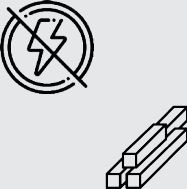
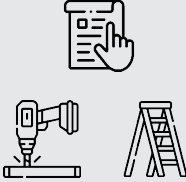
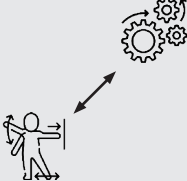
To prepare it, you need to:

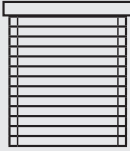
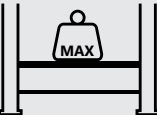
- check for underground pipes and cables (Call 811 before you dig if you live in the USA)
- check with your local authorities regarding any building permits that may be required
- contact a reliable contractor to have concrete base if you dont have one

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.

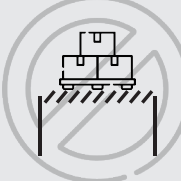
IMPORTANT SAFETY ADVICE

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

The pergola must be positioned and fixed on flat level surface.	Always wear appropriate work shoes, gloves and eye protection when working.	Work well away from power lines, particularly when handling metal parts.	If using power tools or a ladder, always follow the manufacturer's safety instructions.	Make sure the pergola complies with local building regulatory codes.
				
Working at heights can be dangerous. Always wear protective clothing to prevent injury in the event of a fall.	Only use ladders and scaffolding with a sufficiently high load bearing capacity.	Keep clothing and body parts away from the pergola to prevent them from getting caught in the moving parts.	Foliage or other foreign objects on the roof and in the guide rails should be removed regularly, to prevent damage to the pergola.	Only use replacement parts that are approved by the manufacturer.
				 ✓ Approved

Put the louvers into the vertical position during snowfall or wind to avoid damage.	Assembly 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 exceed the weight limit when using the bar table. (bar table top: 132lbs/60kg)
	 Mirador®			

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.
				

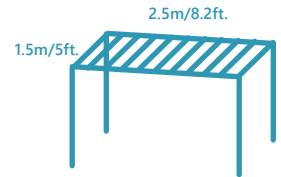
Do not touch moving parts during operation.	Do not place anything on the roof.	Hanging objects on the pergola may cause serious damage and is not permitted.	Changes to the design or configuration of equipment may not be made without consulting the manufacturer or authorized representative.	Do not attempt to assemble the product if you are tired, or after consuming alcohol.
				

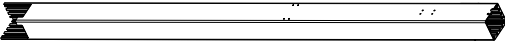
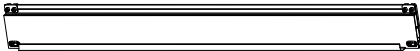
LIST OF PARTS

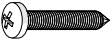
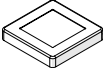
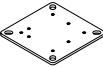
Please carefully check that the quantity of parts matches with that of the model you have purchased.

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	QTY
A3		Corner pillar 1	2 pcs
A4		Corner pillar 2	2 pcs
B1		Side beam with gearbox	1 pcs
B2		Side beam without gearbox	1 pcs
C		End beam	2 pcs
D		Louver	16 pcs
E		Bar table pedal	2 pcs
F		Bar table top	2 pcs
G		Connecting strip	2 pcs

	REF	Part Nwame	QTY		REF	Part Name	QTY
H		Crank	1 pcs	Q		Screw 4.2x25mm	64+4 pcs
I		Foot plate cover	4 pcs	R		Screw 5.5x19mm	44+2 pcs
J		Foot plate	4 pcs	S		Cotter pin	32+6 pcs
K		Louver end cap	31+2 pcs	V		Crank coupler	1 pcs
L		Louver end cap with control arm	1 pcs	W		Anchor bolt M8x80mm	16 pcs
M		Shaft support cover	32+2 pcs	X		Hex key (small)	1 pcs
N		Corner pillar cover	4 pcs	Y		Hex key (large)	2 pcs
O		Screw ST5.65x45mm	24+2 pcs	Z		12mm SDS Plus Drill Bit	1 pcs
P		Screw M5x12mm	64+4 pcs	Z10		Spare plastic pin	0+10 pcs

ASSEMBLY

1. Set up the corner pillars



Assembly Video

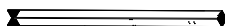
1A

Slide the foot plate cover **I** with its wide opening facing outwards on the straight end of the corner pillars **A3** & **A4**.

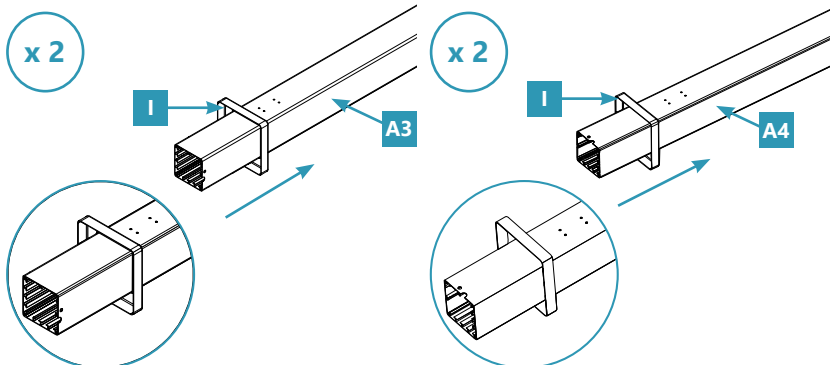
I x 4



A3 x 2



A4 x 2

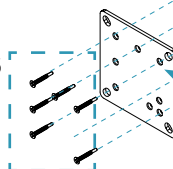


1B

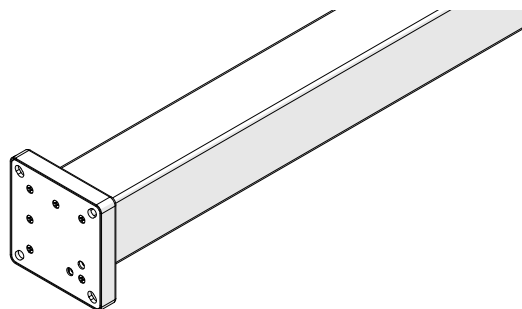
Push the foot plate **J** against the straight end of the corner pillars **A3** & **A4**. It only fits in one direction and in one position. If in doubt, rotate it until it fits easily.

