

CosyLifeStyle®

Manual
for
Bioclimatic Pergola
Gazebo Génova
4x4m

Assembly Manual

GÉNOVA **PERGOLA PAVILLON**



INDEX

Before Starting

Tools required

Content

Safety precautions

Assembly

1. Planning (measurements and presentation)
2. Installation (assembly)
3. Installation (fixing)
4. Installation (Beams assembly)
5. Installation (fixing the frame)
6. Installation (motorization & connection)
7. LED lighting (optional)
8. Installation (Sealing)
9. Installation (Louvers)
10. Installation (Transmission Rod)
11. Connection and Verification

Tips and maintenance

Annex

Before Starting



Approved Materials

The installation needs to be carried out by at least two people.

DO NOT REMOVE THE PROTECTIONS UNTIL THE INSTALLATION HAS BEEN COMPLETED.

Before starting the assembly, check that all parts are included in the box. Screws for fixing to the floor are not included. Consult your trusted supplier which product is the most suitable to ensure optimal fixation according to the particular situation.

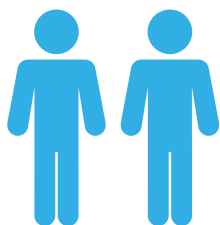
Keep plastic bags out of the reach of children to avoid suffocation. Maintain the packages in a horizontal position during the entire assembly process. Keep them in a clean space, thus avoiding possible scratches on the aluminium structure.

Avoid installation in overexposed or windy locations.

Before drilling the surface, ensure that there is sufficient space for the pergola to be installed. Check that the area is free of gas & water pipes and electrical cables.

Tools required...

2 people



Spirit level



Tape measure



Wall drill bit n-10



Hammer



Hammer drill



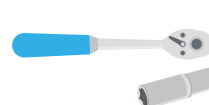
Silicone gun



Allen spanners



Fixed or ratchet 13mm spanner



Pliers



Open-end spanner 10mm



Cross-head screwdriver



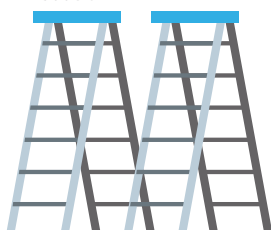
Gloves



Helmet



2 Ladders



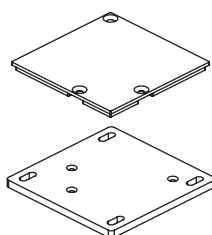
You need to buy...

- Bolts for fixing the pergola to the floor (16 units). Bolts, washers and, if needed, wedges must be selected according to the floor. These fixing objects must be made of stainless steel.

- Neutral transparent silicone to seal the joints.



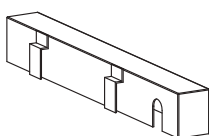
Content



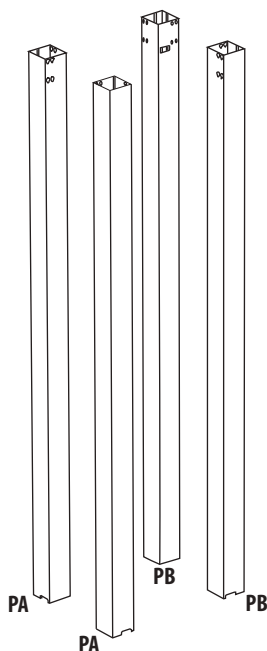
Post cover x4

Floor mounting plate x4

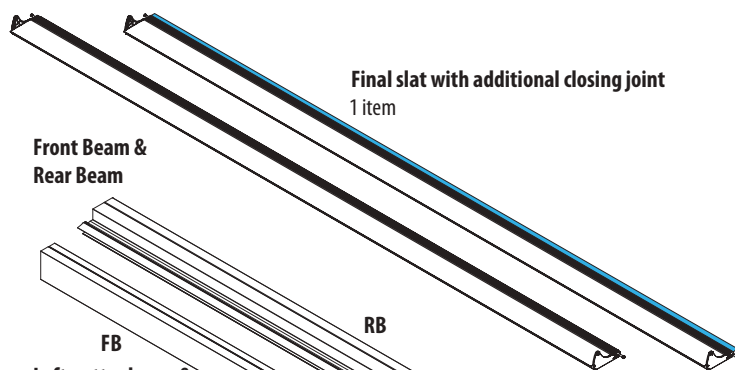
Motor guard x1
(Two units shall be installed in pergolas larger than 12 m2)



Posts



Normal Louvers



Final slat with additional closing joint
1 item

Front Beam &
Rear Beam

FB

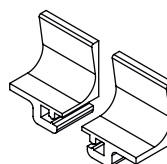
RB

Left gutter beam &
right gutter beam
(lateral beams)

RG, LG

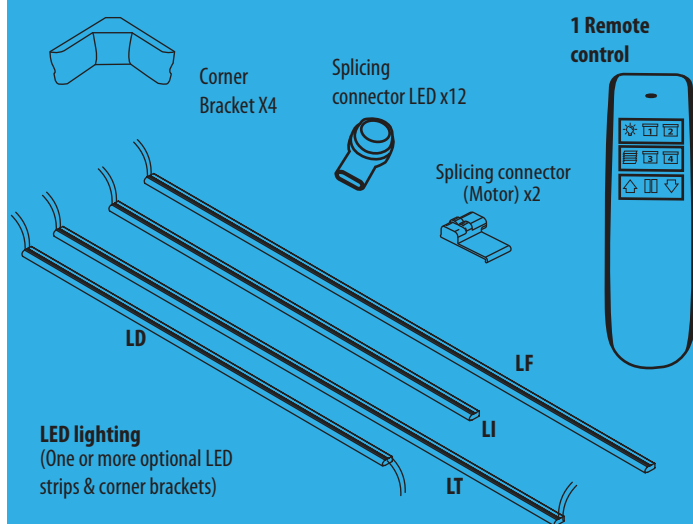
1 motor
transmission rod

1 simple transmission rod



Pair of drain closing pieces
(Left & Right)

LED lighting kit (optional)



Corner
Bracket X4

Splicing
connector LED x12

Splicing connector
(Motor) x2

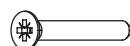
1 Remote
control

LED lighting
(One or more optional LED
strips & corner brackets)

Fixing screws provided



X6 Screws 6.3x25 (post cover)



X12 Screws 6.3x80 (floor mounting plate) X4



Trim cap

X8 Screw 8x30 (Wall support)

Assembly of the slats



Roller slat rotation (2 units per louver)

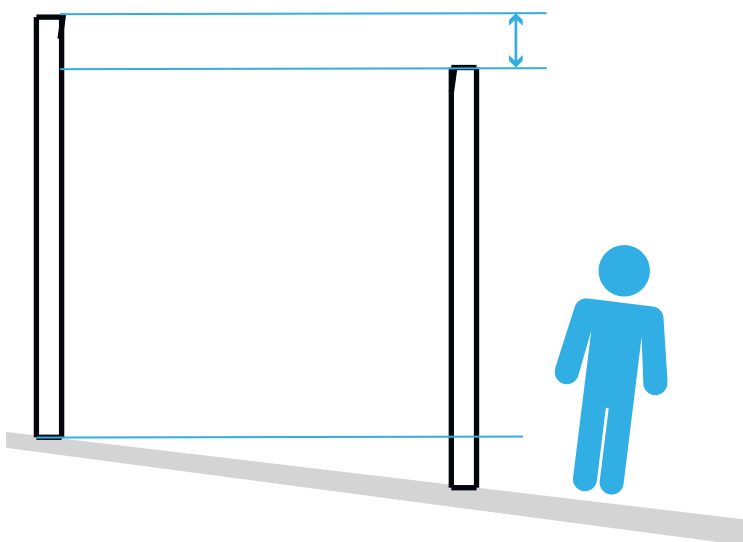
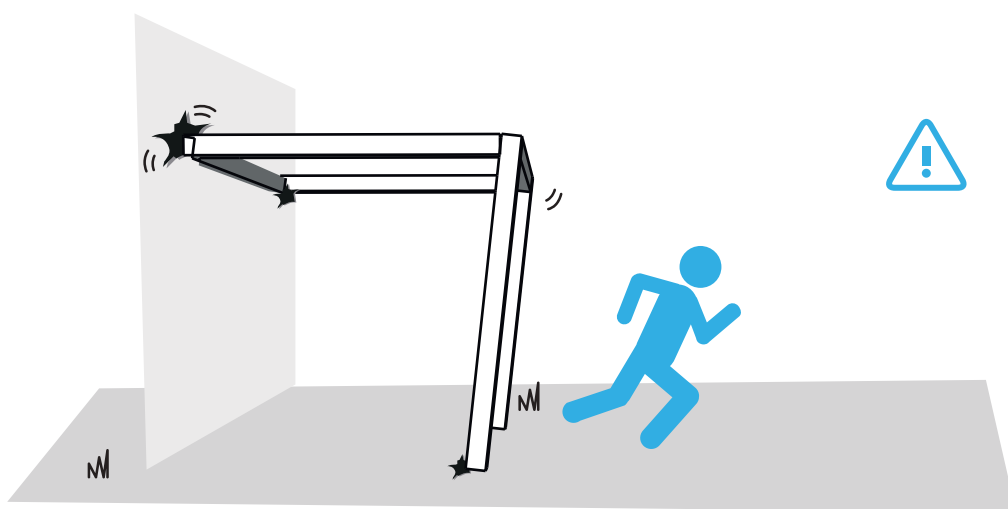


Screws m6x16 slat rotation (2 units per louver)

Safety

PRECAUTIONS

To avoid any risk of falling or detachment of the pergola, it must be securely fastened to the floor to which it is to be anchored. Check the condition and soundness of the support base and ensure that it can support the weight of the pergola and withstand impacts of the fastenings. Improper installation can cause the pergola to fall down and result in personal injury. In case of doubt about the installation, ask a specialised dealer or call in a professional. Use screws, washers and dowels suitable for the support material. The product does not include the screws and fixing plugs. To find out which installation elements are suitable for your fixing structure, please ask a specialised dealer.



Be sure to install the pergola on levelled ground to guarantee its good functioning, in particular the motorisation and the opening/closing of the slats.

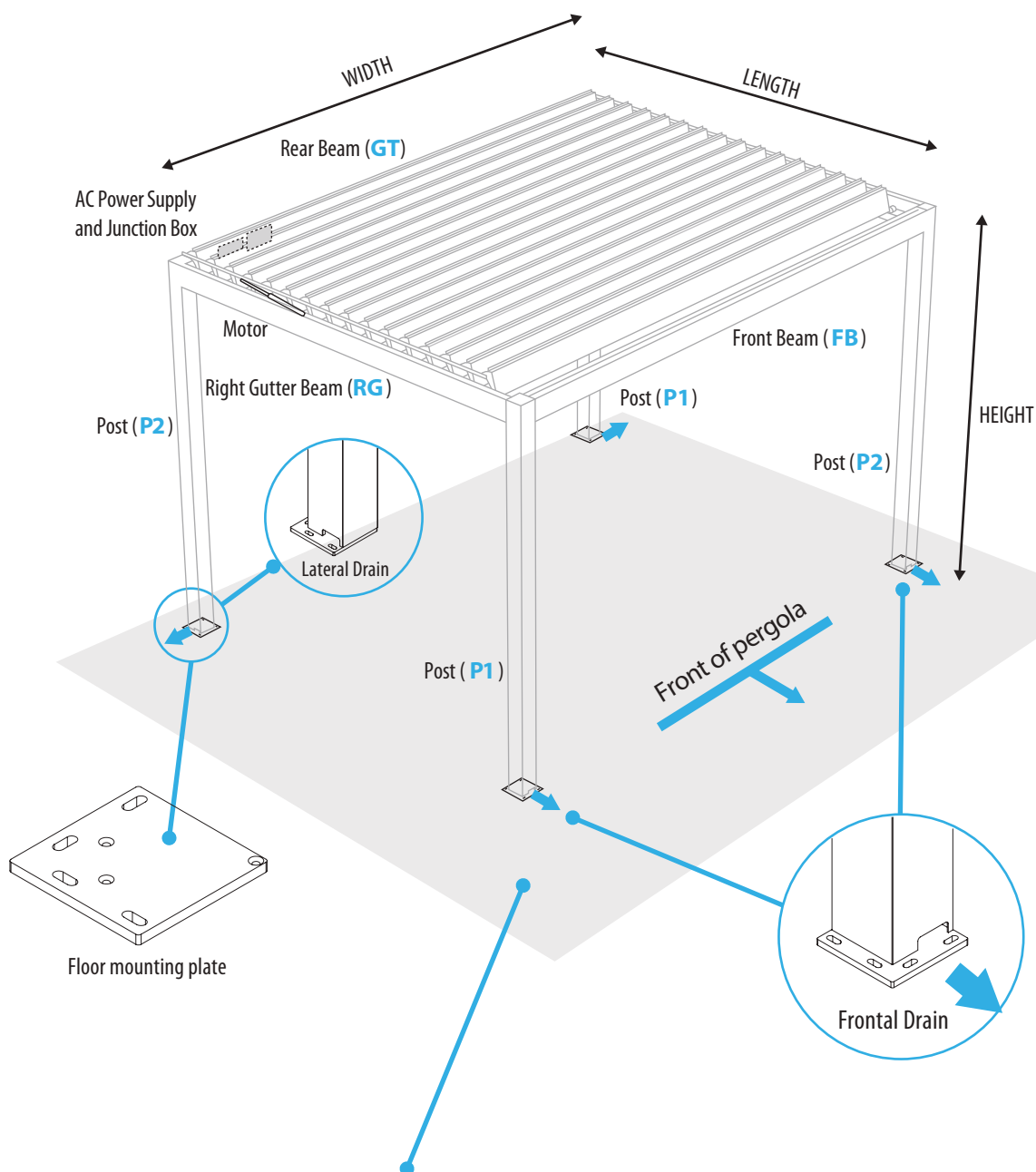
If necessary, compensate the difference in height caused by the slope by adapting the height of the posts on the high side or, on the other hand, by using wedges under the posts on the low side, in order to ensure the correct levelling of the roof.

Planning

Measurements and layout

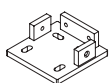
1.1

Lay out the floor mounting plates where the posts will be situated. The rainwater drains of the 2 frontal posts should face towards the front of the pergola, the ones of the rear posts towards the outside. The orientation of the floor mounting plates is thus conditioned by the positioning of the posts.



Observation:

We recommend to assemble the pergola on a reinforced concrete slab with a minimum thickness of 150 mm (or an equivalent surface).



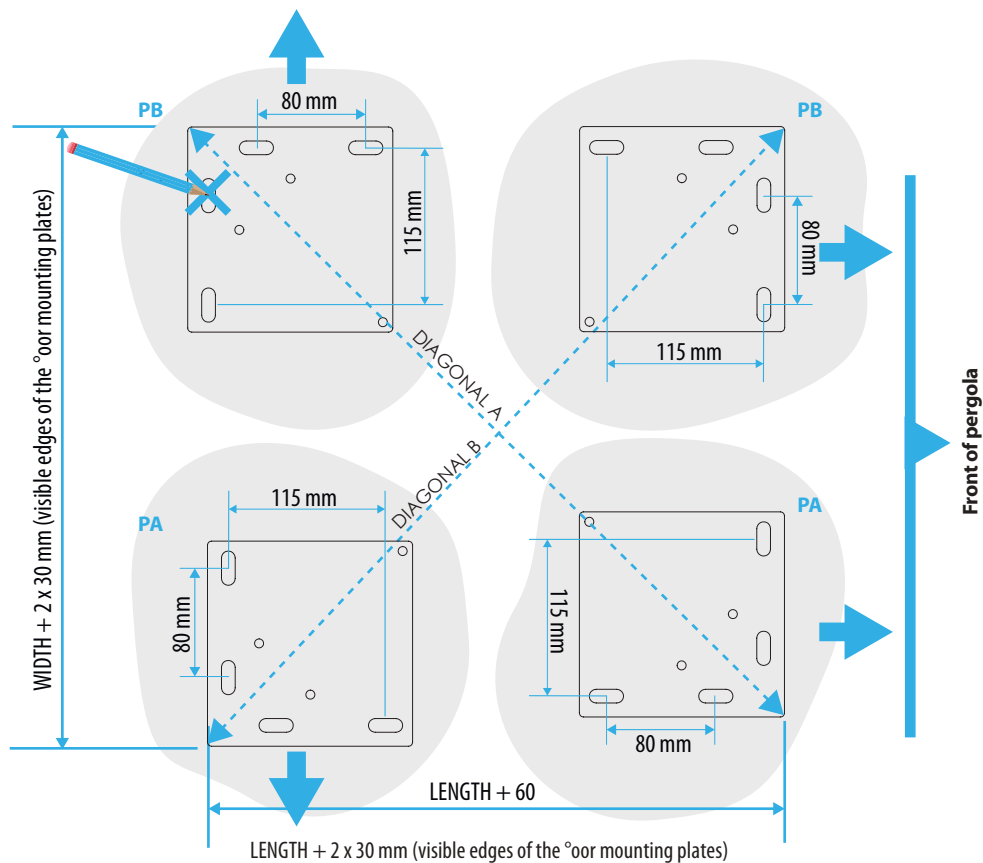
For the assembly of invisible mounting plates, please see annex "Invisible Mounting Plates Installation", page 27-31.

