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WARNINGS

ATTENTION! PLEASE READ THIS USER'S MANUAL BEFORE USING AND INSTALLING THE PRODUCT. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

- The installation of a pergola must be done with care because of its requirements and necessitates a certain level of skill to:
 - Measurement and levelling of the supports and the structure.
 - Drilling in the ground and installation of chemical sealant or adapted fasteners.
 - Work at height and handling of heavy loads.
 - Electrical connection in the case of an electrically operated pergola.

If you have any doubts about the correctness and safety of your installation, call a professional.

- The pergola must be installed according to the building code in your area. A minimum of four people are required with personal protective equipment (PPE) and the proper materials. If you have any problems, please consult a qualified person on this product for assistance.
- Observe the safety instructions to prevent damage from improper use! Observe all warnings in the manual.
- This is a product that presents a risk of falling and serious injury. All assembly steps must be carefully followed. A faulty fastening or incorrect installation can lead to the pergola falling or breaking.
- It is important for the safety of everyone to follow these instructions.
- It is strictly forbidden to climb on the pergola's blade deck.
- It is strictly forbidden to climb on the structure of the pergola.
- It is the installer's responsibility to secure the pergola to the ground.
- The manufacturer assumes no responsibility for damage to the pergola or its contents caused by natural disasters or special events.
- In case of frost, the blades must be in the open position. In case of heavy snowfall, remove the snow from the pergola. Do not allow snow to accumulate on the pergola's blade deck under any circumstances.

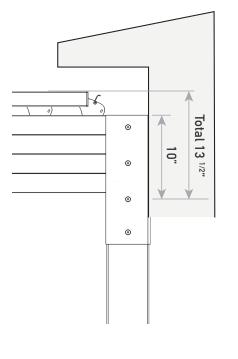
PREPARATION OF THE INSTALLATION SURFACE



Determine the installation location of the pergola by referring to the dimensions on your order form.

Determine the installation location of the front and back of your pergola.

Make sure that the installation location is free from interference and that the clearance height allows for the installation of the pergola and the opening of the blades.



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Width	

NO. OF LENGTH BLADES (overall) **85**^{1/4} 11 12 **92**^{1/8} 99 13 105 7/8 14 15 112 ^{3/4} 119^{5/8} 16 17 126 ^{5/8} 133^{1/2} 18 140^{3/8} 19 **147**^{1/4} 20 154 ^{1/8} 21 22 161 167^{7/8} 23 174 ^{3/4} 24 **181** 3/4 25 **188** 5/8 26 **195**^{1/2} 27 28 202 3/8 **209**^{1/4} 29 **216**^{1/8} 30 31 223 **229** ^{7/8} 32 33 **236** ^{3/4}

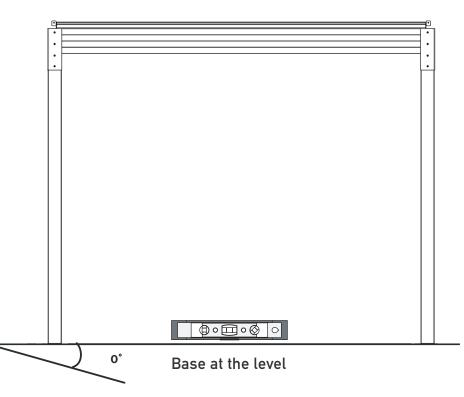
VERIFYING YOUR PERGOLA'S ANCHOR POINTS



The four posts of the pergola must be securely anchored to prevent the pergola from falling over. We recommend the following footings for the posts:

- On a concrete slab at least 5-5/8" thick covering the entire space covered by the pergola;
- On four reinforced concrete bases (one for each post) with a minimum dimension of 26" x 26" x 26" (1100 lbs);
- On sonotubes (one for each post) of 16" diameter x 48" deep.

