MIRADOR

INFINITE L-SHAPE

INSTRUCTION MANUAL



EN



THANK YOU FOR PURCHASING OUR MIRADOR INFINITE L-SHAPE 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 supervison 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: Improtant 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



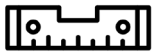
Protective gloves



Box cutter



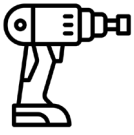
Tape measure



Leveler



Phillips screwdriver



Cordless screwdriver



Hexagonal spanner/ wrench set



Hammer drill



Hammer



2 step ladders

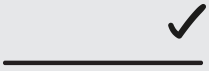
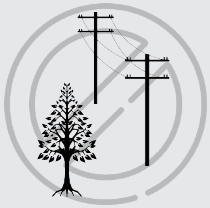


Scissors

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.

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.

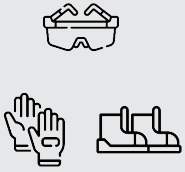
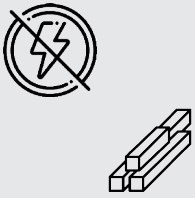
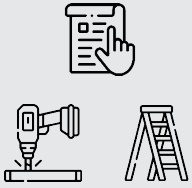
If the pergola is installed on an uneven surface, it may prevent accessory components from working correctly and may void the product warranty.

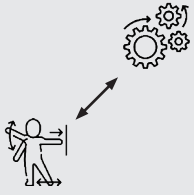
Prepare a foundation:
To prepare it, you need to:
- check for underground pipes and cables (Call 811 before you dig if you live in the USA)
- check with your local authorities regarding any building permits that may be required
- contact a reliable contractor to install a concrete base if you don't have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

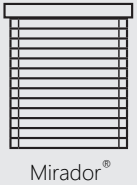
Do not assemble the pergola on sandy, muddy or loose soil, as the stakes do not have the suffcient anchorage to be installed in these types of soil.

IMPORTANT SAFETY ADVICE

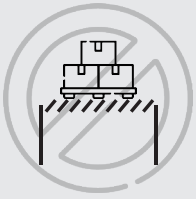
For the safety of all persons installing and using the pergola, it is important to follow the safety guidelines below.

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.	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 after consuming alcohol.
				

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.
				

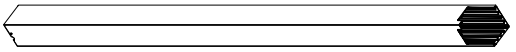
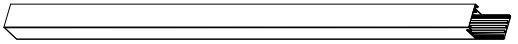
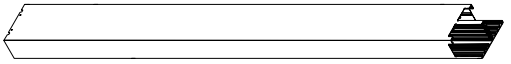
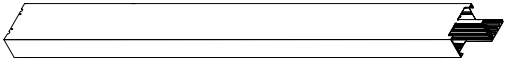
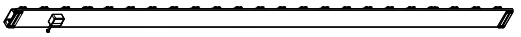
Do not touch moving parts during operation.	Do not place anything on the roof.	Hanging objects on the pergola may cause serious damage and is not permitted.	Changes to the design or configuration of equipment may not be made without consulting the manufacturer or authorized representative.	Do not start the roof mechanism in case of frost or ice build-up, as it may damage the drive of the louvers .
				

LIST OF PARTS

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

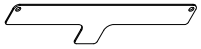
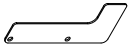
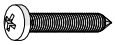
PLEASE NOTE that the anchor bolts provided may not be suitable for your chosen installation location. Please check before proceeding.

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
A		Corner Pillar	5 pcs
A1		Middle Pillar	1 pcs
AA1		Middle Pillar 1	1 pcs
AA2		Middle Pillar 2	1 pcs
B		Side beam with gearbox	2 pcs
B1		Side beam with built-in gearbox	1 pcs
B2		Side beam without gearbox	3 pcs
B4		Connecting pipe	2 pcs
C		End beam	4 pcs

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REF	Part Name	QTY
D	Louver	69 pcs
F	Beam cover	1 pcs
G	Connecting strip	3 pcs
H	Crank	3 pcs
I	Foot plate cover (corner)	6 pcs
I1	Foot plate cover (middle)	2 pcs
J	Foot plate (corner)	6 pcs
J1	Foot plate (middle)	2 pcs
K	Louver end cap	135+5 pcs
L	Louver end cap with control arm	3 pcs
M	Shaft support cover	138+2 pcs
N	Corner pillar cover	4 pcs
N'	Corner pillar cover (logo)	1 pcs
N1	Middle pillar cover	1 pcs

REF		PART NAME	QTY
N2		Pillar cover (T)	1 pcs
N3		Pillar cover (L)	1 pcs
O		Screw ST5.65x45mm	56+4 pcs
P		Screw M5x12mm	276+14 pcs
Q		Screw 4.2x25mm	276+14 pcs
R		Screw 5.5x19mm	21+4 pcs
S		Cotter pin	69+10 pcs
T		Screw 4.8x19mm	18 pcs
V		Crank coupler	3 pcs
W		Anchor bolt M8x80mm	32 pcs
X		Hex key (small)	1 pcs
Y		Hex key (large)	2 pcs
Z		12mm SDS Plus Drill Bit	1 pcs
Z10		Spare plastic pin	0+10 pcs

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ASSEMBLY

1. Set up the pillars

Assembly Video

1A

Slide the foot plate cover I with its wide opening facing outwards on the straight end of the pillar (A & A1).
Repeat the above step to slide I1 onto (AA1 & AA2).

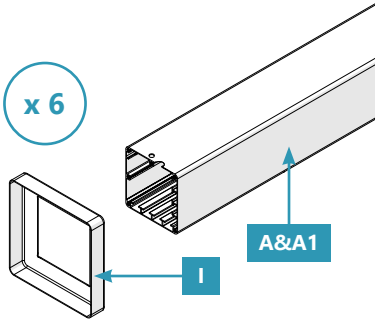
I x 6 I1 x 2

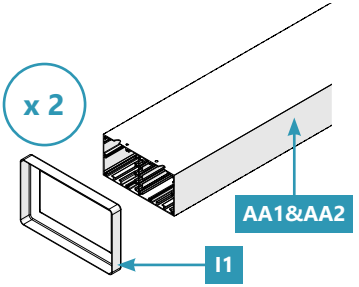
A x 5

A1 x 1

AA1 x 1

AA2 x 1





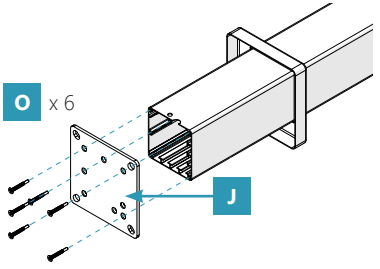
1B

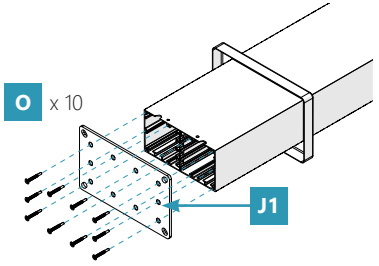
Push the foot plate J against the straight end of the pillar (A & A1). It only fits in one direction and in one position. If in doubt, rotate it until it fits easily. Screw in the foot plate J with 6 screws O using a cordless screwdriver.

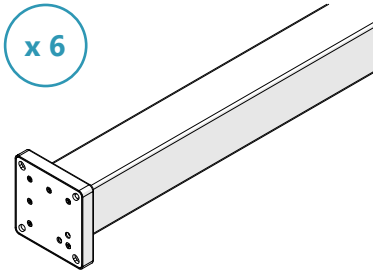
Repeat the above step to screw the foot plate J1 against pillar (AA1 & AA2) with 10 screws O each.

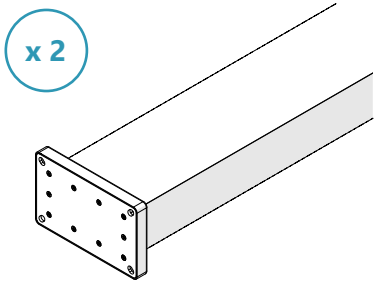
O x 56

J x 6 J1 x 2









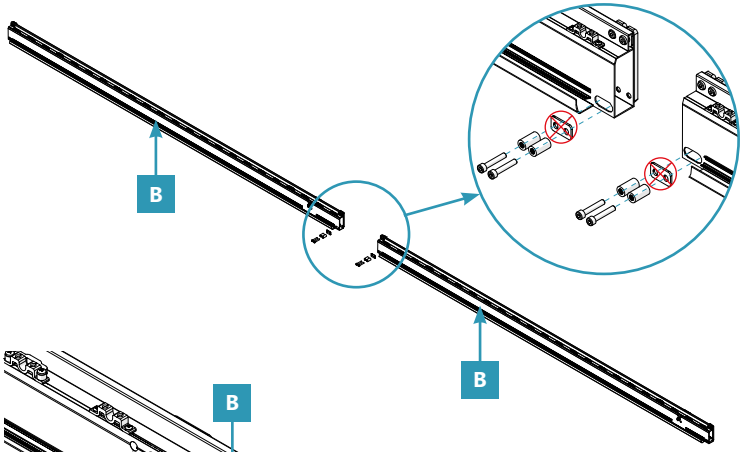
2. Connect the side beams with gearbox to the corner pillars

2A

Remove the spacer sleeve, socket screw, and washer. Discard the washer and retain the remaining parts.