1

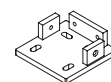
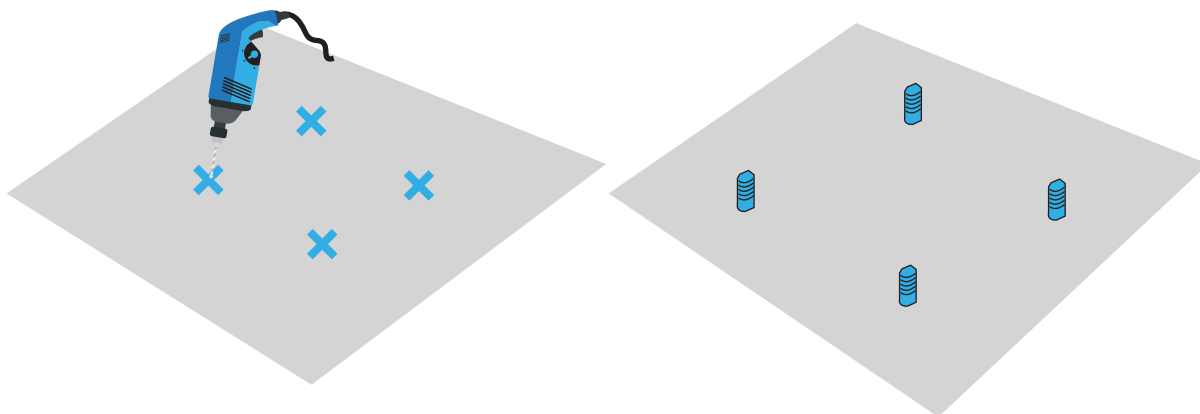
Planning Measurements and layout

1.2

Drill the holes for fixing the pergola to the floor using a drill hammer (bolts not included).



Install the base mounts according to the manufacturer's instructions for installing the mounting plates. **M10 screws (not supplied) or equivalent of at least AISI 304 (stainless steel) quality** are recommended.



For the assembly of invisible mounting plates, please see annex "Invisible Mounting Plates Installation", page 27-31

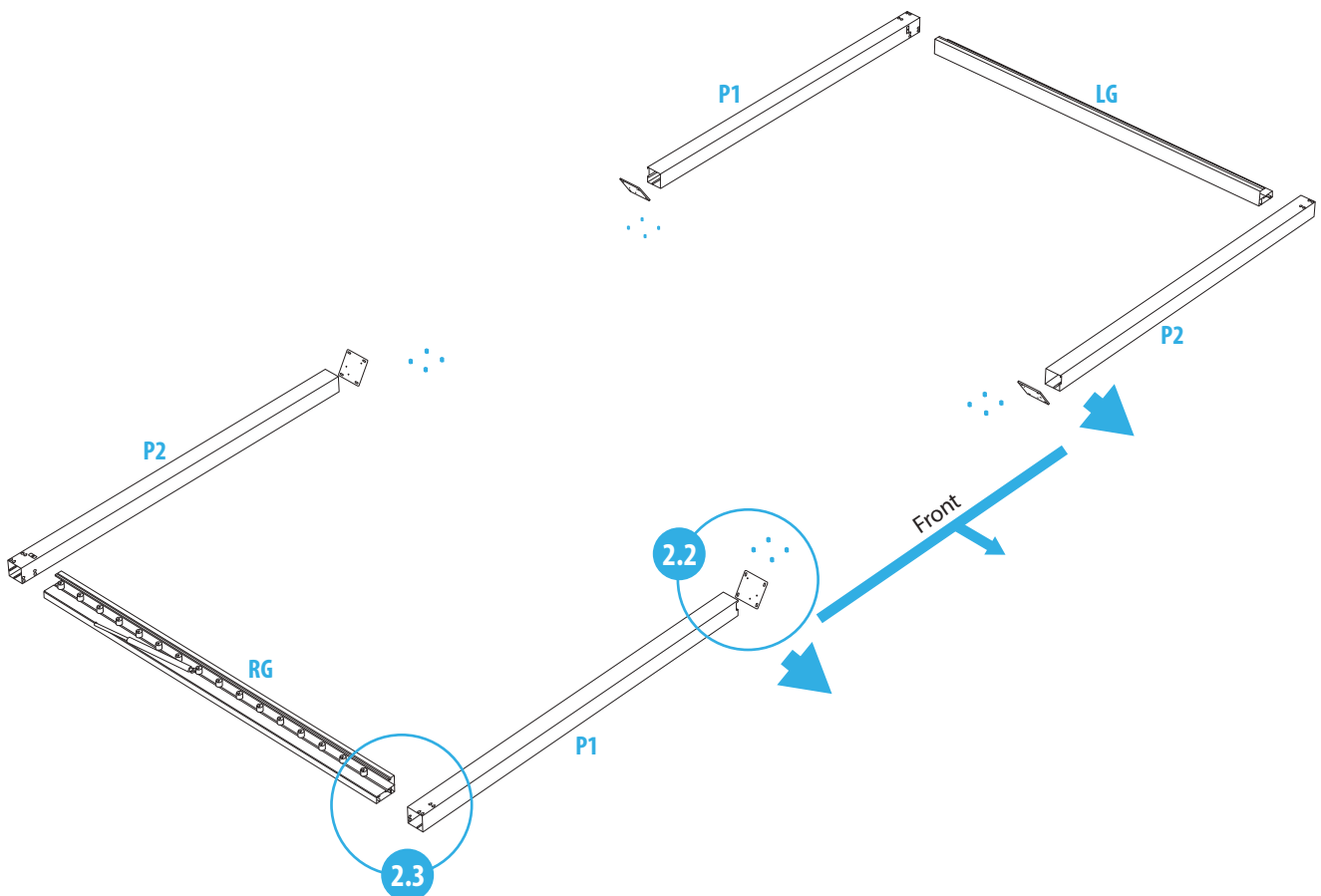
Installation

Assembly

2.1

Following the drawing and respecting the orientation, lay out the posts and gutter mounting plates on the ground (protect from scratches). Follow the assembly instructions:

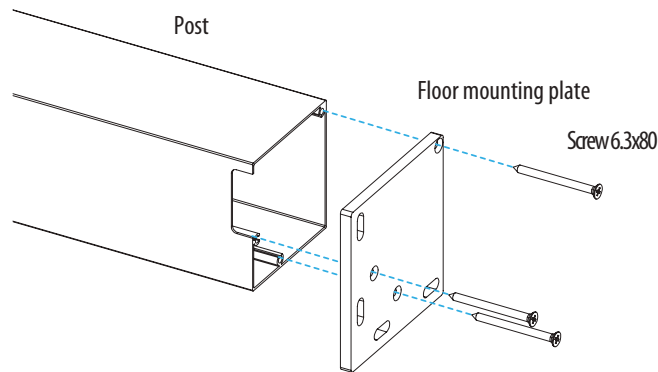
P2 + Right Gutter beam (RG) + P1 for the right side,
P1 + Left Gutter beam (LG) + P2 for the left side.



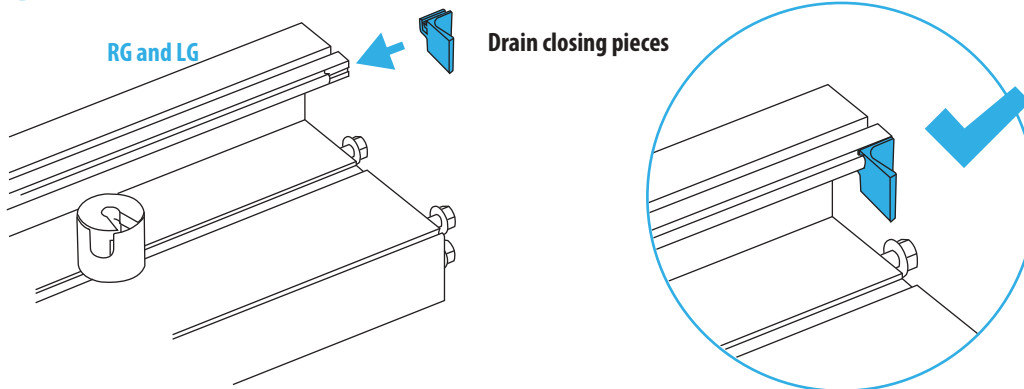
2

Installation Assembly

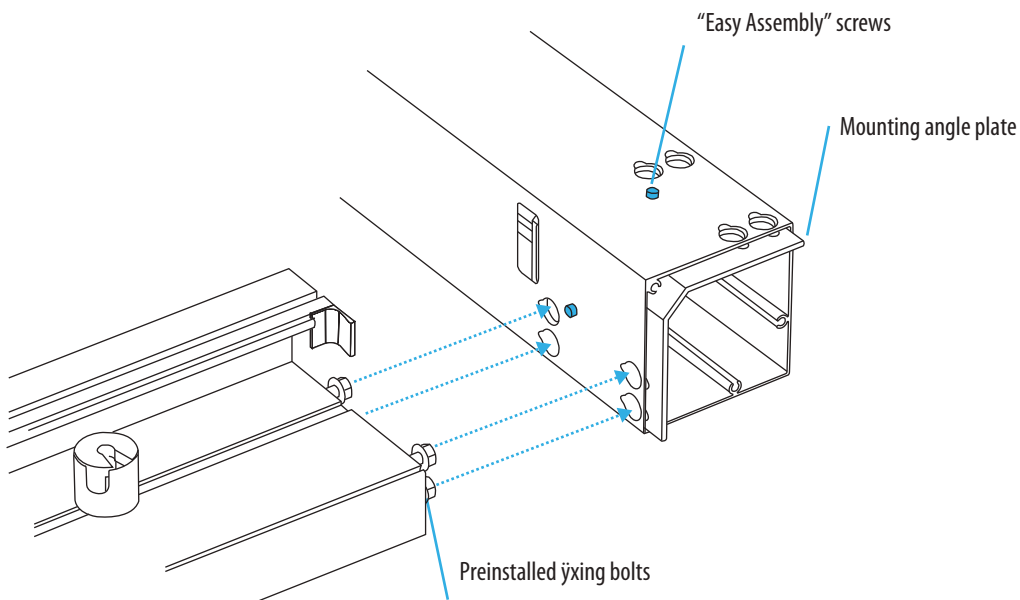
- 2.2** Screw a floor mounting plate to every post using a spanner compatible with PRX screws.



- 2.3** Before joining the beams, assemble the drain closing pieces in the left gutter beam (LG) and right gutter beam (RG), on the side of the front beam (FB).



- 2.4** Join the beam and the post by introducing the jxying bolts of the beam through the openings of the mounting angle plate of the post. These plates are kept in place by 2 "easy assembly" screws. They can be removed when indicated.



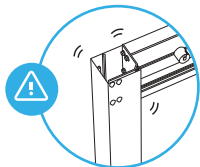
3

Installation

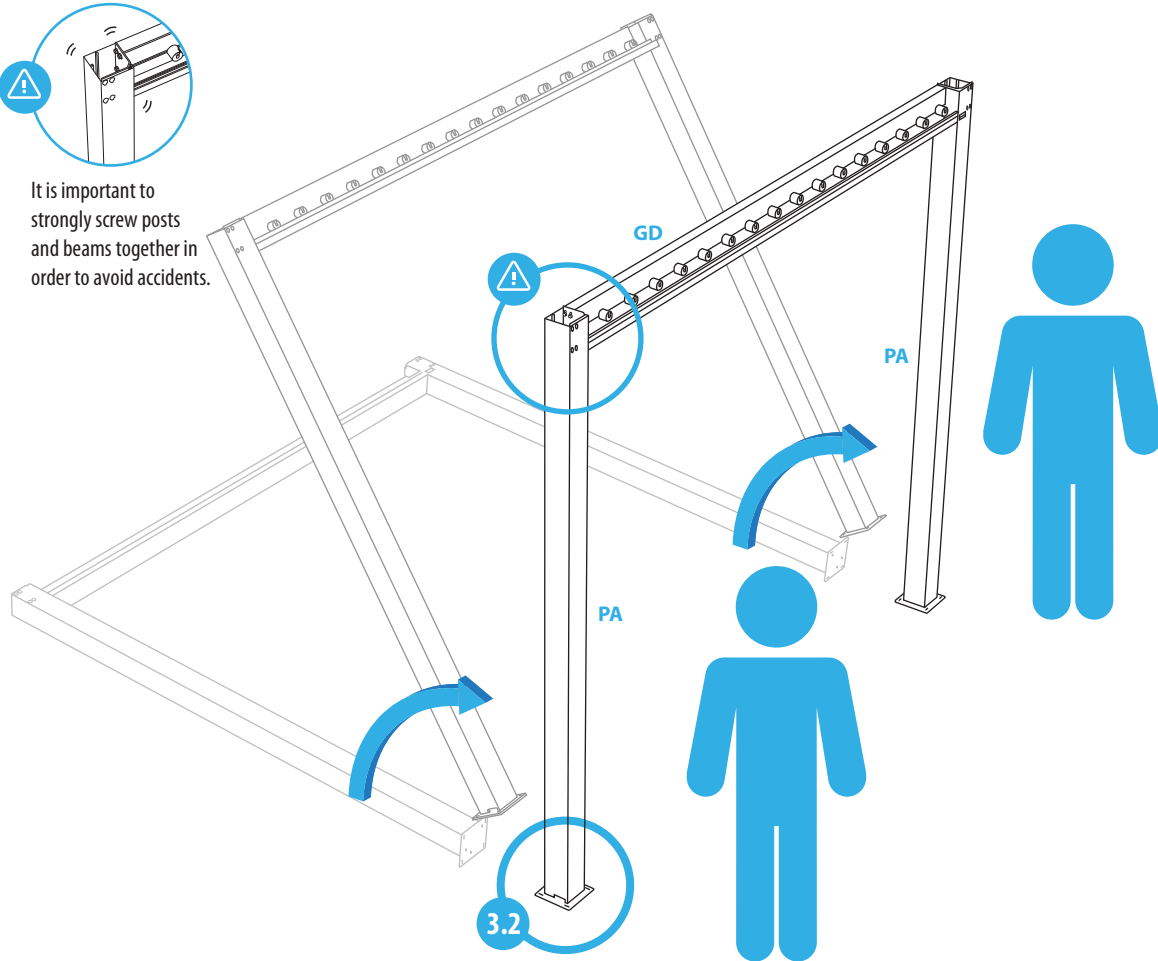
Fixing

3.1

Once the posts of both sides are assembled with their corresponding Gutter beams (P2 + Right Gutter beam (RG) + P1 & P1 + Left Gutter beam (LG) + P2), the frames can be lifted vertically, with a **minimum of 2 people**, on the preinstalled bolts. This operation will be carried out on both sides.



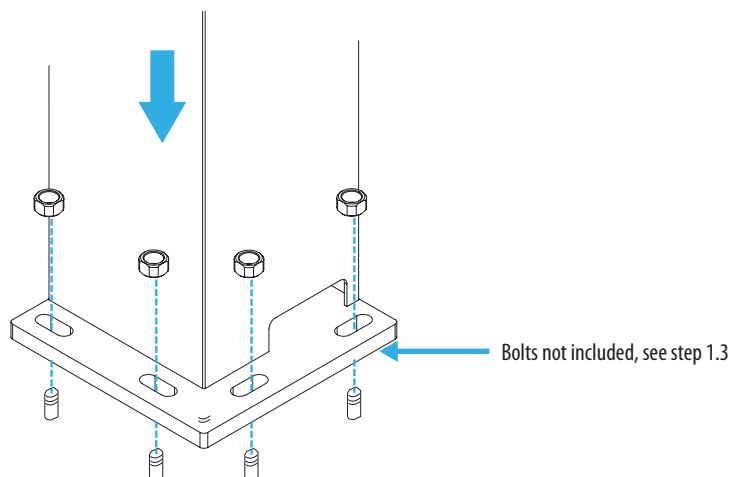
It is important to strongly screw posts and beams together in order to avoid accidents.



3.2

3.2

Bolt the floor mounting plates leaving enough space, as the posts will have to be readjusted.