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

O x 6



x 4



O x 24



J x 4



2. Connect side beam to the corner pillars

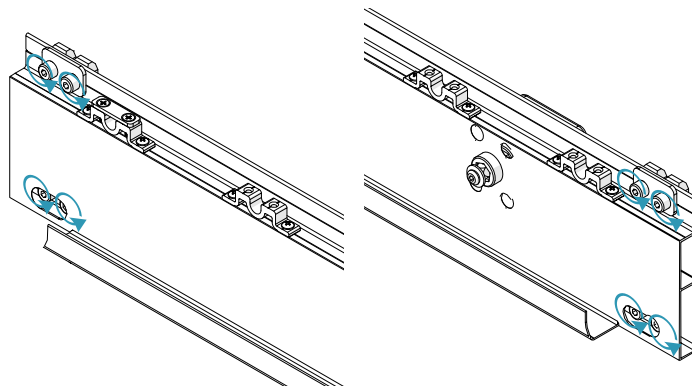
2A

Using a hex key (large) **Y**, slightly loosen the 8 built-in screws at both ends of the side beam with gearbox **B1**.
(4 on each side)

Y x 1



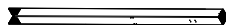
B1 x 1



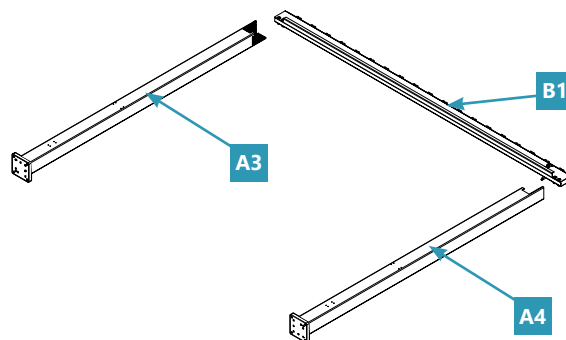
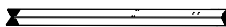
2B

Lay corner pillars **A3** & **A4** and the side beam with gearbox **B1** down on the floor, as shown in the picture.

A3 x 1

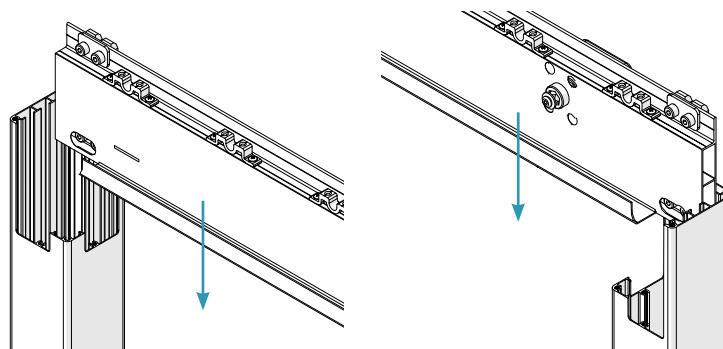


A4 x 1



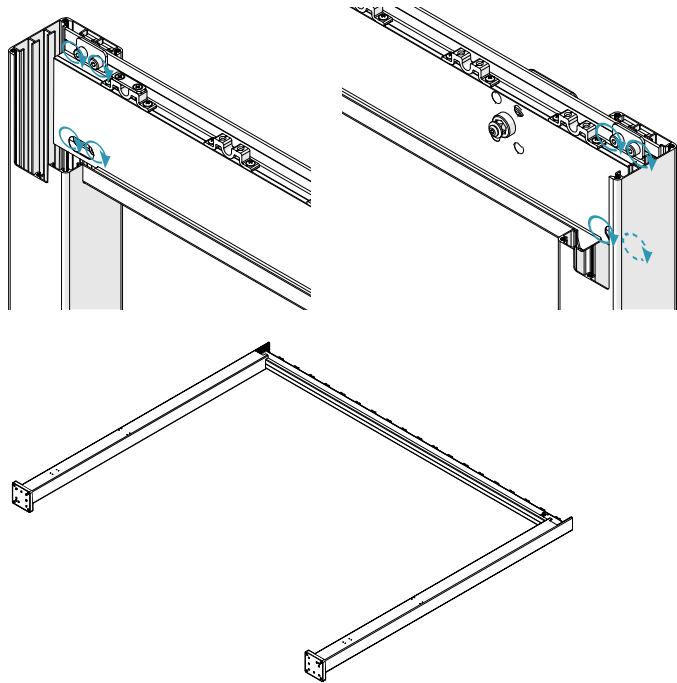
2C

Slide the side beam with gearbox **B1** into the grooves of the corner pillars, in such a way that the slot nuts of the side beam interlock with those of the corner pillars.



2D

Tighten the screw with the hex key **Y**.

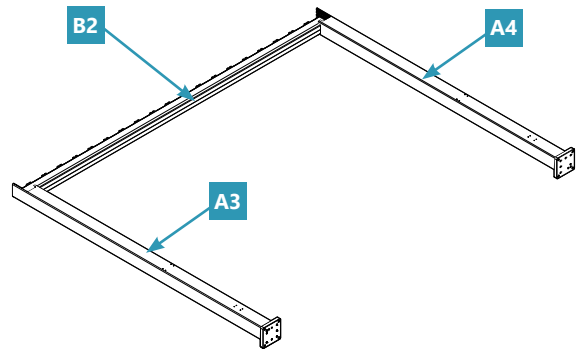


Y x 1



2E

Repeat steps **2A** - **2D** to connect the beam without gearbox **B2** with the remaining two corner pillars.



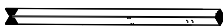
Y x 1



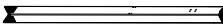
B2 x 1



A3 x 1



A4 x 1



3. Assemble end beams

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



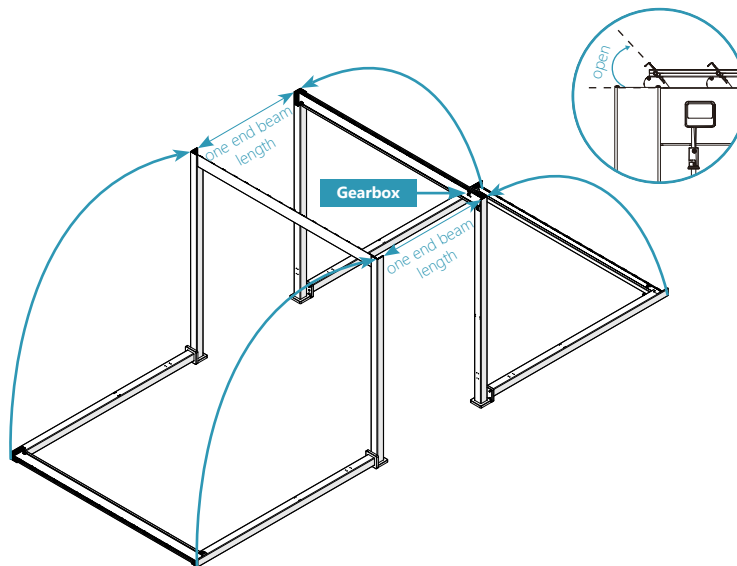
Only use ladders suitable for this kind of assembly work.