Y x 1

B x 2

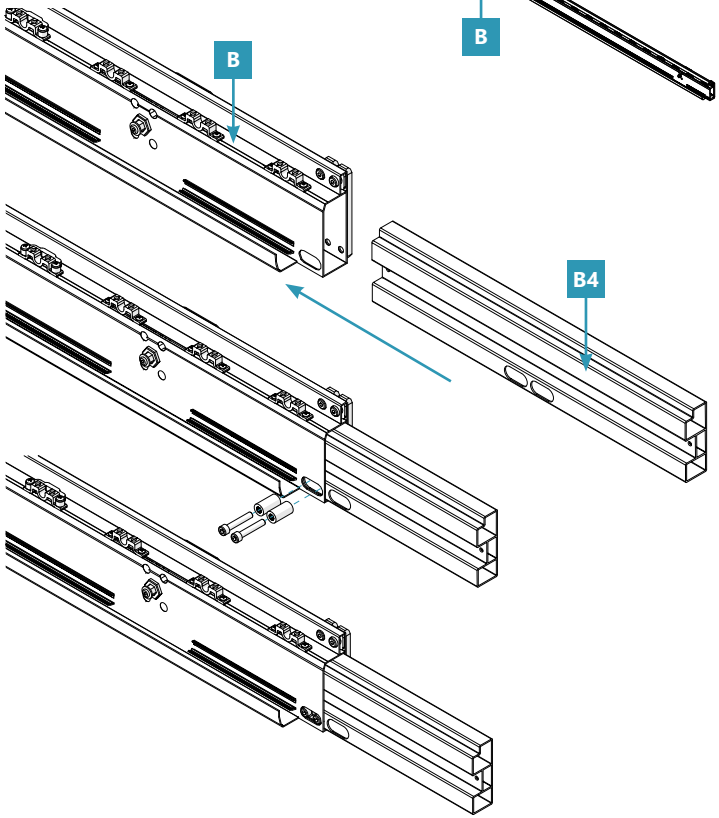


2B

Slot connecting pipe B4 into side beam with gearbox B , connect them by inserting spacer sleeves and screwing in socket screws, but do not fully tighten.

B4 x 1

Y x 1



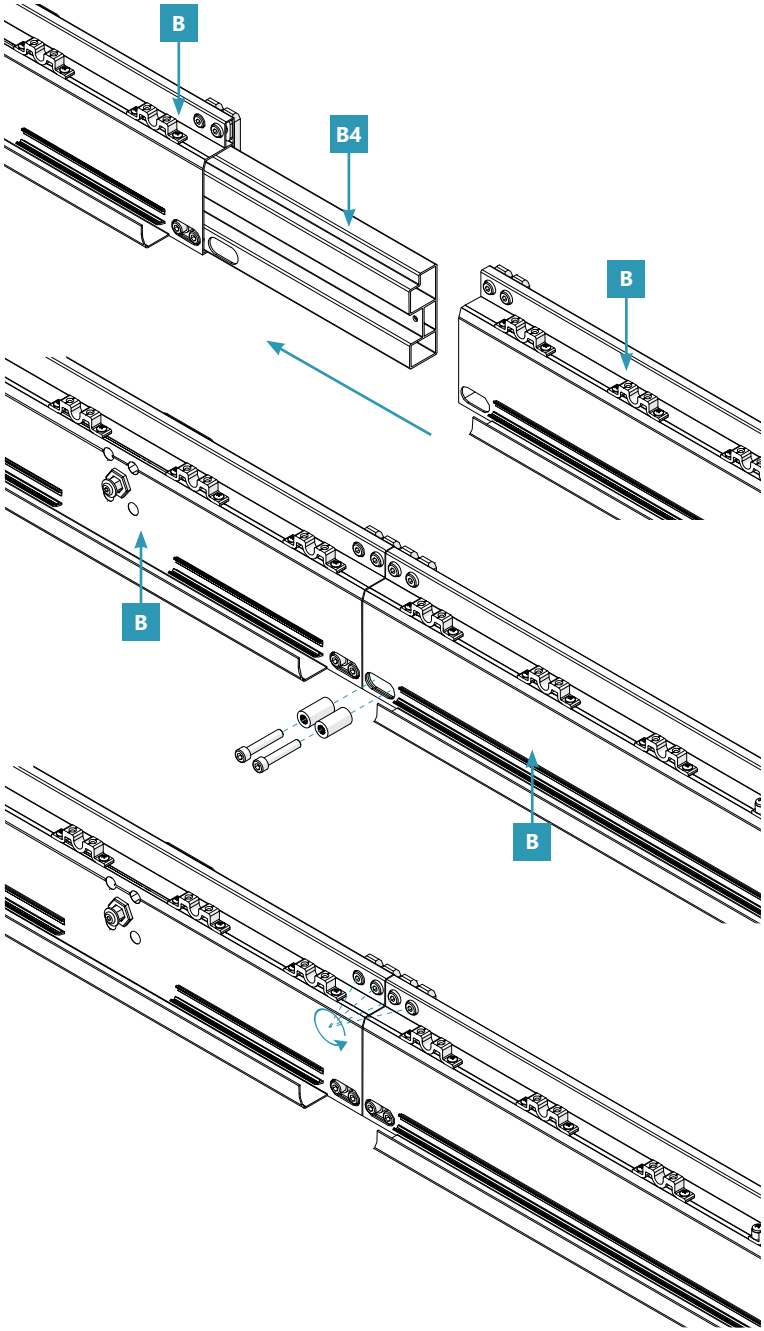
2C

Slide the end of side beam **B** into the other one until the end piece is no longer visible.

2D

Connect the 2 side beams by inserting spacer sleeves and screwing in socket screws, but do not fully tighten.

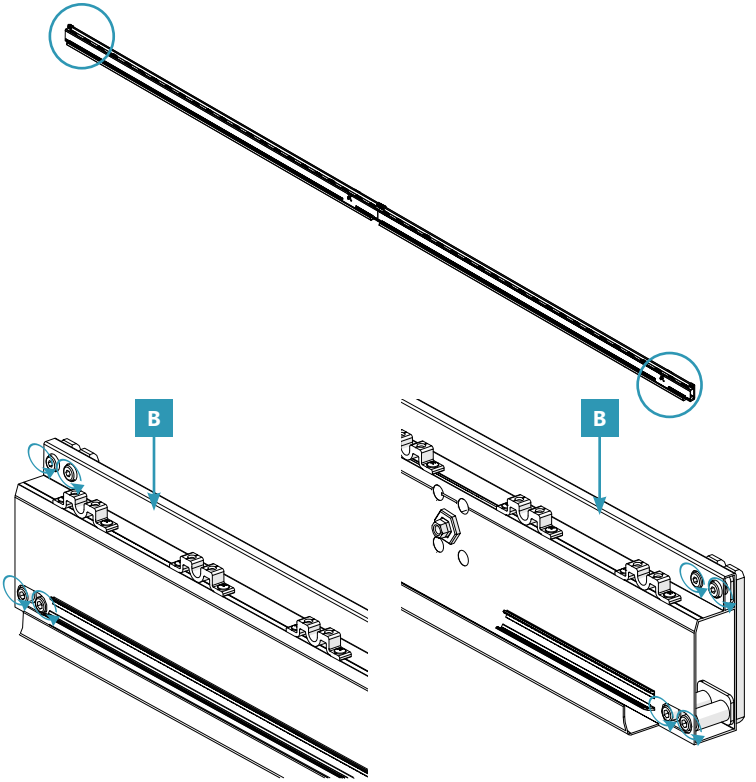
Then loosen the top 4 built-in screws counter clockwise where the side beams meet in the middle.



Y x 1

2E

Slightly loosen the 8 built-in screws counter clockwise at the corner ends of the side beams **B** (4 on each side).

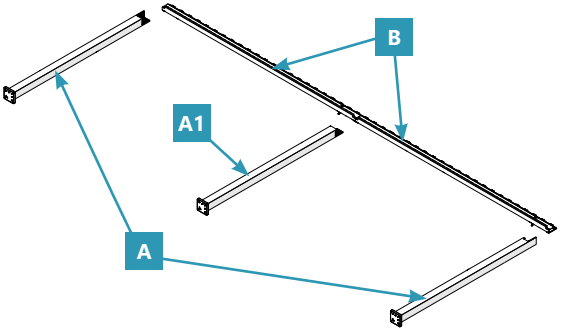


Y x 1



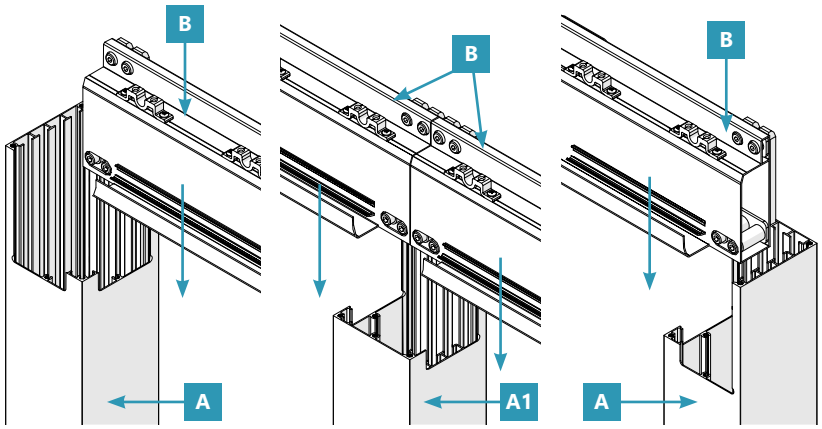
2F

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



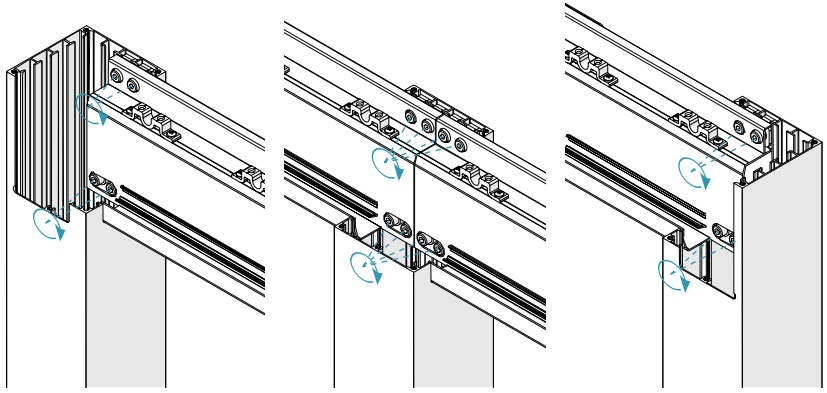
2G

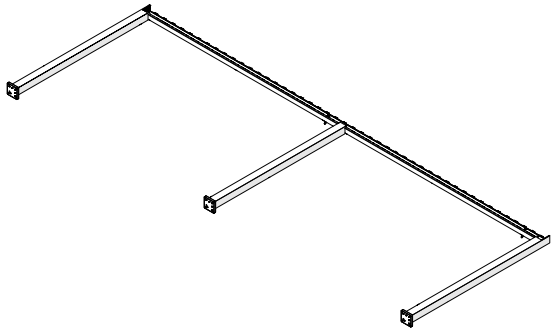
Slide the side beams into the grooves of the pillars (A & A1) in such a way that the slot nuts of the side beams B interlock with the slots in the pillars.