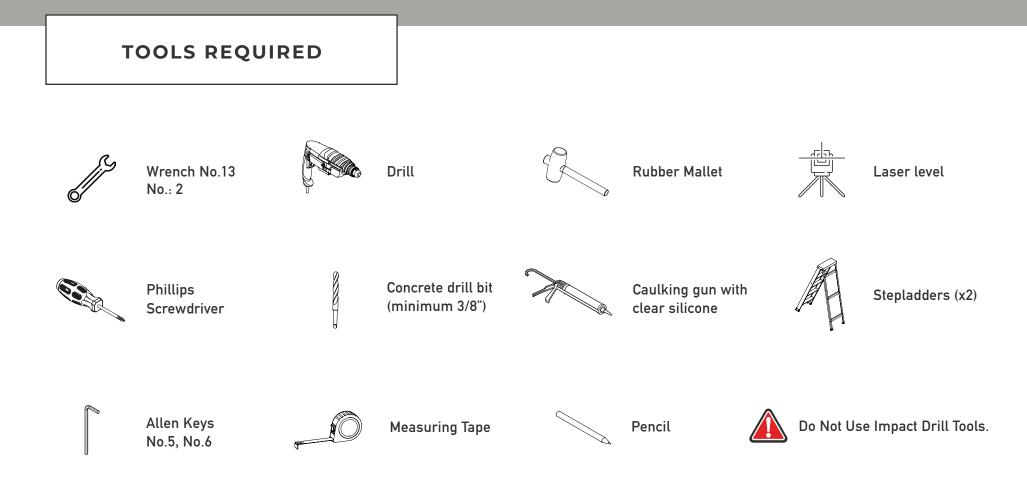
These are recommendations only, please check with frost levels, wind speed in your area as well as your pergola's height.



Anchor bolts recommended at least three per foot plate of 3/8 diameter x 4.5" long with a pull-out resistance of 1100 lbs each.

If the basis are not made, make sure using a laser level that the anchor points of the posts will all be level with each other, thus all at level zero.

If the preparation is already done and the anchor points are not all at level zero, shim the anchor points so that they are all at level zero and all level with each other.



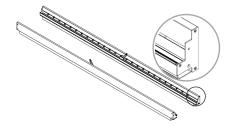
ACCESSORIES REQUIRED FOR PISTON WIRING

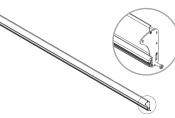
1X cable extension 14/2 NMWU - 15 amps.
1X 2 way IP68 waterproof connector
See P.24 or contact us for length and details
For additional wiring (screen, heathers, etc.),
contact us for more information.

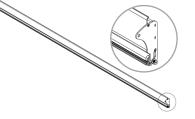
IN THE BOX

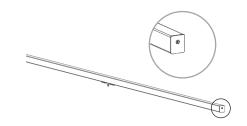


BEFORE BEGINNING THE INSTALLATION, check the content of the packages received. If any element is missing, contact our technical department as soon as possible (do not assemble the structure if any element is defective).







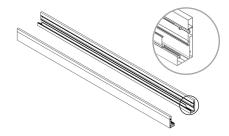


BLADE SUPPORT RAFTER QTY: 1 right + 1 left

BLADES QTY: Varies according to length

PISTON BLADE QTY: 2

MANEUVERING PROFILE QTY: 1 right profile + 1 left profile on the piston side

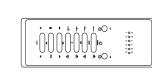


FRONT AND BACK PROFILES QTY: 2

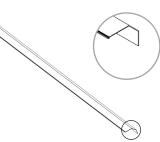


ADJUSTMENT SHIMS QTY: 8 total (4X 1/4" thick, 4X 3/8" thick)