3A

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 each corner leg to prevent the structures from falling.

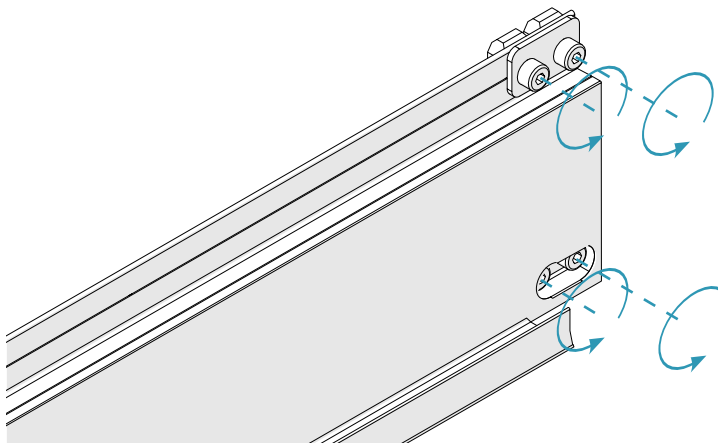
Reminder:

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



3B

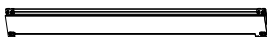
Slightly loosen the 8 built-in screws at both ends of the end beam **C**.



Y x 1



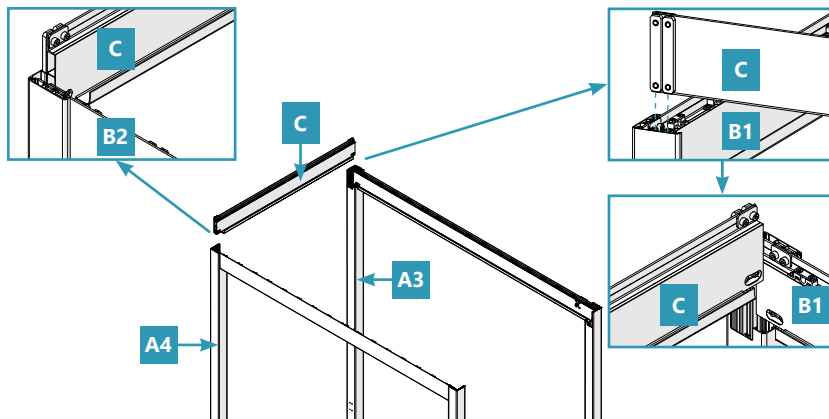
C x 1



3C

Slide the slot nuts of the end beams **C** from above into the slots of the corner pillars **A3** & **A4**.

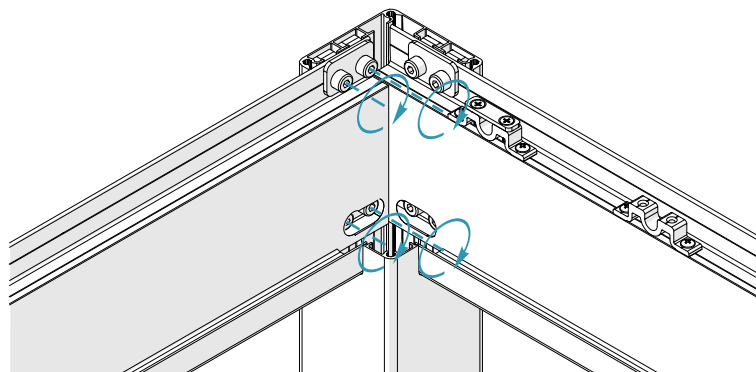
C x 1



3D

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

Y x 1



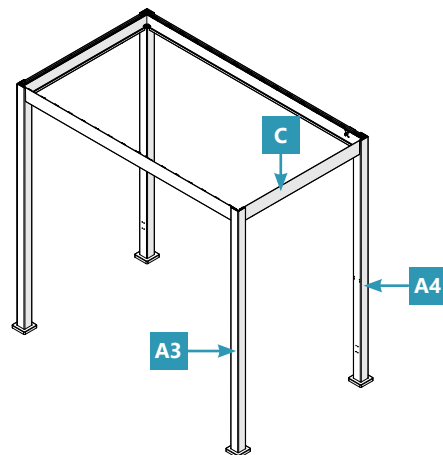
3E

Assemble the other end beam **C** by repeating steps **3B** - **3D**.

Y x 1



C x 1



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.

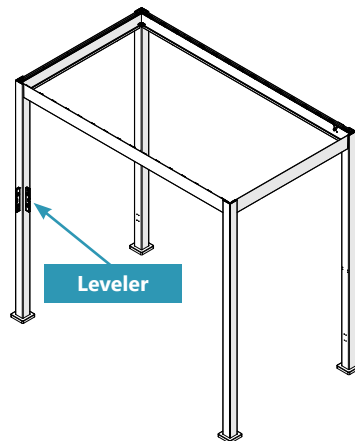
You will also need a tape measure and a leveler to complete this step.

4A

Choose one of the corner pillars 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.

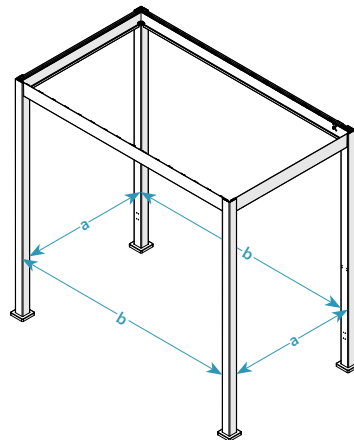


4B

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



$a = 130.8 \text{ cm} / 51.5 \text{ inches}$
 $b = 234.9 \text{ cm} / 92.5 \text{ inches}$

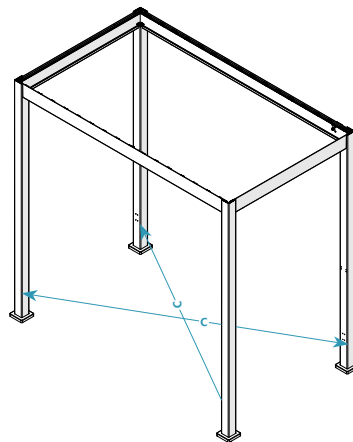


4C

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.

