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Bioclimatic aluminum lamella roof

ASSEMBLY INSTRUCTIONS - English

Tips: What do I have to consider and prepare before the assembly?

Prepare a frost and storm proof foundation, in balance, and take precautions for the power connection (we recommend high fuse protection, preferably a power line with at least 6.4kw) and grounding/lightning protection. You need at least four skilled assembly assistants with at least two high standing ladders. It is better to also use a mobile scaffold for the large projects. You will need useful tools (a cordless screwdriver, various wrenches, a hammer, a plumb bob, a spirit level, a hammer drill for fixing the foundation, and possibly an angle grinder with a metal cutting disc (flex), should small adjustments be necessary, silicone + pistol) It is best to set up with enough space so that you can distribute the parts evenly. The structure is not complicated, but you need to read the instructions well if you are stuck. With several hundreds of projects, the setup has always worked very well so far. It is essential to follow our advice and read it carefully.



Prepare yourself well for the setup and read the **FAQs - Frequently asked questions** on our website. Furthermore, we offer installation videos for the pergola and the lateral ZIP blinds.

Exchange ideas with a craftsman beforehand because it is impossible to provide instructions for every case due to the unique design. All parts are included in the delivery. The electrical system and motors are 80% pre-assembled. All you have to do is connect the pieces, align them and connect them professionally.

Take your time, use sufficient space and do the set up in good weather. You will need about two days.

Depending on the chosen form and scope of the project, minor adjustments may be necessary on-site. You can process all metal parts accordingly and should be able to handle the most critical small parts (e.g. screws) that can also be bought at a hardware store. Due to the powder coating, mounting holes may differ slightly. Only process and slightly re-drill.

The sets are complete but without tools. Marking is not possible for all parts. Therefore, lay out the pieces before assembly. Where which parts belong is usually immediately apparent and no problem for experienced artisans.

Packaging and storage

The pergolas are delivered in large wooden boxes. The parts are packed with protective foil, and the small details are sorted in a box. The wooden box may splinter when opened. Therefore, wear gloves. The goods are protected from splash water, but you should protect the wooden box from rain. If you delay the final assembly, cover it with a tarpaulin.

Delivery

The carrier will arrange a delivery date with you directly. Discuss the parking options on-site. Some carriers need to know before delivery whether you have an unloading possibility and that access is possible. Also, inform the carrier that they must unload. It has already happened that forwarding agents have assumed that a forklift is on-site, or that truck access was not possible. If you have any questions, you can also contact us at any time.

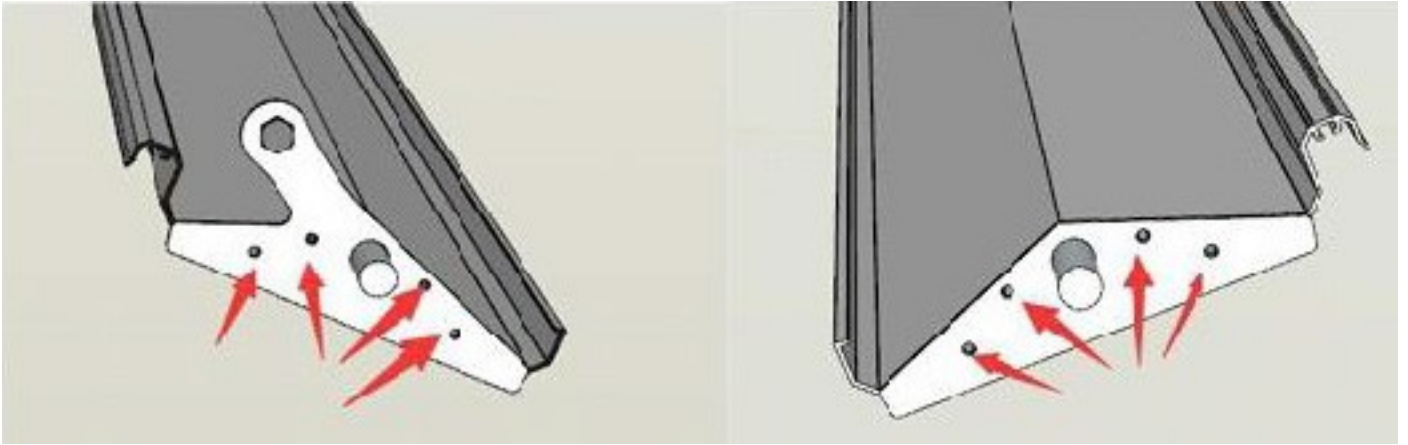
Security

Pay attention to occupational safety, and only do what you are confident doing by hand. Never work alone and inform yourself well before setting up. We are happy to advise you and give you tips.

