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more life.



Installation instructions



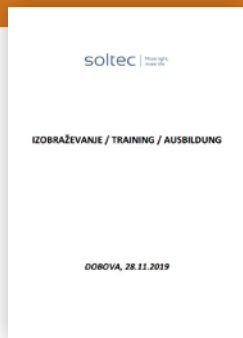
Bioclimatic Pergola Agava SL

Prefix



This Installation Instructions manual offers you the know-how on assembling and mounting Soltec Pergola Agava SL System. Through reading process you will notice, that this guide is made through following the basic knowledge presented in Soltec's Training guide.

This manual is focused on the first **14 points from the Training Guide.**



1. Acceptance of goods, inspection of documentation, visual inspection of cargo and confirmation in CMR documentation.
2. Opening of the box and inspection of the components on the basis of packing list and relevant documentation, preparation of tools and mounting equipment.
3. Marking the location on the floor or wall for mounting the structure and fixing the brackets.
4. Knowledge of the frame composition for freestanding pergola or pergola with wall fixation. Joints of corners and posts, fixation of frame to the bracket and frame to the wall. Checking the inclination of the frame structure according to the instructions.
5. Joining of the electrical cables before the frame assembly and circuit testing.
6. Knowledge of sliding insertion technology, connecting blades to the drive axle/ bar and the setting of end points. Knowledge of mechanical endpoint correction technology on oval holes.
7. Connection of the blades with/to the LED lights.
8. The option to mount the cover in case of non-standard length of the pergola (concave or convex shape of tin sheet).
9. The option of mounting fixed roof integration (installation of roof glass or aluminum sheet).
10. Installation of ZIP roller blind, guides, cassette, end points, electrical cable joints.
11. Installation of sliding panels, guides.
12. Installation of glass panels, guides.
13. Electrical connection of the pergola to the home network, motor self-test and test drive. Sealing all joints with MERBENIT glue or SIKA 553. Client training using a pergola and presentation of operating instructions.
14. Regular annual maintenance (inspection of operation, engine reset - self-test, inspection of seals, + cleaning of water channels, inspection or necessary replacement of plastic parts, protection of rubber seals, cleaning of the pergola).

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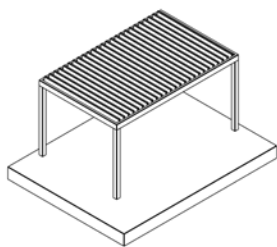
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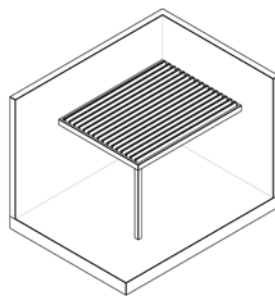
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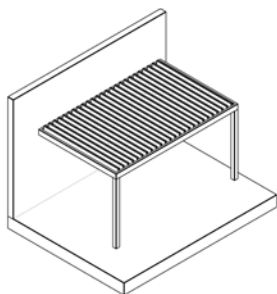
Configurations



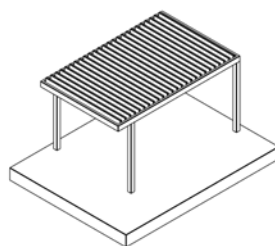
TYPE 1
Self-standing



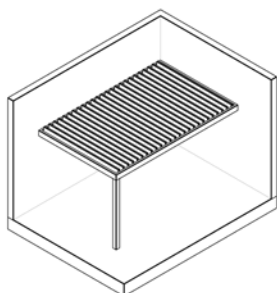
TYPE 5
Wall-mounted blades
parallel to wall



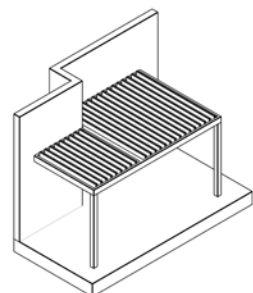
TYPE 2
Wall-mounted blades
perpendicular to wall



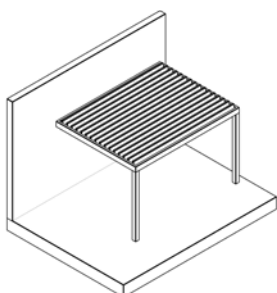
TYPE 6
Self-standing
posts off-center



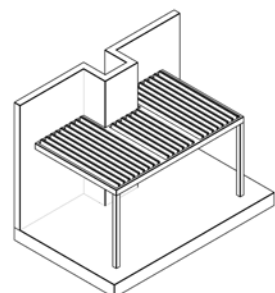
TYPE 3
Wall-mounted on
two sides blades
perpendicular to wall



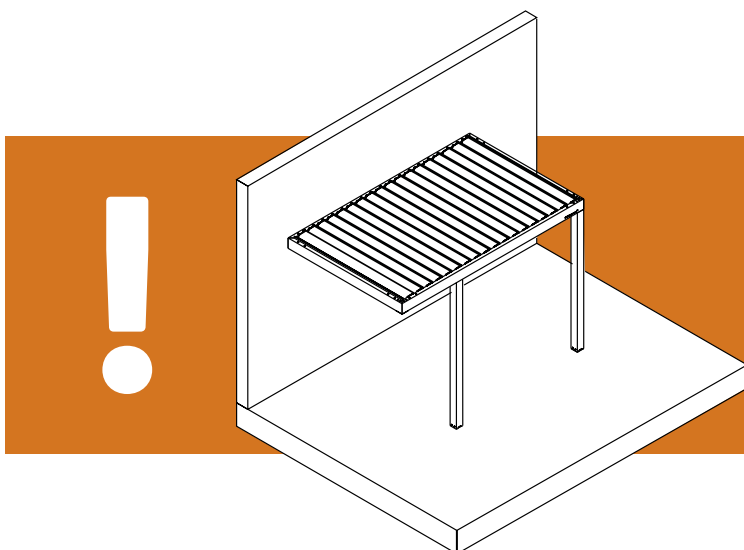
TYPE 7
Wall-mounted blades
perpendicular to wall



TYPE 4
Wall-mounted blades
parallel to wall



TYPE 8
Wall-mounted blades
perpendicular to wall



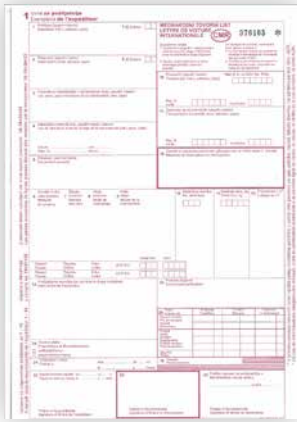
EXAMPLE TYPE

The TYPE G configuration is used in Installation instructions to present all the possible situations in the process of installation of pergola.

STEP 1

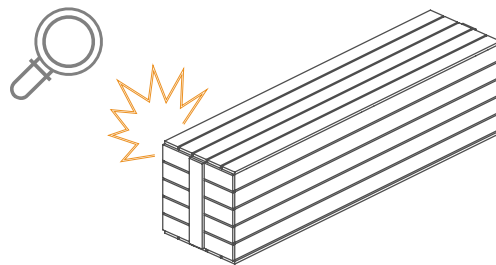
Check received cargo

Acceptance of goods, inspection of documentation, visual inspection of cargo and confirmation of CMR documentation



CMR documentation example

- Inspect all documents
- Check for possible cargo damage and REPORT it in CMR documentation
- SIGN and STAMP the acceptance of package and parts in CMR documentation
- Make a confirmation of CMR documentation



STEP 2

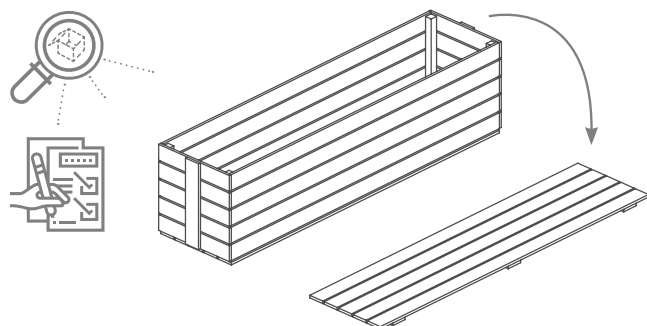
Check received cargo

Opening the box and inspection of the components on the basis of packing list and relevant documentation, preparation of tools and mounting equipment

PACKING LIST						
Sender		Receiver		Particulars		
Address	City	Address	City	Part / Material <td>Quantity <td>Weight </td></td>	Quantity <td>Weight </td>	Weight
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	OSB01	2,000	1
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	OSB02	1,000	1
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	OSB03	2,75	2
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	OSB04	2,84	1

Packing list example

- Opening the box
- Check and inspect the components, using the packing list



STEP 2.1

Read the instructions

Before beginning with installation, you MUST go through following points

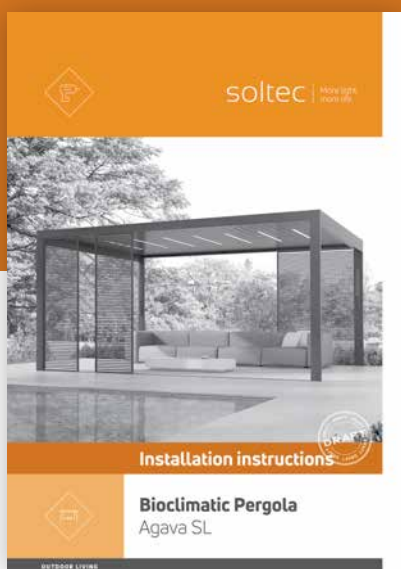
1. The amount of pieces in the received assembly
2. The quality of the pieces in the received assembly
3. Installation Manual
4. User Manual
5. Warranty statement

BEFORE YOU START



to install the product, you **MUST** read carefully Pergola Agava **Price list**, especially marked **OBLIGATORY!** and Pergola Agava **Instructions Manual**.

- Read the suggested documents
- Follow the instructions



Installation Manual



Instructions Manual

STEP 2.2

Tools & Equipment

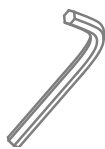
Using the right Tools & Equipment for the job is essential for good installation and for avoiding potential injuries.