2H

Tighten all 16 screws clockwise.





Y x 1

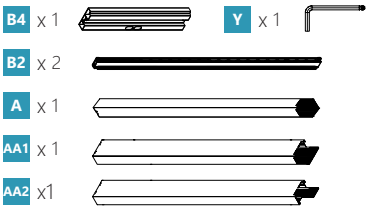


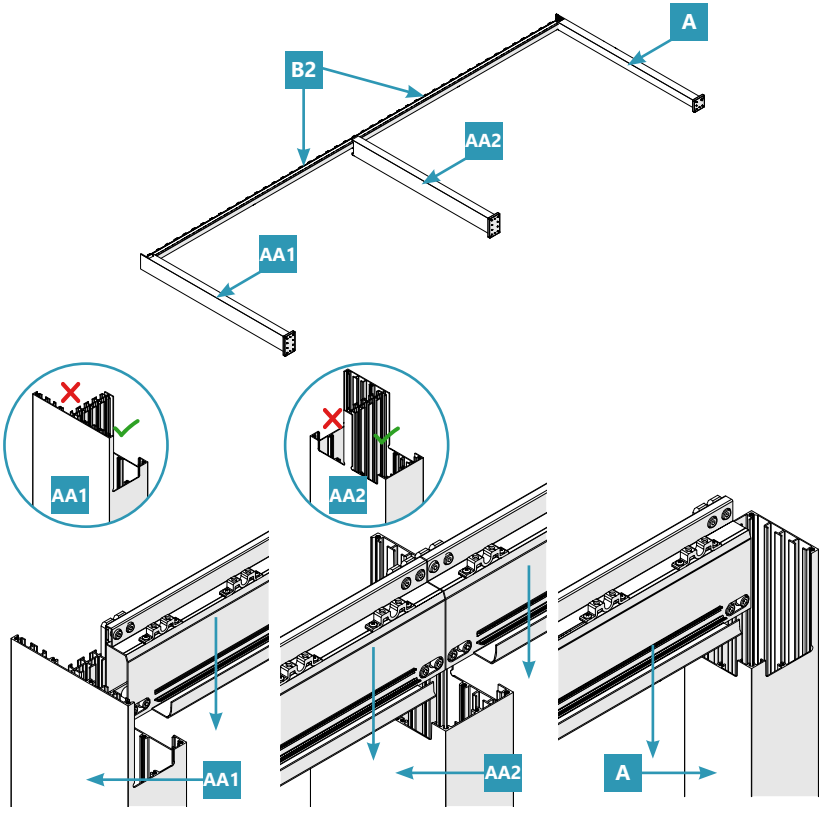
3. Connect the side beams without gearbox to the remaining pillars

3A

Repeat steps 2A - 2H to connect the beams without gearbox B2 with the remaining pillars (A & AA1 & AA2).

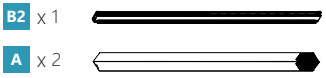
Warning:
Make sure the beams B2 with shaft support brackets are installed facing upwards and positioned on the right side of the middle pillars (AA1 & AA2).

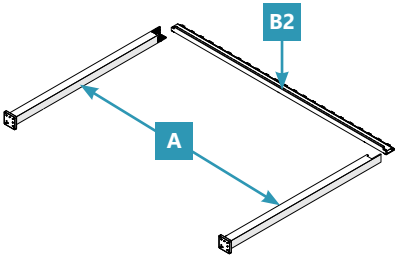




3B

Repeat steps 2A - 2H to connect the beams without gearbox B2 with pillars A .





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4. Assemble end beams

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

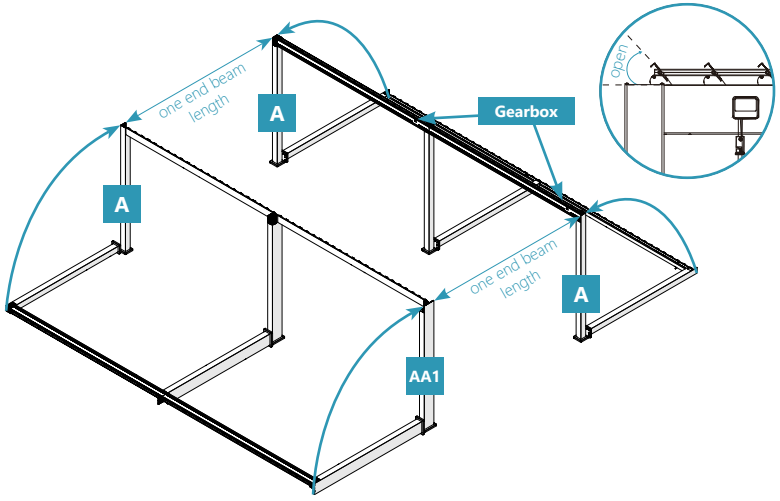


Only use ladders suitable for this kind of assembly work.

4A

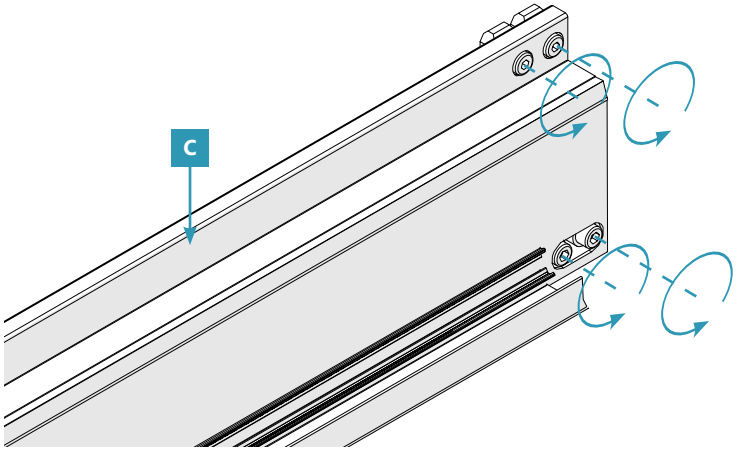
Stand the two structures built during steps 2 and 3 in an upright position, and place them at one end beam length away from one another. Make sure that one person is supporting each leg (A & A1 & AA1 & AA2) to prevent the structures from falling.

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 counter clockwise at both ends of the end beam C .



Y x 1

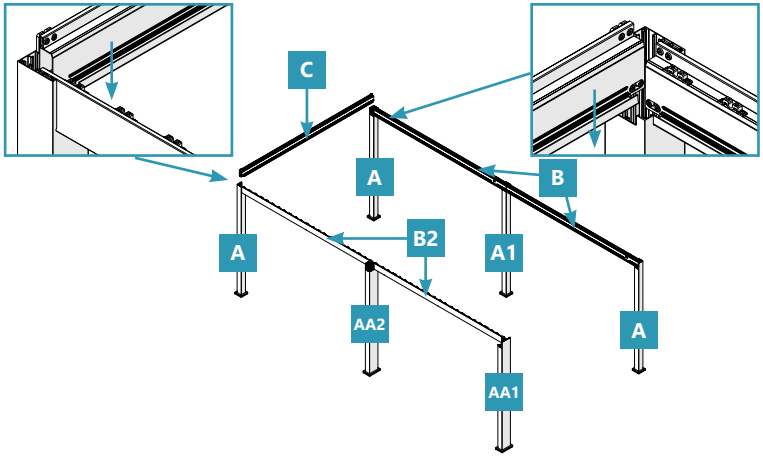


C x 1



4C

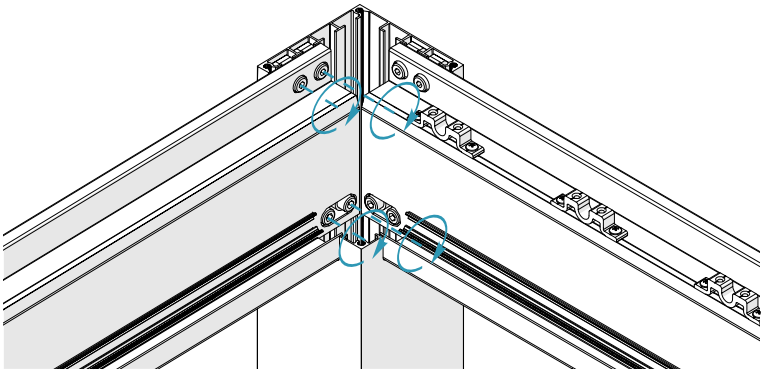
Slide the slot nuts of the end beams C from above into the slots of the corner pillars A .



4D

Once the beam is in the correct position, tighten the 8 built-in screws clockwise on both ends.

Y x 1

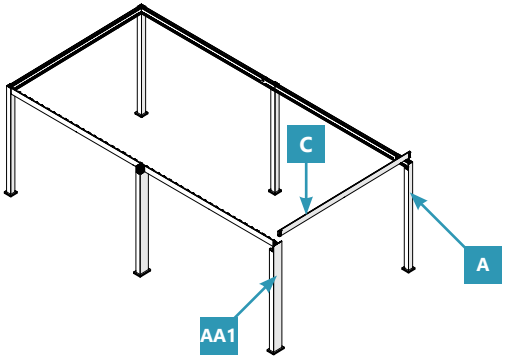


4E

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

Y x 1

C x 1



4F

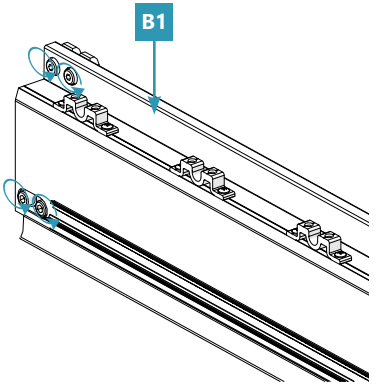
Slightly loosen the 8 built-in screws counter clockwise at the corner ends of the side beam with built-in gearbox B1 (4 on each side).