If you have any questions, please call 0800/7000477 or write to support@my-pergola24.com

Step 1: Unpack, create an overview and attach end pieces to the slats

Take your time and space for the assembly and take care when moving the powder-coated parts to avoid scratches. Now mount the end pieces to all slats using the screws provided.



Step 2: Orientation and slope

If you have chosen certain side parts, make sure that the pergola is in balance. Especially with the motorised lateral slats, the alignment in scales and without slope is essential. Otherwise, they will not close. If your terrace has a slight gradient, installation is still possible. An artisan can quickly recognise whether you have to underlay/balance, and take the right measures. The rainwater drainage system, which runs in the posts, has, already integrated, a pre-assembled slope. Thus, the free-standing pergolas are to be aligned in balance and can be placed in such a way to the house wall.

Avoid excessive unevenness of the floor. If the alignment is not correct, the slats may not close properly later and deviations may occur, which adds to larger gaps over the lengths. So, take your time with the alignment, then the rest will go smoothly .

Step 4: Horizontal roof beams

Place the roof beams in pairs and fix them with the supplied M10 screws and the distance plate. Before tightening it, make sure it is at right angles.

We recommend greasing the screws. Be careful not to damage the threads and use the right tool to work without injury.

We also advise you to print out your individual configuration/order because there are differences in the illustrations. You can better place the parts. You see the final result, and it is usually easier to work with a construction goal in mind.

Note the slat alignment and the dimensions of the parts. Avoid scratches and tighten everything properly.

Step 5: Right angles and alignment

The alignment is critical because this is the only way the slats will close adequately later. All horizontal and vertical angles must be at 90°.

If parts, or the surface, require adjustment, shorten or underlay the uprights.

Only fix the screws now!

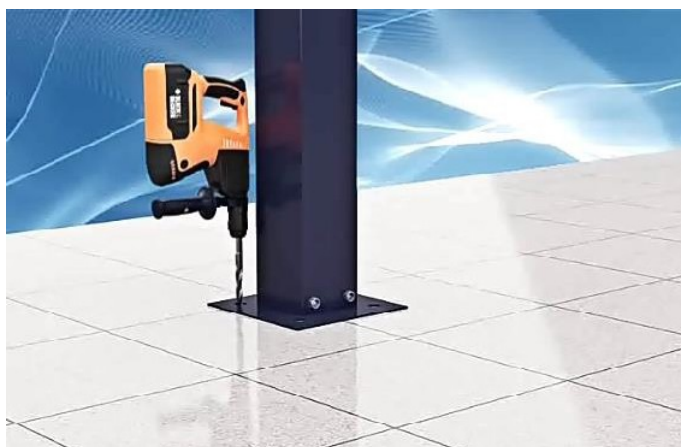
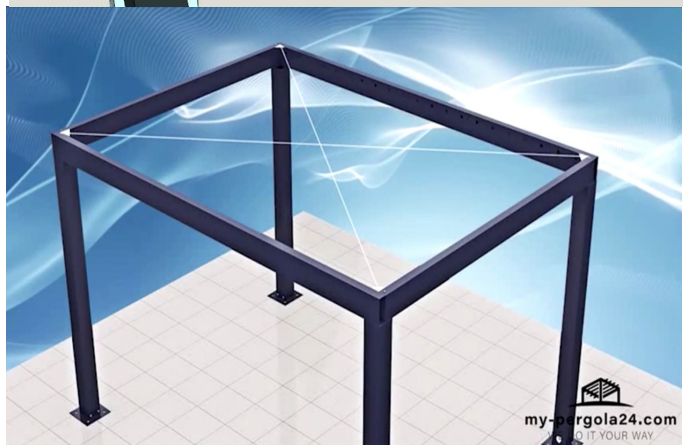
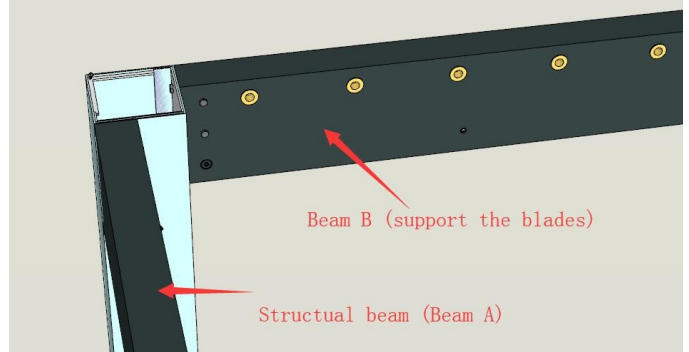
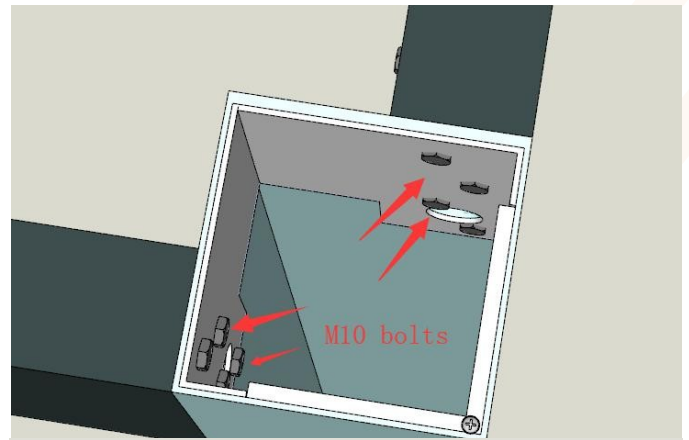
Step 6: Connection to the foundation