Ring - Fork Key
10mm, 13mm,
17mm



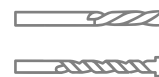
Screwdriver
Philips & flat
blade



Hex / Imbus keys
3mm, 4mm, 6mm,
8mm



**Electric hand drill
machine**



Drill bit
Ø10, Ø12



**Laser measure
or/and gauge**



Hand meter



Pencil / Marker



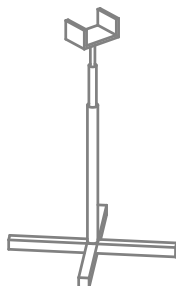
Spirit level



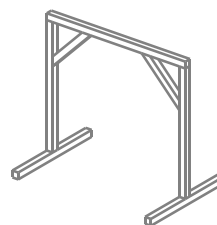
Working gloves



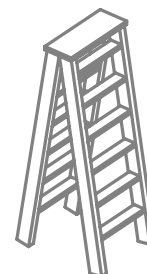
**Helmet and
protecting
glasses**



Lifting Pads

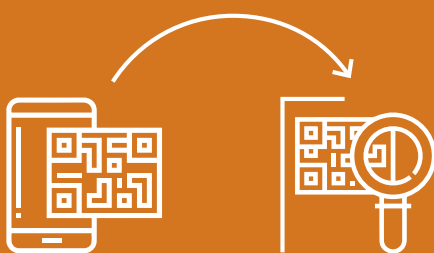


Standing Pads



Ladder

Watch Soltec videos on Youtube channel:



QR Code Reader

Videos & other info

1. Go to Google Play or AppStore
2. Download QR Reader application
3. Open the application and scan QR Codes in this document
4. Watch installation instructions videos



STEP 2.3

Order Form

With Order Form, the buyer specifies all the essential specifications of Agava Pergola. The specific model is precisely defined in Order Form and this document is the basis of every Agava Pergola project.

Step 1 / Client information

Client	Deliver to (when different)	Project
Name	Name	Name
Address	Address	Date
Phone	Phone	Requested date of delivery (week)
E-mail	E-mail	

With signoff of this Order form the Client declares, that the Client has read and accepts the General Terms and Conditions of Soltec d.o.o, which are published on www.soltec.si.









Stamp & signature

Step 2 / Product information

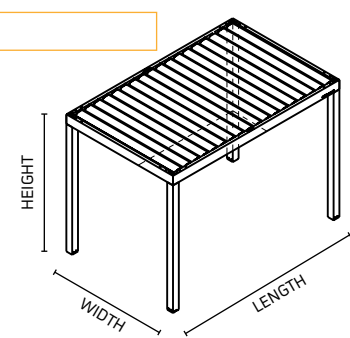
Type of pergola

- Agava SL 160/28
- Agava SL 170/28
- Agava SL 170/36
- Agava SL 240/36
- Agava SL 240/60

Type of installation

- | | |
|---|---|
|  <input type="checkbox"/> Type 1 |  <input type="checkbox"/> Type 5 |
|  <input type="checkbox"/> Type 2 |  <input type="checkbox"/> Type 6 |
|  <input type="checkbox"/> Type 3 |  <input type="checkbox"/> Type 7 |
|  <input type="checkbox"/> Type 4 |  <input type="checkbox"/> Type 8 |

Dimensions (specify in mm)



Quantity of Pergola

Number of poles

- 0 poles
- 1 pole
- 2 poles
- 3 poles
- 4 poles
- additional pole:

Height of pergola

P1
P2
P3
P4

Height of pergola 3-3.5 m is possible only with external foot mounting. Extra cost of higher poles and external foot mounting is 160 €.

Colour

Standard STRUCTURE

- | | | | |
|---|--|---|---|
|  <input type="checkbox"/> grey anthracite RAL 7016 |  <input type="checkbox"/> grey aluminium RAL 9006 |  <input type="checkbox"/> white traffic RAL 9016 |  <input type="checkbox"/> DB 703 micro-structure |
|---|--|---|---|

BLADES

- | | | | |
|---|--|---|--|
|  <input type="checkbox"/> grey anthracite RAL 7016 |  <input type="checkbox"/> grey aluminium RAL 9006 |  <input type="checkbox"/> white traffic RAL 9016 |  <input type="checkbox"/> DB 703 smooth |
|---|--|---|--|

Non-standard

Subject to additional payment.

STRUCTURE

RAL no.
Finish

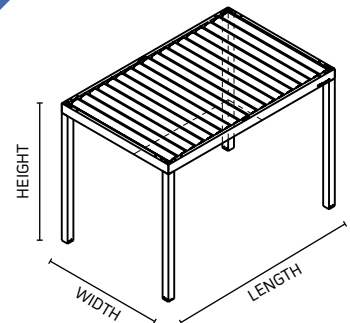
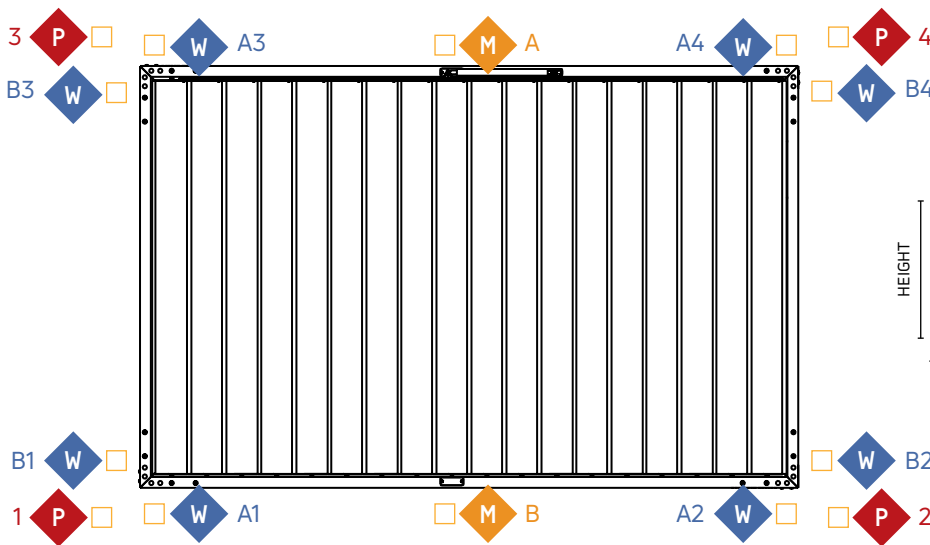
BLADES

RAL no.
Finish

Order Form

Step 3 / Drawing with marked specifications

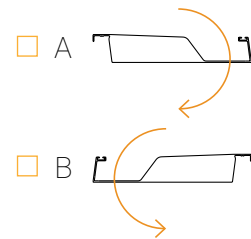
Mark motor position, water exit and power supply on top view



- M location of motor position
- P location of power supply
- W location of water exit

- Water exit is possible on same pole as electricity, but only if Type P is ordered as special option of water evacuation.
- Pergola must have min. 2 water exits!
- Position of cutting is on pole foot.

Blades opening way



LED lights

A) LED lights integrated into the blades

- LED quantity
- 0,5 m lenght
 - 1 m lenght
 - 1,5 m lenght
 - RGB
 - Neutral white 3200 - 5000°K
 - Warm white 2200 - 3200°K
 - Cold white > 5000°K

B) LED strip lights

- Length of LED (m)
- RGB

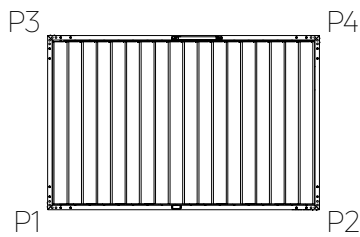
Position of LED lights (mark on drawing)



Order Form

Step 4 / Options

ZIP blinds



Position

- P1 - P2 P1 - P3
- P3 - P4 P2 - P4

Fabric Serge

- 108101 grey-white
- 108108 grey
- 108118 grey-black
- 116101 linen-white
- 117101 pearl-white
- 117117 pearl

Fabric Soltis

+ 10%

Crystal full screen

+ 10%

Crystal window

dim.

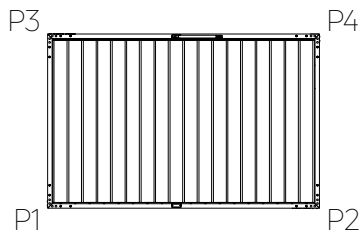
Motor

- standard
- Somfy

Colour of guides

- Same as pergola frame
- Different RAL no.

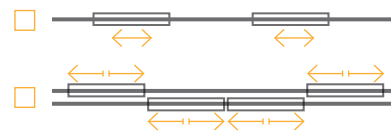
Sliding panels



Position

- P1 - P2 P1 - P3
- P3 - P4 P2 - P4

Sliding type



Colour / Standard

- grey anthracite RAL 7016
- grey aluminium RAL 9006
- white traffic RAL 9016

Type

- wood
- alu
- screen

Number of panels

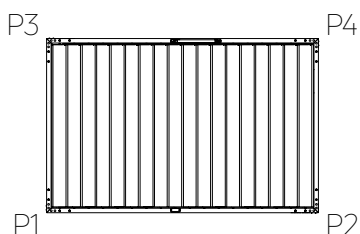
Dimension of panels (width in mm)

Colour / Non-Standard

Subject to additional payment +10%.

RAL no.

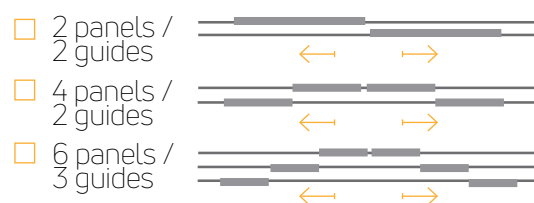
Glass panels



Position

- P1 - P2 P1 - P3
- P3 - P4 P2 - P4

Folding type



Colour / Standard

- grey anthracite RAL 7016
- grey aluminium RAL 9006
- white traffic RAL 9016

Colour / Non-Standard

Subject to additional payment +10%.

RAL no.