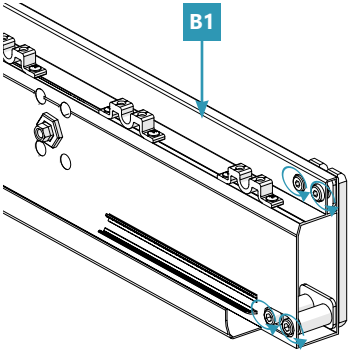
Y x 1



B1 x 1

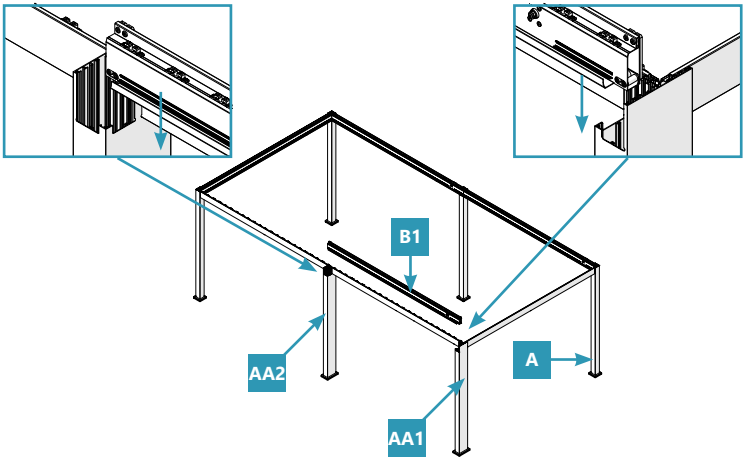






4G

Slide the side beams into the grooves of the middle pillars (AA1 & AA2) in such a way that the slot nuts of the side beams B1 interlock with the slots in the pillars.

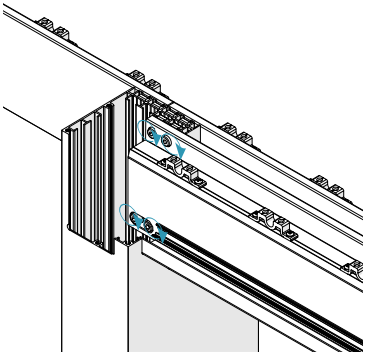


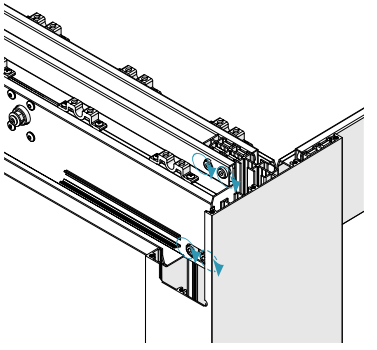
4H

Tighten all 8 screws clockwise.

Y x 1

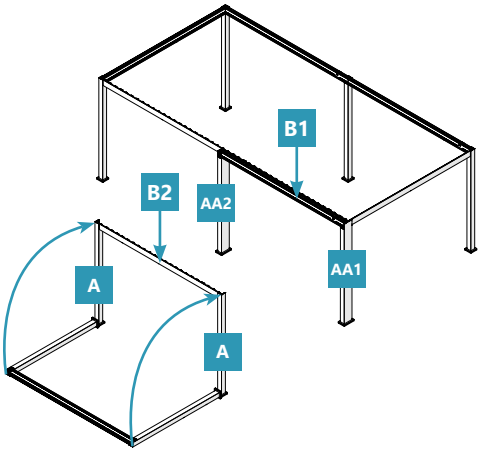






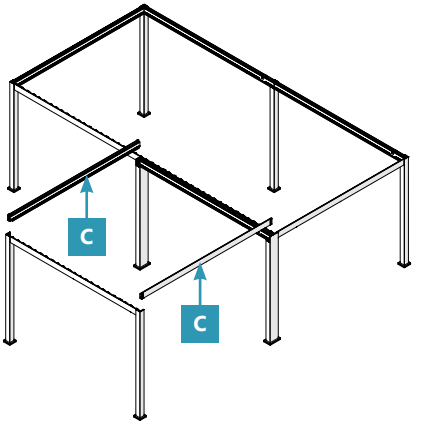
4I

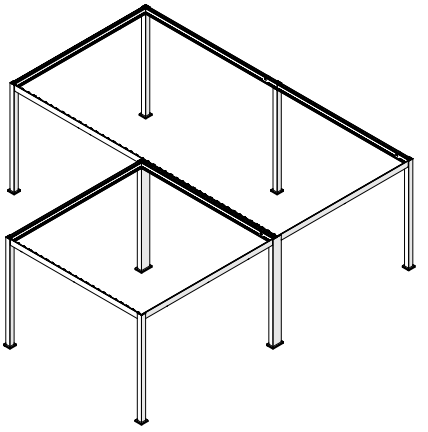
Stand the structures built during step 3C in an upright position at B1 side and place them one end beam length away from one another. Make sure that one person is supporting each corner leg A1 to prevent the structures from falling.



4J

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





Y x 1



C x 2



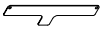
5. Secure the pillar covers & beam cover

5A

Fix the pillar covers (N3 & N2) to the ends of side beam B1 with 2 screws R each by using a cordless screwdriver.



R x 4 

N2 x 1  N3 x 1 

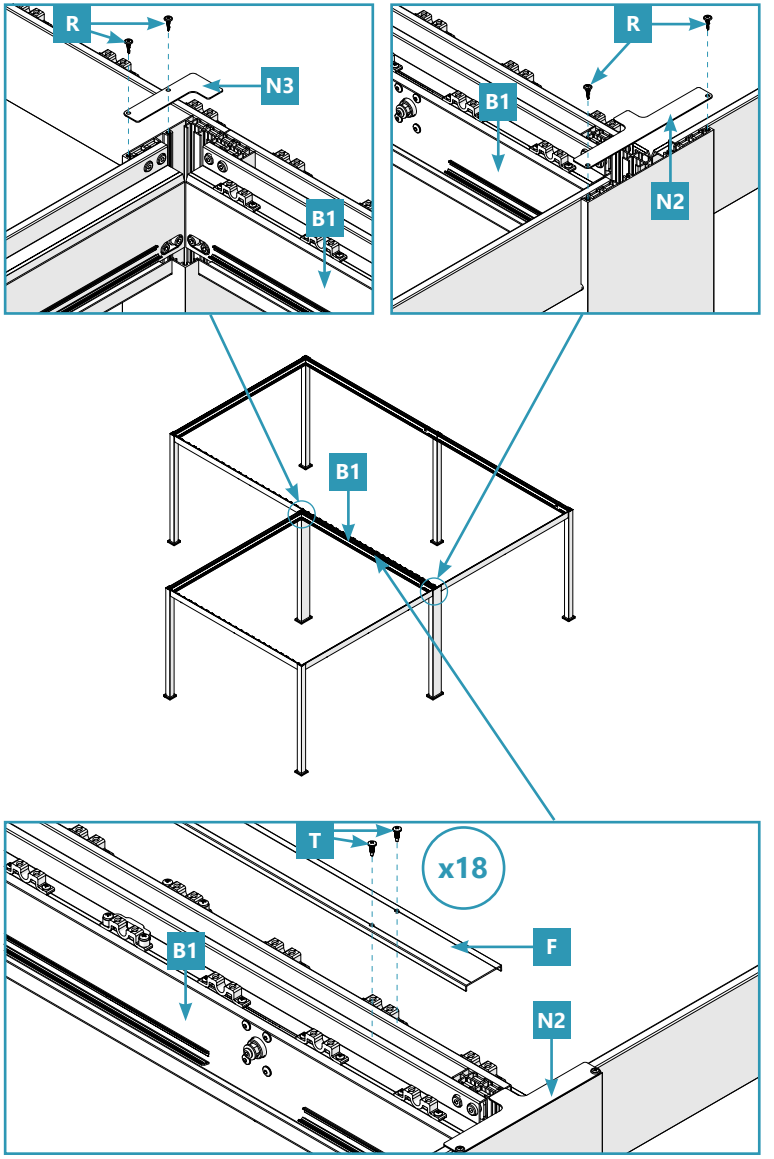
5B

Fix the beam cover F onto the side beams (B1 & B2) with 18 screws T and secure them using a cordless screwdriver.



T x 18 

F x 1



6. 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 beams and pillars have been installed and fitted correctly. You may have to unscrew certain bolts during this step.

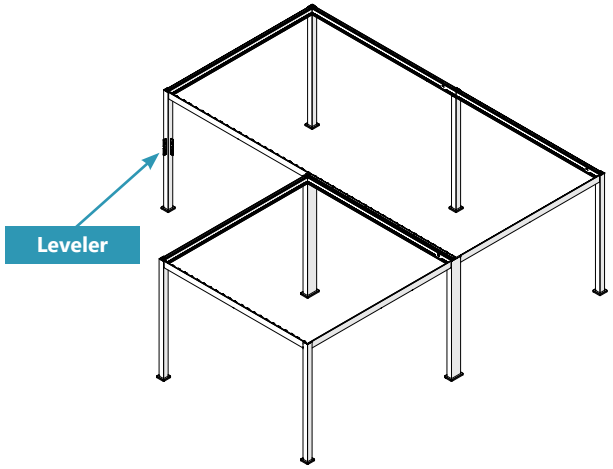
You will also need a tape measure and a leveler to complete this step.

6A

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.