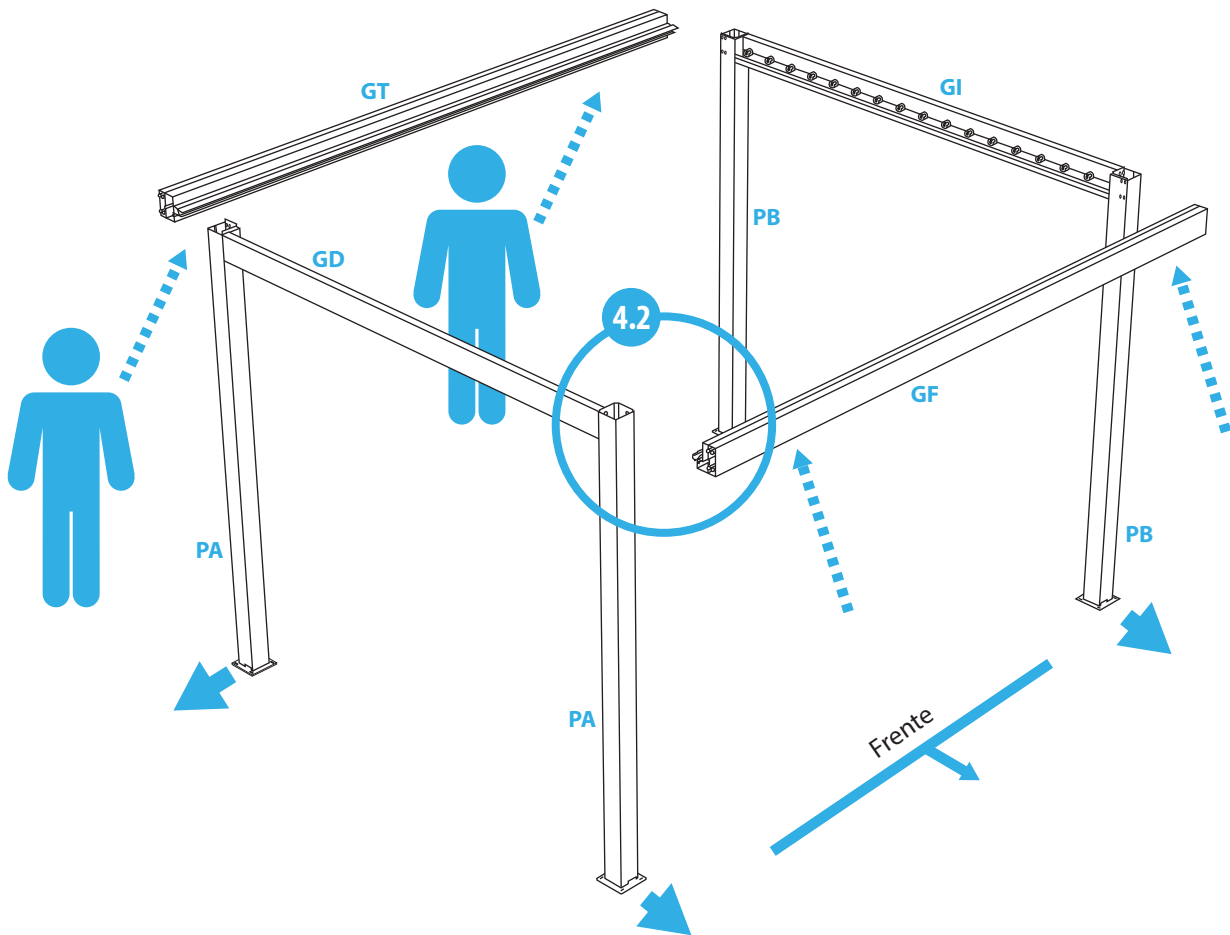


4

Installation Beams Assembly

4.1

Join the Front and Rear Beams (FB & RB) with the posts (see details step 4.2).

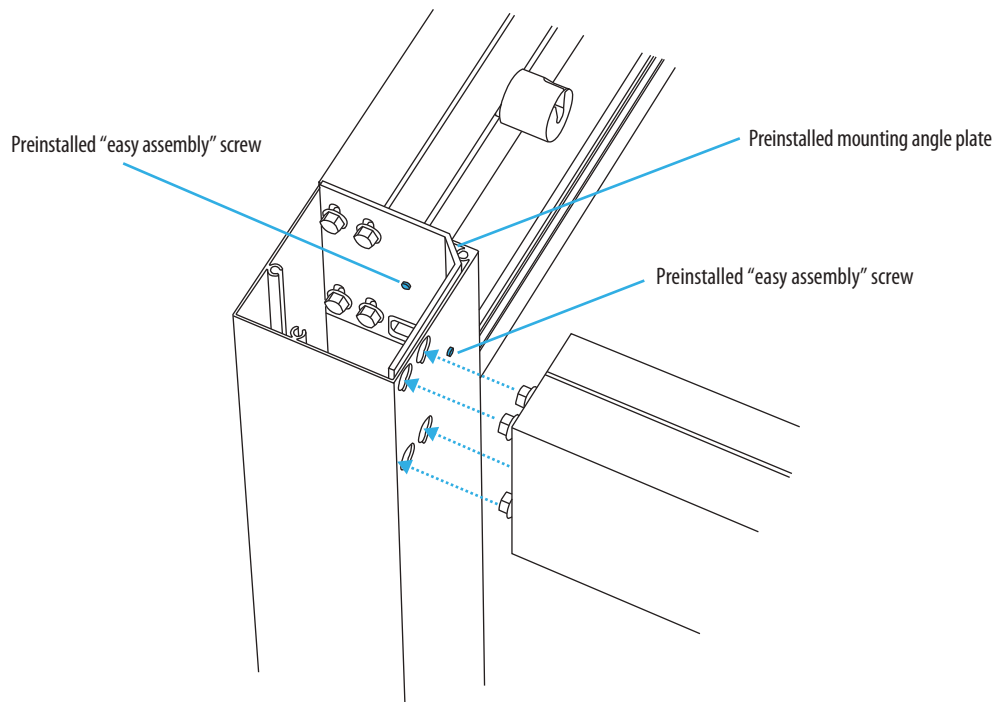


4

Installation Beams Assembly

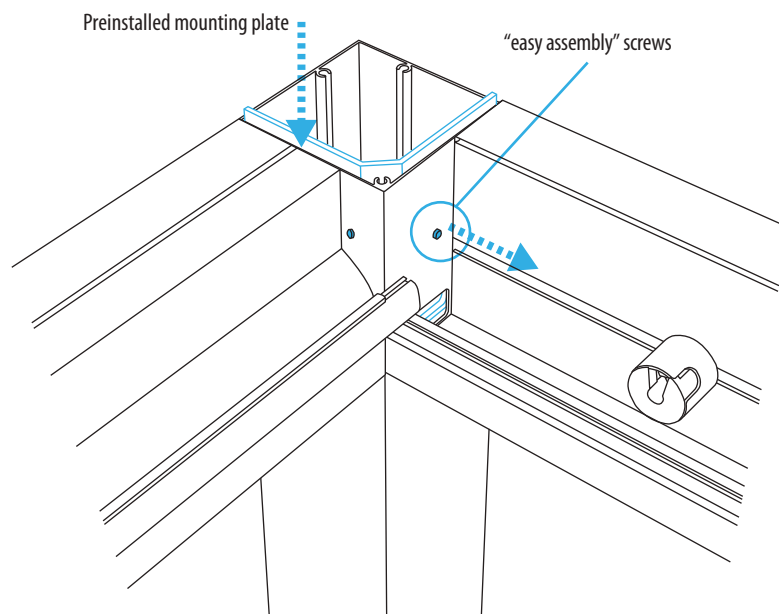
4.2

Assemble the Front and Rear Beams (FB & RB) with the posts by introducing the fixing bolts of the beam through the openings of the mounting angle plate of the post. These plates are kept in place by 2 "easy assembly" screws. They can be removed when indicated. Carry out this operation in every post.



4.3

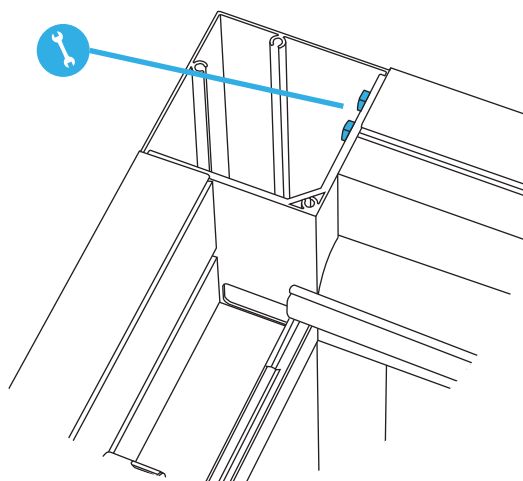
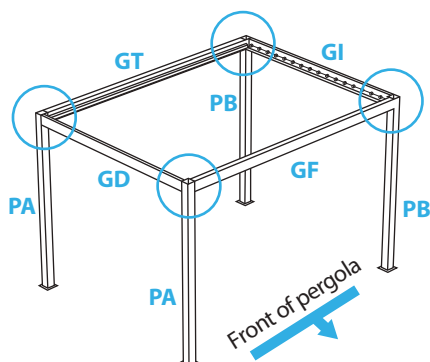
Remove the screws to aid installation to release the structure from its mount plate. This plate must slide downwards, leaving the pin closed with the screws.



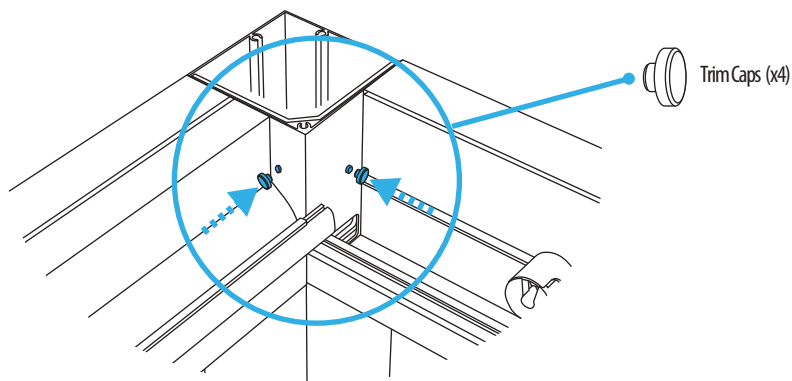
5

Installation Fixing the frame

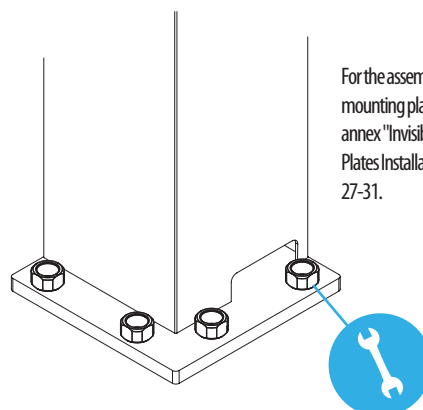
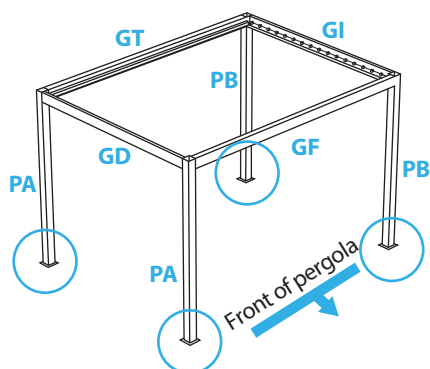
- 5.1** With the help of a spanner, firmly fasten the fixing bolts that join the beams to the posts.



- 5.2** Introduce the trim caps.



- 5.3** With help of a spanner, firmly fasten the fixing bolts of the floor mounting plates.

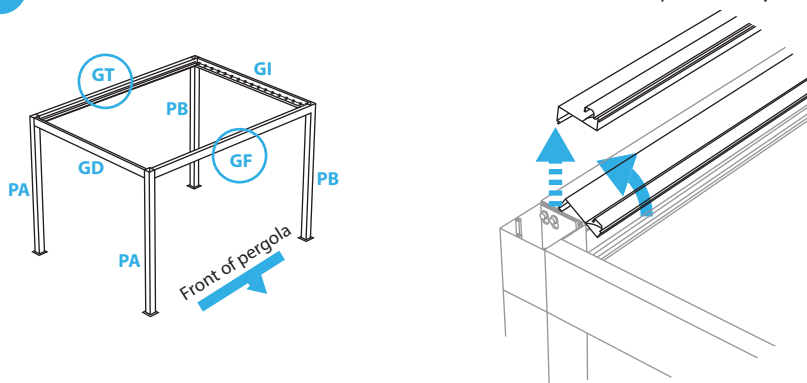


For the assembly of invisible mounting plates, please see annex "Invisible Mounting Plates Installation", page 27-31.

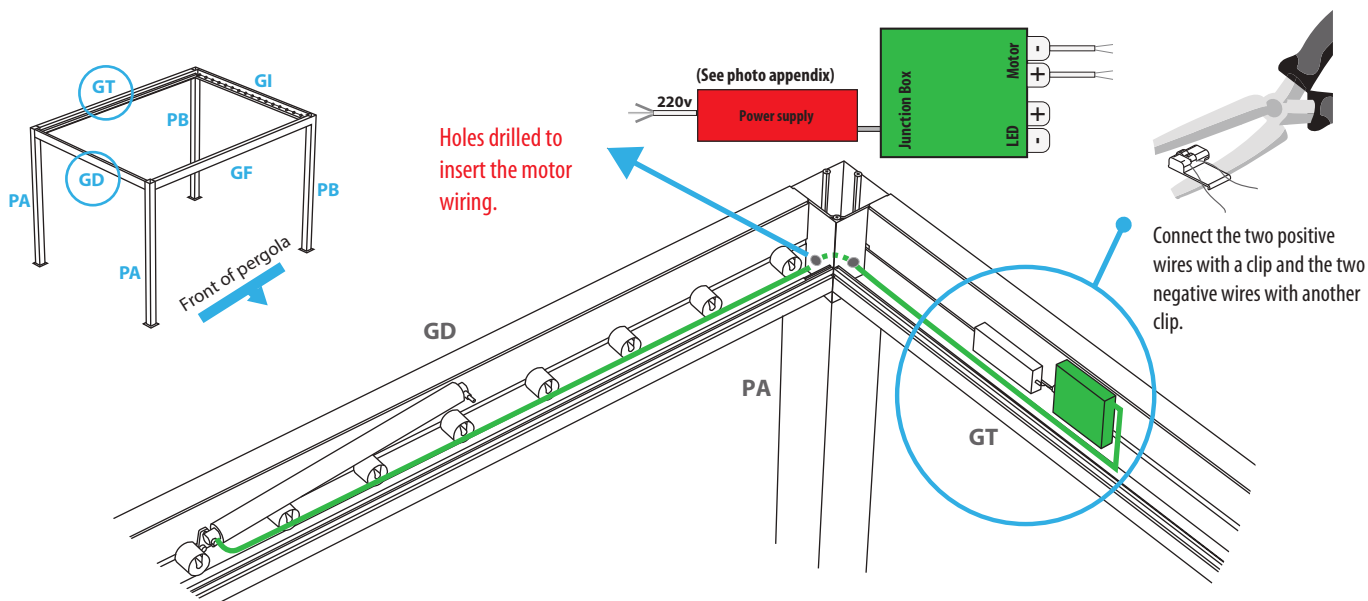
6

Installation Motorization & connection

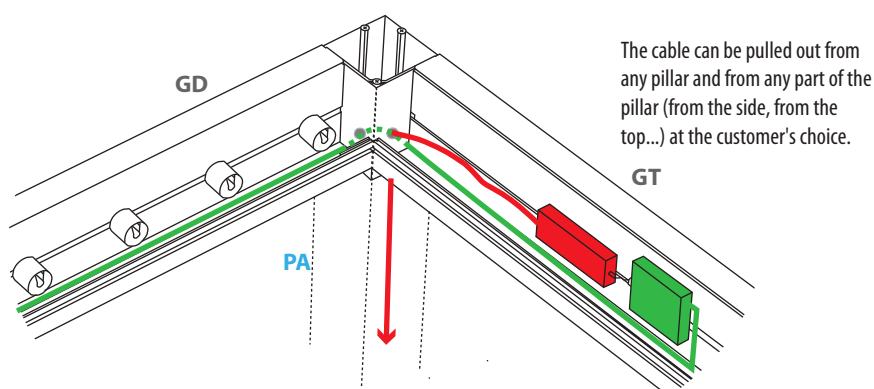
- 6.1** Remove the covers of the Rear and Front Beams (RB & FB), in order to access the space hidden by the covers.



- 6.2** Connection of the motor. The junction box and motor power supply are preinstalled on the Rear Beam (RB). Pass the cable from the motor piston alongside the gutter and through the openings of the post reserved for this purpose. Connect the cable to the junction box as indicated in the drawing.