Number of panels

Dimension of panels (width in mm)

Order Form

Step 5 / Accessories

Sensors

- Rain sensor
- Wind sensor
- Snow sensor (Rain + Temperature sensor)
- Temperature sensor
- Presence sensor

Sound system

- Number of speakers
- Audio system
 - Audio system + Bluetooth

Remote control

- Quantity
- Teleco / 42-channels
 - Somfy / 4-channels
 - Somfy / 1-channel
 - T-mate APP
 - Daisy APP




Heater Heliosa

- Quantity
- White
 - Anthracite

Wall mounting

- standard
- optional
 - P1 P3
 - P2 P4

Foot mounting

- standard (inox) / internal
 - optional / external
-   

External foot mounting protection

- galvanization
- galvanization + painting
- inox

Position of holes on profile for wall fixation

- drill the profile (indicate on drawing)
- no drilling (client ensures power supply)

Step 6 / Options roof

Covers for non standard lenght

Subject to additional payment 30 € / m²

- Type A / Convex type
- Type B / Concave type

Fix roof integration

- Type C / Glass roof
- Type D / Aluminium sheet
- Type E / Aluminium sheet

Special water evacuation

Subject to additional payment 150 € / pcs

- Type V Type P
- Type H

Step 7 / Hand drawing with marked specifications

Step 8 / Additional comments

To be filled by Soltec / manufacturer

Value
Shipping
In total
Offer number
Project reference number
Date

STEP 2.4

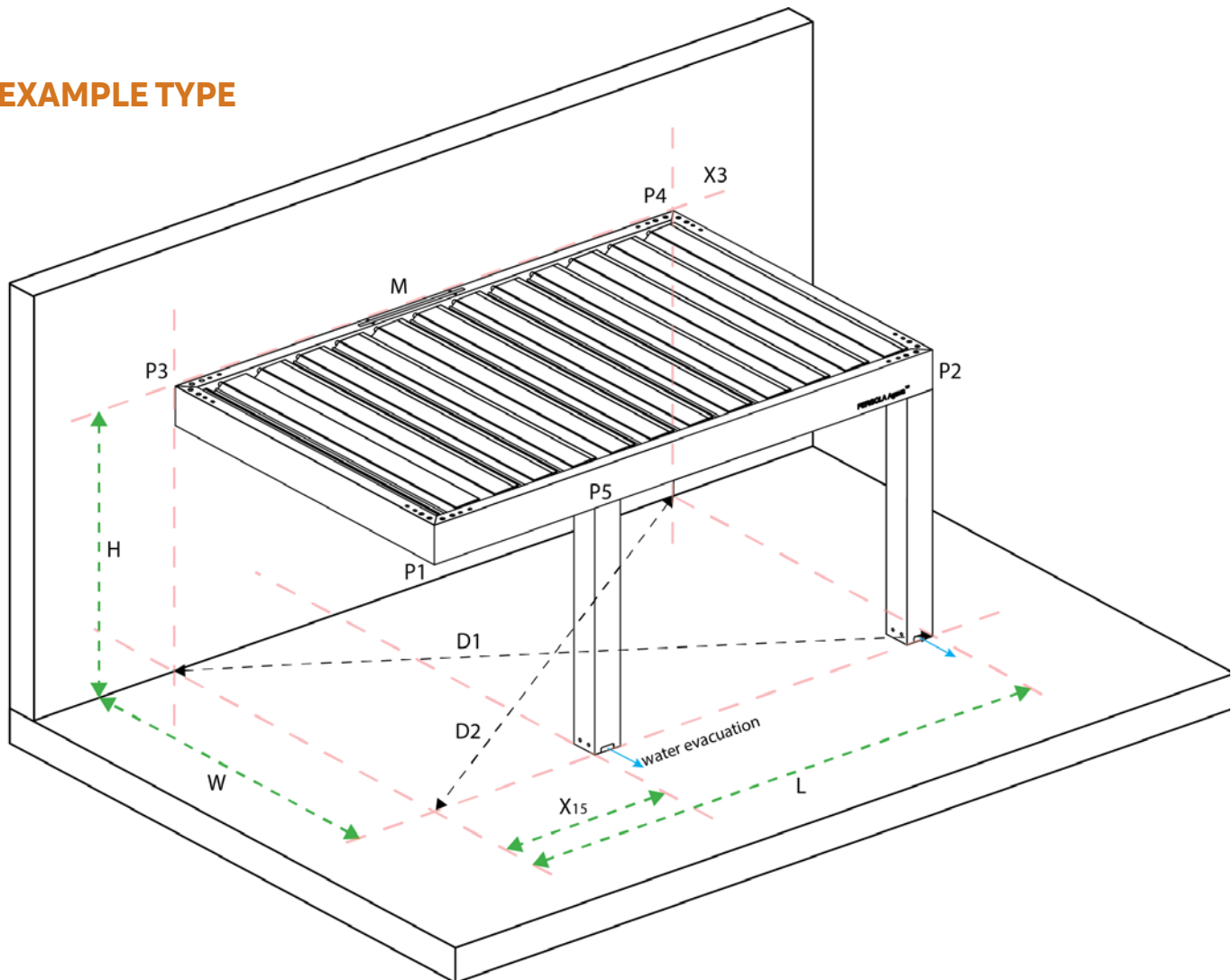
Marking the location

Marking the location on the floor or wall for mounting the structure and fixing the brackets is also the start of mounting process.

There are practically 8 basic possibilities of mounting, which can be seen in the Configurations on page 5.

The Example Type explained in this Installation Instructions Manual is shown below.

EXAMPLE TYPE








Example type model is shown with correlating positions and helping lines.

STEP 3

Positioning

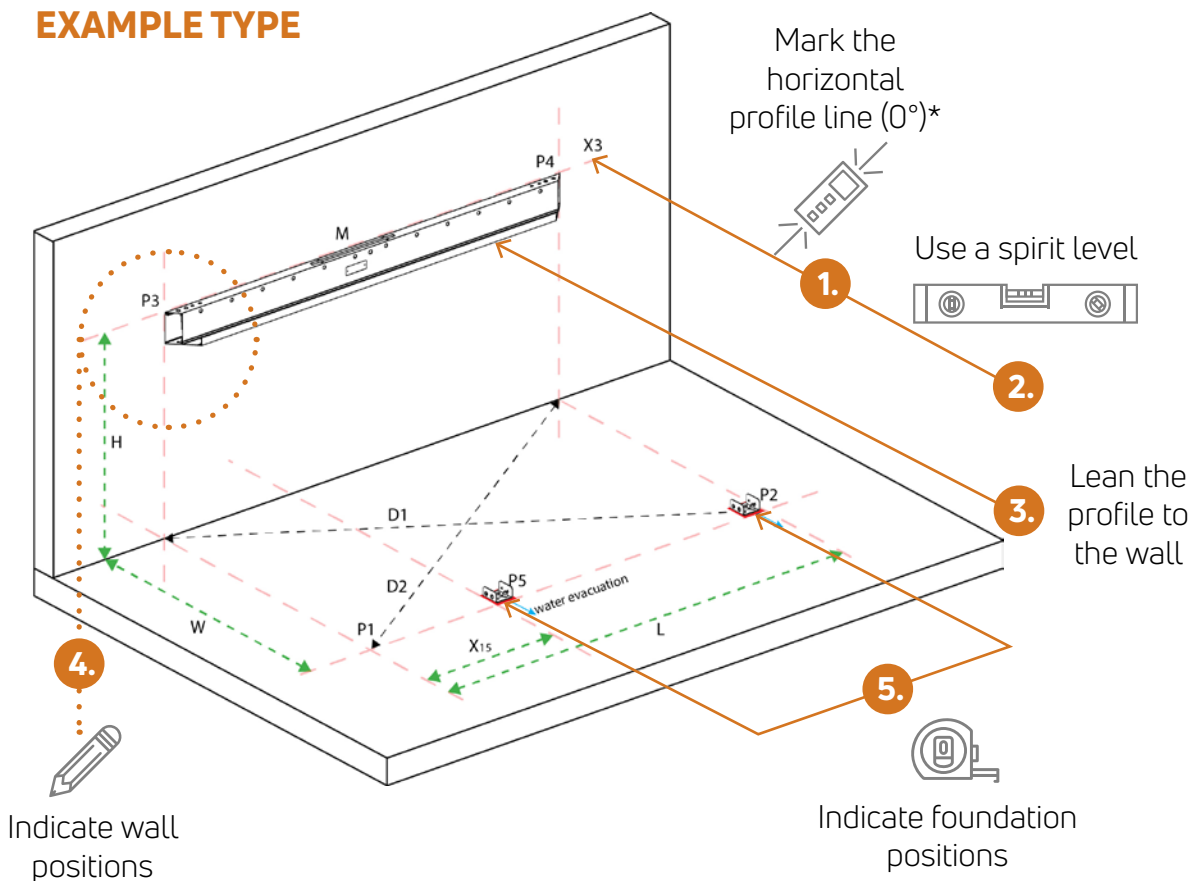
Position of the wall mounted frame profile & foundation position

	post positions
	support lines for positioning
	width of profiles
	height of profiles
	length of profiles
D1, D2	length between diagonal pergola corners
X3	support line for wall profile
P1, P2, P3, P4	corners of frame construction
P5	support with post, dislocated from corner

Before starting to assemble the frame, it is necessary to determine the position of the longitudinal frame profile on the wall and foundation positions:

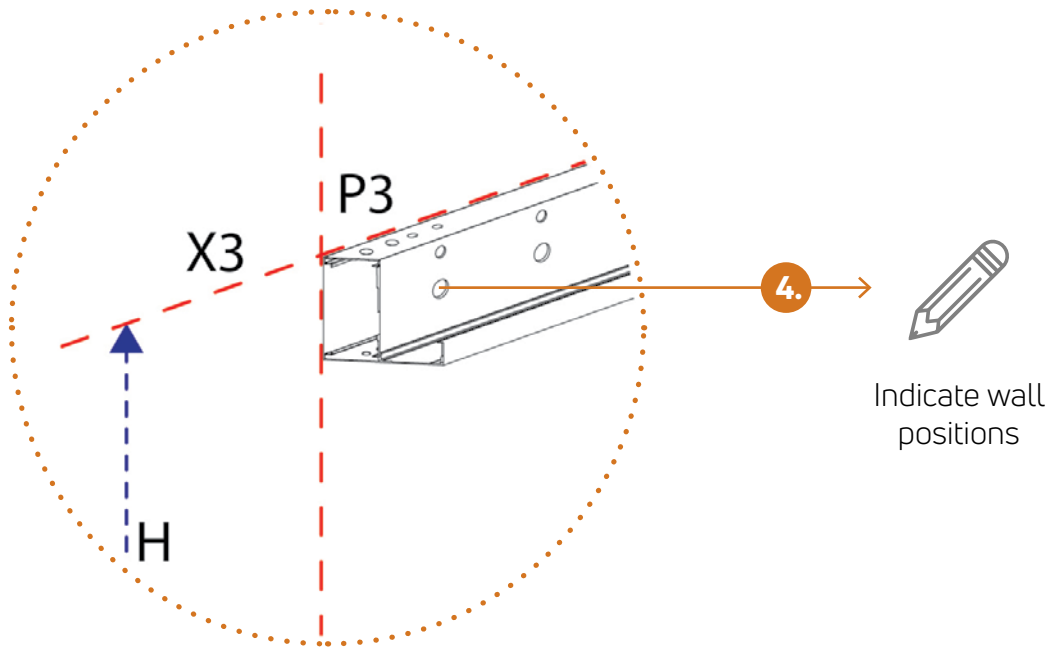
1. Use a laser gauge/laser measure to indicate the X3 line on the wall.
2. If needed, use a spirit level to mark a proper 0°.
3. Lean the profile to the wall.
4. The positions of the anchor bolt holes shall be indicated/drawn for mounting the profile on the wall. Indicate positions P3 and P4 on the wall with a marker.
5. Indicate the foundation positions.