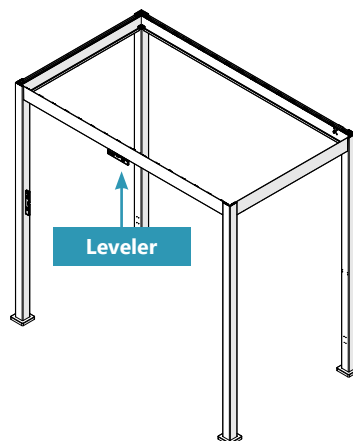


c = 269.3 cm / 106 inches



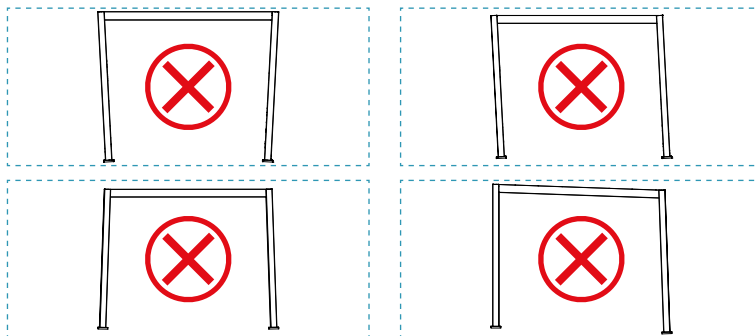
4D

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 installer if needed.)



Warning:

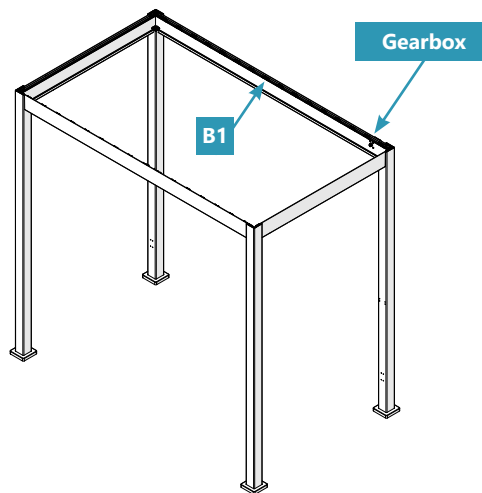
If you do not adjust the main structure at this point, you may encounter problems when fitting the roof deck and/or accessories to the frame.



5. Assemble crank

5A

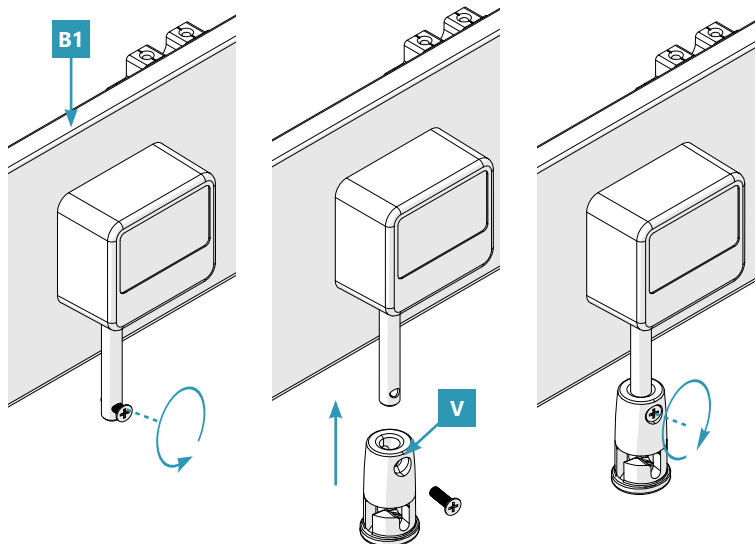
Locate the gearbox on the side beam with gearbox **B1**.



5B

Unscrew and remove the small screw from the crank connector.

Insert the crank coupler **V** into the crank connector and re-insert and tighten the small screw.

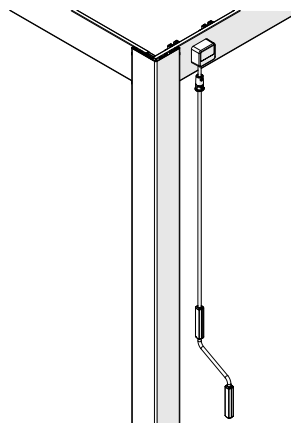
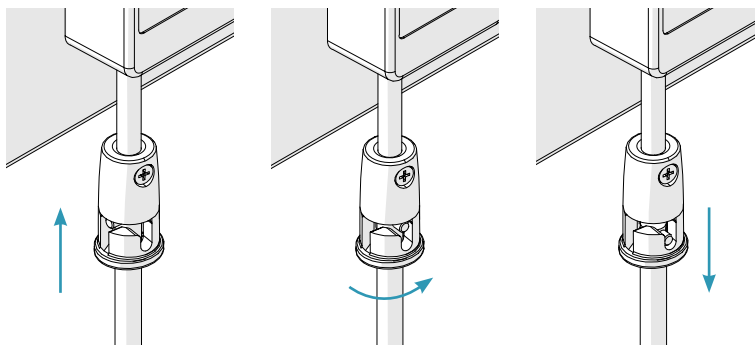
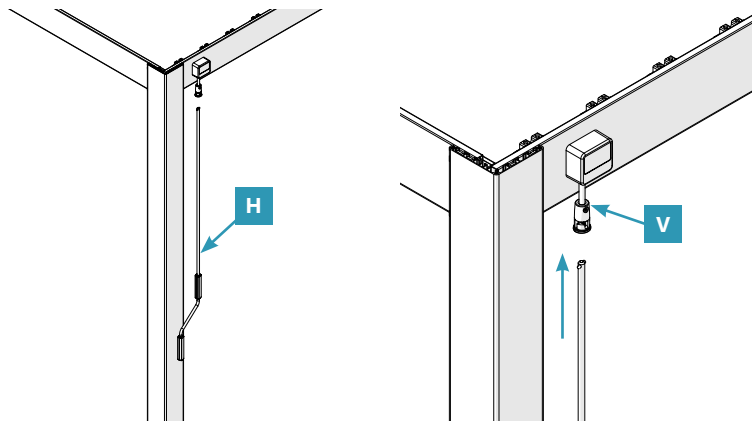


V x 1



5C

Insert the end of the crank **H** into the crank coupler **V**, and turn until the crank locks firmly in place.