- 6.3** **Electrical connection**
To pass the power cable, a hole is drilled manually in the desired area, depending on where the socket is located.



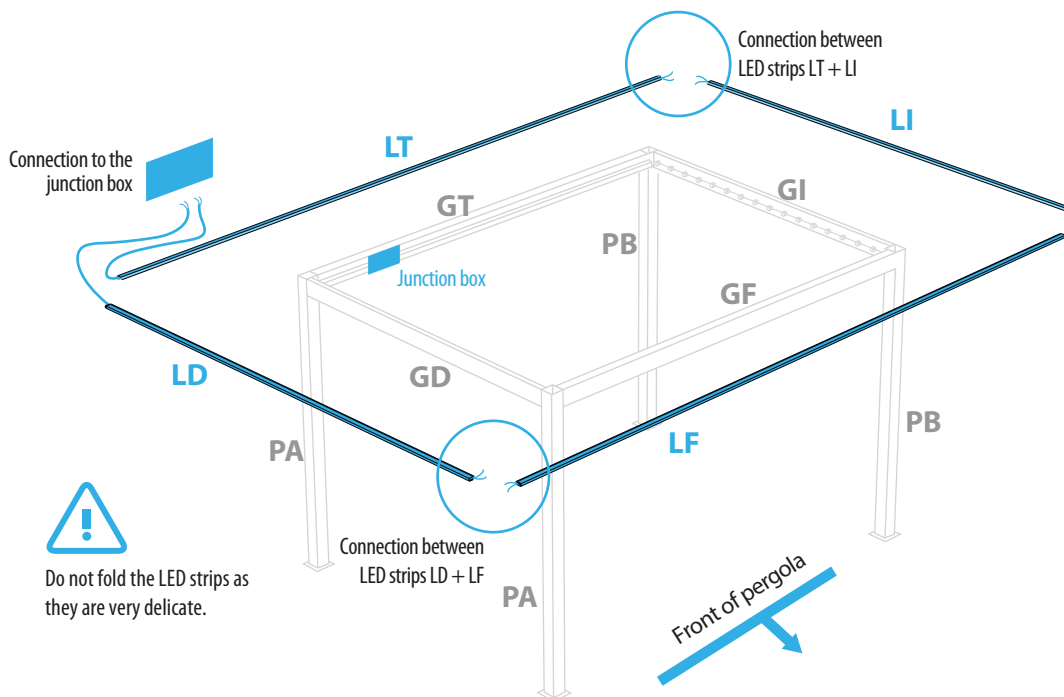
7

Installation

LED Lighting (Optional)

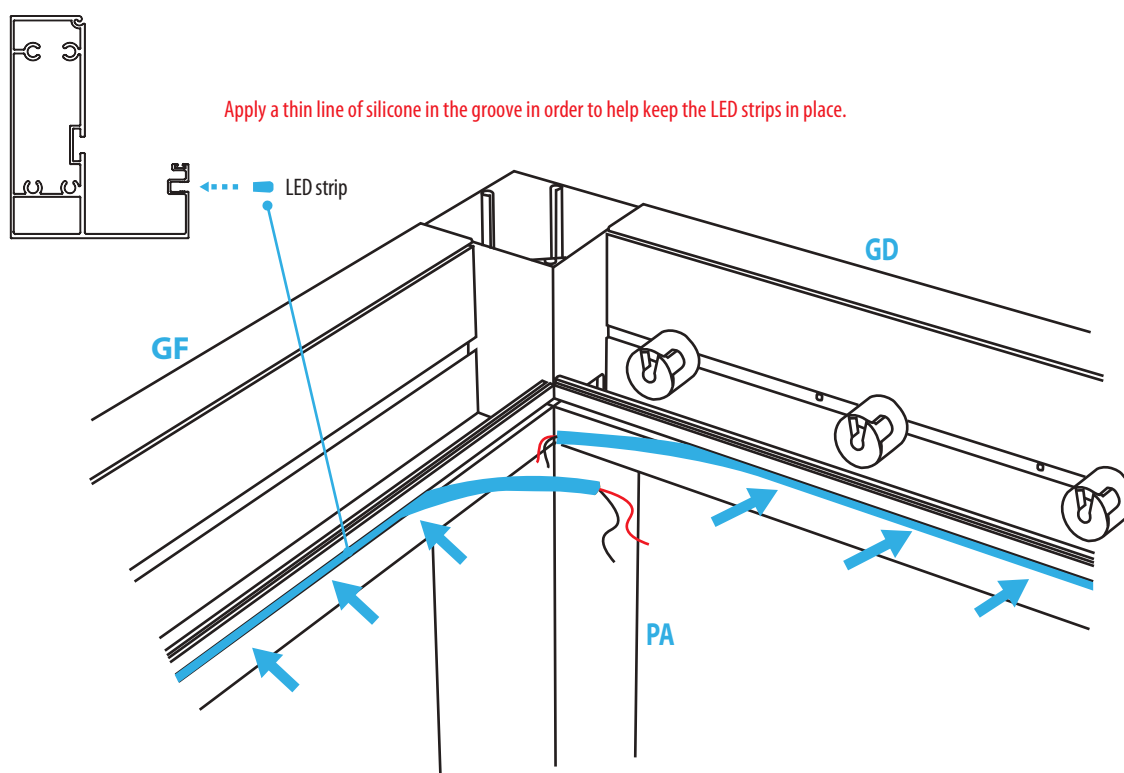
7.1

If your pergola disposes of LED lighting, every LED strip has to be installed in its corresponding groove in order to assure a correct connection. The strips are named to this end: LD + Right Gutter Beam (RG), LI + Left Gutter Beam (LG), LT + Rear Beam (RB), LF + Front Beam (FB).



7.2

Insert all the LED strips in their corresponding grooves.



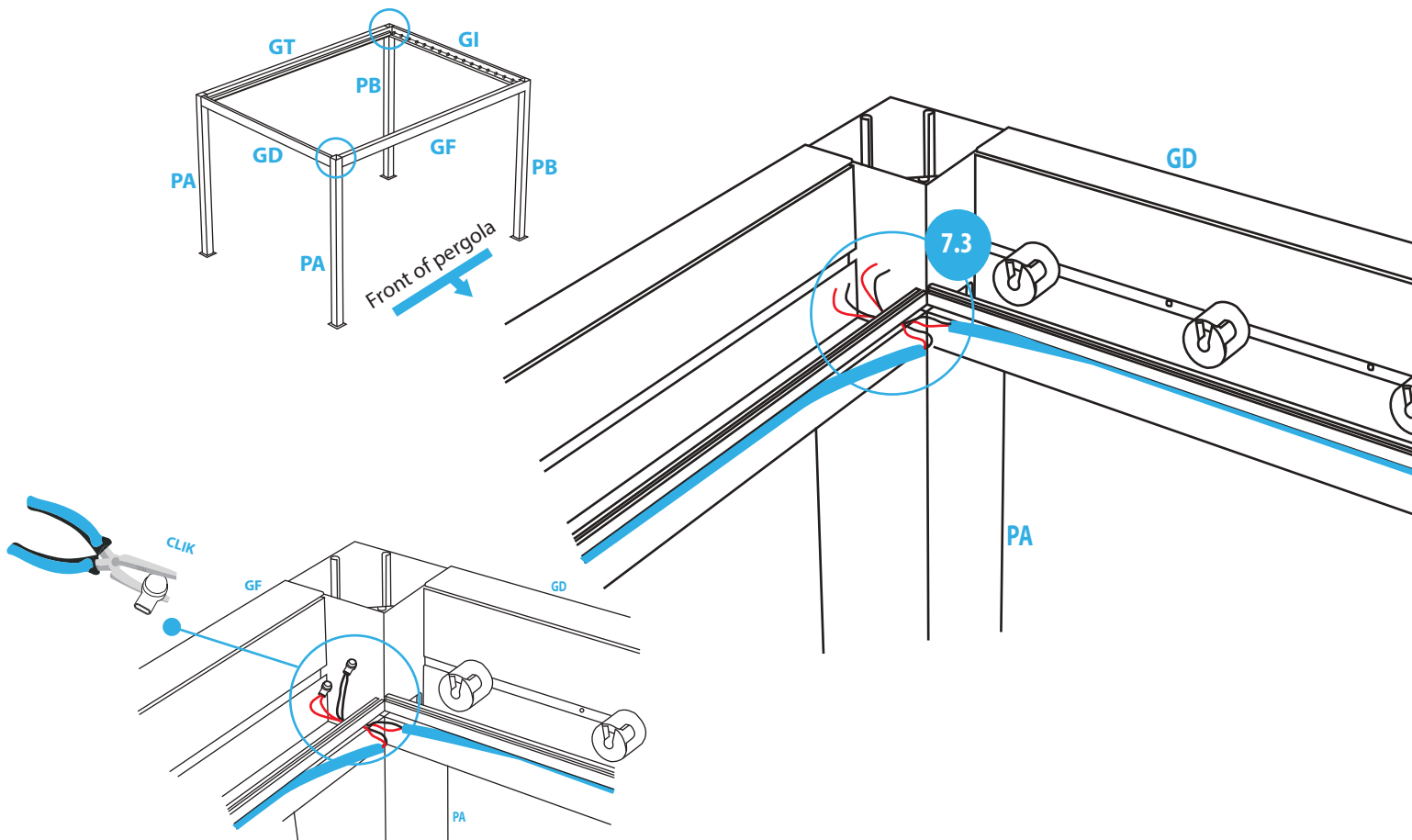
Installation

LED Lighting (Optional)

7.3

If your pergola includes the LED lighting system, every LED strip has to be installed in its corresponding groove so that they can connect properly.

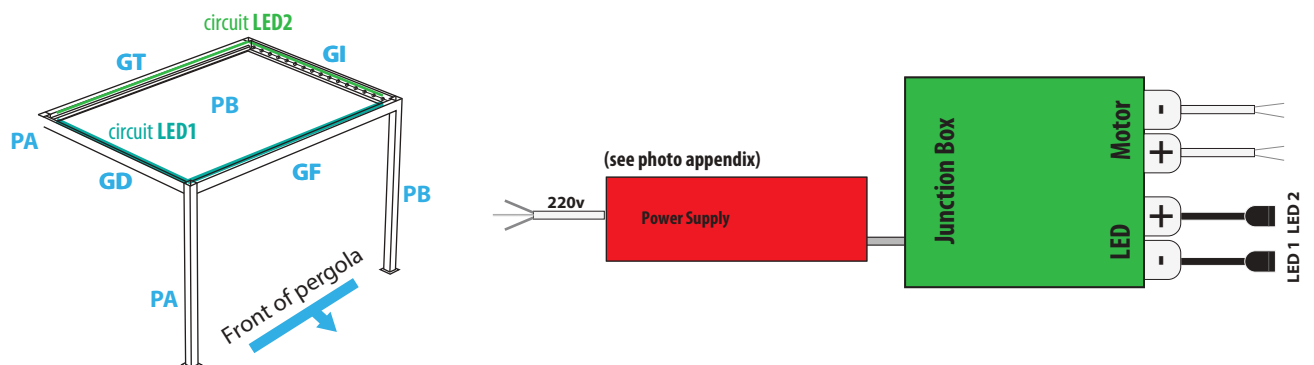
The cables must be passed through the drill holes already provided as shown in the illustration. This step must be carried out on both posts.



7.4

Connecting the LED lighting to the junction box

After completion of the previous steps, the connection to the junction box situated on the Rear Beam (RB) will be carried out.



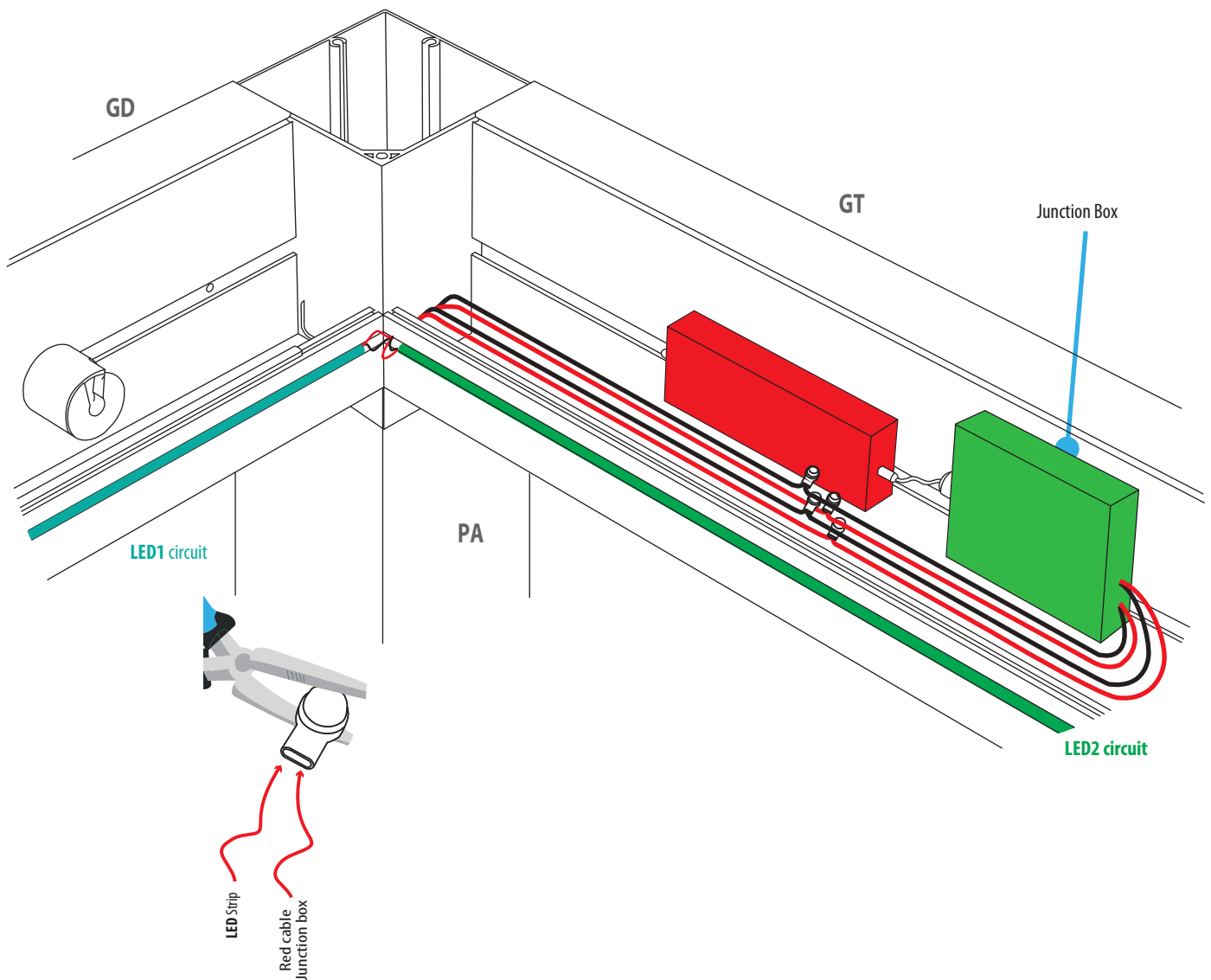
Installation

LED Lighting (Optional)

7.5

Connect all the LED strips to the junction box, using the splicing connectors which will be closed with a pair of pliers. The Rear Beam (RB) comes with a enough space that permits bringing the cables of the LED circuits to the connectors of the junction box.

LED 1 circuit is directly connected to the junction box and Led 2 circuit to the other connection. Always connect the black cable of the LED circuit with the black one of the junction box and the same applies for the two red cables.