EXAMPLE TYPE



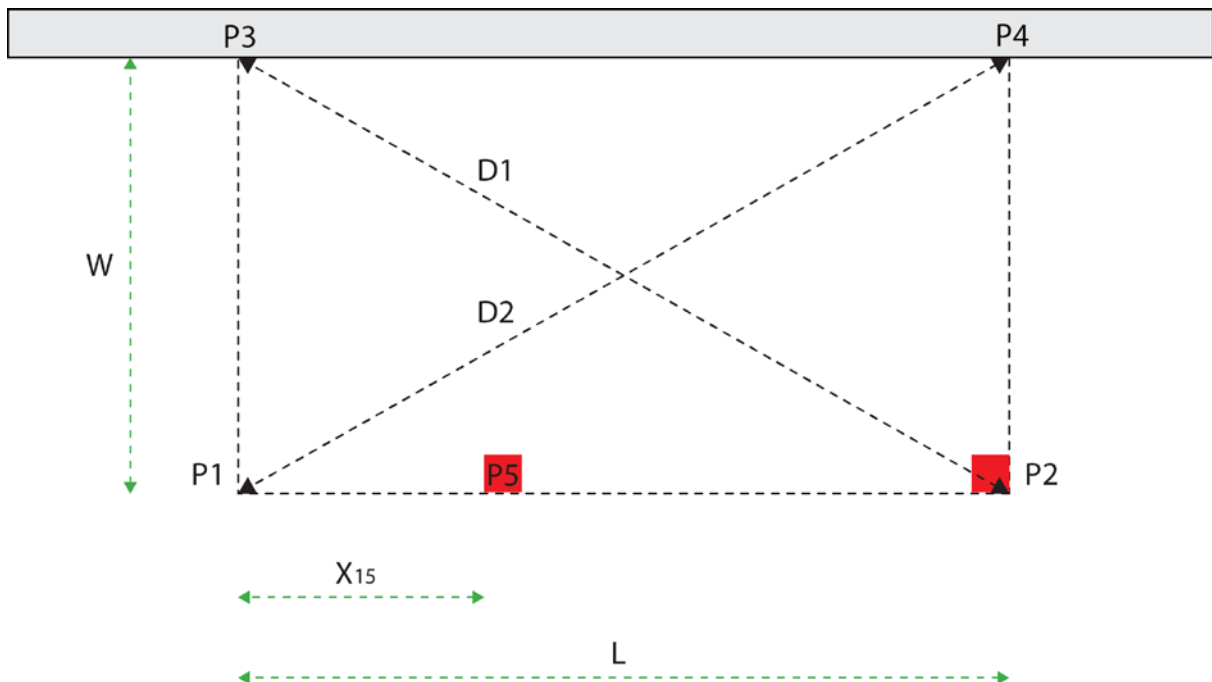
* Follow the instructions from "Price List 2020"

Positioning



EXAMPLE TYPE

Top view



STEP 3.1

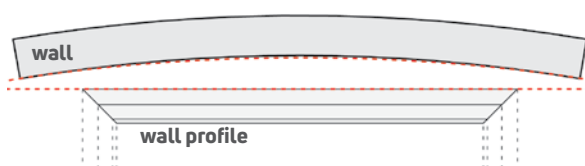
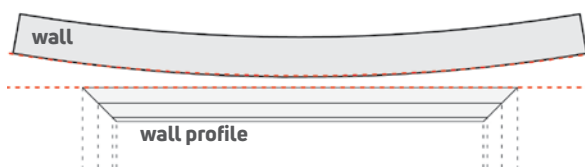
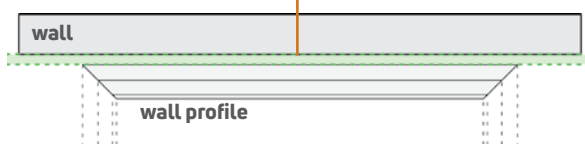
Parallelism of wall and profile

BEFORE starting to assemble the frame, check the parallelism between the wall and the wall profile. If curvedness is too large, mounting the frame is not possible.

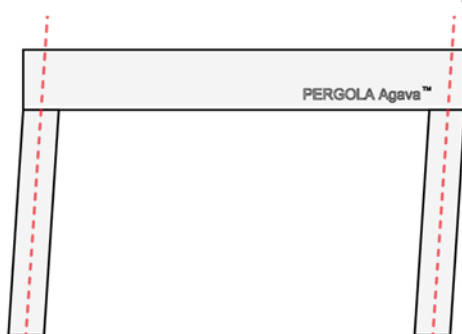
1. The wall and the wall profile have to be parallel
2. Repair the wall if it is not even
3. The posts have to be parallel and in 90° angle to the wall profile

The wall and the wall profile have to be parallel

1.



top view



3.

The posts have to be parallel

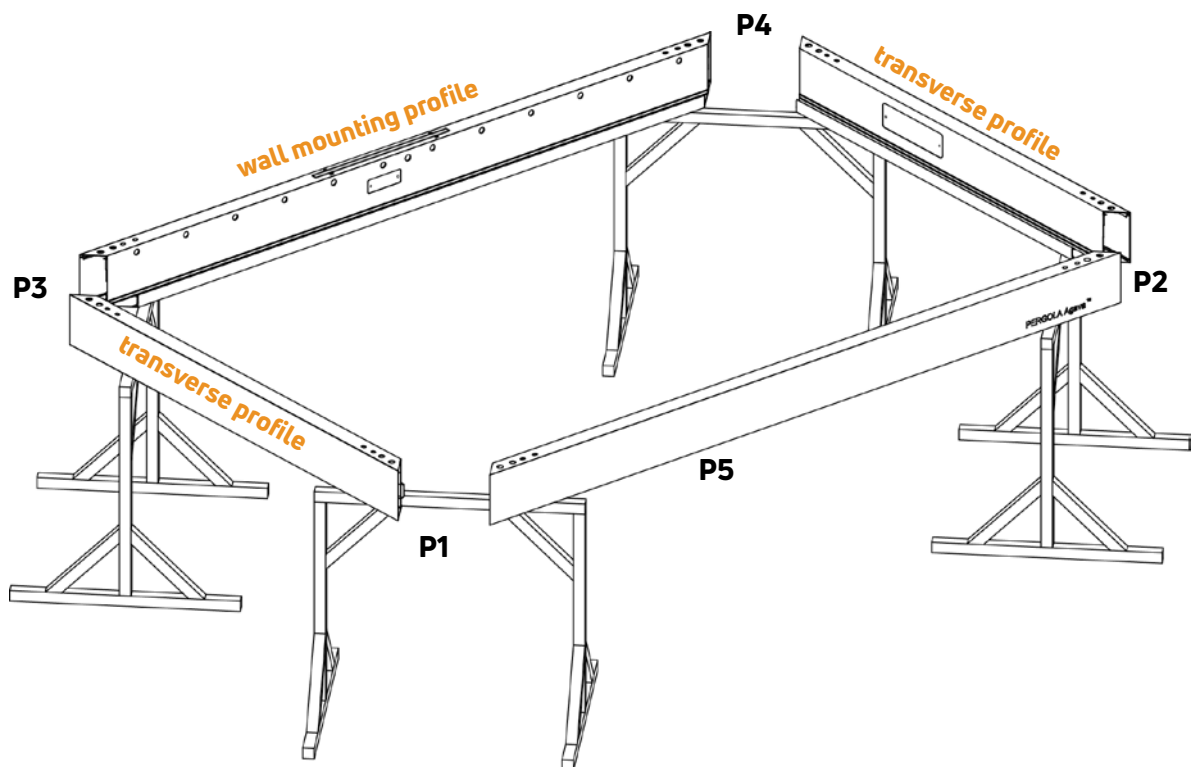
STEP 4

The place needed for assembling the installation

Put four pedestals on a suitable place, big enough for assembling.

Pedestals **MUST** be coated to avoid damage on the profiles.

Remove all unnecessary obstacles.