Make the stormproof connection to the foundation by connecting the upright plates with drill holes and the M12 anchor bolt.

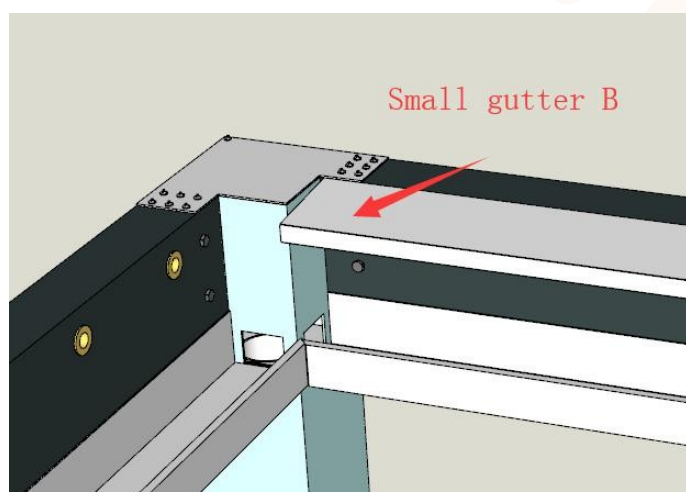
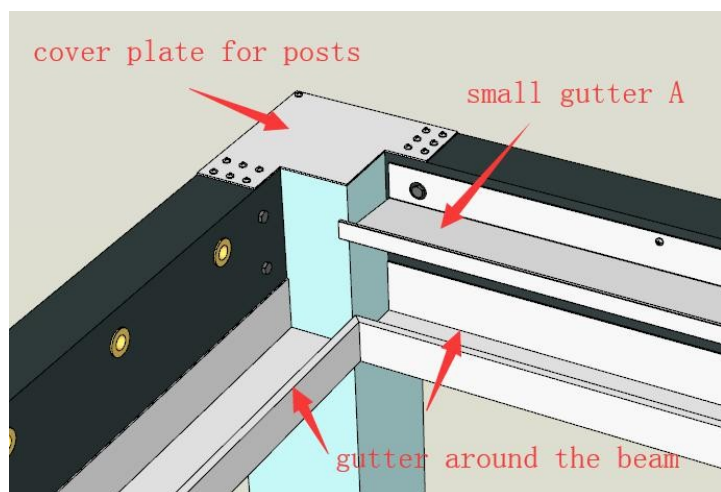
If you have chosen the assembly with a sleeve, connect the sleeve to the foundation and then guide the post over it.

Types of foundations:

- Roof terrace - strip foundation or steel plates free-standing - 30x30x60 cm point foundation terrace
- stormproof connection to the underground roof
- connection - stable connection wall/beam



Please also see our video instructions at www.my-pergola24.com



Step 7: Attach cover plates

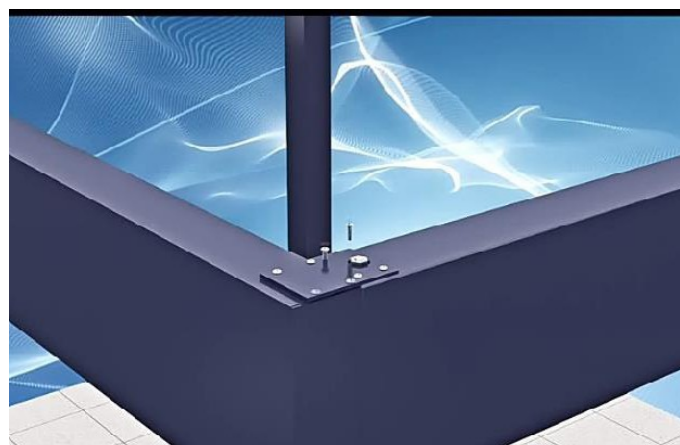
The cover plates give the construction added stability.

Step 8: Attaching rain panels/covers

Pay attention to your measurements and the alignment of the parts. The plates can have different dimensions and are to be mounted flush, in scales, at the bottom of the post. If screw holes have to be adjusted, re-drill carefully. There may be small deviations due to the powder coating.