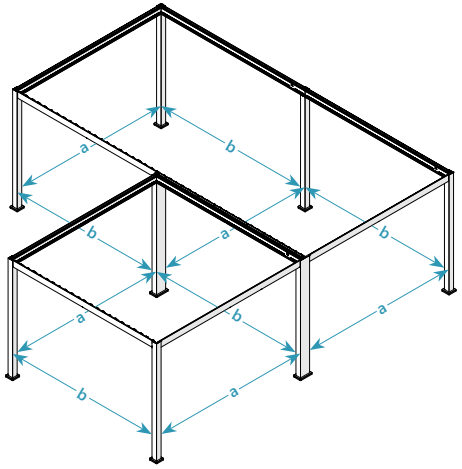
Make sure this corner pillar does not move position during the remaining assembly steps.



6B

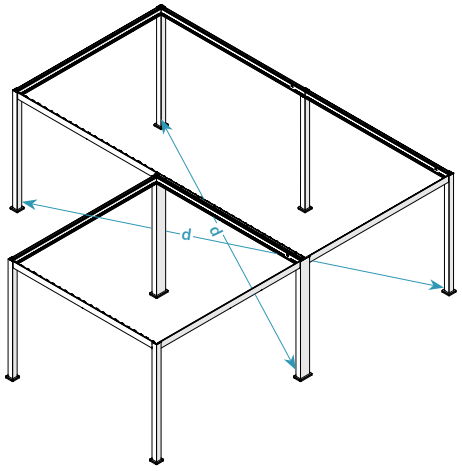
Measure the distances between the adjacent corner pillars. Adjust accordingly and ensure the distances match those shown in the opposite figure.

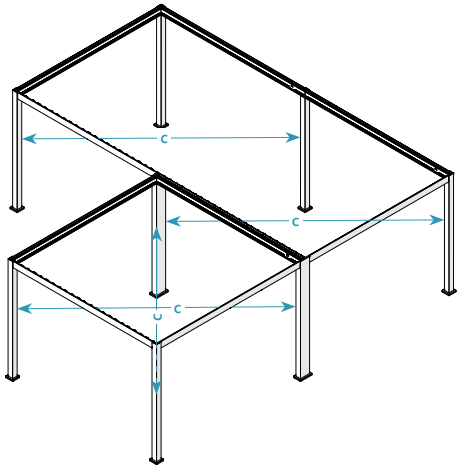
a = 340cm / 133.9 inches
b = 340cm / 133.9 inches



6C

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.



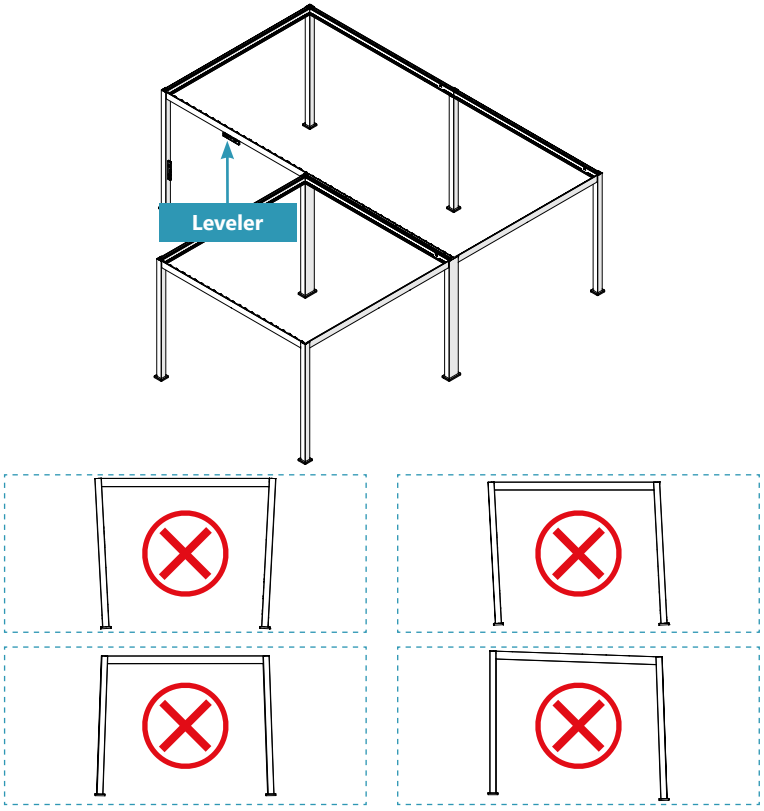


c = 480.8cm / 189.3 inches
d = 770cm / 303.1 inches

6D

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.)

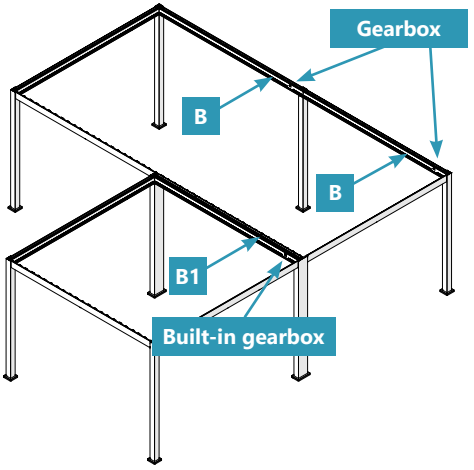
Warning:
If you do not adjust the main structure at this point, you may encounter problems when fitting the roof deck and/or accessories to the frame.



7. Assemble cranks

7A

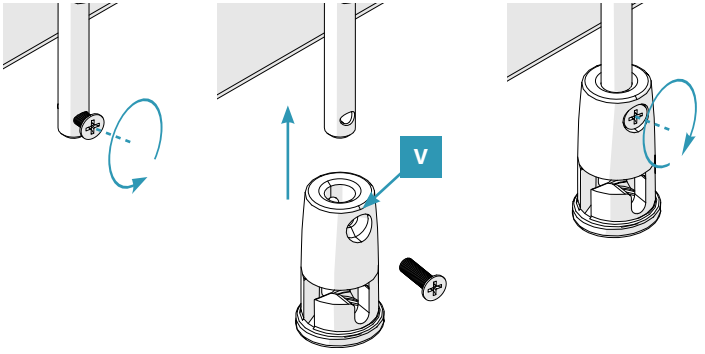
Locate the gearboxes on the side beams (B & B1).



7B

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.

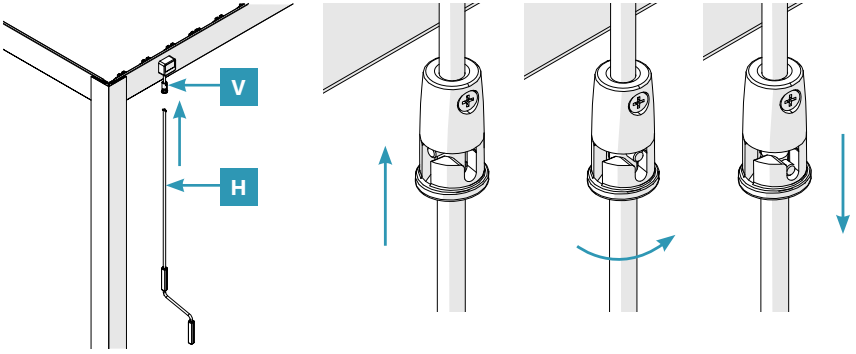


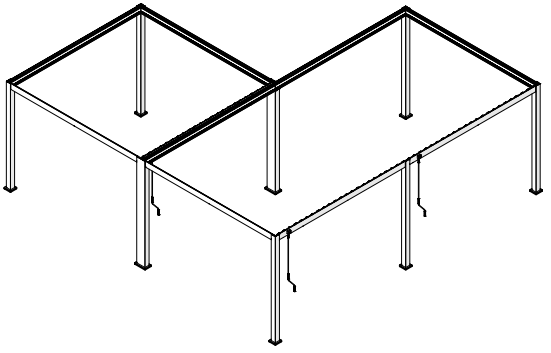


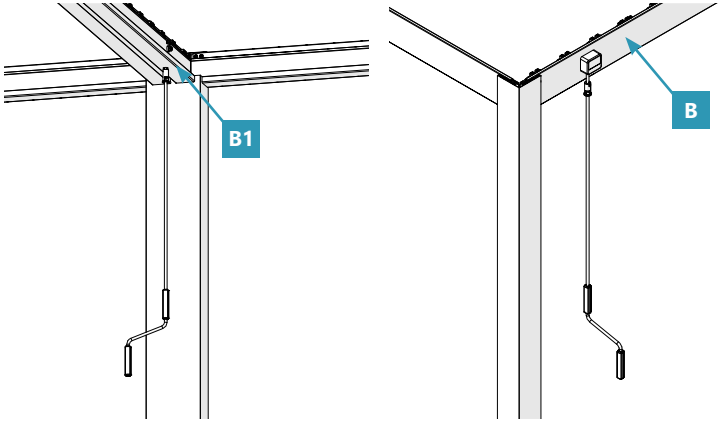
V x 3 

7C

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







H x 3



EN

8. Assemble louvers

8A

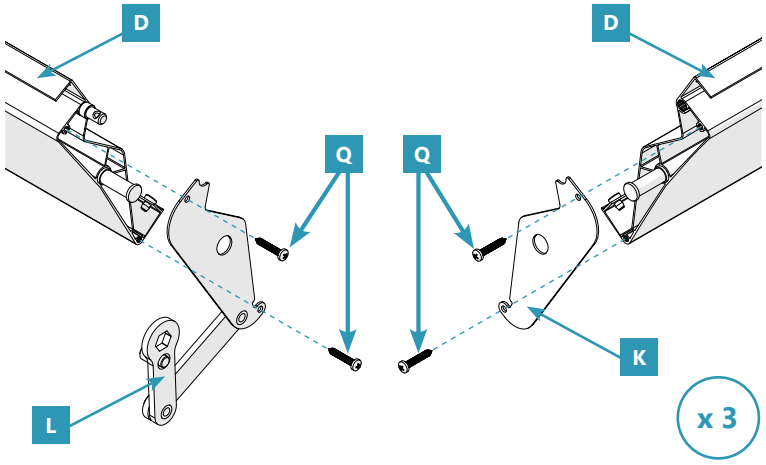
Prepare 2 driving louvers: select 2 louvers **D** to be the driving louver.