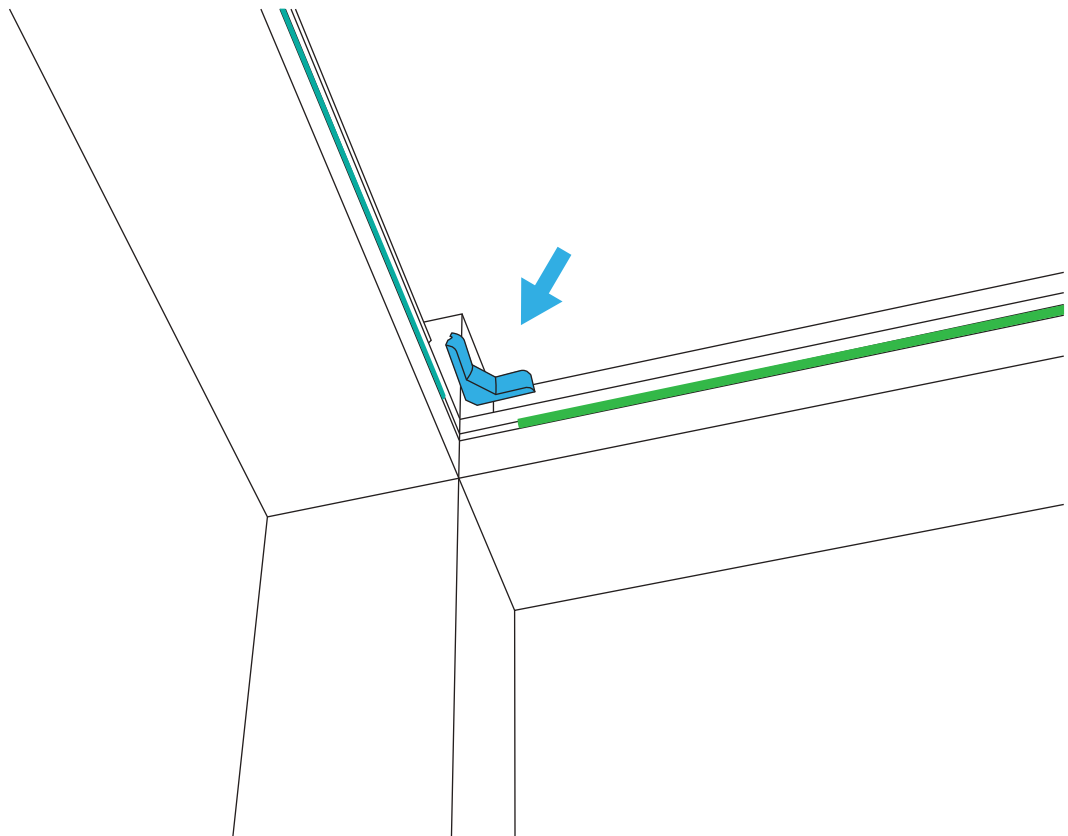
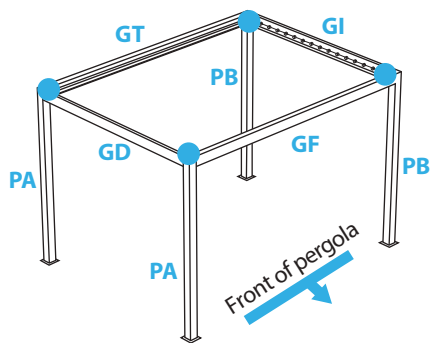


Installation

LED Lighting (Optional)

7.6

In order to complete the LED lighting installation, attach the closing pieces in the 4 corners. This will keep the LED strips in place and avoid water and dust to seep into.

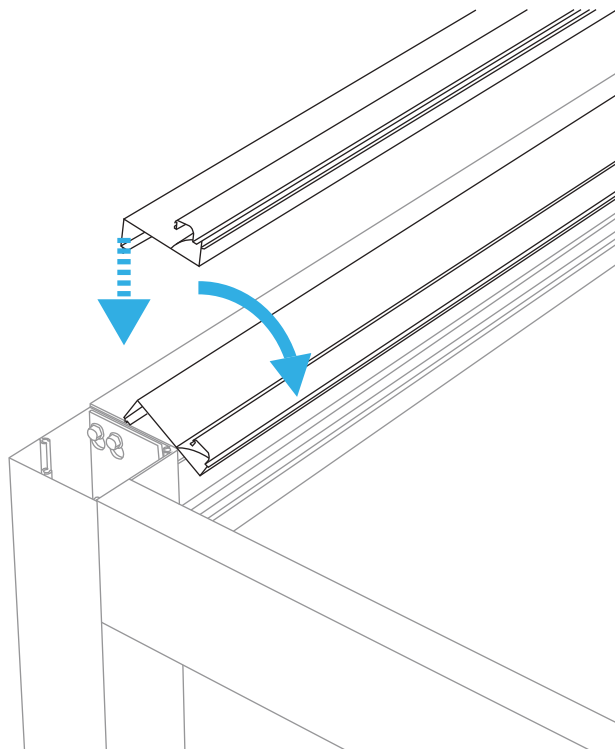
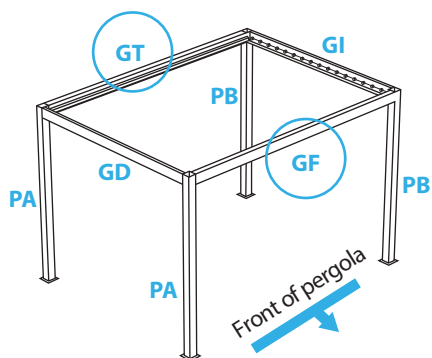


Installation

Sealing

8.1

Put back the covers of the Rear and Front Beams (RB & FB).

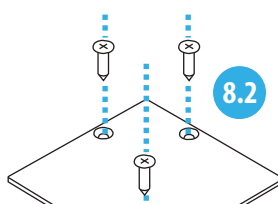
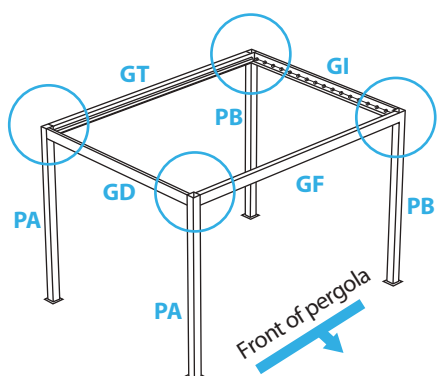


8.2

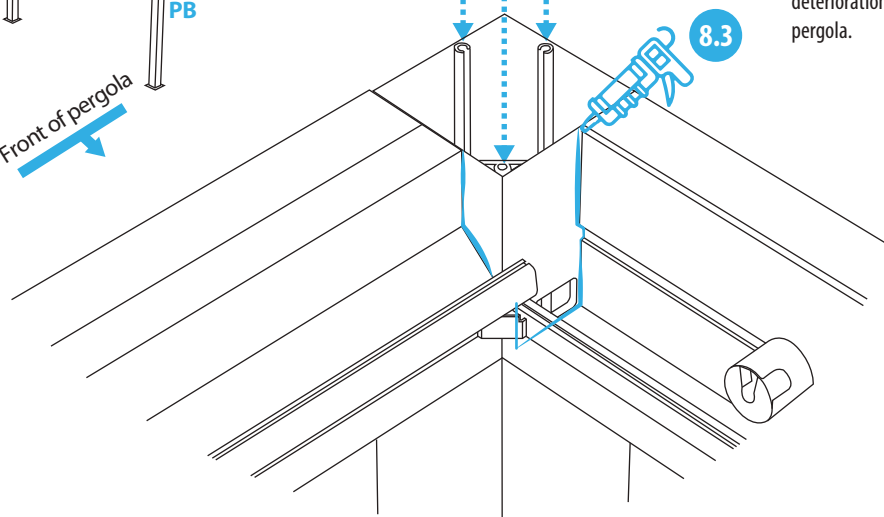
Fit the post covers and screw them firmly into their place.

8.3

Seal the joints between the different profiles using neutral transparent silicone (not included) in order to avoid water leakage.



It is important to seal the structure properly to prevent water from seeping in, which could lead to the deterioration of the pergola.

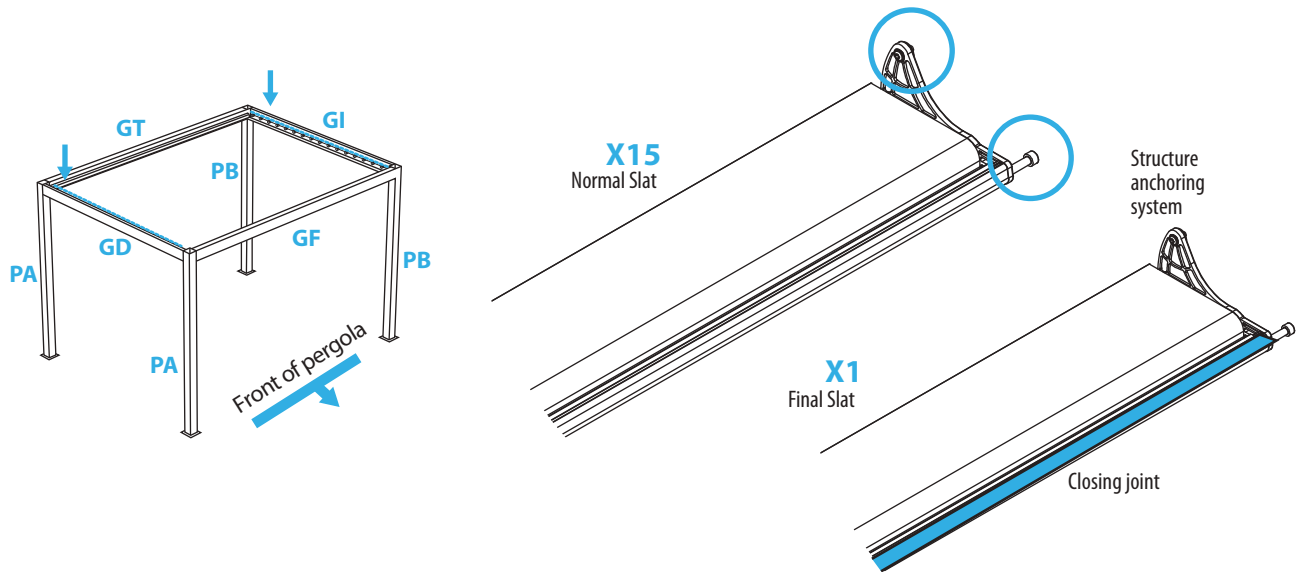


9

Installation Louvers

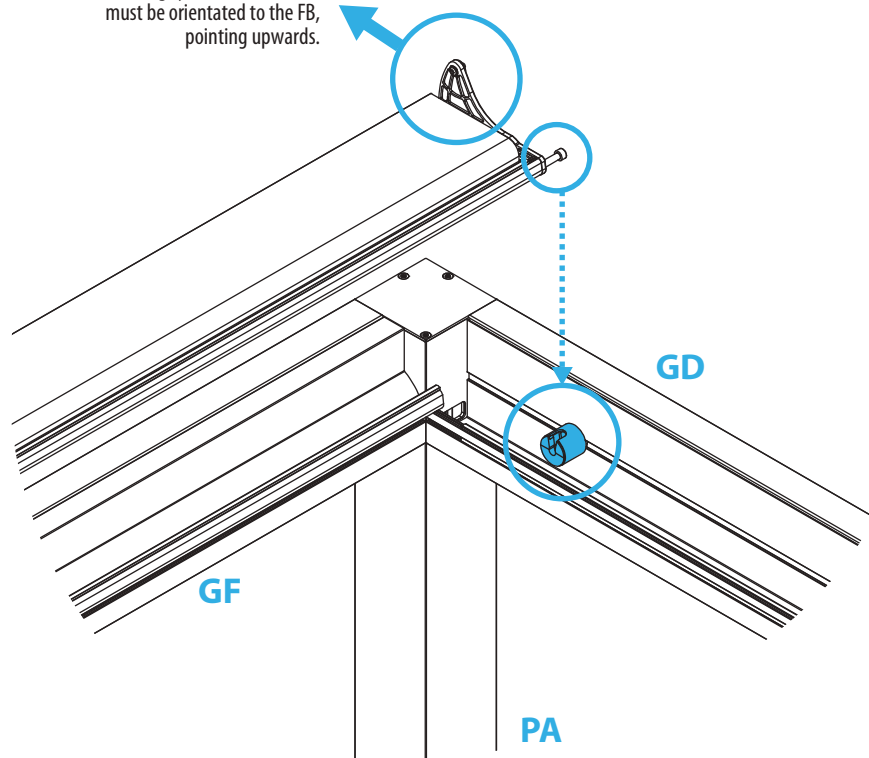
9.1

Set up the louvers as indicated in the drawing, making sure that they are correctly orientated.



9.2

The anchoring system of the louver must be orientated to the FB, pointing upwards.



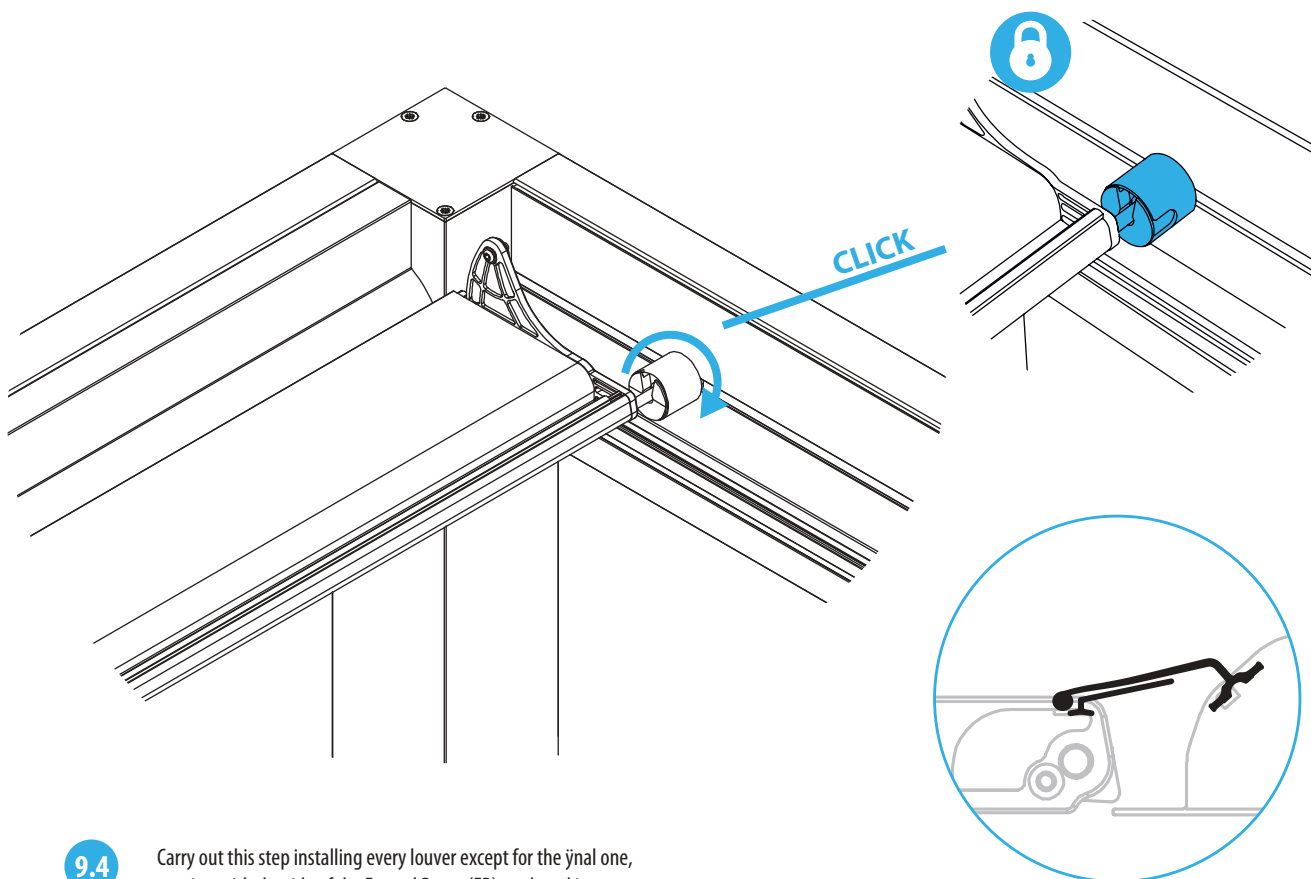
9

Installation

Louvers

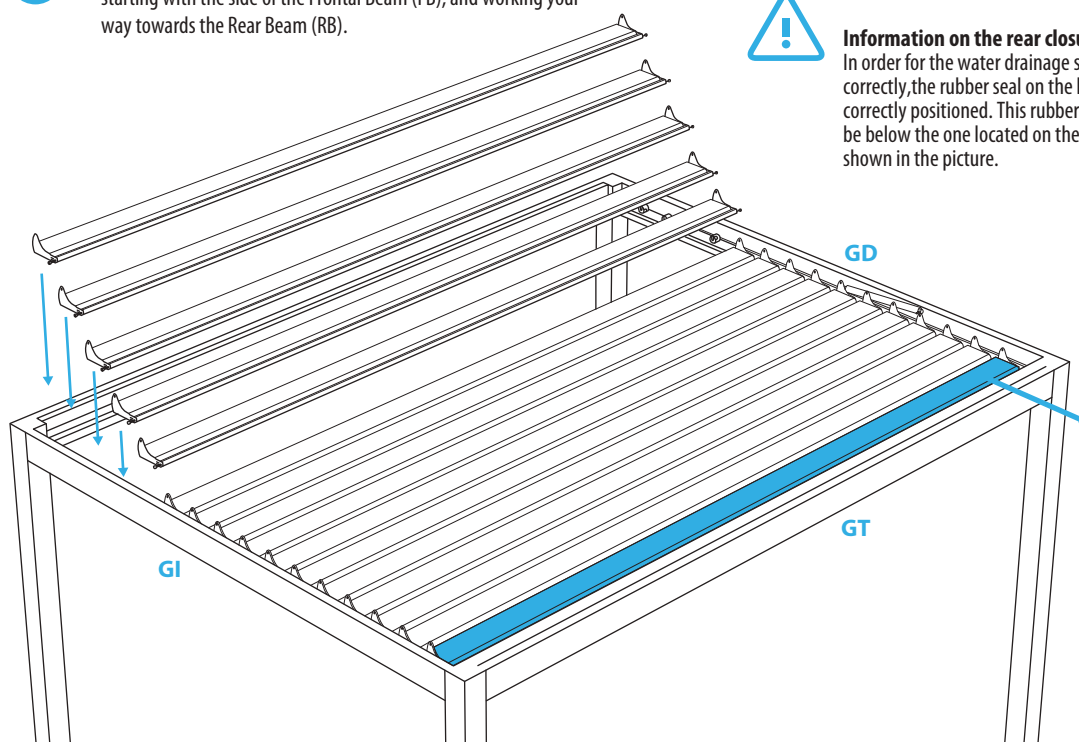
9.3

Turn the fixing piece as indicated in the drawing in order to fasten the louver to the frame of the pergola.