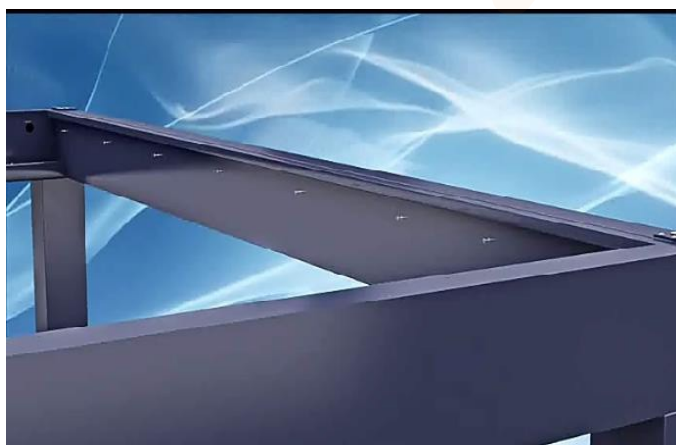
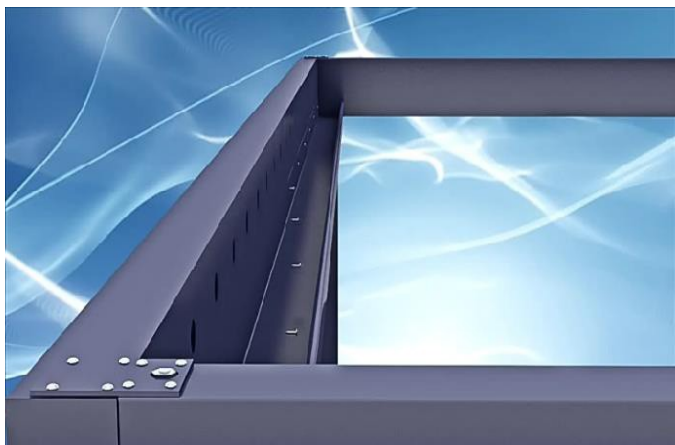
Before you tighten parts, always check the next steps in the assembly.

If the measurements differ only slightly in width and length, pay particular attention to which parts are used to measure them again for safety reasons.



Step 9: Tightening of the sheets

Tighten the plates and turn each one. Avoid guttering overtightening the screws.



Step 10: Sealing with silicone

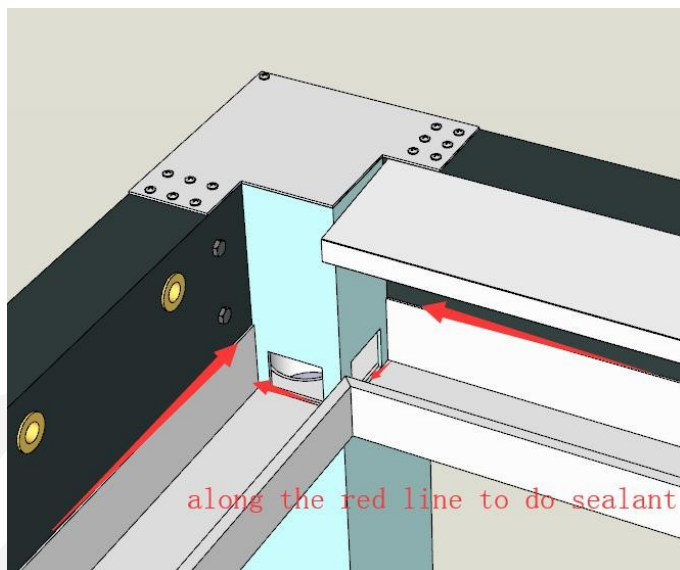
We recommend sealing the rainwater drainage system with silicone for outdoor use. Draw straight lines and use washing-up liquid and kitchen paper, if necessary, to achieve clean finishes.



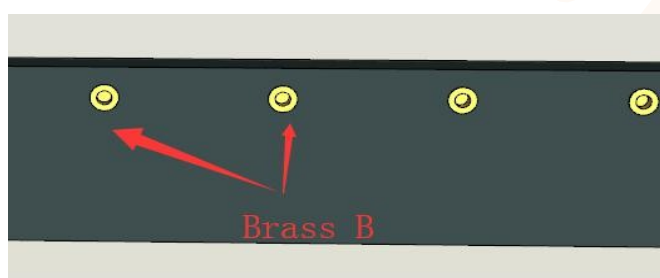
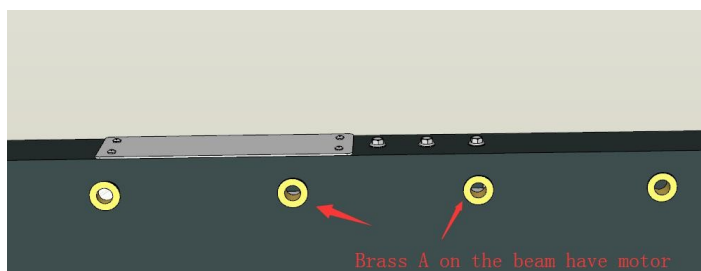
Step 11: Siliconising

Seal along the red lines with high-quality silicone for outdoor use. You can also work with bitumen sealant or other sealants.