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

Q x 12

L x 3 **K** x 3

D x 3



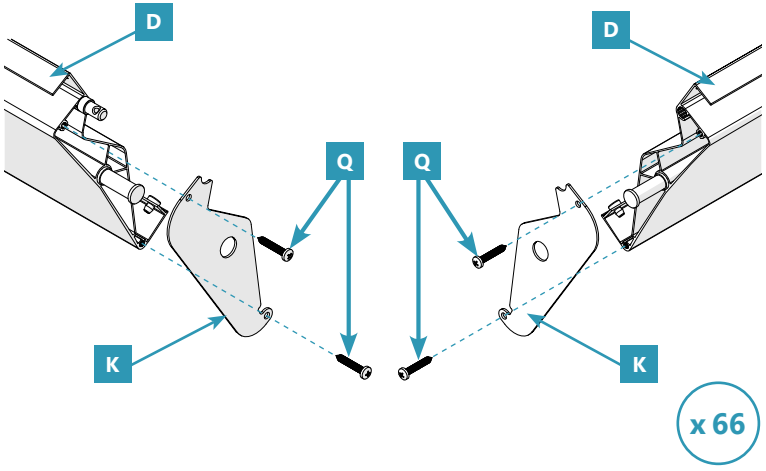
8B

Prepare the regular louvers: attach the louver end caps **K** to each end of the rest of the louvers **D** with 2 screws **Q** using a cordless screwdriver.

Repeat this step for all louvers.

Q x 264 **K** x 132

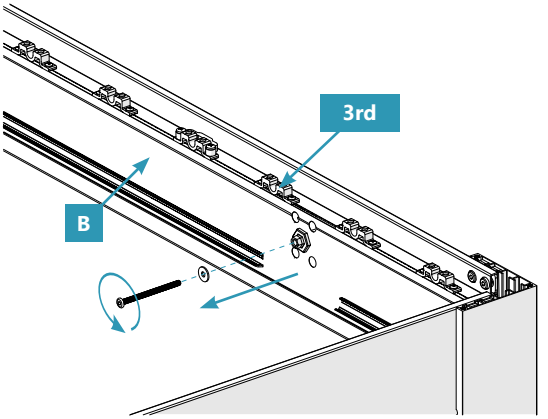
D x 66

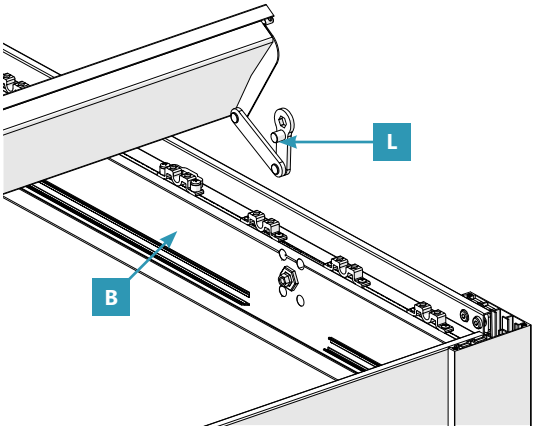


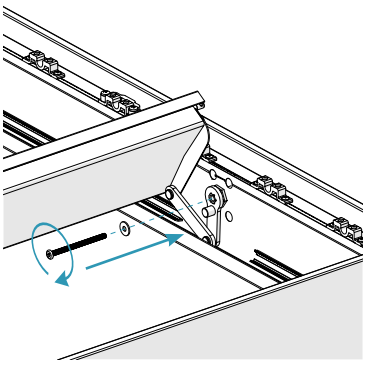
8C

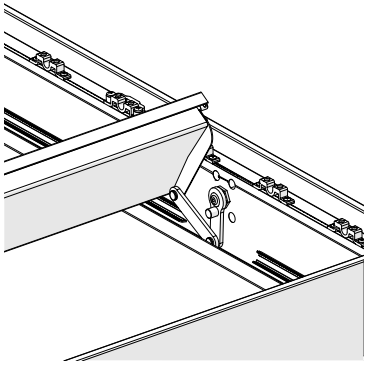
Loosen the screw and washer already attached to the beam. Then fix the connecting rod **L** of the driving louver to the side beam with gearbox **B** , by firmly tightening the same screw and washer, using the hexagon socket key **X** .

Place the louvers **D** on the corresponding louver shaft support on both side beams (**B** & **B2**), with each louver overlapping the next, and **make sure that the driving louver is placed 3rd from the right**.









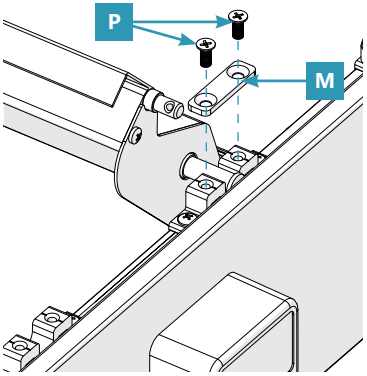
X x 1

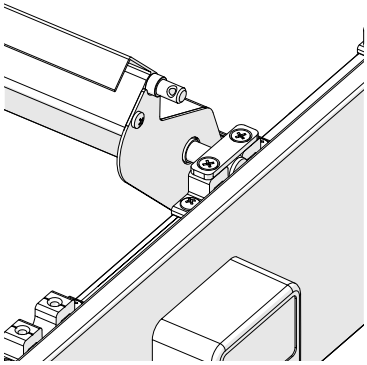
8D

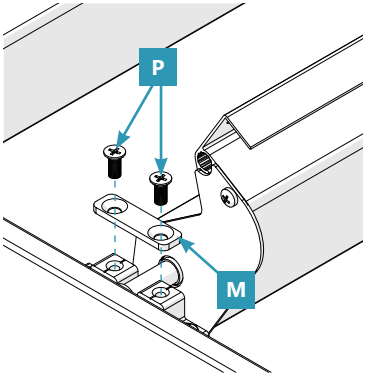
Secure the louvers **D** in the shaft support brackets by fixing a shaft support cover **M** onto the shaft support brackets on both ends of each louver **D** . Use 2 screws **P** each and secure them with a cordless screwdriver.

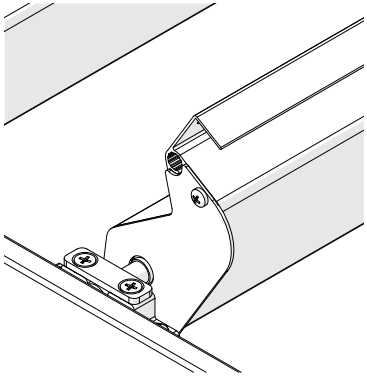


M x 2  **P** x 4 









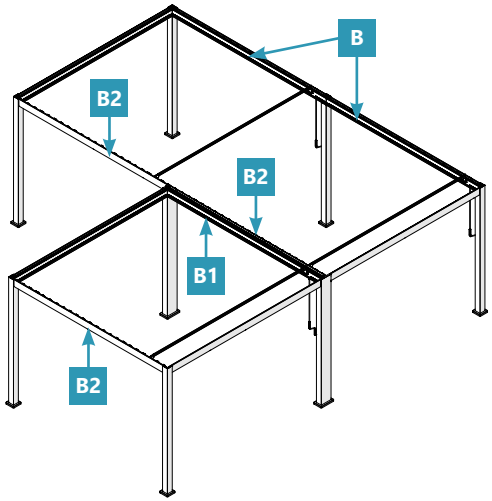
8E

Repeat steps **8C** - **8D** for all driving louvers.



X x 1 

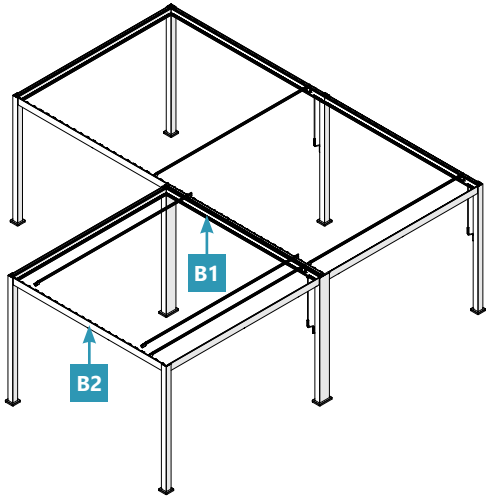
M x 4  **P** x 8 

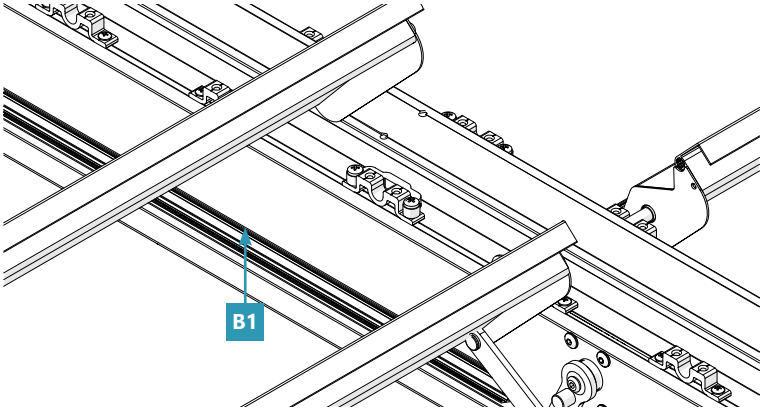


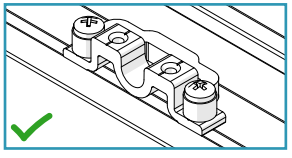
8F

Install the supporting louvers between side beams (B1 & B2).

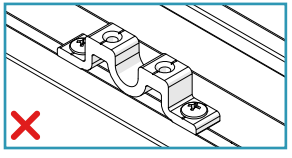
Using a cordless screwdriver, secure the 2 louvers D to the beams by attaching a shaft support cover M onto the shaft support brackets with cover plate on both sides of each louver. Ensure to use 2 screws P for each cover plate.