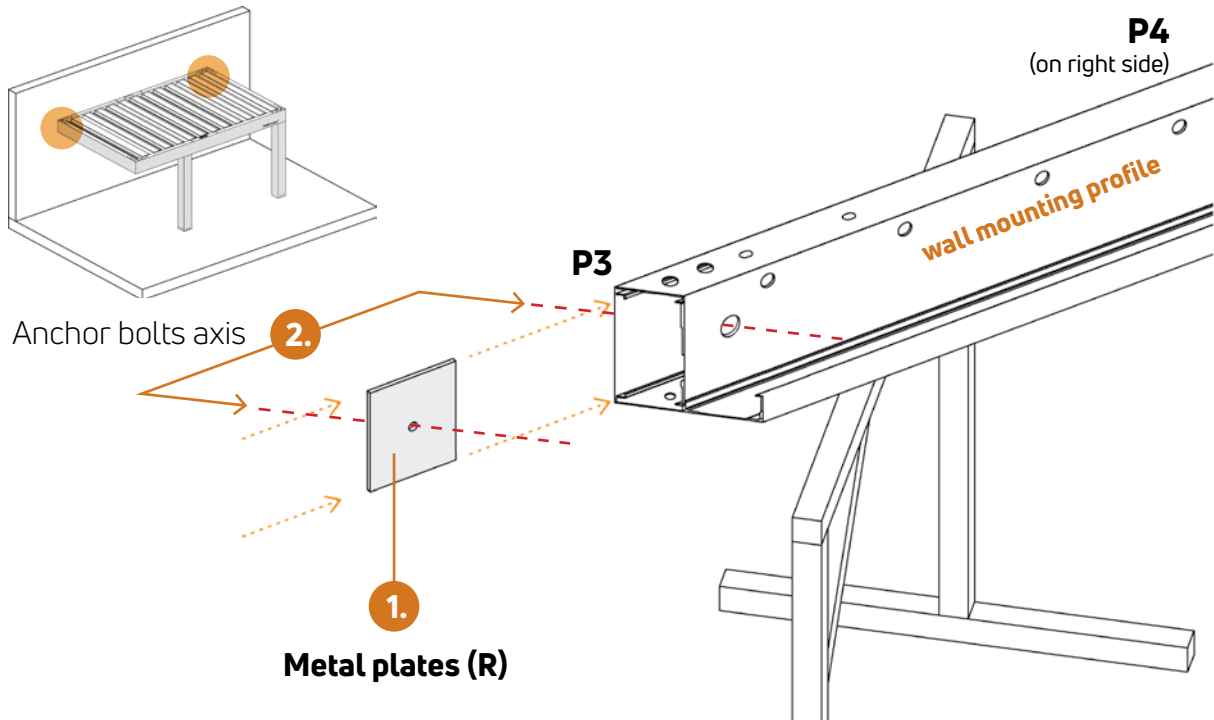


STEP 5

Inserting metal plates into wall mounting frame profile

PHASE 1

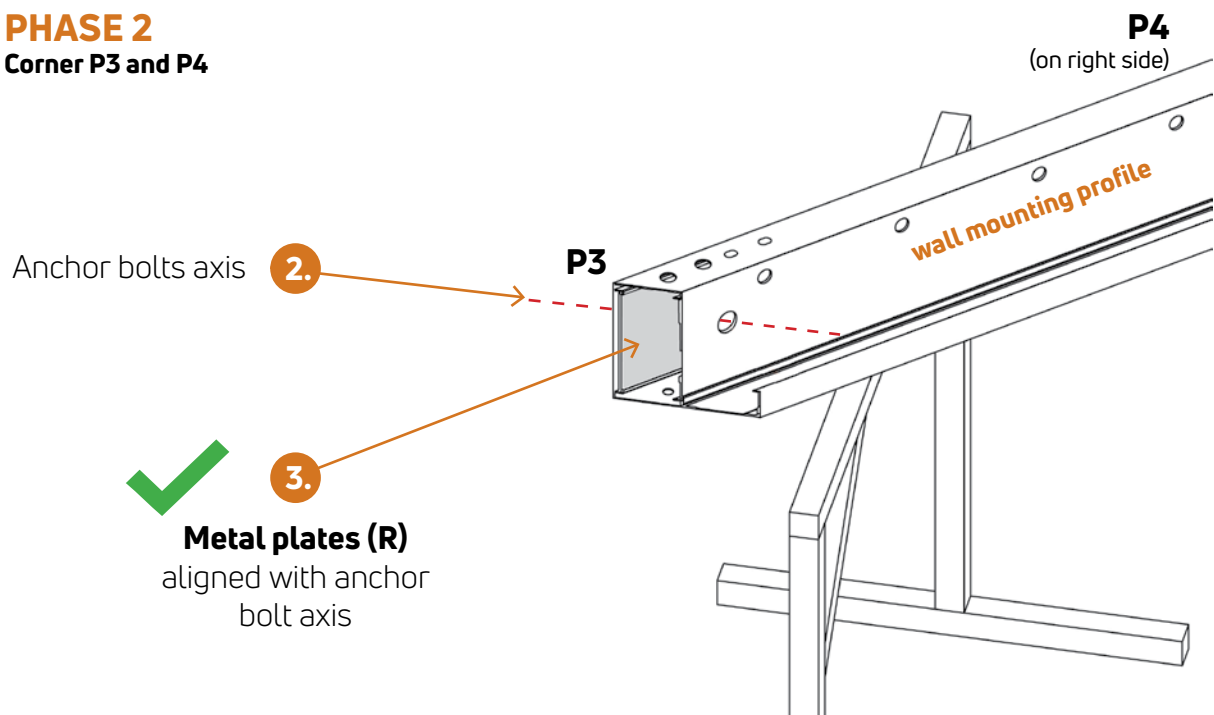
Corner P3 and P4



1. **Metal plates (R)** are inserted into the wall mounting profile
2. The number of plates depends on the project (position P3 , P4)
3. Align plates with anchor bolt axis

PHASE 2

Corner P3 and P4



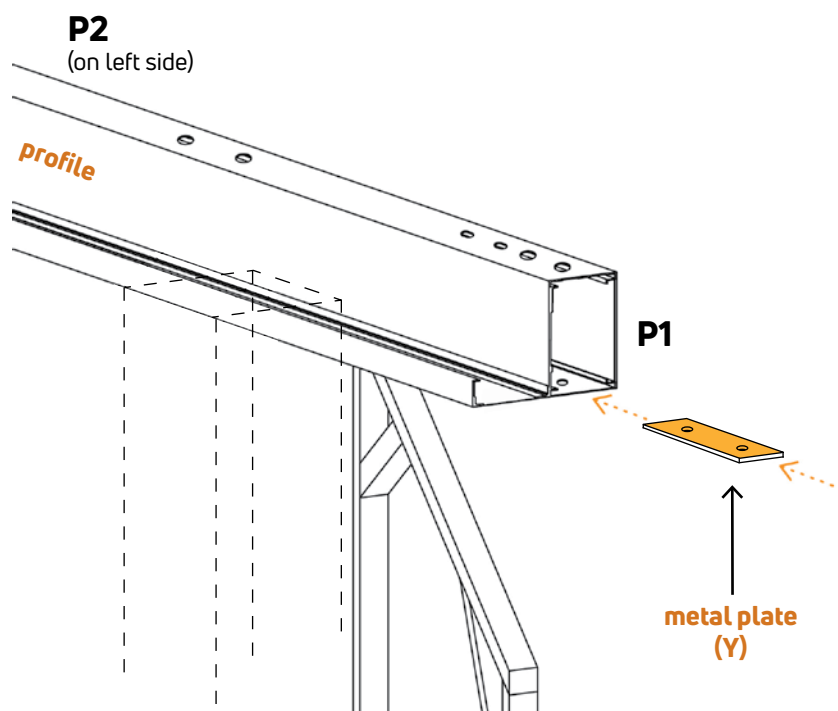
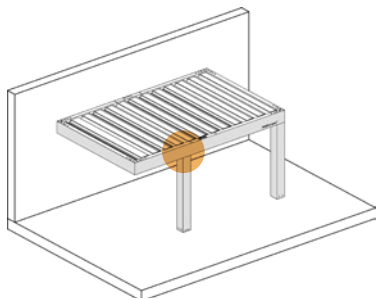
Metal plates (R)
aligned with anchor
bolt axis

STEP 5.1

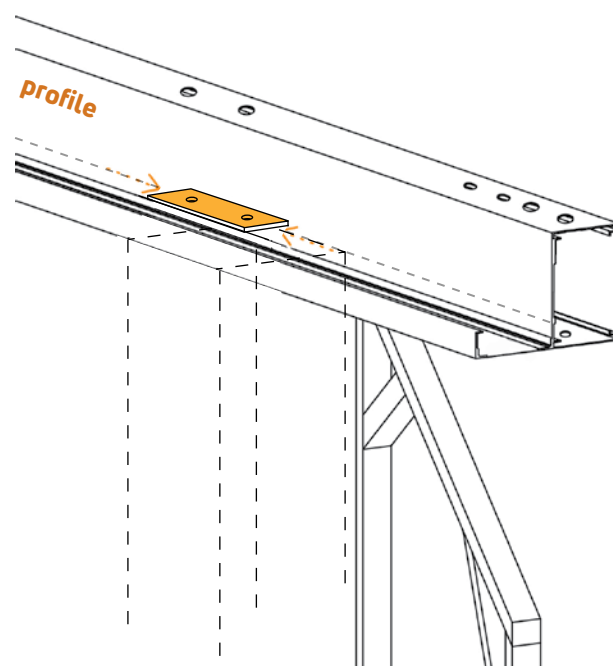
Inserting metal plate for supporting post on position P5

Metal plate (Y) is inserted into the longitudinal profile for supporting post on position P5.

PHASE 1 P5



PHASE 2 P5



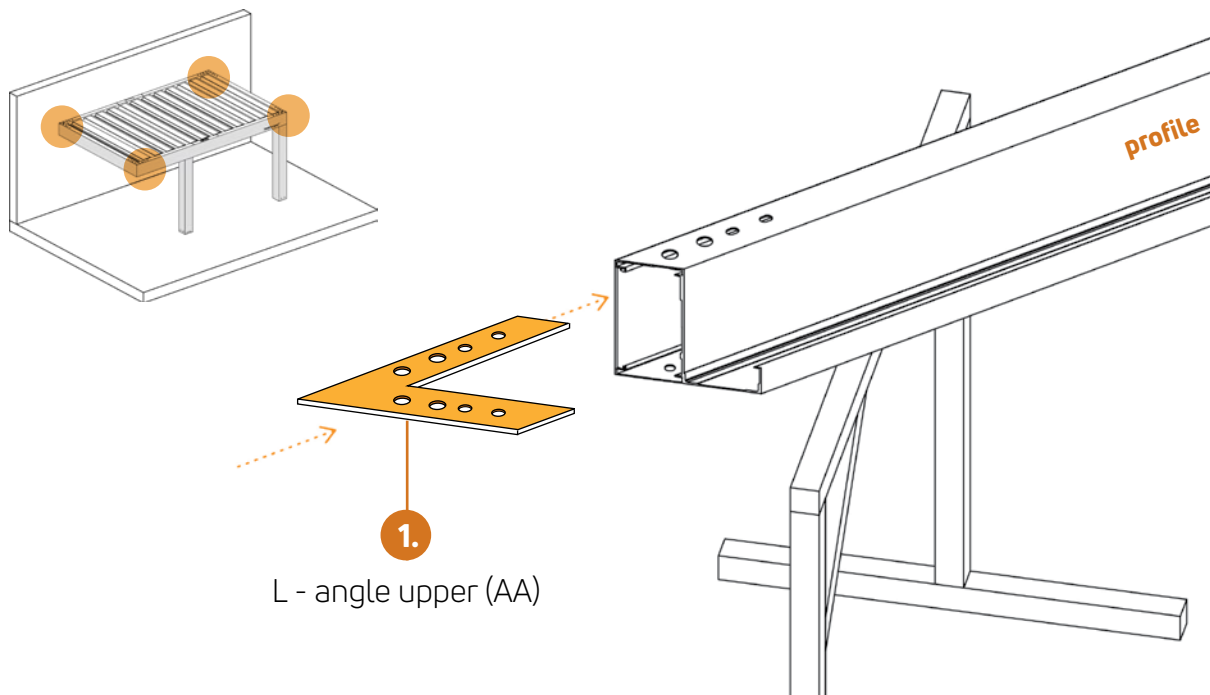
STEP 5.2

Screwing and inserting the L - angle upper (AA) into transverse frame profile

1. **L-angle upper (AA)** is inserted into all 4 transverse frame profile corners