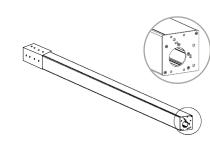
TRAY PROFILE QTY: 1



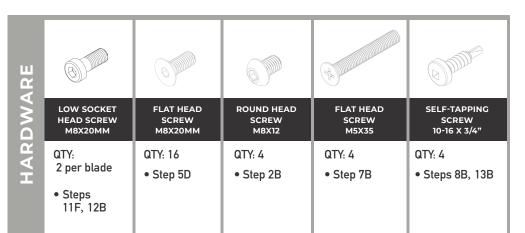
REMOTE CONTROL



TRAY COVER QTY: 1



POSTS AND COVERS QTY: 4



TIPS AND TRICKS

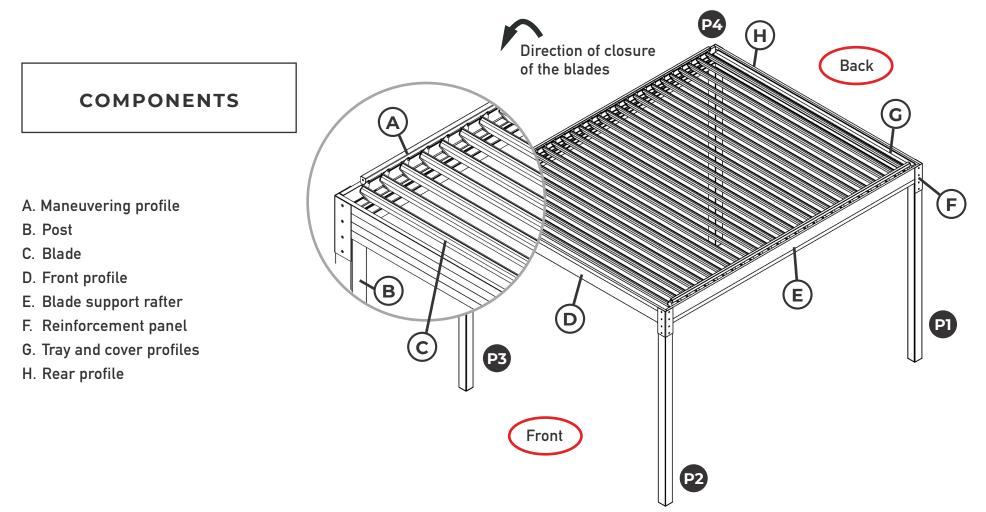
3

RULES

- WORK IN A TEAM OF AT LEAST FOUR PEOPLE TO INSTALL YOUR PERGOLA.

- TAKE THE TIME TO PLAN YOUR INSTALLATION, ONE DAY TO UNBOX AND PLAN, 1-3 DAYS TO INSTALL.

- MAKE SURE THE PERGOLA IS FREE AND CLEAR OF OBSTRUCTIONS ONCE THE BLADES ARE OPEN.

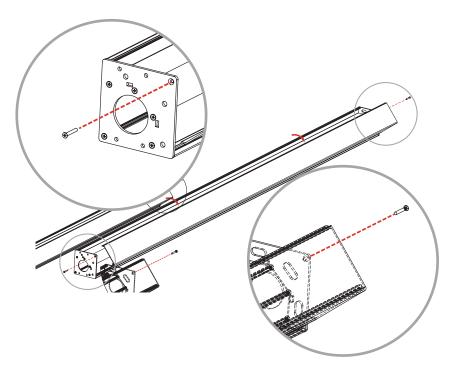


INSTALLATION

BUILDING THE FRONT AND BACK ARCHES

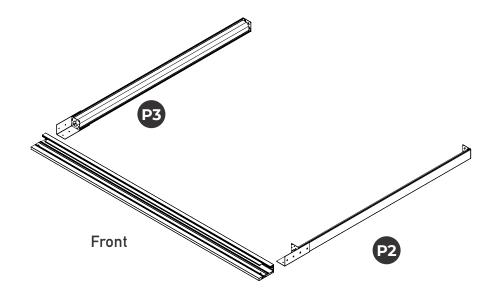
Α

Unscrew the corner screw at each end of the post and unclip the post's cover. Put it aside on a cardboard.



Β

Place the two front posts and the front profile using the cardboard protection on the ground. Make sure that the inserts on the posts are facing the outside of the pergola.



FRONT ARCH ASSEMBLY (EXAMPLE WITH RIGHT POST)

Α

Apply silicone around the P3 post hole and in the corners.

Β

Attach the post to the gutter profile.

Make sure that the posts are properly attached to the front profile with the 4 M8X20MM screws (low socket head) aligned with the holes of the panel.

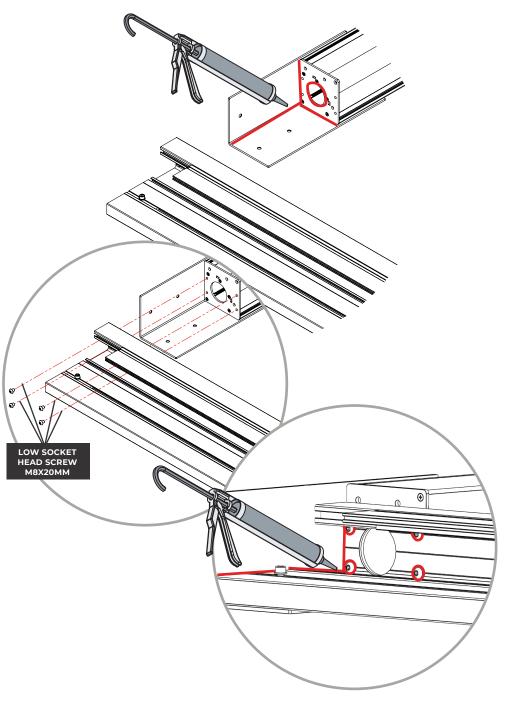
С

Apply silicone on the head of the 4 screws and at the junction of the profile and the end cap.