6. Assemble louver & connecting strip

6A

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

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

L x 1



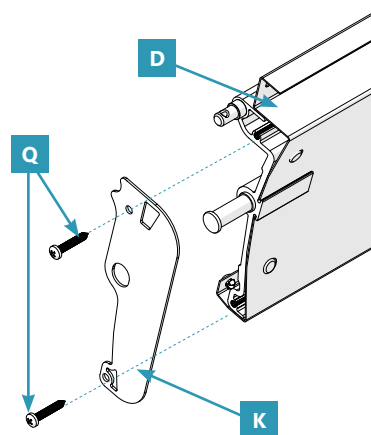
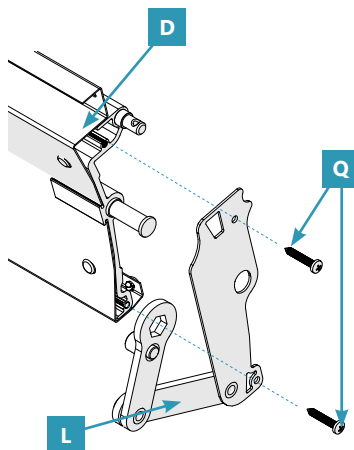
Q x 4



K x 1



D x 1



6B

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.

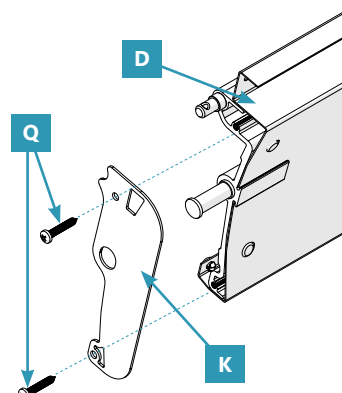
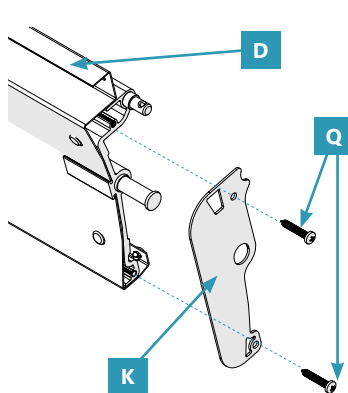
Q x 60



K x 30



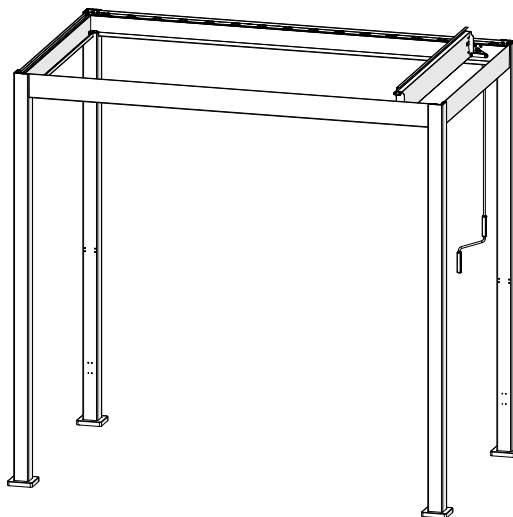
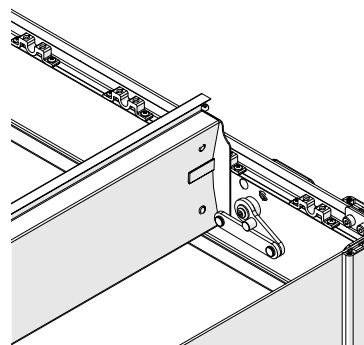
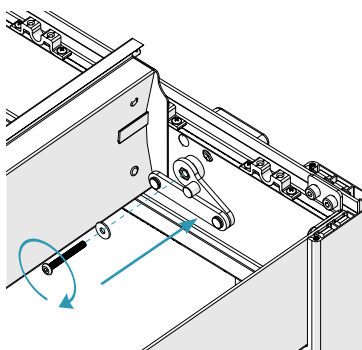
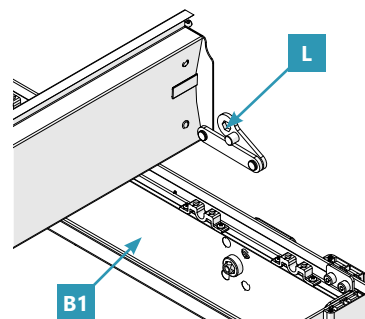
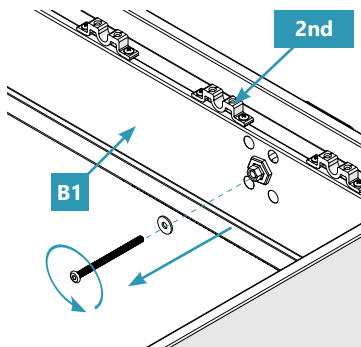
D x 15



6C

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

Place the louvers **D** on the corresponding louver shaft support on both side beams (**B1** & **B2**), with each louver overlapping the next, and **make sure that the driving louver is placed 2nd from the right**.