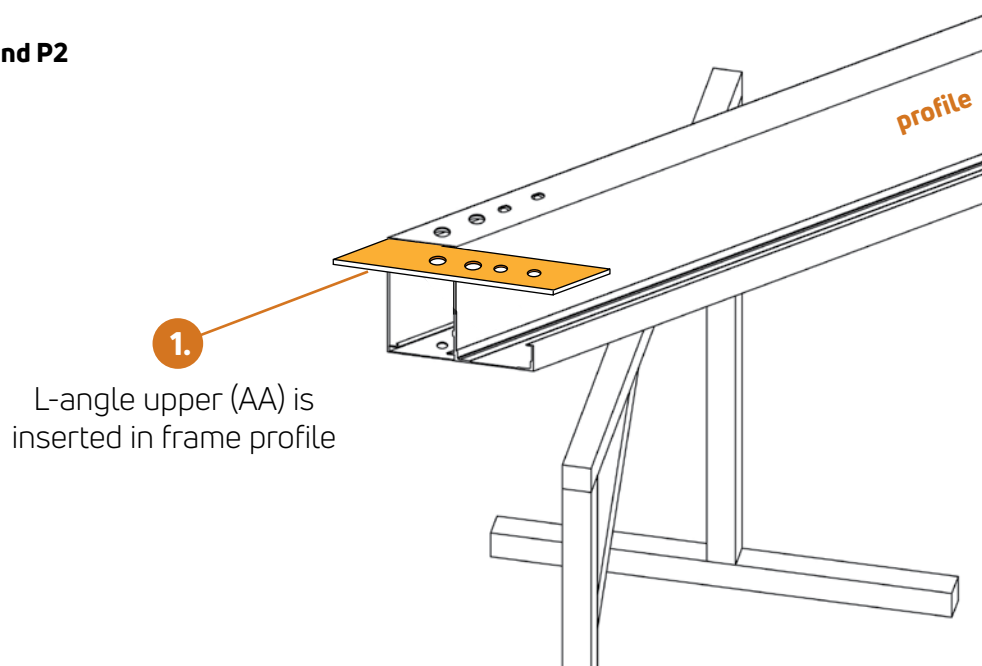
PHASE 1

Corner P1, P3, P4 and P2



PHASE 2

Corner P1, P3, P4 and P2

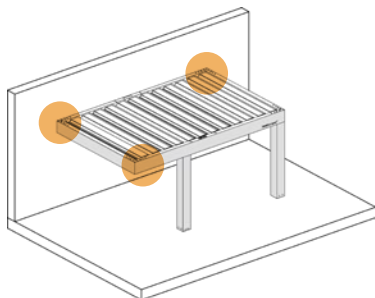


STEP 5.3

Screwing and inserting the L - angle lower, connecting and with threads (AC) into transverse frame profile

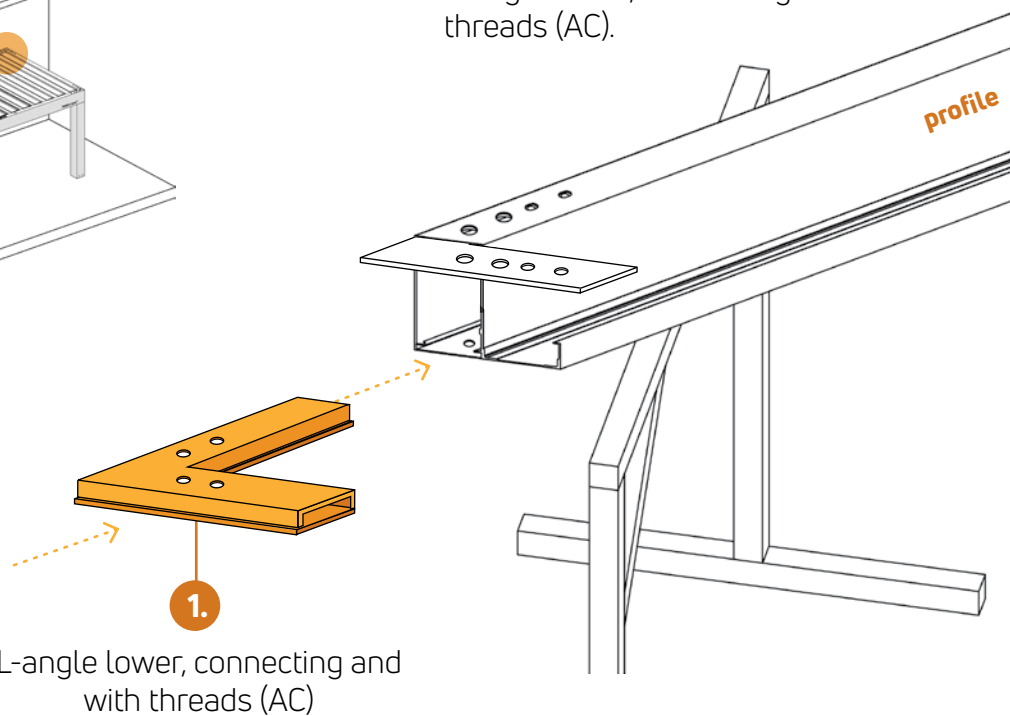
PHASE 1

Corner P1, P3, P4 and P4



1. **L-angle lower, connecting & with threads (AC)** is inserted into 3 transverse frame profile corners.

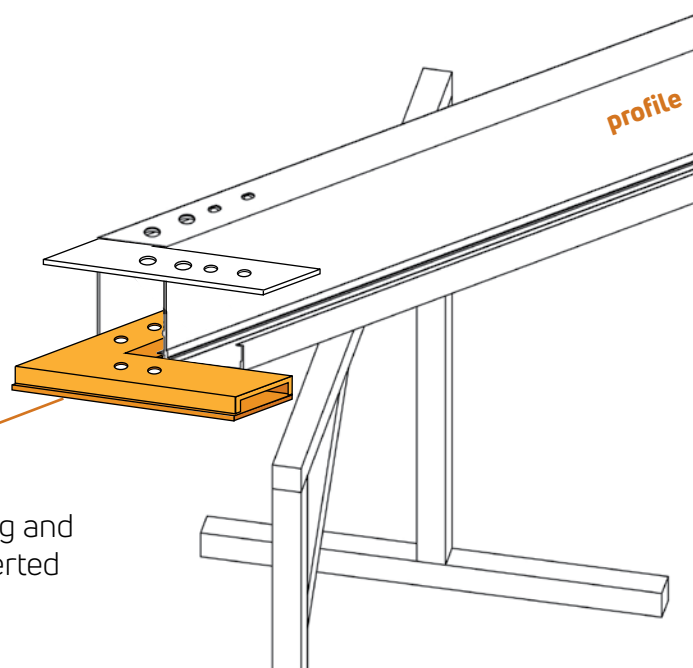
Corners without post support need L-angle lower, connecting and with threads (AC).



1. L-angle lower, connecting and with threads (AC)

PHASE 2

Corner P1, P3, P4 and P4

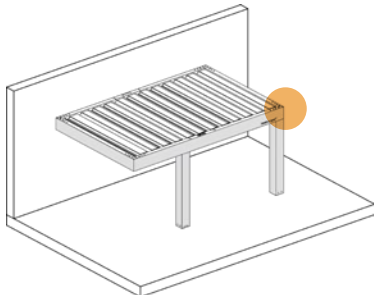


1. L-angle lower, connecting and with threads (AC) is inserted in the frame profile

STEP 5.4

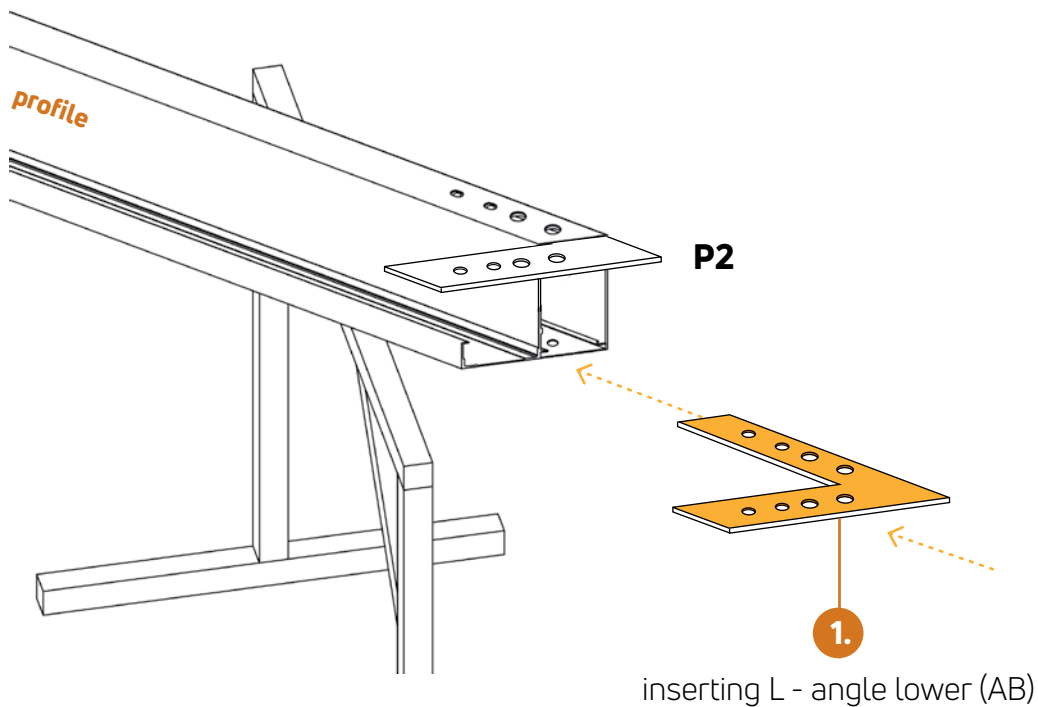
Screwing and inserting the L - angle lower (AB) into transverse frame profile

PHASE 1 Corner P2








1. **L-angle lower (AB)** is inserted into transverse frame profile corner P2. Corners with a post support only need L-angle lower (AB).