Repeat steps 2A, 2B and 2C with post P2.

D

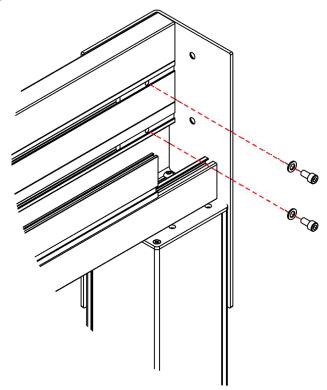
Repeat steps 2A, 2B and 2C with the back arch and posts P1 and P4.



PREPARATION FOR THE BLADES SUPPORT RAFTERS

Α

Remove the screw from the front and back arches.



LED LIGHT OPTION (IF YOU DO NO HAVE LED LIGHTS, GO TO STEP 5)

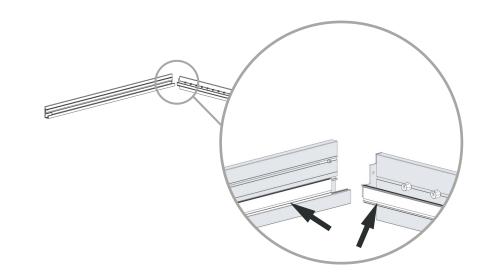
Α

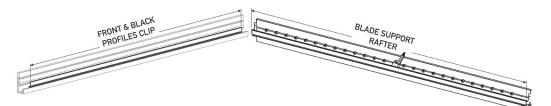
4

Identify the profile on which the lights will be inserted. Make sure the notched side of the profile faces the back of the pergola.

Β

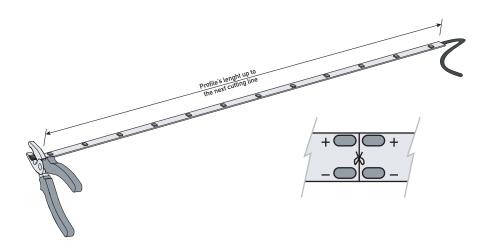
Measure the profile on which the LED will be installed.





С

The LED light strip can be cut every 6-3/4". Cut the strip facing the next chisel icon, making sure the LED strip is longer than the profile it will go on.



LED LIGHT OPTION ...CONTINUED

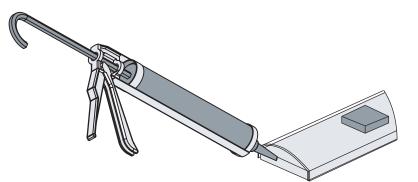
D

4

Apply clear silicone to the cut end of the strip to ensure a watertight seal.



When installing your LED strip, always make sure that the electrical input is set towards the back of the pergola.



Ε

Remove the backing paper off the LED strip and insert the strip into the profile slot without sliding it. Bring the electrical cord back to the motor tray so your electrician can connect it.



FRAME ASSEMBLY

Α

Lift the front and rear arches to the vertical position.

Β

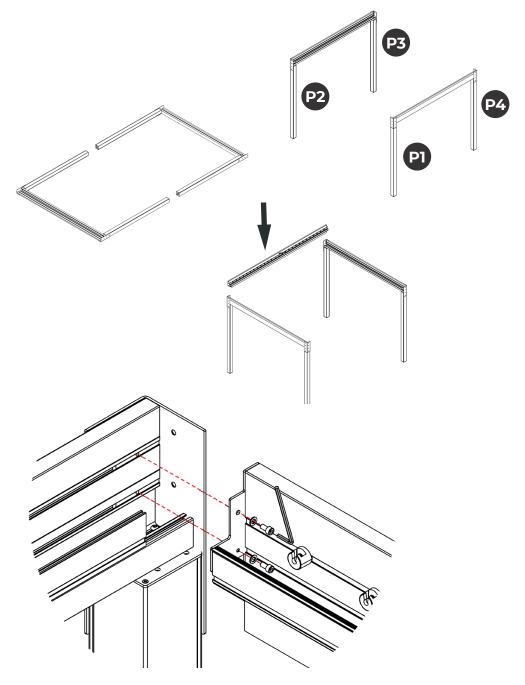
Place the rafter on the arch, following the colour identification of each corner.