x x 1

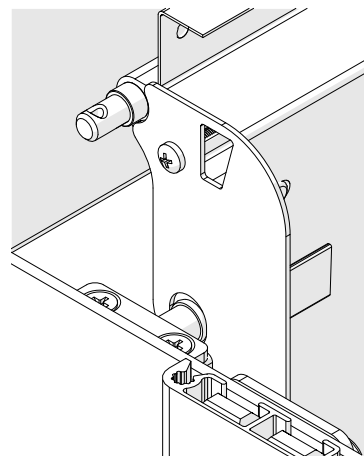
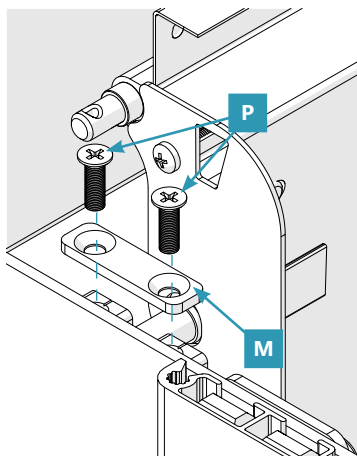
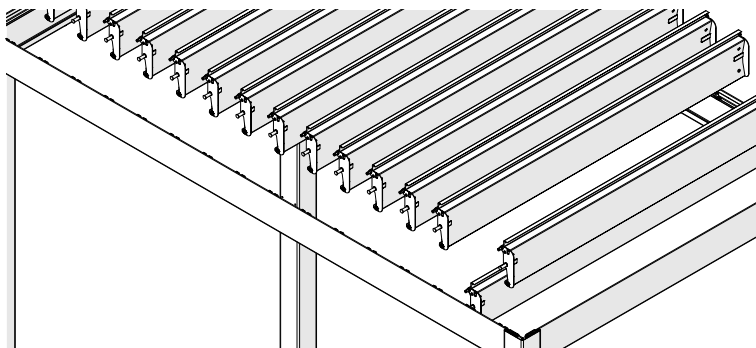
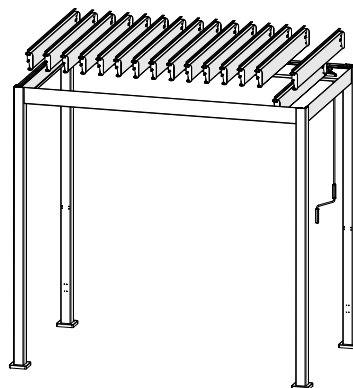


6D

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

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.



M x 32



P x 64



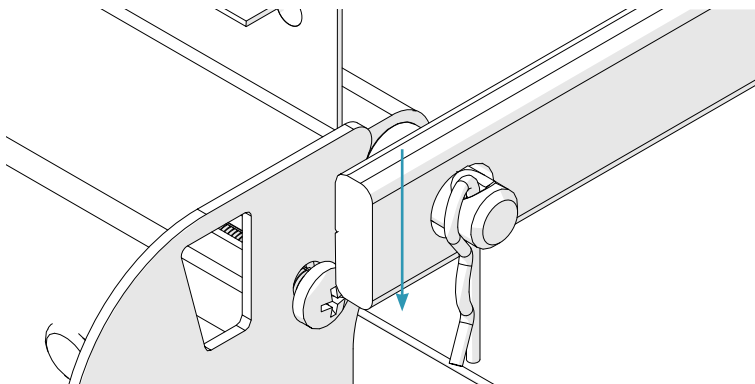
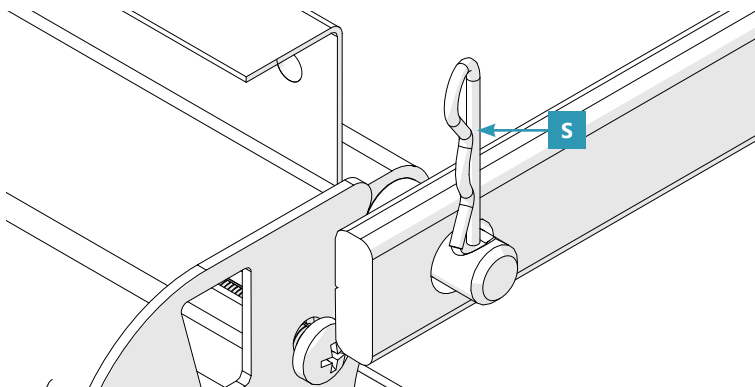
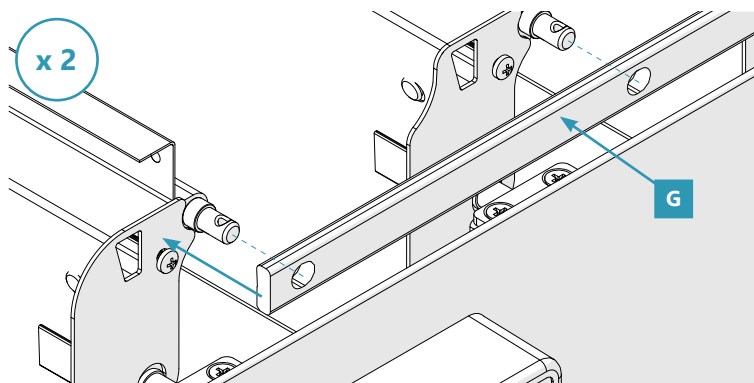
6E

Attach the connecting strip **G** to each louver by 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 cotter pins on both sides.

Reminder:

For the single louver model, the connecting strips are on both sides.



S x 32

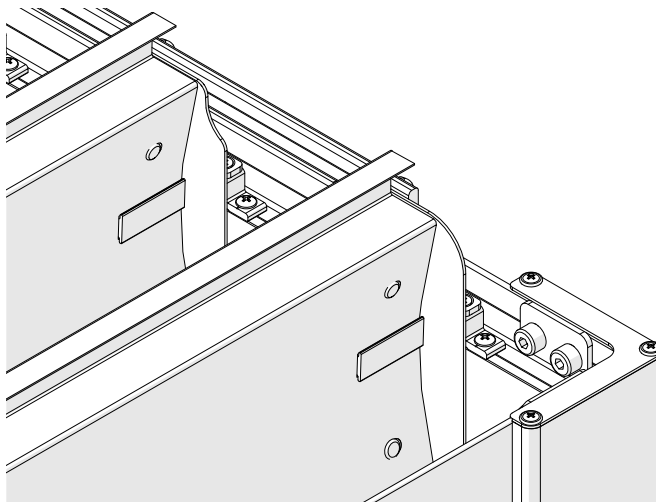
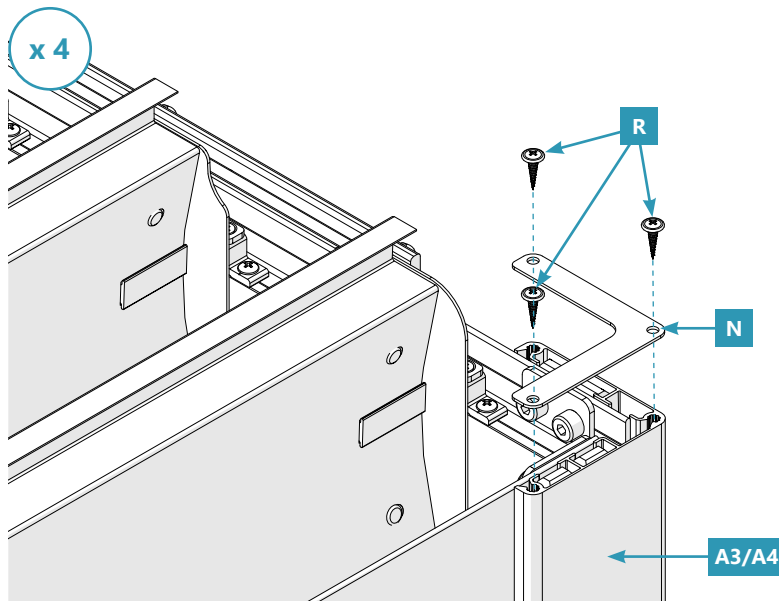


G x 2

7. Secure corner pillar covers

7A

Fix a pillar cover **N** to the top of each corner with three screws each **R**. Fix them using a cordless screwdriver.