P4 (on right side)

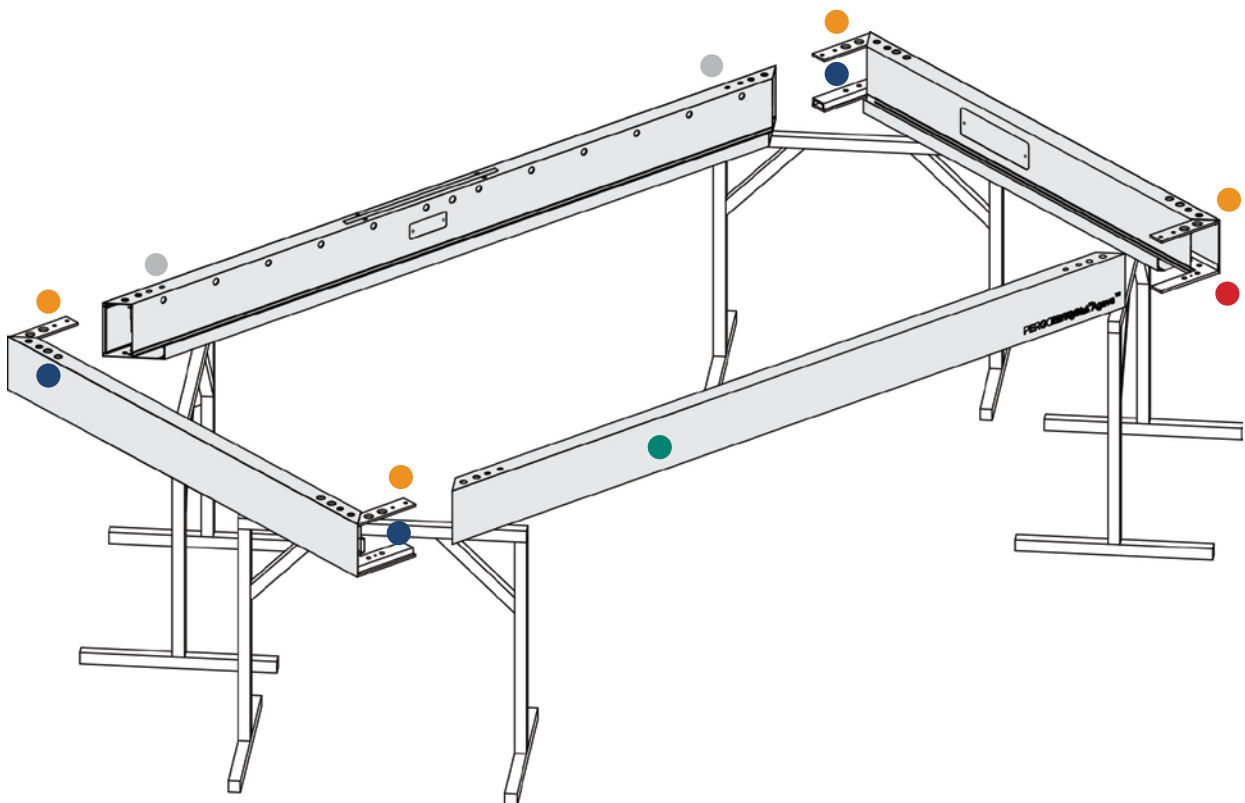


STEP 5.5

Metal plates, L - angles (AA), (AB), (AC) and screws (A) are in place

-  L - angle upper (AA)
-  L - angle lower, connecting and with threads (AC)
-  L - angle lower (AB)
-  metal plates P3, P4 (for wall fixation)
-  metal plate P5

- 1.** Inserted **L-angle upper (AA)** are successfully inserted into the corresponding places.
- 2.** Inserted **L-angle lower, connecting & with threads (AC)** are successfully inserted into the corresponding places.
- 3.** Inserted **L-angle lower (AB)** are successfully inserted into the corresponding places.
- 4.** **Metal plates** are inserted into the wall mounting profile on positions P3 and P4.
- 5.** **Metal plate** is inserted into the longitudinal profile on position P5.
- 6.** The assembly is prepared as shown below.



STEP 6

Connection of electrical and signal cables through the profiles



BEFORE

continuing the installation, all electrical and signal cables must be connected and tested.

All these processes have to be performed on the pedestals.

Before beginning the testing, **OPTIONS chapter** in the installation instructions must be read.



Connection of cable connections is carried out when the frame profiles are not screwed together.

Blades motor unit and LED lights are preset in the factory. ZIP roller blind is not preset in the factory. Preset of ZIP roller blind should be done by installer.

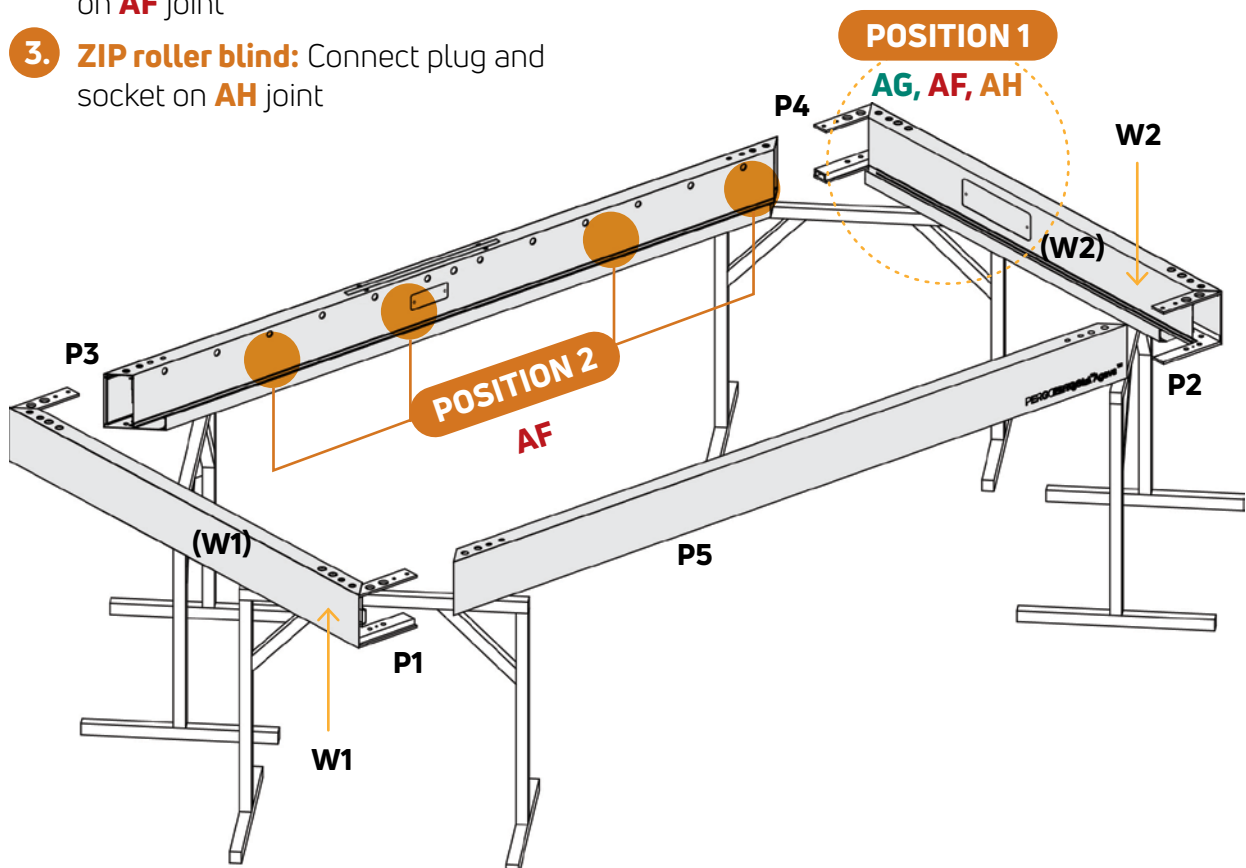
After completing the installation, the metal constructions must be grounded.

POSITION 1

1. **Blade motor:** Connect plug and socket on **AG** joint
2. **LED Light:** Connect plug and socket on **AF** joint
3. **ZIP roller blind:** Connect plug and socket on **AH** joint

POSITION 2

1. **LED Light:** Connect plug and socket on **AF** joint



STEP 6.1

Connecting the cables and sockets

1. BLADE MOTOR UNIT

Connect plug and socket on **AG** joint



2. LED LIGHT POSITION 1

Connect plug and socket on **AF** joint

AF joint is properly connected, if the inscription "ALTW" on the connectors is visible on the same side.



3. LED LIGHT POSITION 2

Connecting of plug and socket on **AF** joint is made in **STEP 14.1**, after inserting the blades.

AF NOT CONNECTED



4. ZIP ROLO POSITION 1

Connect plug and socket on **AH** joint

Wires of the same colors are connected to each other



STEP 6.2

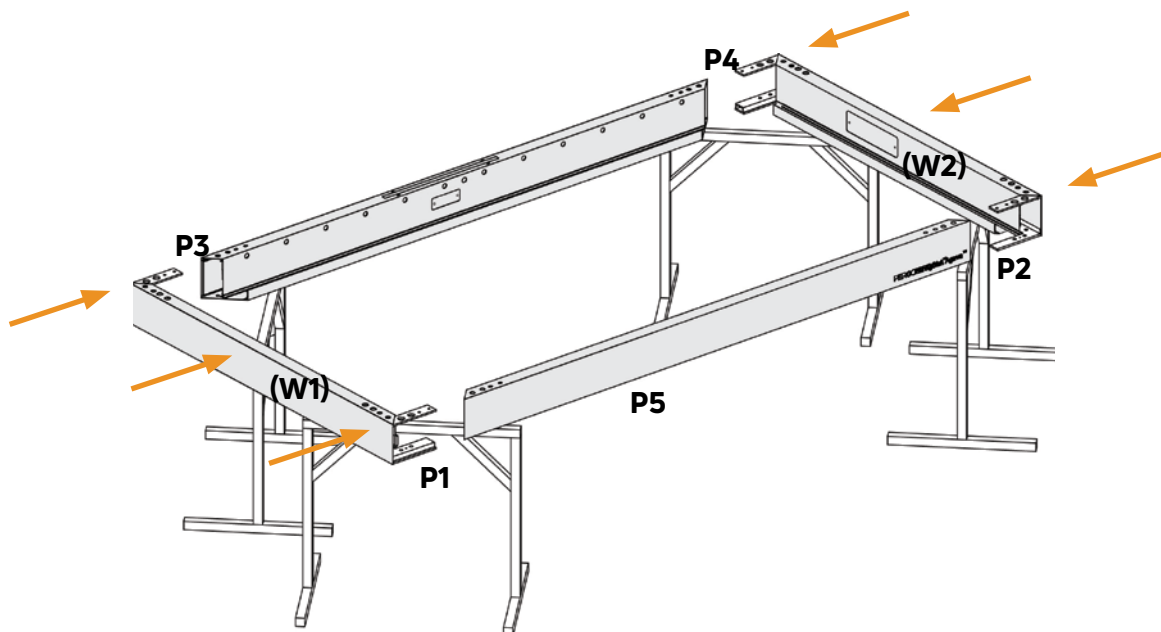
Assembling of the frame and testing of cable connections



1. ASSEMBLING OF THE FRAME

Both transverse frame profiles (W1, W2) are evenly and at the same time inserted into a longitudinal frame profile.