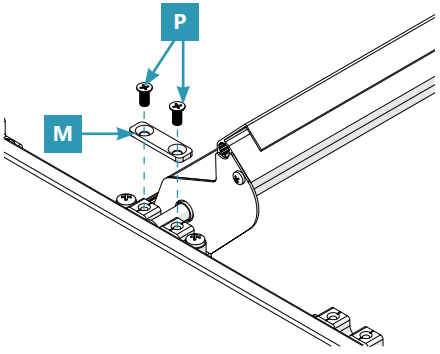




Shaft support bracket with cover plate



Shaft support bracket





M x 4



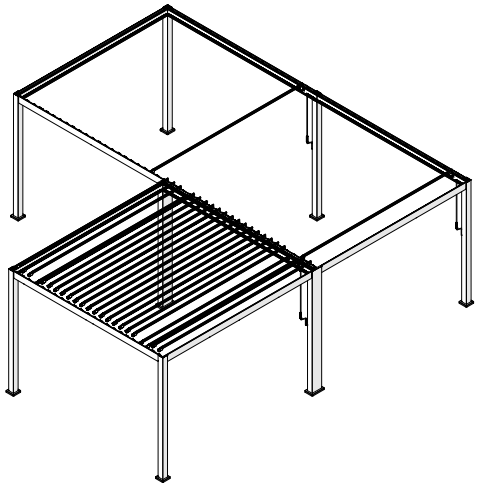
P x 8

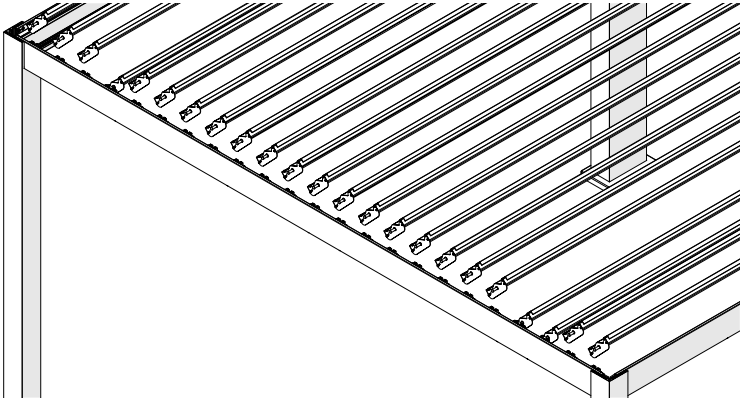


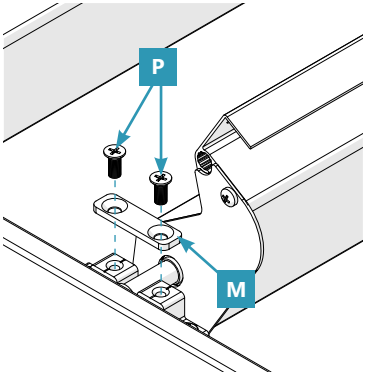
8G

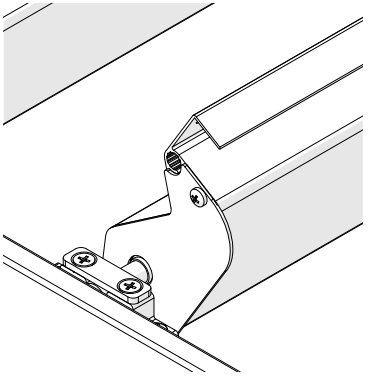
Install the rest of the louvers onto the remaining shaft support brackets of side beams (B1 & B2) by fixing a shaft support cover M with 2 screws P each.

Make sure each louver is secured properly before installing the next one.









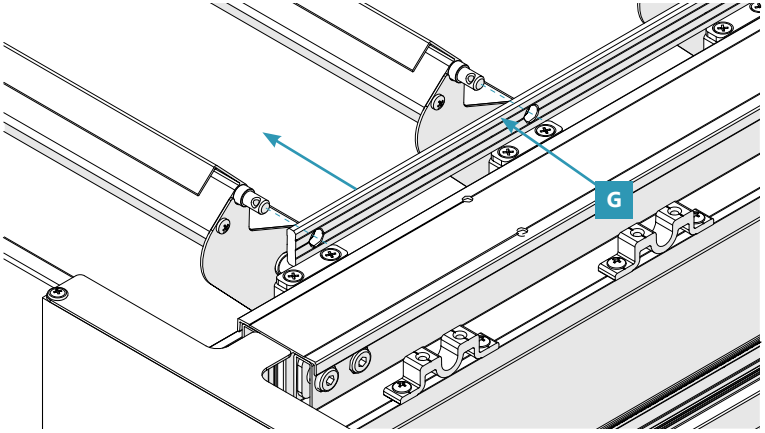
M x 40

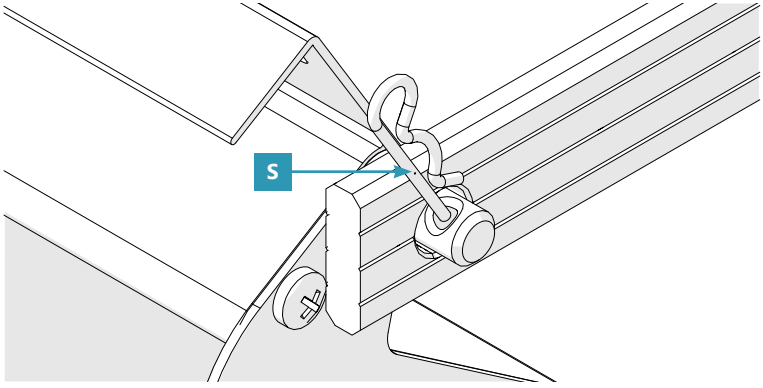
P x 80

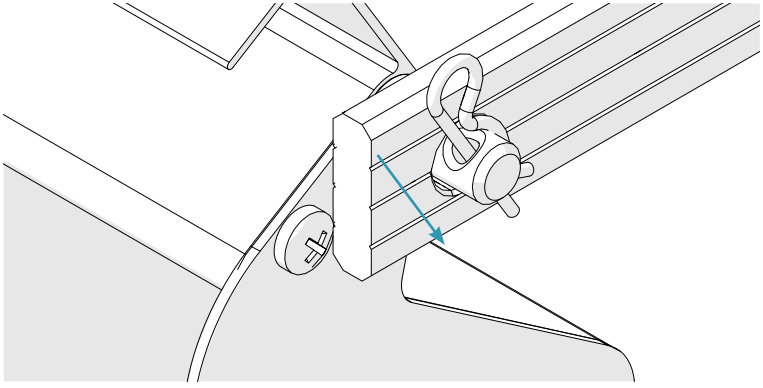
8H

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.





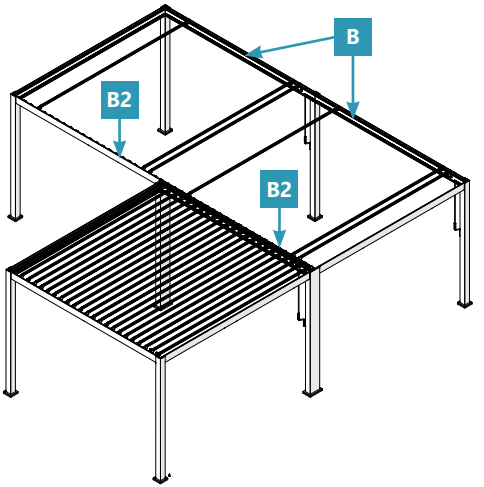


S x 23

G x 1

8I

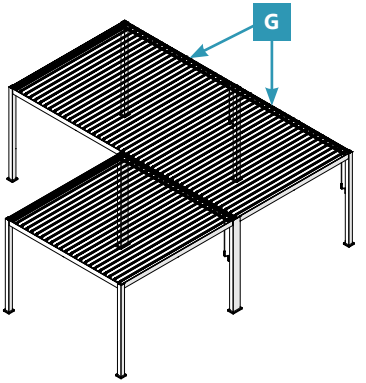
Repeat step 8F to install 4 supporting louvers D in the shaft support brackets with cover plates between side beams (B & B2) .



M x 8 P x 16

8J

Repeat steps 8G - 8H to install the rest of the louvers and the connecting strips G .



S x 46

M x 80 P x 160

G x 2

9. Secure pillar covers

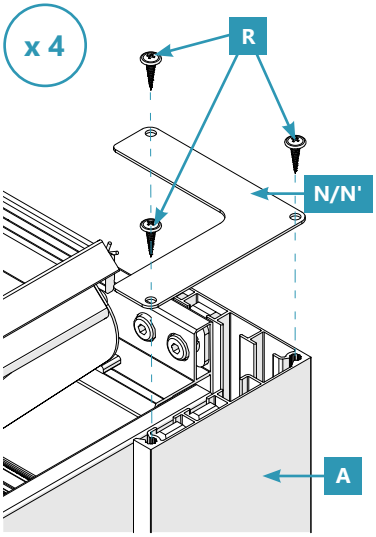
9A

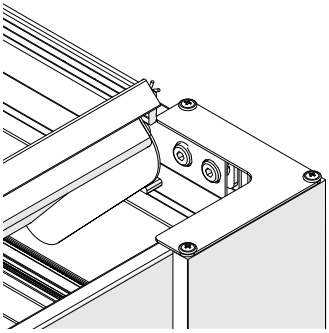
Fix the pillar cover N/N' to the top of each corner pillar A with three screws R each by using a cordless screwdriver.