9.4

Carry out this step installing every louver except for the final one, starting with the side of the Frontal Beam (FB), and working your way towards the Rear Beam (RB).



Information on the rear closure:

In order for the water drainage system to function correctly, the rubber seal on the last slat must be correctly positioned. This rubber seal must always be below the one located on the Rear Beam (RB), as shown in the picture.



Spare the space next to the Rear Beam (RB) for the final slat.

Planning Transmission Rod

10.1

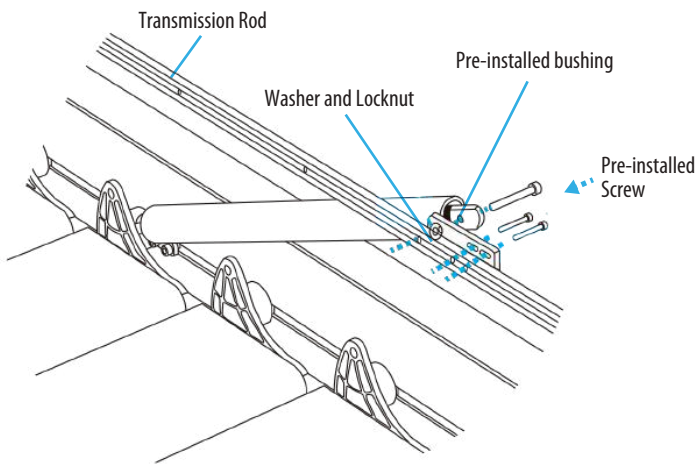
Transmission rod connection to motor:

The motor piston is located on the inner side of the Right Gutter Beam (RG). Correctly set the transmission rod: on one side, it is provided with drill holes ; on the other side, a single hole for the piston connection. Carry out the connection of the piston to the transmission rod by using the preinstalled screw, to be removed to complete this step as indicated in the drawing.



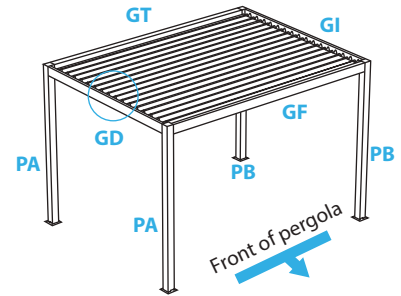
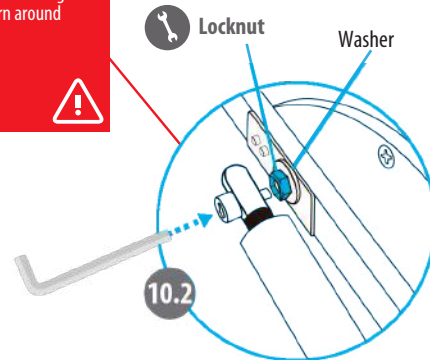
This mechanism is ytted with a locking ring nut which keeps the screw in place while the motor is in motion. Install it with an Allen spanner and an open-end spanner for fastening the screw and locking the ring nut in a way that the roller can still freely turn around (see drawing).

Piston



Bushing

Fasten in such a way that the bushing can still turn around freely.

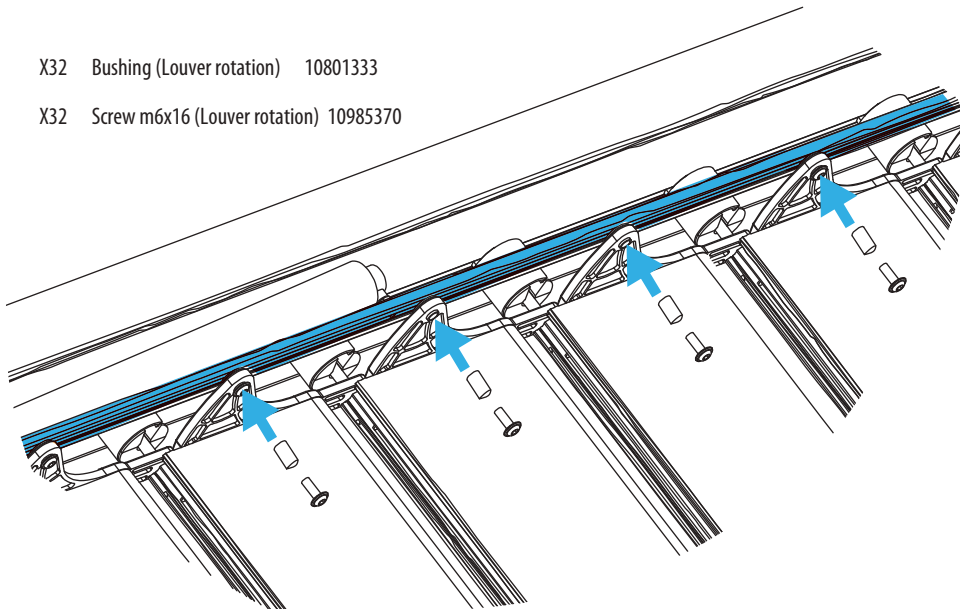


10.3

Transmission rod connection to louvers:

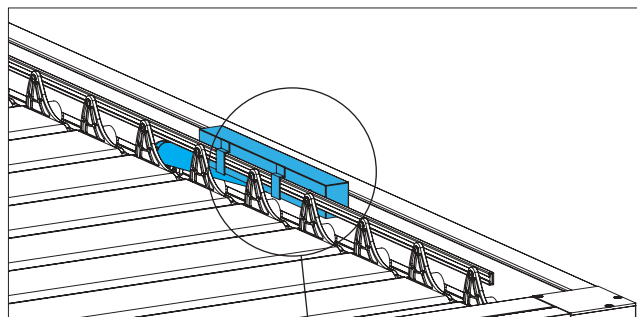
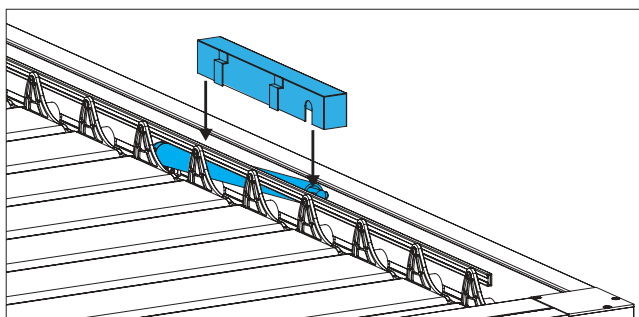
Once the piston is anchored to the transmission rod, set it up so that it connects each one of the louvers to the transmission rod by means of the hardware provided, as shown in the drawing. Repeat this step in both Gutter Beams (RG and LG).

-  X32 Bushing (Louver rotation) 10801333
-  X32 Screw m6x16 (Louver rotation) 10985370



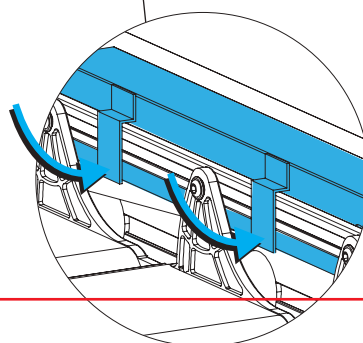
10.3 Motor guard installation:

To prevent water from seeping into the motor, fit the motor guard, leaving the rounded notch where the motor joins the transmission rod.



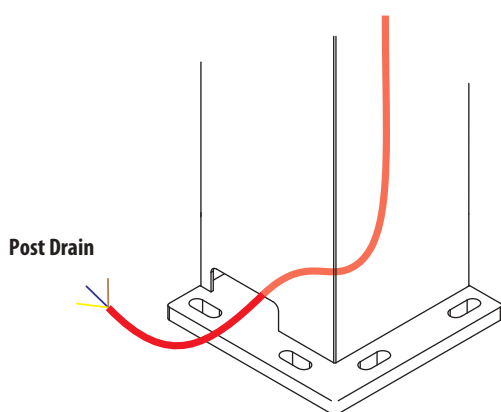
Attachment:

Tighten the fastening system to prevent the motor guard from accidentally moving.



1

Planning Wiring and Check



11.2 Checking if the pergola is functioning properly.

You can check if the pergola is operating properly by opening and closing the louvers to verify that the whole system has been correctly installed and adjusted. Also, please check that the LED lighting is working properly.

11.1 Connection to AC power.

Through the holes drilled in step 6.3, the pergola can be connected to a power outlet, allowing you to check the functioning of the pergola.

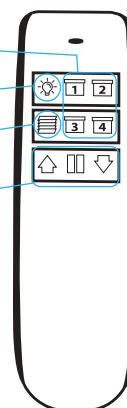
Remote control

Screens (1, 2, 3, 4)

Lighting

Louvers

Actuation
and regulation



Tips and maintenance



ASSEMBLY

In order to assure the smooth operation and durability of the pergola, we recommend a maintenance at least once a year, or more frequently if the pergola is exposed to aggressive climate conditions.

In order to prevent corrosion, we recommend cleaning the frame (gutter beams, front and rear beams, posts) with a neutral detergent at least once a year, or more frequently if the pergola is exposed to aggressive climate conditions (coastal zones, industrial & urban zones with a lot of suspended dust particles in the air, etc).

Rinse thoroughly with water after cleaning in order to avoid salt formation on the surface of the frame of the pergola.

By eliminating exogenous agents capable of attacking the finish and aluminium frame, a thorough and periodic cleaning extends the life of the frame and the aesthetic look of the pergola.

After heavy rain, do not open the slats to the maximum, but only open the slats at 45° for one minute to allow the excess water to drain away.

This will prevent any water that has accumulated on the slats from falling inside.

ANNEX

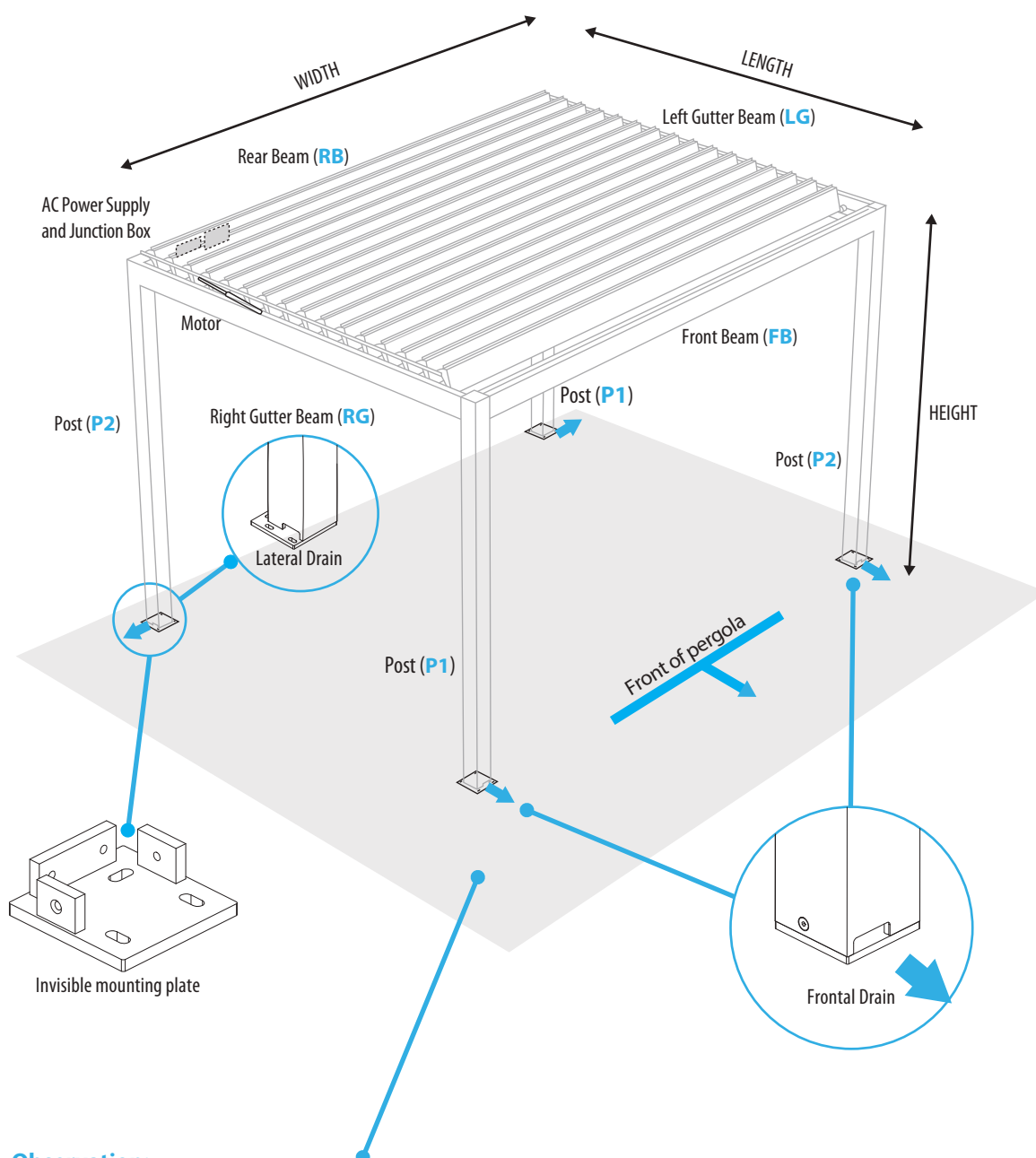
INVISIBLE MOUNTING PLATES INSTALLATION

ANNEX

Invisible Mounting Plates Installation

1.1

Lay out the floor mounting plates on the ground where the posts will be installed. The rainwater drains of the 2 frontal posts should face towards the front of the pergola, the ones of the rear posts towards the outside. The orientation of the floor mounting plates is thus conditioned by the positioning of the posts.



Observation:

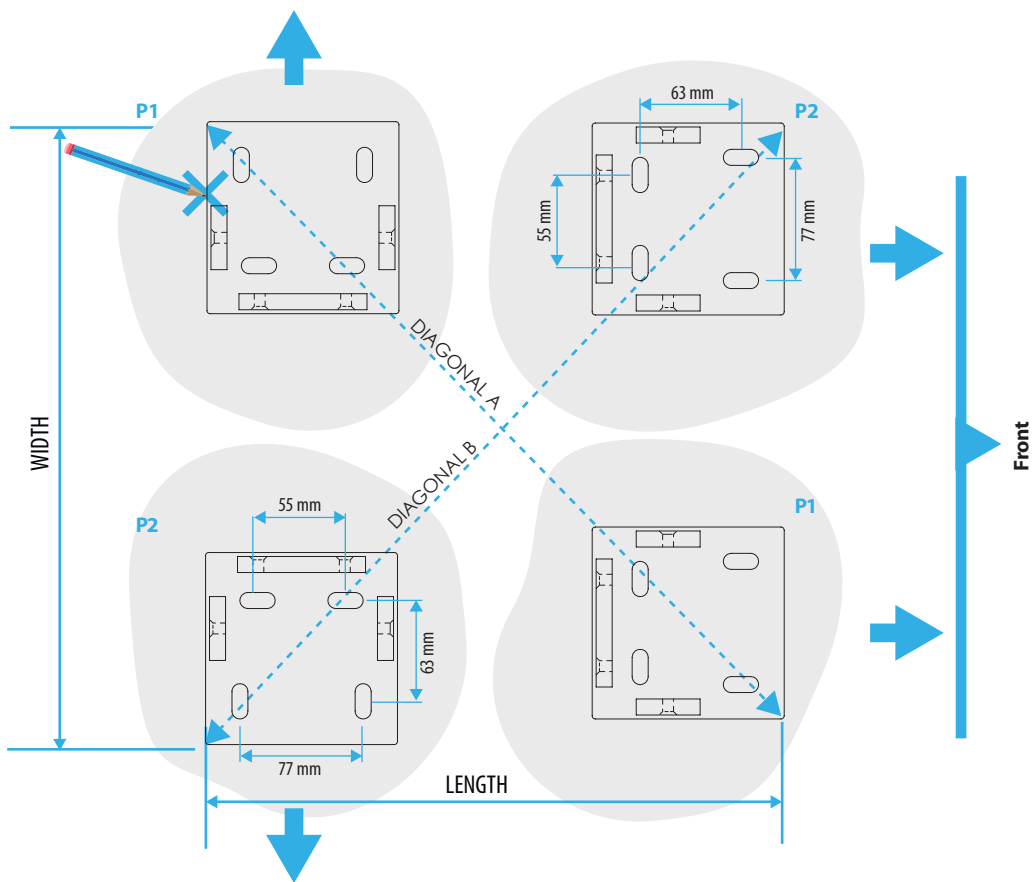
We recommend to assemble the pergola on a reinforced concrete slab with a minimum thickness of 150 mm (or an equivalent surface).