С

Secure the screws previously removed in step 3A, for all four corners.



Make sure that the frames are properly fastened.



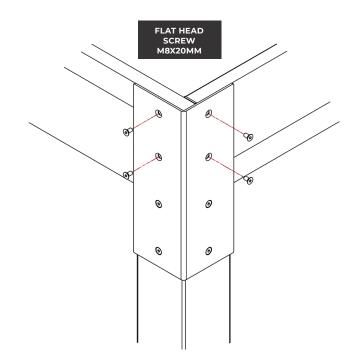
FRAME ASSEMBLY ... CONTINUED

D

Tighten the end cap with the 4 M8X20MM screws on each corner of the pergola.



Only if necessary, slightly loosen the 4 bottom screws to help align the holes and inserts.



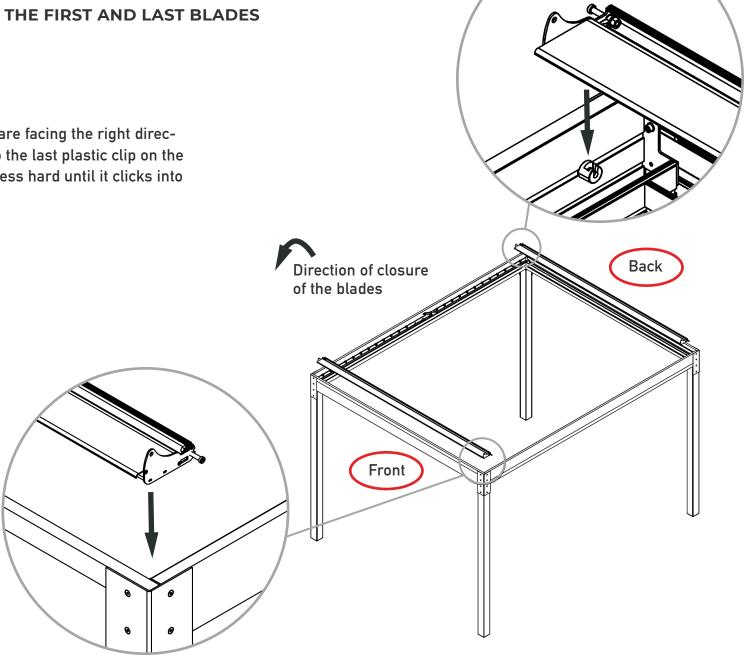
*CROSSBEAM AND FAN

If you have a crossbeam and fan optin, please follow the steps from the CROSSBEAM AND FAN INSTALLATION GUIDE before continuing to step 6.

INSTALLATION OF THE FIRST AND LAST BLADES

Α

Make sure the blades are facing the right direction. Insert the pin into the last plastic clip on the left and right rafter. Press hard until it clicks into place.



CHECKING FOR SQUARENESS

Α

Before continuing with the assembly of your pergola, make sure that the widths A are equal, as well as the lengths B and diagonals C.

A maximum tolerance of ¼" is allowed between the C diagonals for the proper functioning of the pergola.

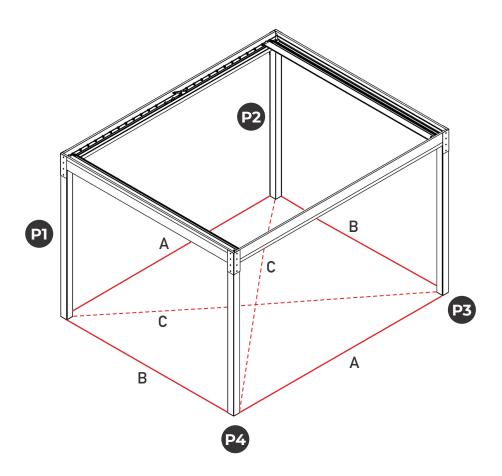
If the diagonals are not equal:

• Move posts P2 and P3 or P1 and P4.

If you have difficulty moving the posts:

- 1 Slightly loosen the rafter screws.
- 2 Tighten the rafter screws from step 5D.
- 3 Check the squareness again.