Other parts of the pergola do not need to be sealed. Pay attention to where you have selected the rain outlet in your configuration. It should be on the side facing away from the house and must already be taken into account when setting up the posts.



The structure may vary if your configuration includes certain extras.

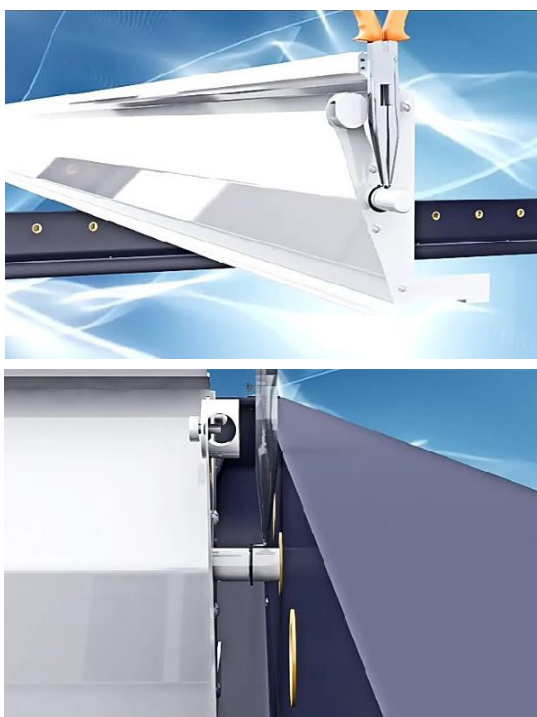


Step 12: Insert rotary bearing

Insert the rotation bearings into the prepared holes of the roof posts to hang in the slats later.

Note that on the motor, the rotation bearings A with the hole must be inserted and the closed B bearings on the opposite side.

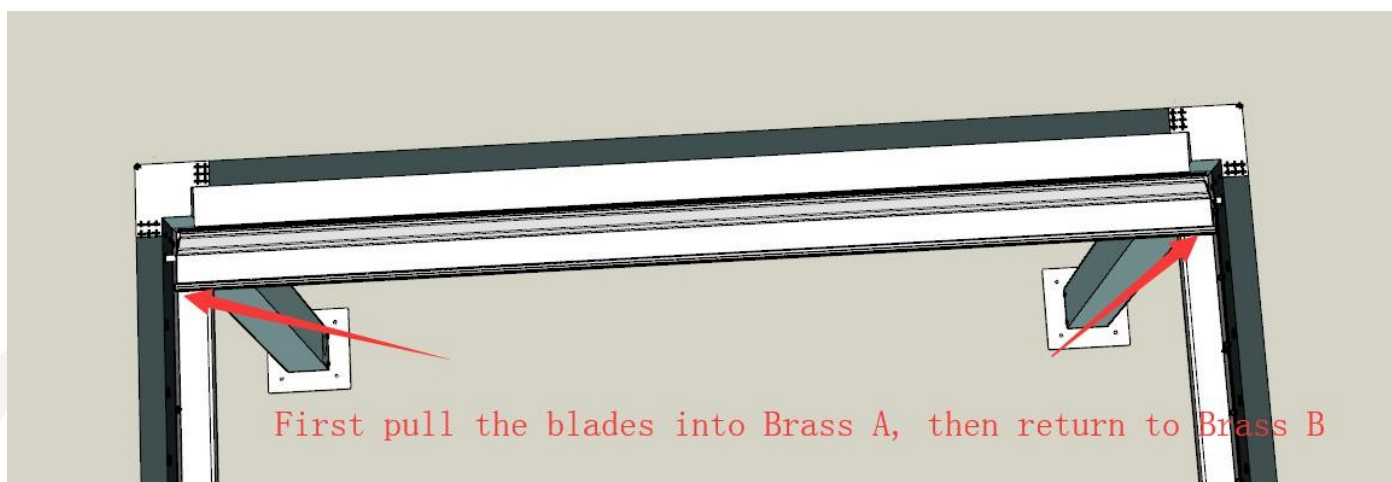
Always pay attention to occupational safety and take your time. A mobile scaffold or stable ladders and sufficient helpers are required.