N x 4



R x 12



8. Assemble bar table & secure the pergola to the ground

8A

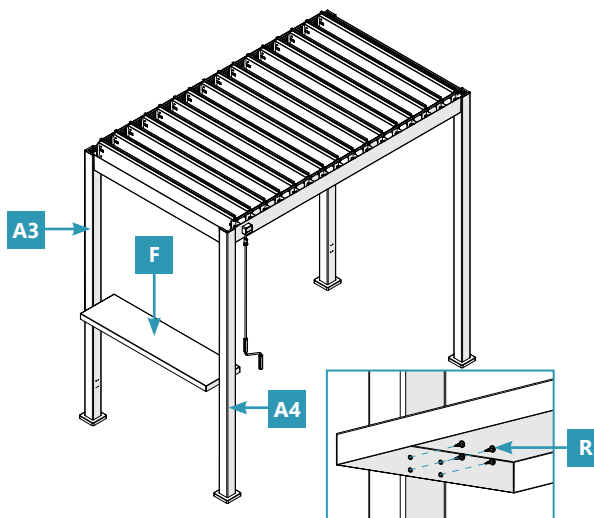
Align the mounting holes on the pillars and bar table top **F** and connect them with screws **R** by using cordless screwdriver.



F x 1



R x 8



8B

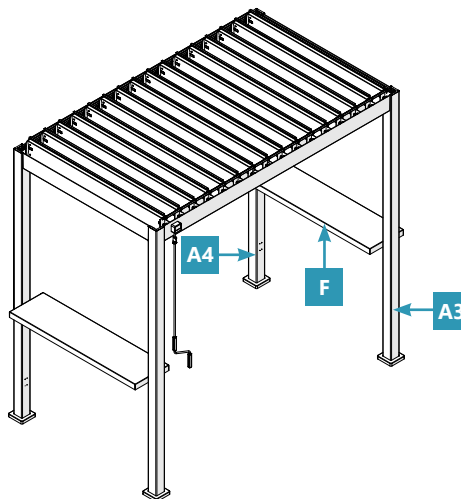
Assemble the bar table top **F** on the other side by repeating step **8A**.



F x 1



R x 8



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”.

8C

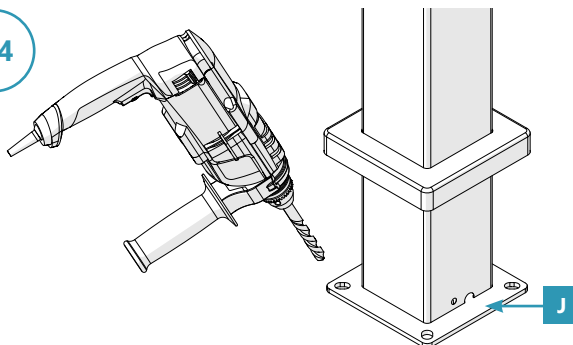
To fix the pillars with the four foot plates **J**, drill through each hole with a hammer drill.



Z x 1



x 4



8D

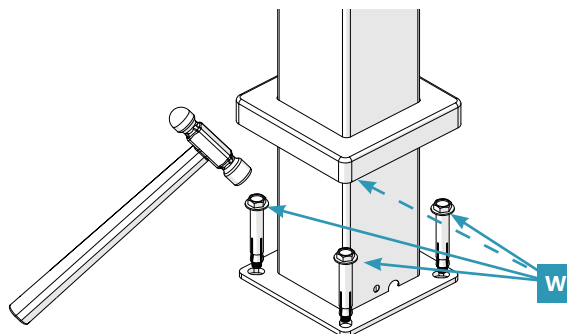
Remove all the debris and dirt. Then firmly insert an anchor bolt **W** into each hole, using a hammer.



W x 16



x 4



8E

Align the mounting holes on the pillars and bar table pedal **E** and connect them with screws **R** by using cordless screwdriver.



E x 1



R x 8

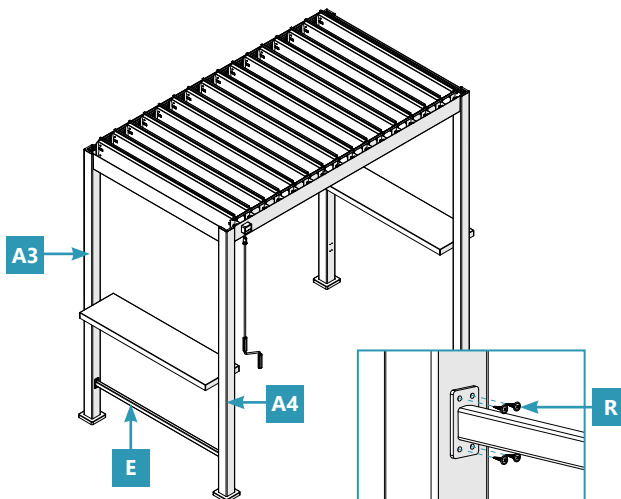


A3

E

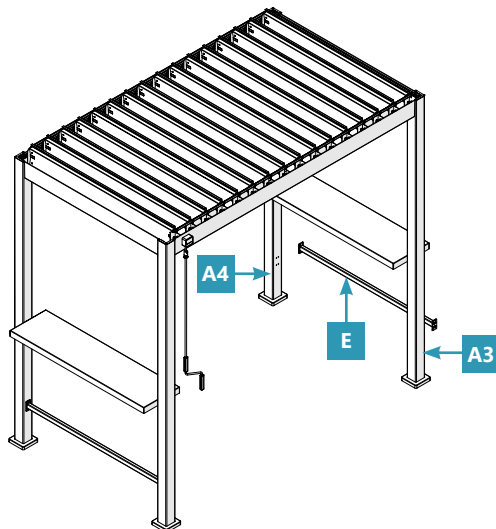
A4

R



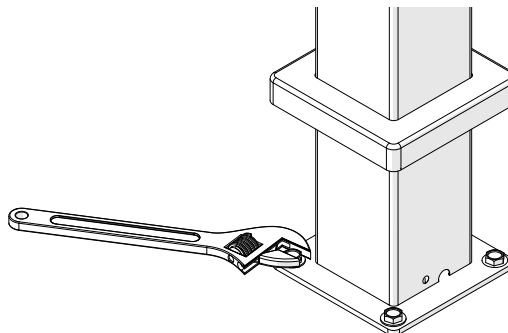
8F

Assemble the bar table pedal **E** on the other side by repeating step **8E**.