R x 15 

N x 4  N' x 1 





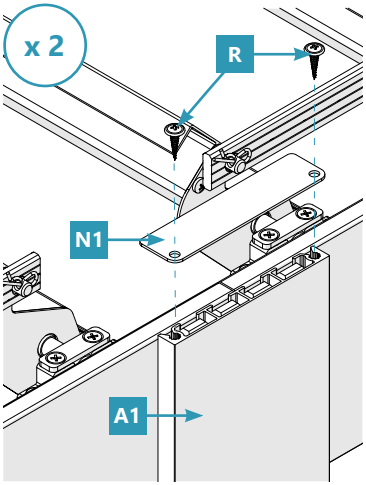
9B

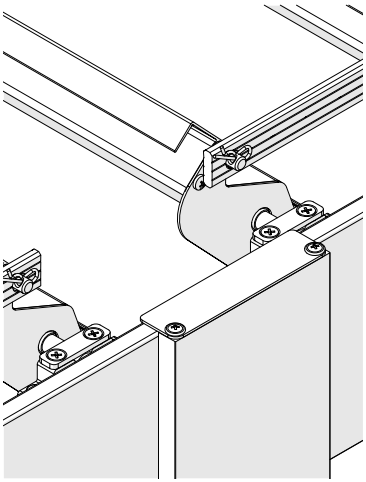
Fix the middle pillar cover N1 to the top of each middle pillar A1 with 2 screws R each by using a cordless screwdriver.



R x 2 

N1 x 1





EN

10. Secure the pillars to the ground

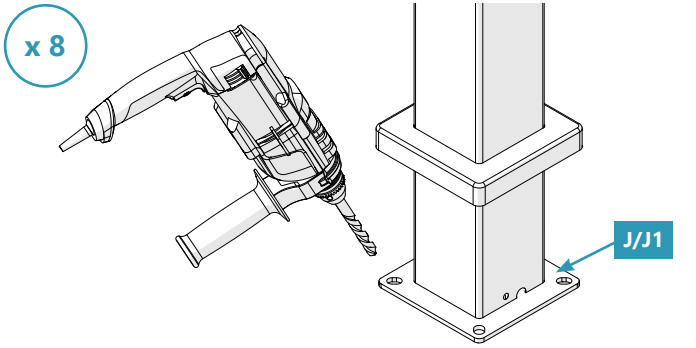
The pergola must be firmly and permanently secured to the ground. If the ground is not level or suitable, please refer to the section "Before assembling your pergola".

To ensure the correct installation of the subsequent fittings, check the frame alignment and pillar distance by repeating steps 6A - 6D .

10A

To fix the pillars with the 8 foot plates J/J1 , drill through each hole with a hammer drill.

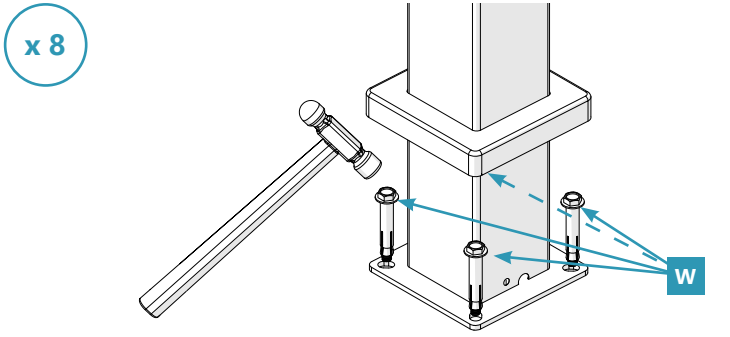
Z x 1



10B

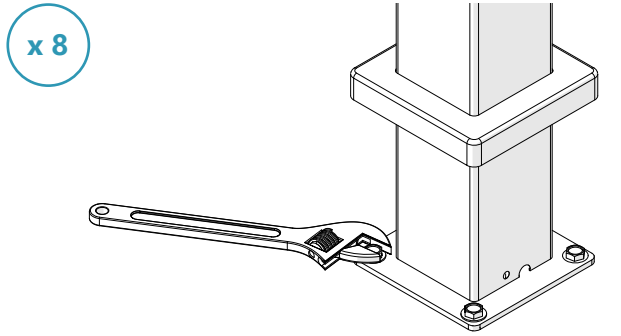
Remove all the debris and dirt. Then firmly insert an anchor bolt W into each hole, using a hammer.

W x 32

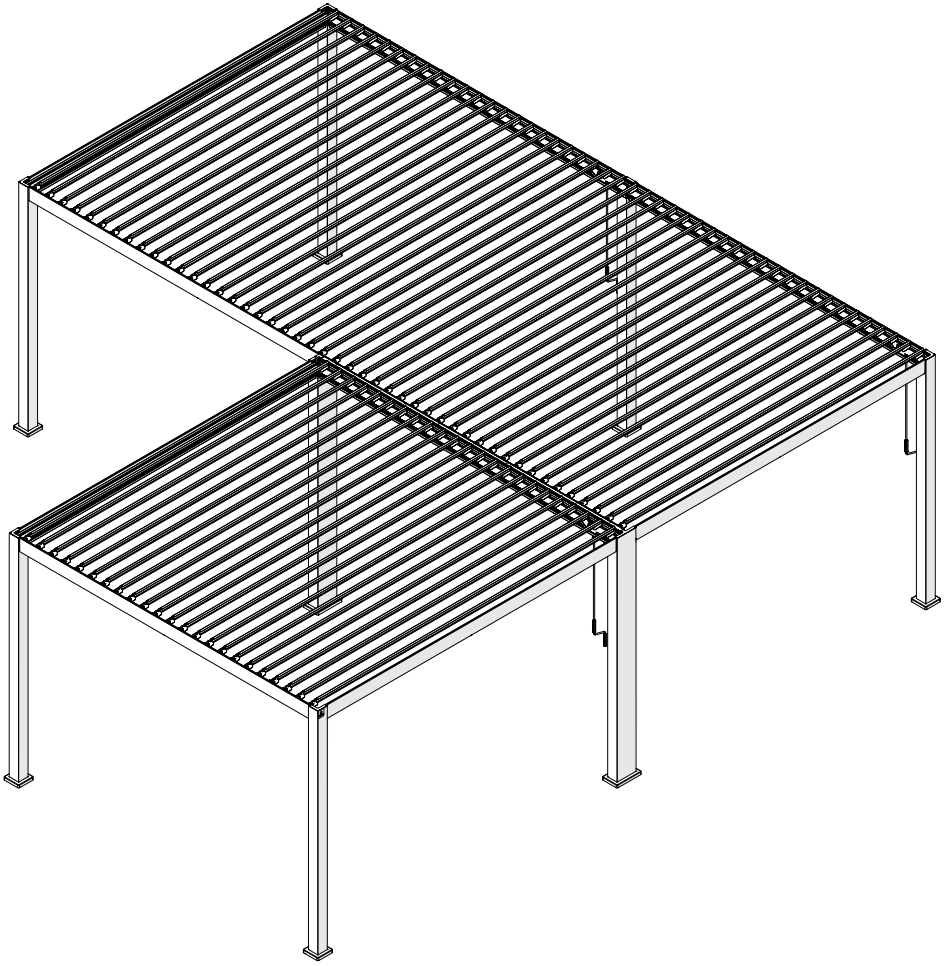


10C

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



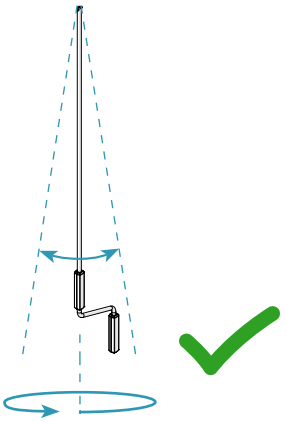
11. End of assembly

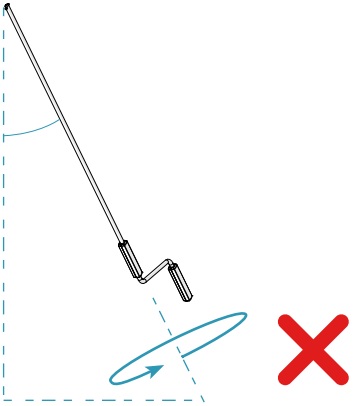


EN

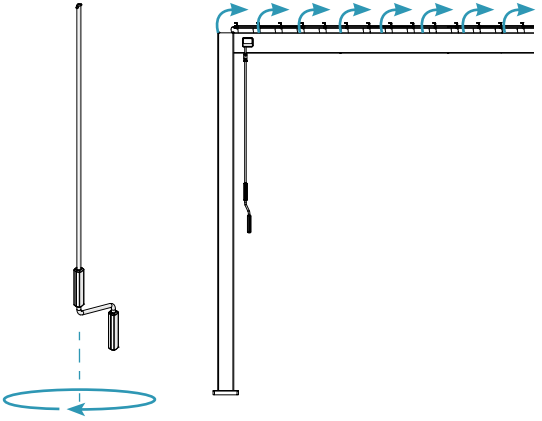
OPERATING YOUR PERGOLA

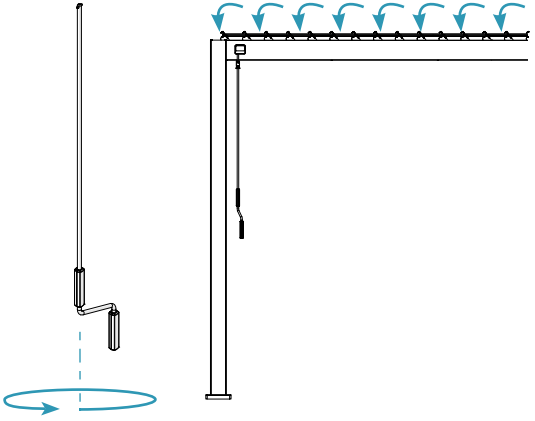
When opening/closing the louvers, please ensure the crank remains in a vertical position next to the pillar.
Do not move the crank too far away from the pillar.





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 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 or installed the product if a 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!

EN

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 state, city and county.

CERTIFICATION INFORMATION

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:
3.6x3.6, 7.2x7.2

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

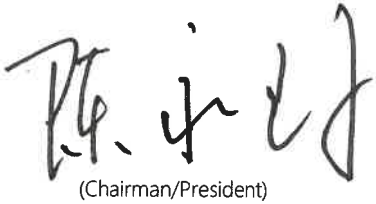
Manufacturer:
Zhejiang Zhengte Co., Ltd.
811 Dongfang Ave, Zhejiang, PRC

Documentation officer:
Ziad Zhao
Zhejiang Zhengte Co., Ltd.
No.811 Oriental Ave., Linhai, 317004, Zhejiang, China

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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