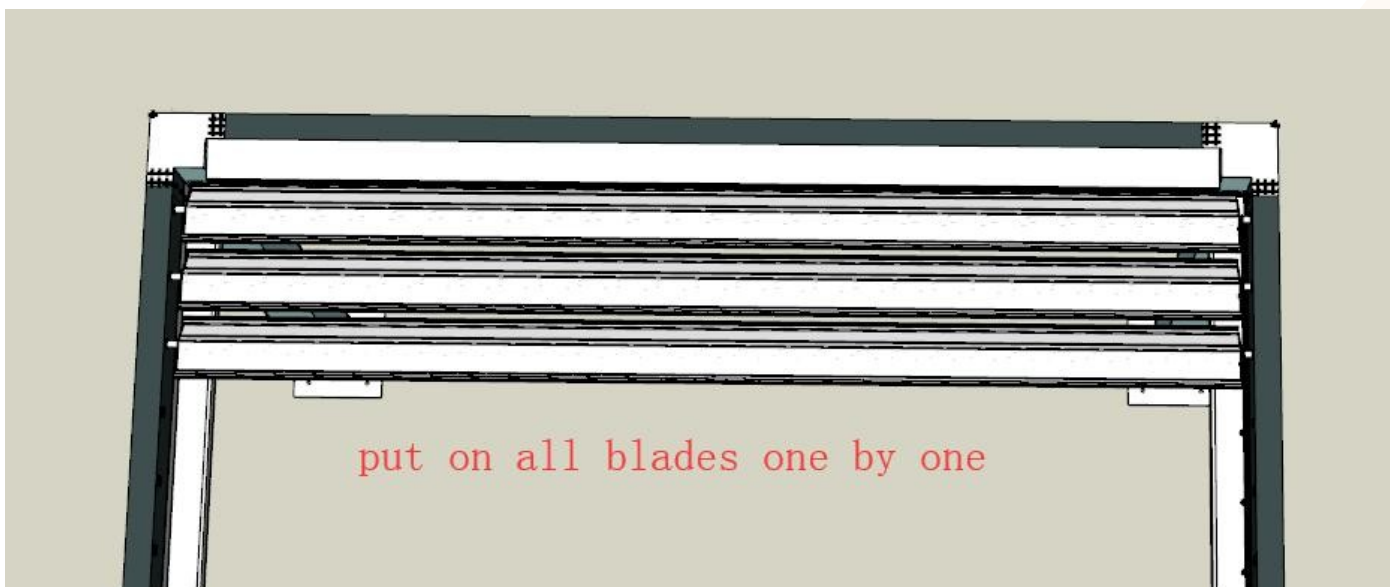


Step 13: Fixation clip

Pull the fixing clip to the back and use suitable pliers.

Now hang up the slats one by one - see the next page.





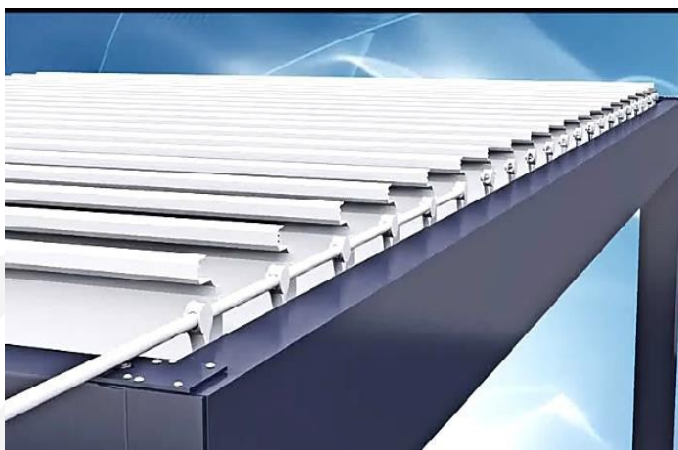
Step 14: Insert slats/engage fixing clip

Push the slats with the fixing clip pulled backward into bearing A (open at the motor), then they can be guided into bearing B (closed). Now remove the fixing pin forward until it snaps in and the slat is hooked in and secured.

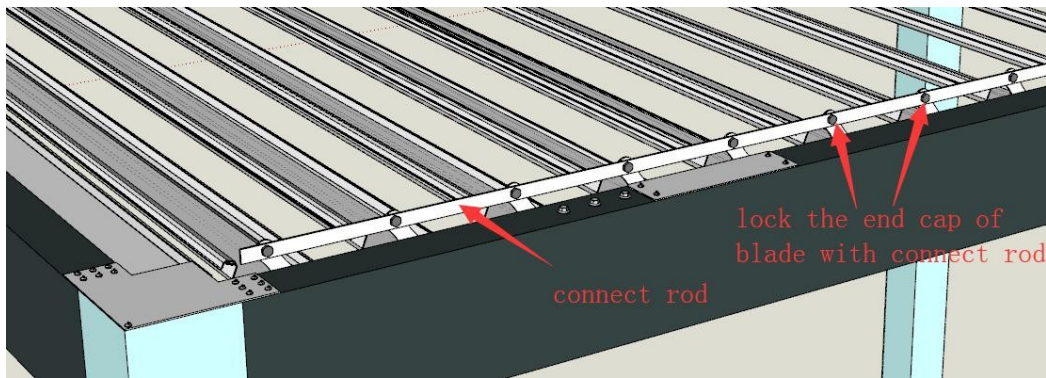
Now hang in one slat after the other until the roof is closed.