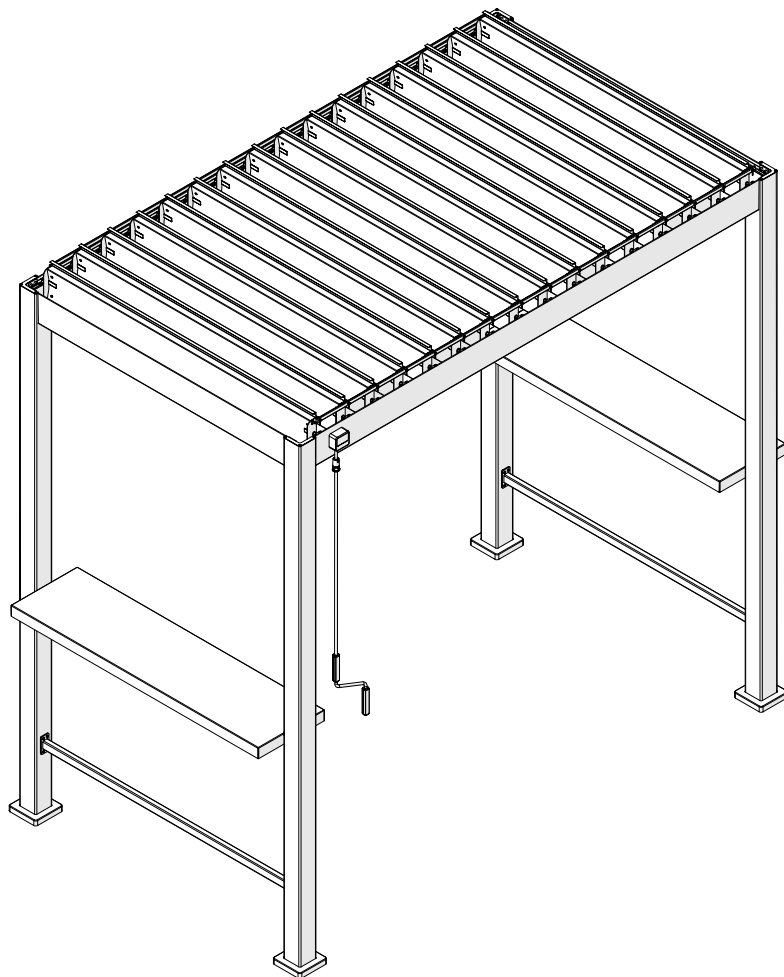
**E** x 1**R** x 8

8G

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

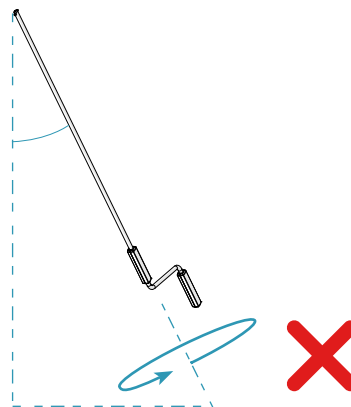
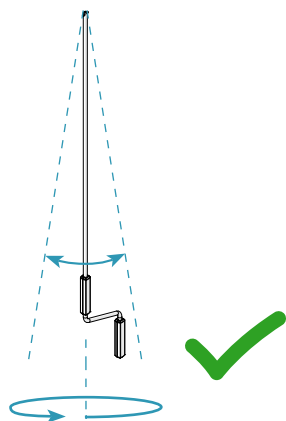


9. End of assembly

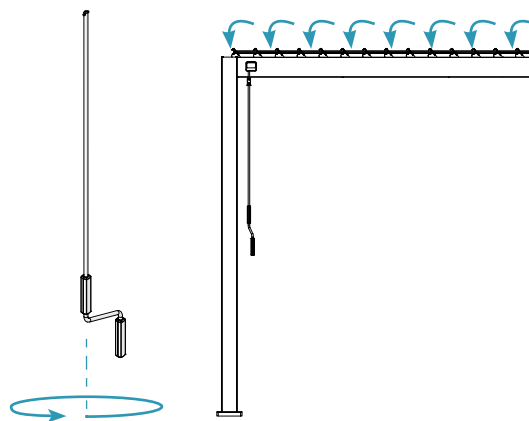
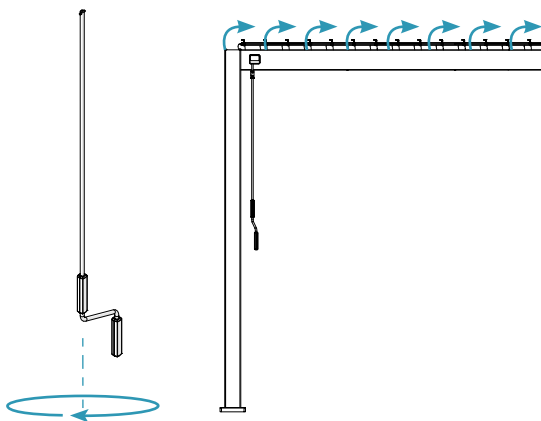


OPERATING YOUR PERGOLA

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.



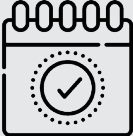
To open the louvers, turn the crank handle clockwise;
To close the louvers, turn the crank handle counter clockwise.



PROBLEM SOLVING, CARE & MAINTENANCE

Issue	Explanation or action to take
Abnormal noise occurs during the rotation of the 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 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 12).
The resistance to water pocket.	Class 1 (17 l/m ² per hour).
The mechanical endurance.	Class 1 (6000 times of opening and closing).

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.
			
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 the product if 3rd party was used and the date when the defect was discovered.
- At Sorara Outdoor Living USA Inc'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.

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