ANNEX

Invisible Mounting Plates Installation

1.2

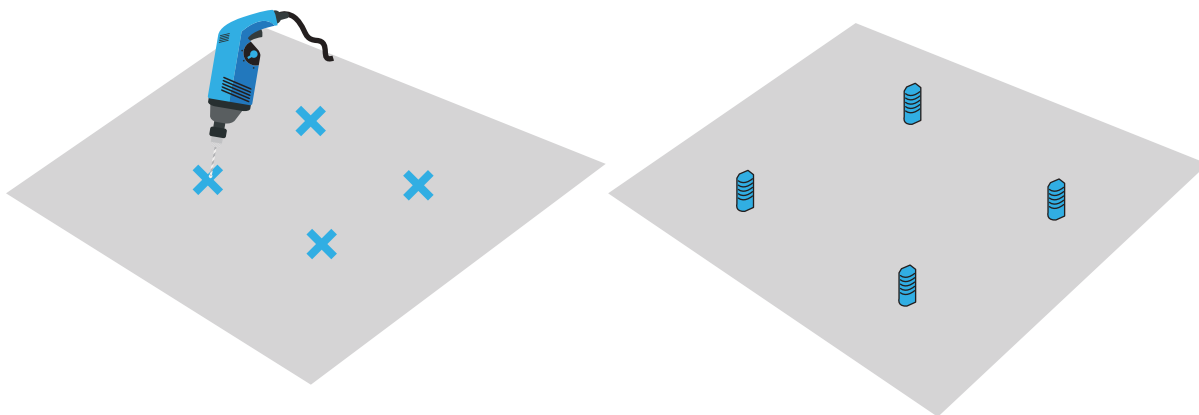
With the help of a drill, drill the holes to place the appropriate screws for fastening the pergola. (Fastening screws are not included).



Mounting Plate

Install the base fasteners following the manufacturer's instructions for its installation.

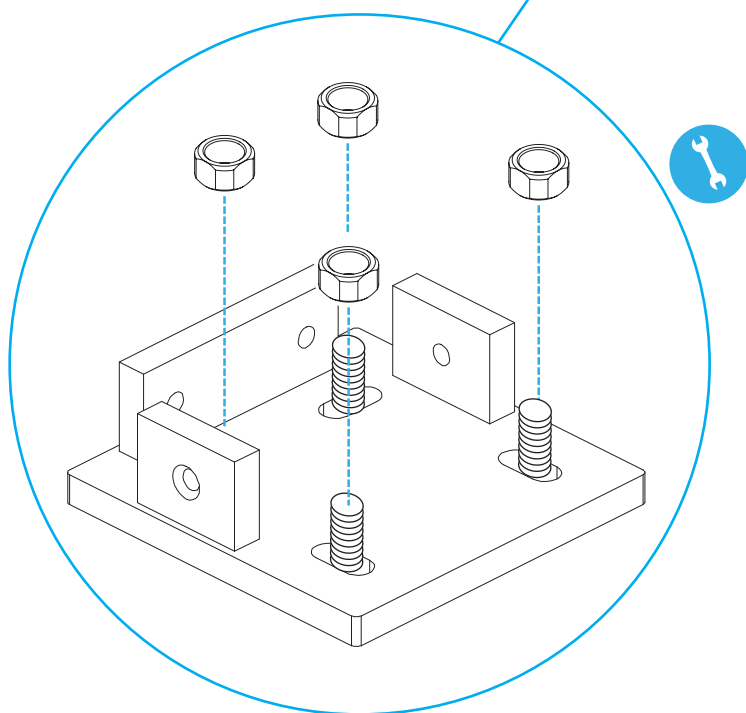
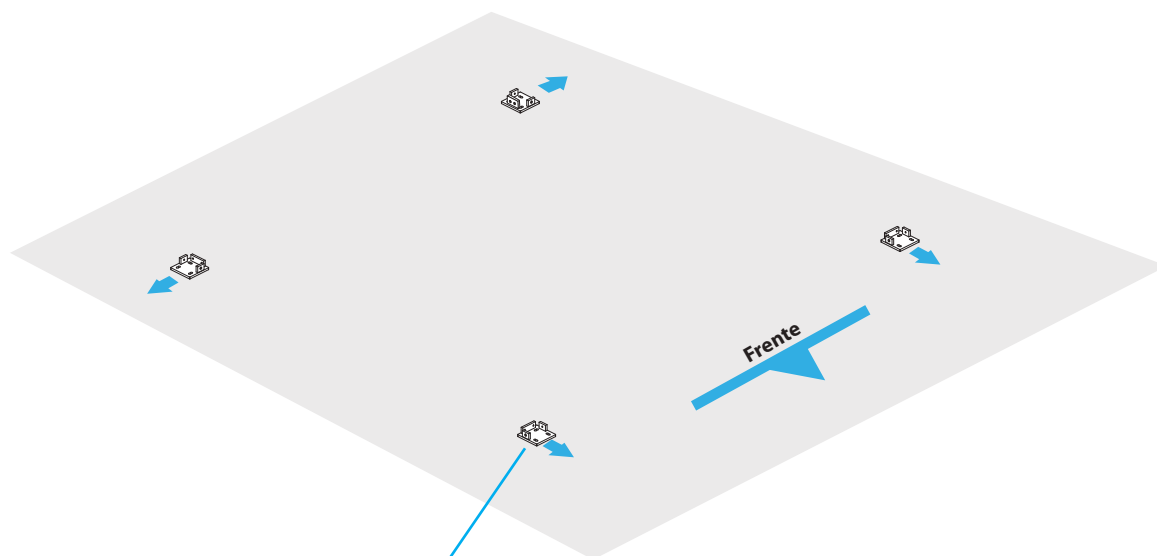
We recommend to use M10 type bolts, or at least equivalent to an AISI 304 quality (stainless steel).



ANNEX

Invisible Mounting Plates Installation

- 2.1** Atendiendo a la ilustración y la orientación para la instalación de la pérgola, presenta las patas y las guías en el suelo y sigue las instrucciones para la fijación de estas piezas.



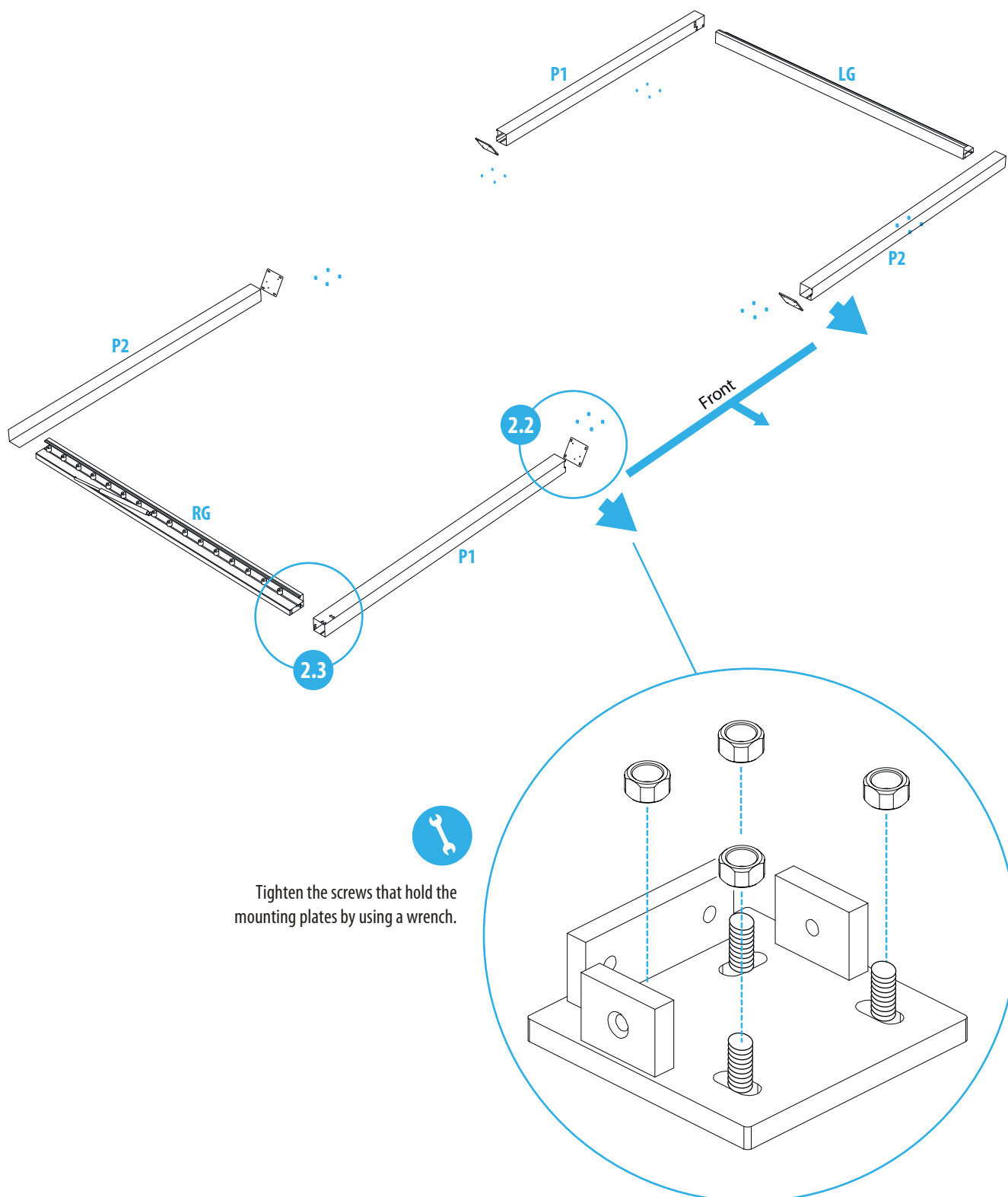
- 2.2** Con ayuda de una llave inglesa, se aprietan los tornillos que fijan los soportes suelo.

ANNEX

Invisible Mounting Plates Installation

3.1

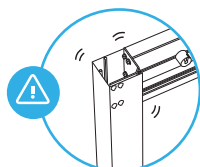
Following the drawing and respecting the orientation, lay out the posts and °oor mounting plates on the ground (protect from scratches). Follow the assembly instructions: P1 + RG + P2 for the right side and P2 + LG + P1 for the left side.



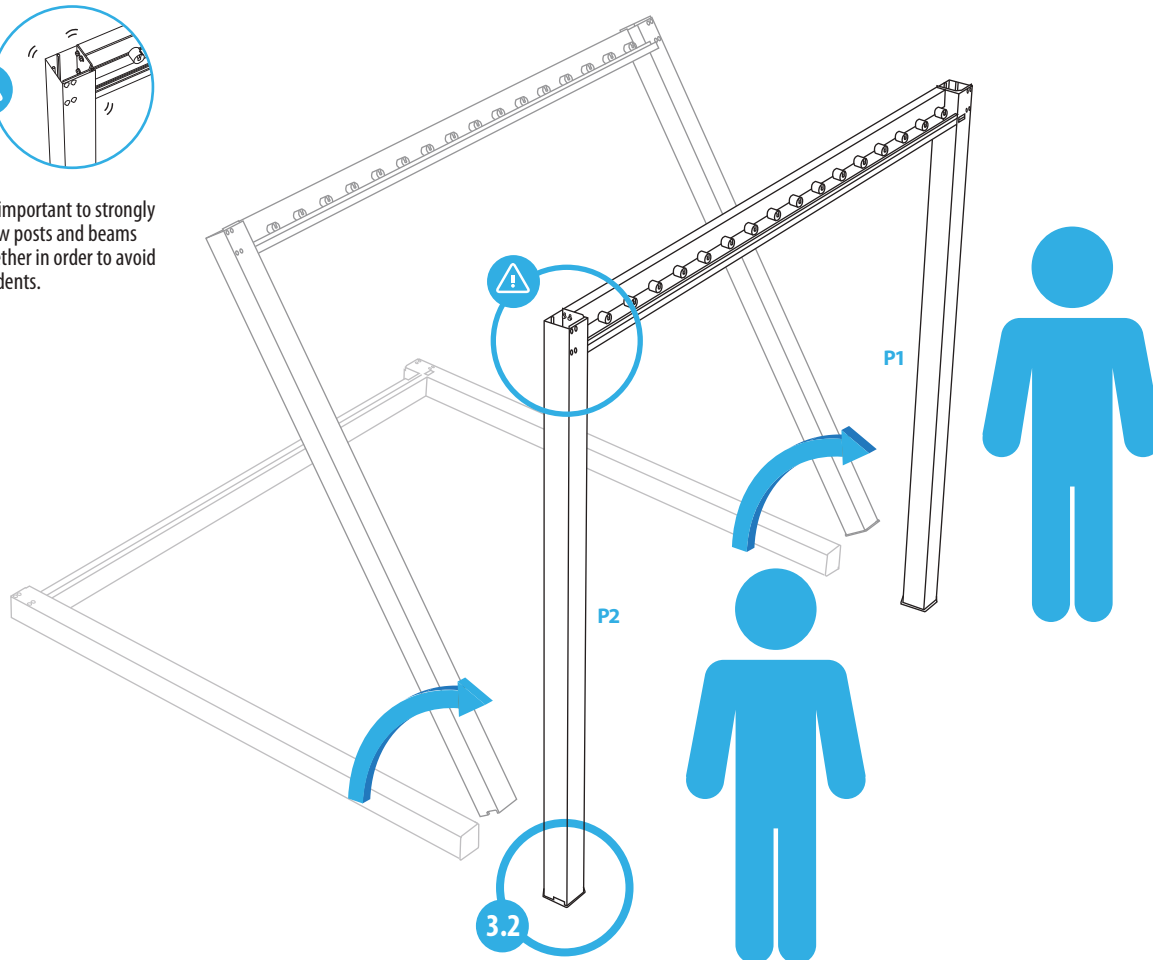
ANNEX

Invisible Mounting Plates Installation

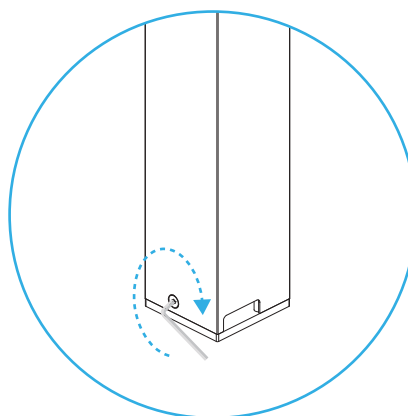
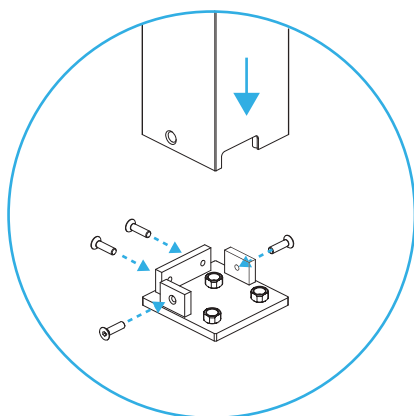
- 3.1** Once the mounting plates of both sides are correctly fixed, each post will be installed on its corresponding plate.



It is important to strongly screw posts and beams together in order to avoid accidents.



- 3.2** Insert the post into the mounting plate and tighten the 4 screws by using an Allen wrench.