Step 15: Connect motor side (bent end piece) with the rod

Connect the slats to the rod and align them strictly vertically. When the roof is closed, they must interlock and close the top. Tighten the rod on each slat with the Allen key.

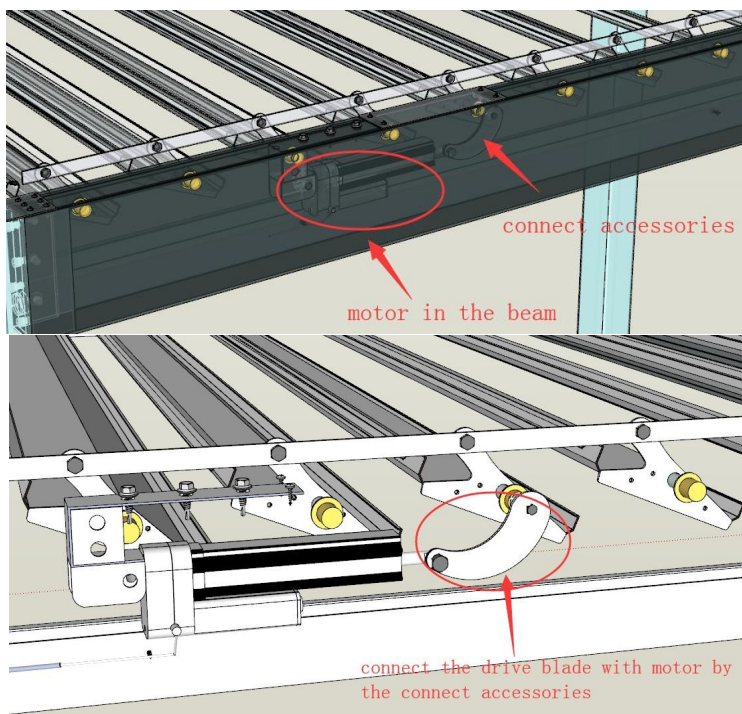


Ideally you should read the assembly instructions before the pergola is delivered.



Step 16: Motor connection

This illustration may vary depending on the pergola's size, and there may be other connecting parts. The pushrod must be well connected to each slat and is next attached to the motor.

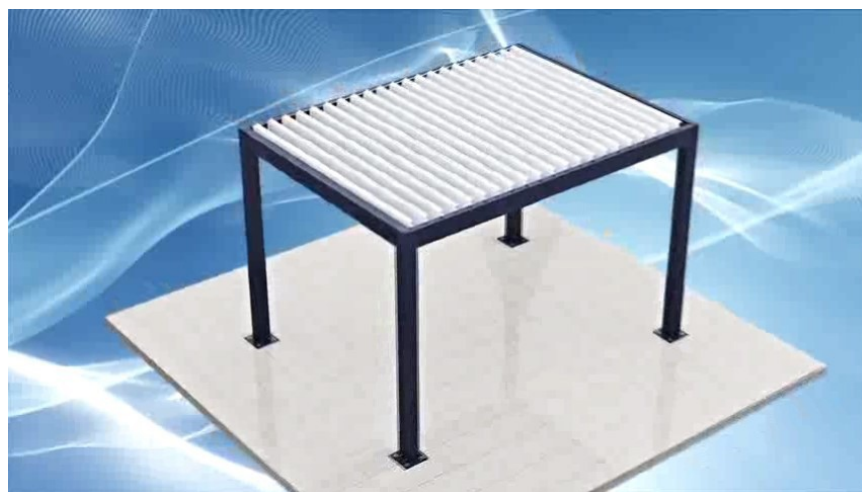


Step 17: Assembly of further extras and electrics

The electrical system is 80% pre-installed, but we recommend that you consult a professional for completion and final electrical inspection. But you can also do this yourself as an experienced craftsman. The other installation of the extras depends on the configuration. The important positions have already been specified in the configurator and are prepared.

Now enjoy your new bioclimatic terrace room, and we wish you much joy and a gain in your quality of life.

View of the finished lamella roof



Lateral ZIP blinds with remote control

One of the indispensable extras is the side zip roller blind with an electric motor and remote control. We offer you an incomparable price.