When squareness is achieved, check and tighten all screws.



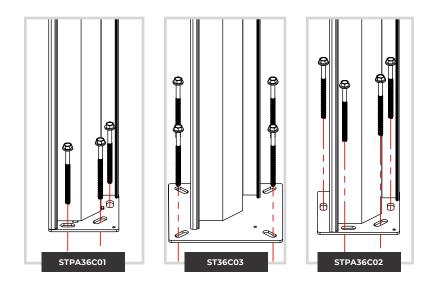
GROUND ANCHORING

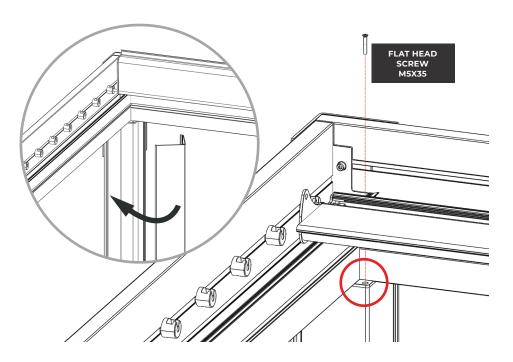
Α

Attach the appropriate anchors according to the type of bases.

*MOTORIZED SCREEN

If you have a Motorized screen to install, ensure that you have pass the wire before continuing to step 8B.





Β

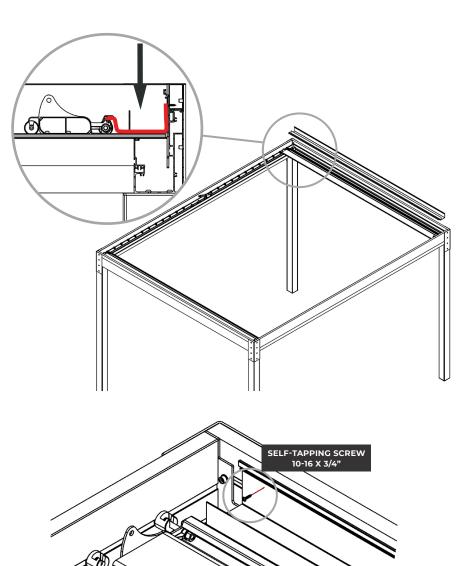
Close the post by clicking the profile and put the screw in the mounting hole.

THE TRAY AND COVER PROFILE INSTALLATION

Α

Remove the two screws on the back gutter and save for step 9B.

Position the cover profile. When it is in the right position, it covers the last blade, and the blade can open and close without obstruction.



Β

After positioning the tray profile, secure with the screws at both ends.

PISTON BLADE INSTALLATION (X2)

Α

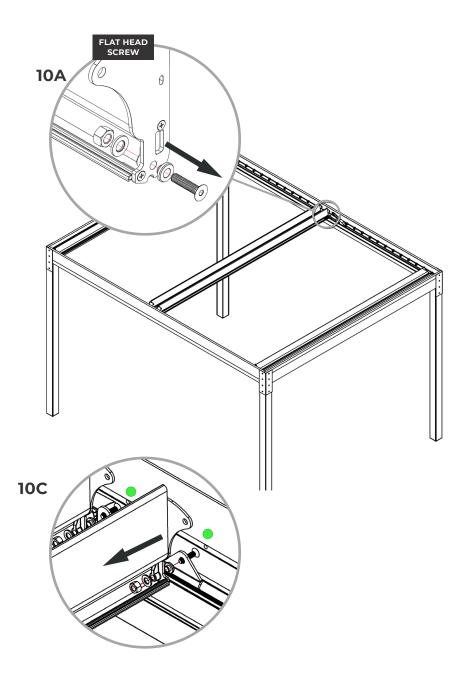
Remove the nut and bolt on the piston blade at both ends, keep the parts for attachment in step 10C.

Β

Place the piston blade on the support at the location indicated by the colored dots.

С

With the screws removed at step A, fix the piston blades on the support at both ends.