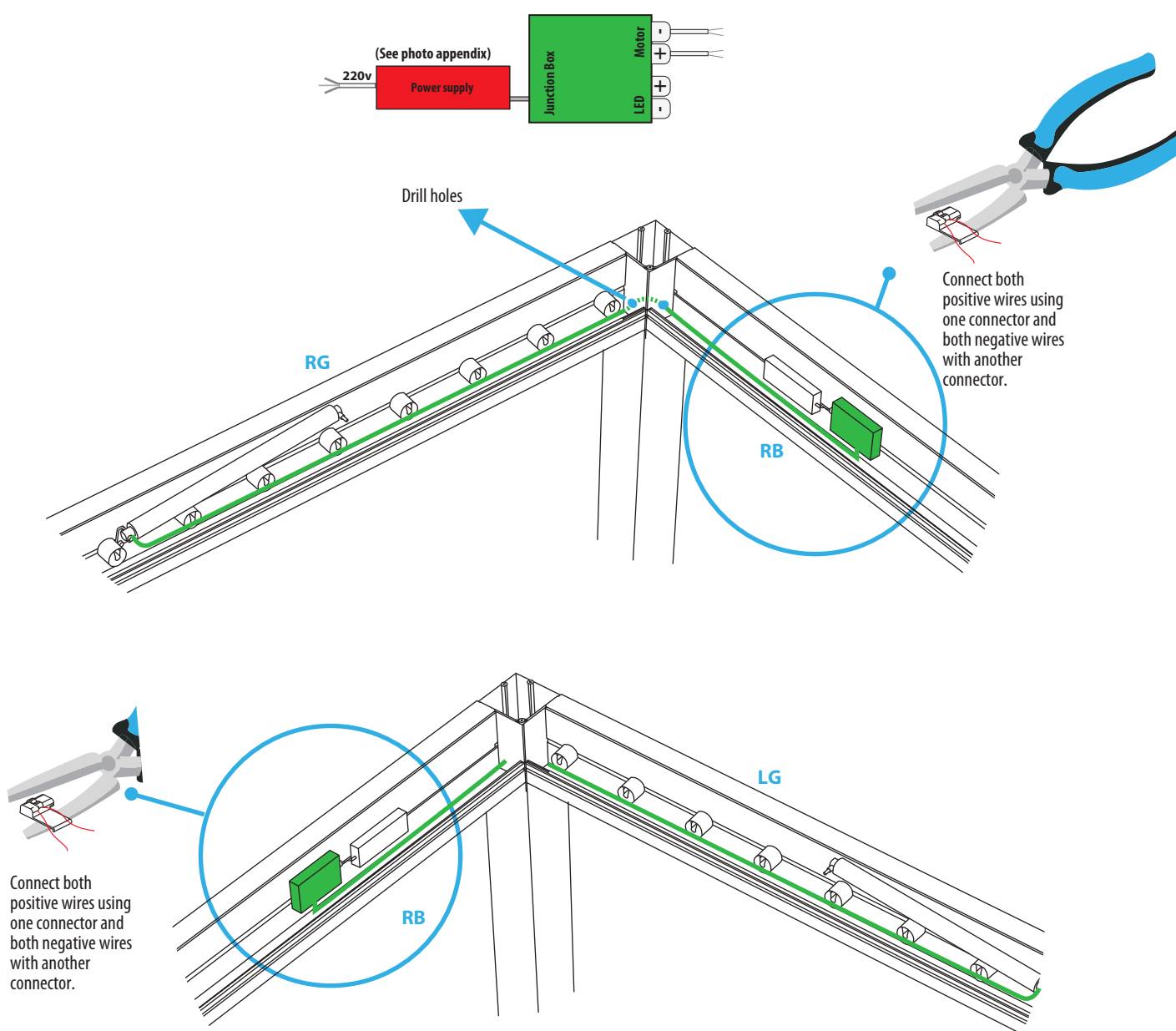
ANNEX **DOUBLE MOTOR INSTALLATION**

ANNEX

DOUBLE MOTOR

When the pergola area is more than 12 m² per module, it is equipped with 2 motors. Connect both motors by following the instructions below:

Motor connection. The junction box and power supply are pre-installed in the rear beams (GT). Pass the cables from the motor piston through the gutter and the post drill holes provided for this purpose. Connect the cables to the junction box's splicing connectors.



ANNEX
**REMOTE CONTROL AND
JUNCTION BOX**

Annex

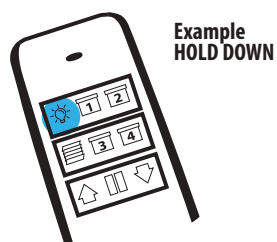
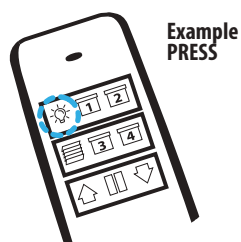
Controller



Annex Controller

Remote Control Synchronization and Setup

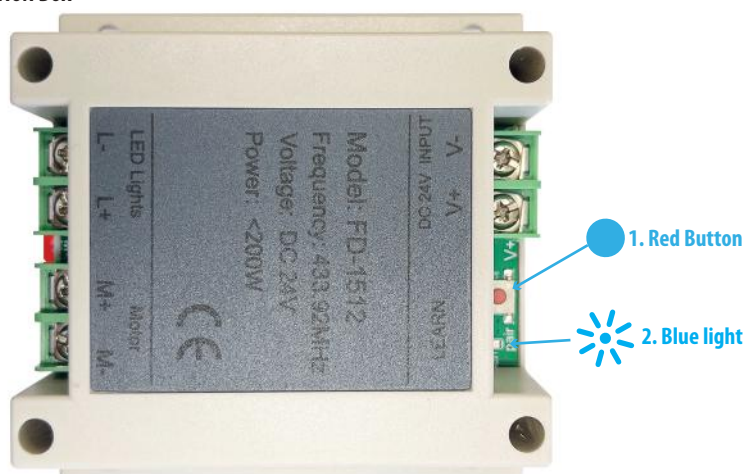
To perform the remote control synchronization and setup operations it is REQUIRED to PRESS (represented with dashed line) or HOLD DOWN (represented with fill color).



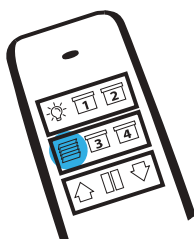
1 LIGHTING AND LOUVERS SYNCHRONIZATION

Inside the junction box at the top of the pergola, locate the RED BUTTON and press it until a blue light turns on.

JUNCTION BOX

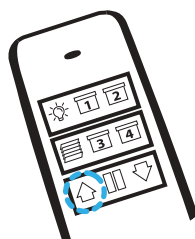


1.2 REMOTE



1.2

Hold down the louvers button on the remote



1.3

To check that the synchronization was successfully done, briefly press the UP or DOWN button. To check the lighting system, they must switch on.

Annex Controller

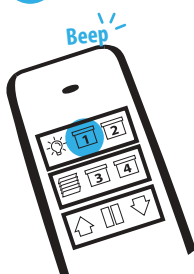
2 ZIP SCREEN SYSTEM SYNCHRONIZATION



The screen motor must be disconnected from the power supply if connected.

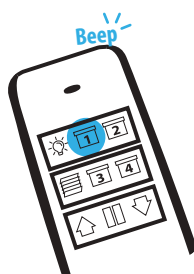
- 2.1 Plug in the motor of the screen to be synchronized, it will emit a sound and make a movement.

2.2 On the Remote



2.2

Hold down the button corresponding to the channel to be assigned to the desired screen (1, 2, 3 or 4), until it beeps. (Example: Channel 1)



2.3

Hold down the button of the channel again until it beeps.

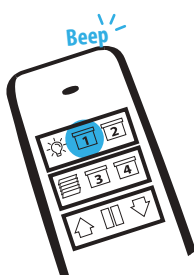


2.3

Hold down the UP or DOWN button for a few seconds until it beeps 4 times.

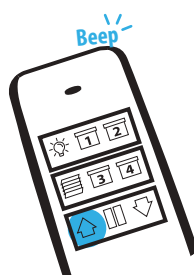
3 ZIP Screen Limits Setup (First Step)

3.1



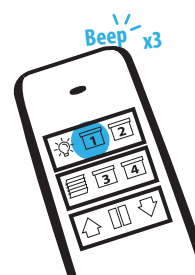
3.1.a

Hold down the button of the channel assigned to the screen until it beeps. (E.g. Channel 1)



3.1.b

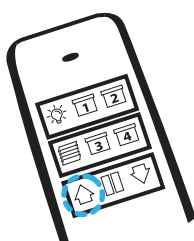
Hold down the UP button until it beeps.



3.1.c

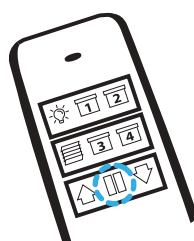
Hold down the button of the assigned channel (e.g. channel 1) until it beeps 3 times.

3.2 Set the Upper Limit



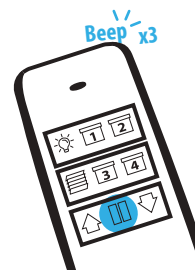
3.2.a

Briefly press the UP button until the screen starts to rise to the preset position (Upper limit).



3.2.b

Briefly press the PAUSE button when the screen reaches the desired upper limit position.

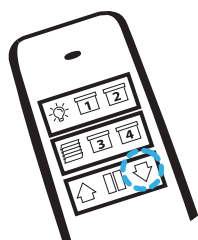


3.2.c

Hold down the PAUSE button until it beeps 3 times and makes a movement.

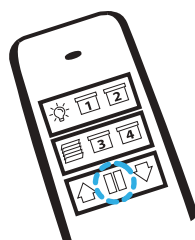
Annex Controller

3.3 Set the Lower Limit



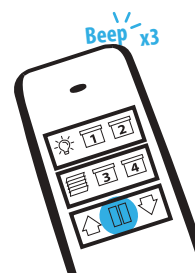
3.3.a

Briefly press the DOWN button until the screen starts to lower to the preset position (lower part).



3.3.b

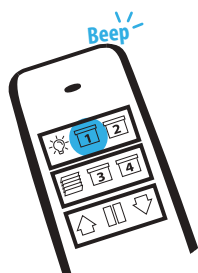
Press the PAUSE button when the screen reaches the desired lower limit position.



3.3.c

Hold down the PAUSE button until it beeps 3 times and makes a movement.

End Limit Resetting - Screens



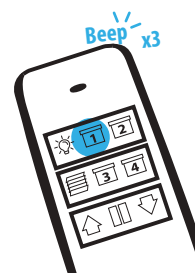
A

Hold down the button of the channel assigned to the screen you wish to reset.



B

Hold down the PAUSE button until it beeps.



C

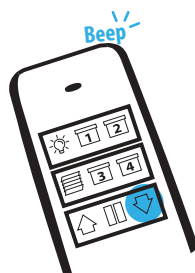
Hold down the button of the channel of the screen we are interacting with until it beeps 3 times and the screen makes a movement.

Limit Setting Removal



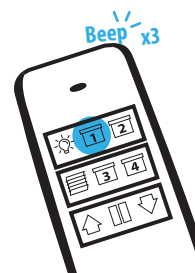
A

Hold down the button of the channel associated to the screen to be reset.



B

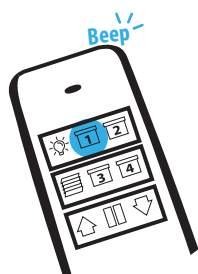
Hold down the DOWN button until it beeps.



C

Hold down the button of the channel of the screen we are interacting with until it beeps 3 times and the screen makes a movement.

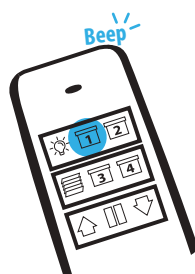
Multiple Remote Control Programming on a Single Screen



A

On the main remote, **hold down** the button of the screen channel on which you want to associate the secondary remote, until it beeps.

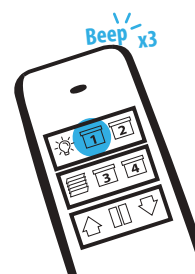
Main remote control



B

Hold down this channel again until it beeps again.

Main remote control



C

On the secondary remote, **hold down** the button of the channel to be associated with the desired screen until it beeps 3 times.

Secondary remote control

Annex Controller

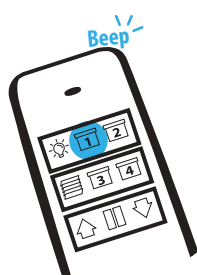
Multiple Screens Setup on a Single Channel



The screen motor must be disconnected from the power supply if connected.

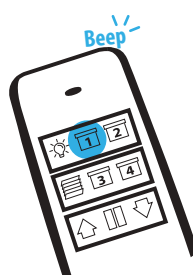
2

Connect the motor of the screen we want to synchronize to the power supply, it will emit a sound and make a movement.



A

Hold down the button of the channel of the screen on which you want to act until it beeps.



B

Hold down the button of the channel of the screen in which you are interacting until it beeps.



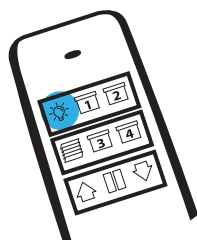
C

Hold down the UP or DOWN button until it beeps 3 times.

3

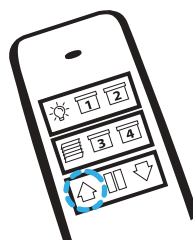
Repeat step 2 with the following screens, taking into account that the motor of the screen to be linked must be disconnected from the power supply.

LED Lighting Activation



A

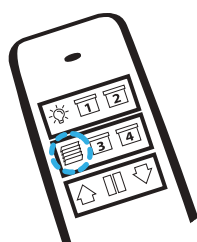
Hold down the lighting button.



B

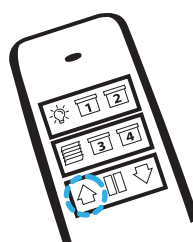
Briefly press the UP or DOWN button to increase or decrease the intensity of the lighting.

Louver Activation



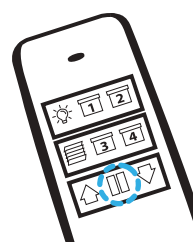
A

Press the louver button.



B

Briefly press the UP or DOWN button to open or close the louvers; they will perform the complete opening or closing movement from their current position.



C

Press the PAUSE button to stop the movement of the louvers in the desired position.

Annex

Standard junction Box



Annex

Junction Box + LED



ANNEX

Wind and Rain Sensor



TECHNICAL SPECIFICATIONS

Operating voltage: 100-240VAC 50/60Hz

Sensor voltage: 12VDC

Power: 8W

Wind speed: 10 - 50 km/h

Wind response time: ≤ 3 Sec

Rain measurement range: 1~100 mm/h

Rain response time: 25 sec. Transmission frequency:
433.92MHz

Acceptance sensitivity: 100dBm

Working temperature: $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$

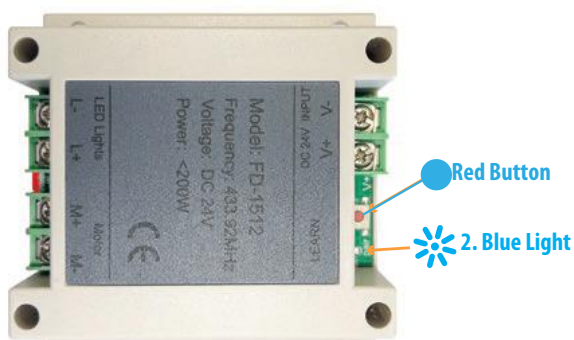
ANNEX

Wind and Rain Sensor

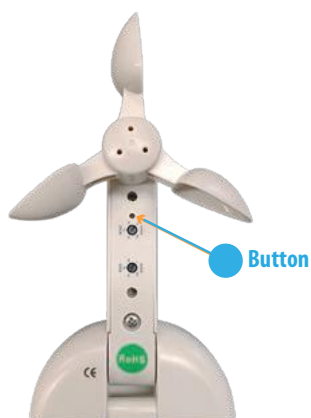
SYNCHRONISATION

First press the red button on the receiver until the blue light turns on to synchronise with the sensor.

JUNCTION BOX



Then press the SYNC button on the sensor. To press it you will have to press it with a fine-pointed object.



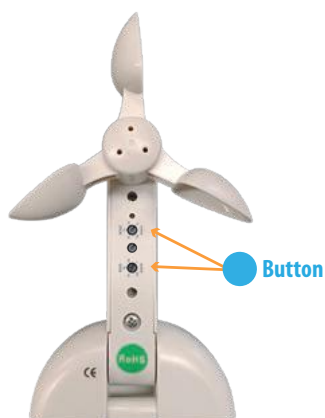
WIND AND RAIN SENSITIVITY SETTING

Turn the dial to the desired sensitivity.

NOTE:

This sensor is not designed to operate the louvers when sunlight is received.

This sensor only closes the louvers of the pergola. It cannot be set to open them.



Contact information

Austria



Belgium



Croatia



Denmark



Estonia



Finland



France



Germany



Ireland



Italy



Latvia



Lithuania



Nederland



Norway



Poland



Portugal



Spain



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Switzerland



UK