Please note the following important points during assembly:

Step 1: Unpacking - Blinds

Fasten the covers of the zip roller blind. You may have to pre-drill the holes with a drill bit. When the blinds are inserted, the end cover should be flush on the outside.

Step 2: Motor position

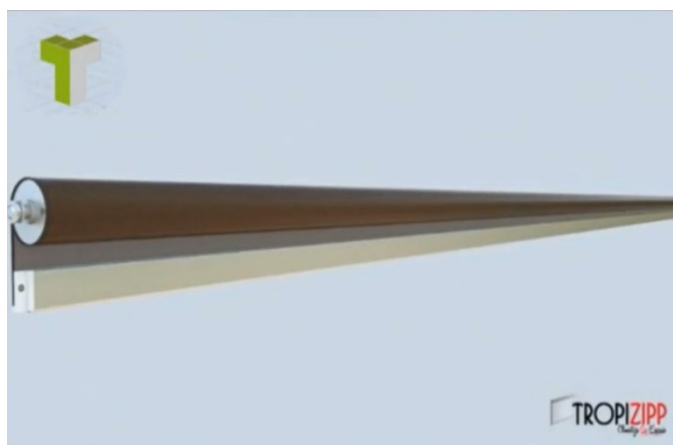
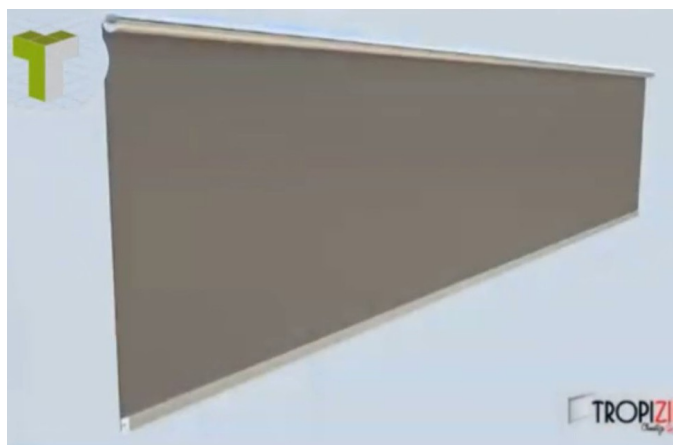
The electric motor can make inevitable revolutions from 0 positions and then reaches its maximum position. It is imperative to find this 0 position (roller blind up) before installation.

It is possible to connect the roller blind briefly to the power supply if this 0-position is adjusted. This is the only way that all blinds will move up and down in the same position.

Step 3: 0-position found

When the 0-position (roller blind fully rolled up) is found, the installation can begin.

Before you install all the slats, connect them to the power supply and check that all the blinds move up and down properly in the same position.



Step 4: Inserting the roller blinds

Now things are moving quickly. Insert the blinds and pay attention to the electrical connection.



The lateral motorised ZIP roller blinds have robust plastic-coated sun protection, which is usually very resistant. In later use, the roller blind should not be used in strong wind.

But a light breeze is no problem.

Step 5: Lateral guide assembly

Now mount the side guide and make sure that the roller blind can run vertically perpendicular.

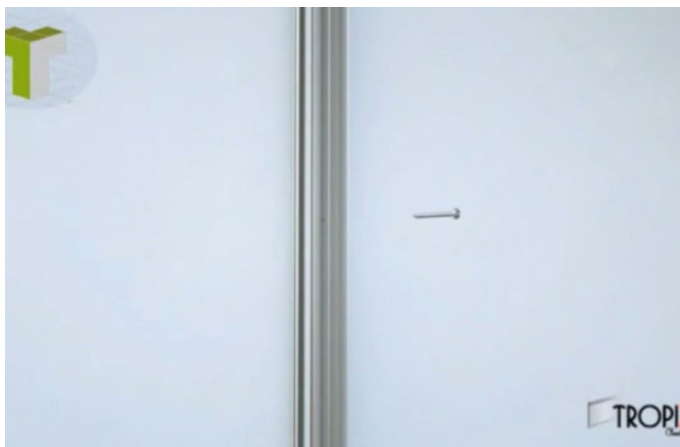
Please mark the holes and always pre-drill with a small metal drill when mounting on aluminum.



Step 6: Lateral guide assembly

Now screw the lateral guide rail tight.





Step 7: Lateral guide assembly

Repeat the installation of the rear side rail on all uprights and roller blinds.

It would help if you previously reached the 0-position (roller blind up) on the motor. The roller blinds can run vertically free in the perpendicular.

Make sure that you pre-drill the holes and do not overtighten the screws.

The side parts must be firmly attached to the aluminum or the wall.

Next comes just the cover strip and the connection of the roller blinds to the general electrical system.





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