D

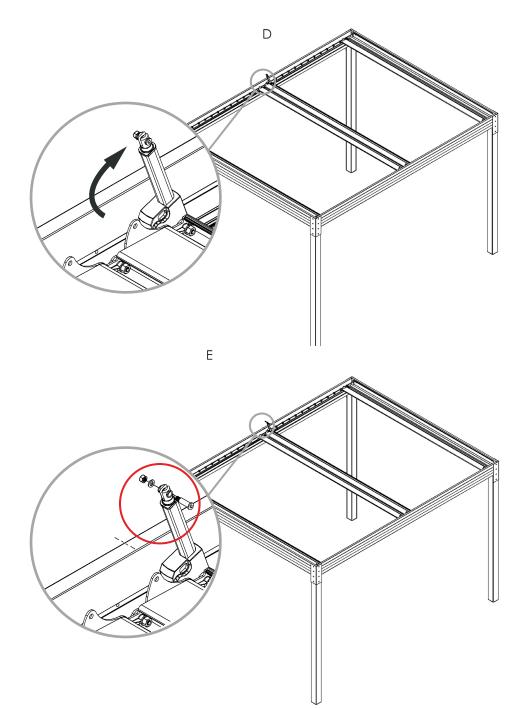
Return the blade to the closed position.

MANEUVERING PROFILES INSTALLATION

Α

11

Manually raise the pistons, in order to obtain clearance allowing access to screws.



Β

Prepare the piston by removing the nut and bolt on the piston end.

MANEUVERING PROFILES INSTALLATION ... CONTINUED

С

Fix the maneuver profile on the piston with the hardware removed in step 11B on the hook of the maneuver profile. Make sure that the holes in the maneuver profile are towards the blades and that the color identification on the maneuvering profile corresponds with the one of the pergola.

D

Manually bring the piston and the maneuvering profile down to the initial position, the blades should be in the closed position.

Ε

Fix the four blades to the maneuvering profile with the M8X20MM screws.

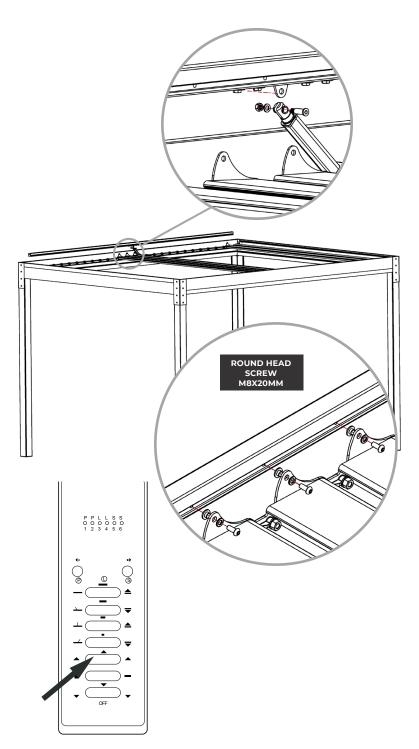


Do not overtighten screws. Do not use impact tools.

F

Supply power to the control unit in order to operate the piston. Bring the pergola to the open position by pressing on the UP button of the remote.

i.e. the blades at 110 degrees from the closed position.



INSTALLATION OF THE OTHER BLADES

Α

Install all remaining blades in a vertical position. Insert the pivots on each end into the plastic clips on the blade support rafters. Press hard until it clicks into place.

Β

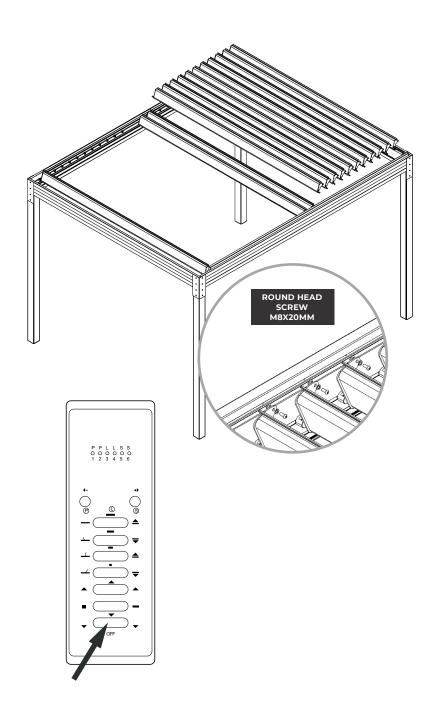
Fix the blades to the maneuvering profile with the M8X20MM screws and the plastic washers.

С

Repeat the step 12B with the second maneuvering profile on the other side.

D

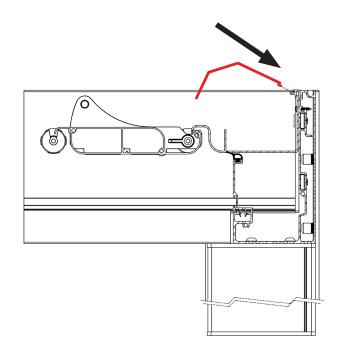
Close the blades by pressing on the remote's lower button



TRAY COVER INSTALLATION

Α

Insert the cover in the groove of the tray profile.

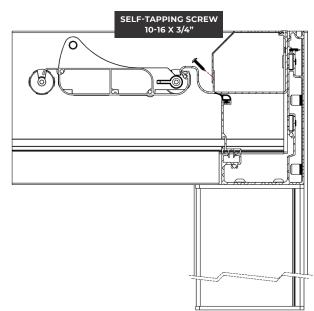


Β

Secure the cover and the tray profile together with two 10-16 X 3/4" self-tapping screws at each end.



Check and tighten all fasteners. Do this periodically.



ELECTRICAL REQUIREMENTS

The wire lengths are suggested, taking into account that the feed is made from the bottom of a post.

- Pergola motor 2.3 amps / unit = 1 wire 14/2 NMWU 15 amps. No wire supplied.
- LED light 1.7 amps per unit = 1 wire 14/2 NMWU 15 amps. No wire supplied.
- The pergola circuit and the LEDs can be grouped on the same circuit.
- The circuit must be powered without a switch on the circuit.

NOTE: The electrician will determine how many systems will be connected to the same circuit.

The wire lengths listed are from the bottom post of the pergola. The customer must make sure to have an adequate length to allow the connection to an electrical source (electrical panel / junction box).

The electrician is responsible for making the final connections following your installation including waterproof boxes and fittings.

TERRA SUMMER does not supply wires or junction boxes and is not responsible for the cost of electrical connections or the sealing of the electrical system. All connections must be made by a licensed electrician.



- 1 Poor water drainage. Water stagnating in the blades support rafters:
 - Check that the structure is not leveled. Remove all the blades from the structure and level the structure.
- 2 Water running down the posts:
 - Poor waterproofing at the level of the finishing caps of the front gutters. Check or make a seal between the finishing caps of the front gutters.
- 3 Water leakage at the level of the blades:
 - Bad closing of the blades. Redo the preparation of the piston and the configuration of the working time.
 Closed blades, loosen the maneuvering profile hook, put the piston in position zero (closed), tighten the BS04204 and redo the configuration of the working time.
- 4 The blades do not open:
 - Make sure the piston are powered up.
 - Check the electrical connections. Be careful to turn off the power in case of handling.
 - Redo the programming of the working time.
 - Check the squareness of the structure.
 - Check the assembly of the maneuvering profiles.
- 5 The piston screw is blocked by the frame:
 - Check the assembly of the maneuvering profiles.
- 6 During the assembly of the frame, the arches are not leveled:
 - Perpendicularity problem. Shim or cut posts to be leveled.
- 7 A gap appears between the tray profile and the first blade:
 - This is a normal phenomenon due to the bending of the first blade. This phenomenon does not cause any leakage.
- 8 Condensation under the blades:
 - Phenomenon due to a significant change in outside temperature. This natural phenomenon does not affect the quality of the bioclimatic pergola.

MAINTENANCE TIPS FOR THE LOUVERED PERGOLA

A louvered pergola is subject to many constraints: humidity, salt air, weight constraints, wind, etc.

We therefore recommend:

- Check the tightness of the screws after installation, then regularly: at the beginning and end of the season.
- Clean the frame at the beginning and end of the season. Be careful not to use any detergent.
- Do not hang anything on the product's frame. It could fall and cause property damage and/or personal injury.
- Make sure that the blades are clean before opening and closing them.
- Make sure that no foreign object can damage the structure when opening or closing the blades.
- Never put your hands or any part of your body between the blades, or between the blades and the frame of the product, when operating the blades.
- Do not install a barbecue under the product and do not light a fire near it.

DO NOT OPEN YOUR PERGOLA IN CASE OF:



Waterproof product in case of rain.

OPEN YOUR PERGOLA IN CASE OF:



If it snows while you are away, remove as much snow as possible before opening the blades.



Open the blades of the pergola when it is windy.

TERRA SUMMER

1-800-515-6652 info@terrasummer.com **terrasummer.com**