CAUTION: The cables in frame must not be damaged.



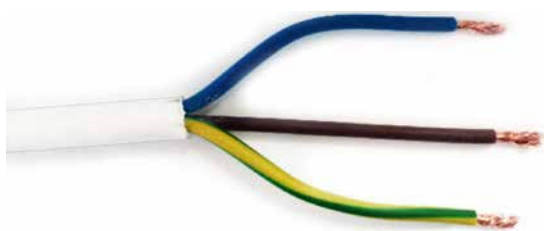
2. CONNECTION TO ELECTRICAL VOLTAGE

When the frame is assembled, the power cord (3 x 1,5 mm²) is connected to the electrical voltage.

ATTENTION: Only a trained person can carry out the connection.



220 volts



N: neutral

L: phase

G: ground

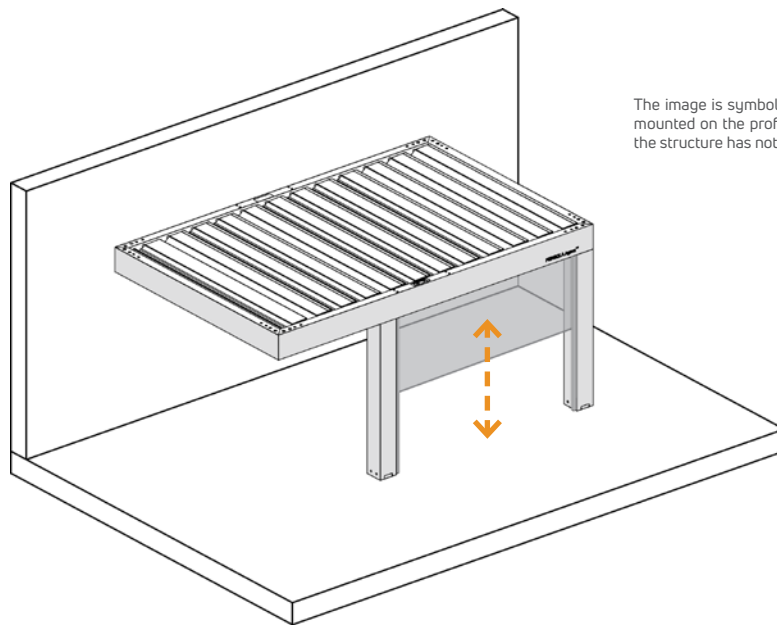


3. TESTING ZIP ROLLER BLIND

Check the rolo movement UP and DOWN.

The final setting is done when the frame is set **on location**.

Use remote control, follow instruction in **OPTIONS** chapter.



The image is symbolic because the ZIP roller is just mounted on the profile on the assembled frame but the structure has not yet been mounted.



4. DISCONNECTING POWER

After finishing testing, you must **disconnect the power supply**.



220 volts

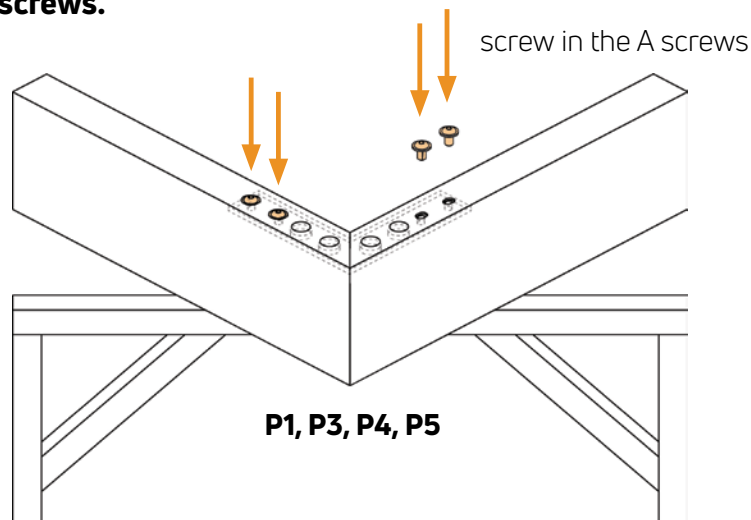
STEP 7

Screwing a longitudinal frame profile and L - angles

STEP 7.1

Screwing a longitudinal frame profile and upper L - angle (positions P1, P3, P4)

Through openings on longitudinal profiles, profile and upper L-angle are screwed together with **A screws**.



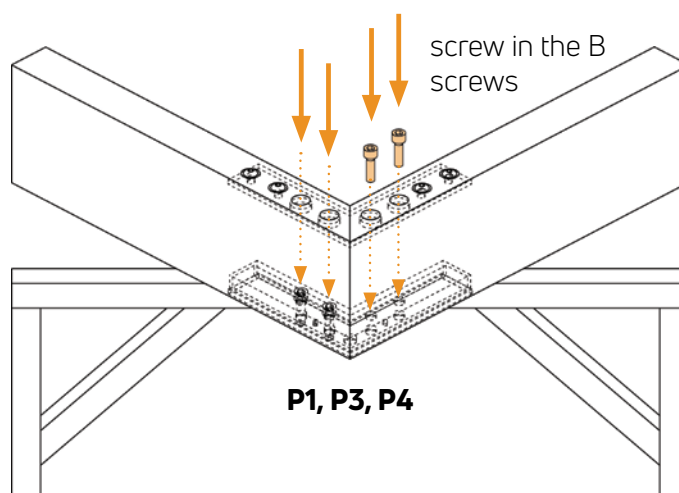
STEP 7.2

Screwing a longitudinal frame profile and lower L - angle connecting and with threads (positions P1, P3, P4)

Through openings on longitudinal profiles, profile and lower L-angle connecting and with threads are screwed with **B screws**.

Repeat at position P1, P3, P4 (these positions are wall mounted or without posts)

In position P5, the lower L - angle will be screwed together with the post.

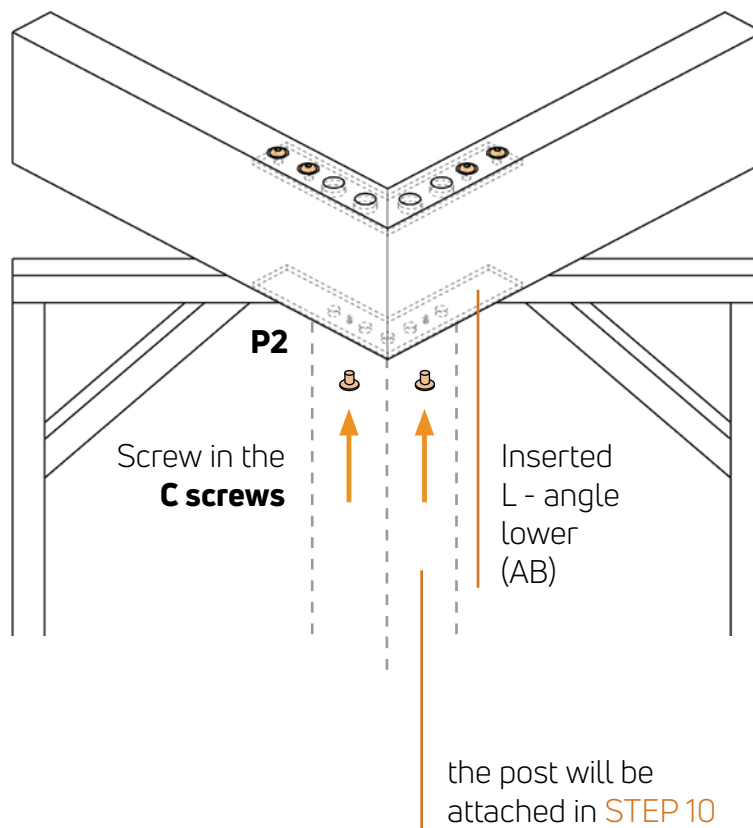


STEP 7.3

Longitudinal frame profile and lower L - angle (position P2 - with post)

Through the middle oval hole in the lower part of the frame the lower L-angle is attaching to the frame with **C screws** from below to prevent the L-angle from moving before screwing the post.

In position P2, the lower L - angle will be screwed together with the post in **STEP 10**.



STEP 8

Position of foot support (EXAMPLE TYPE frame)

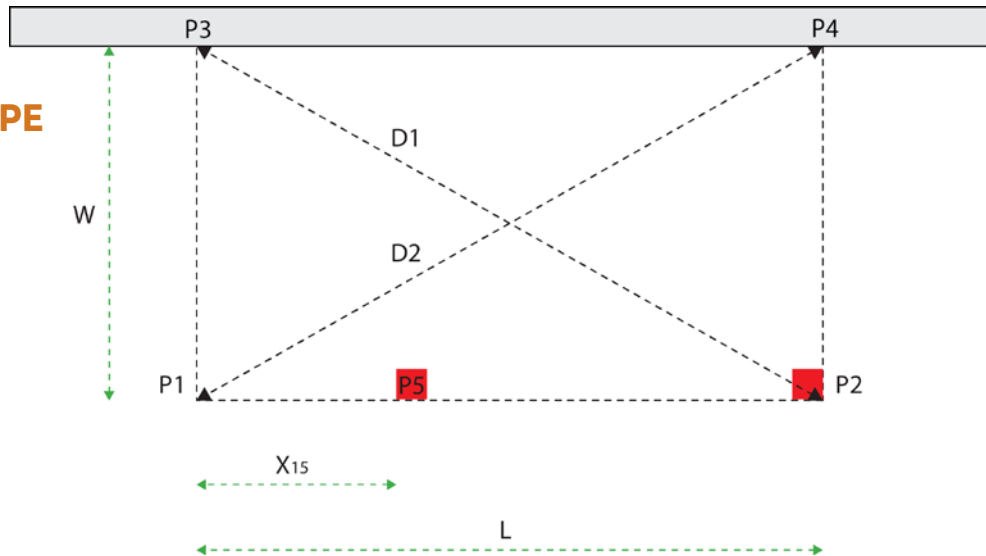


T1, T2 - Position of foundations (AD) under posts

NOTE: D1 = D2

Use a laser gauge. Tighten the screws of assembled frame, when the diagonals are properly set.

EXAMPLE TYPE Top view

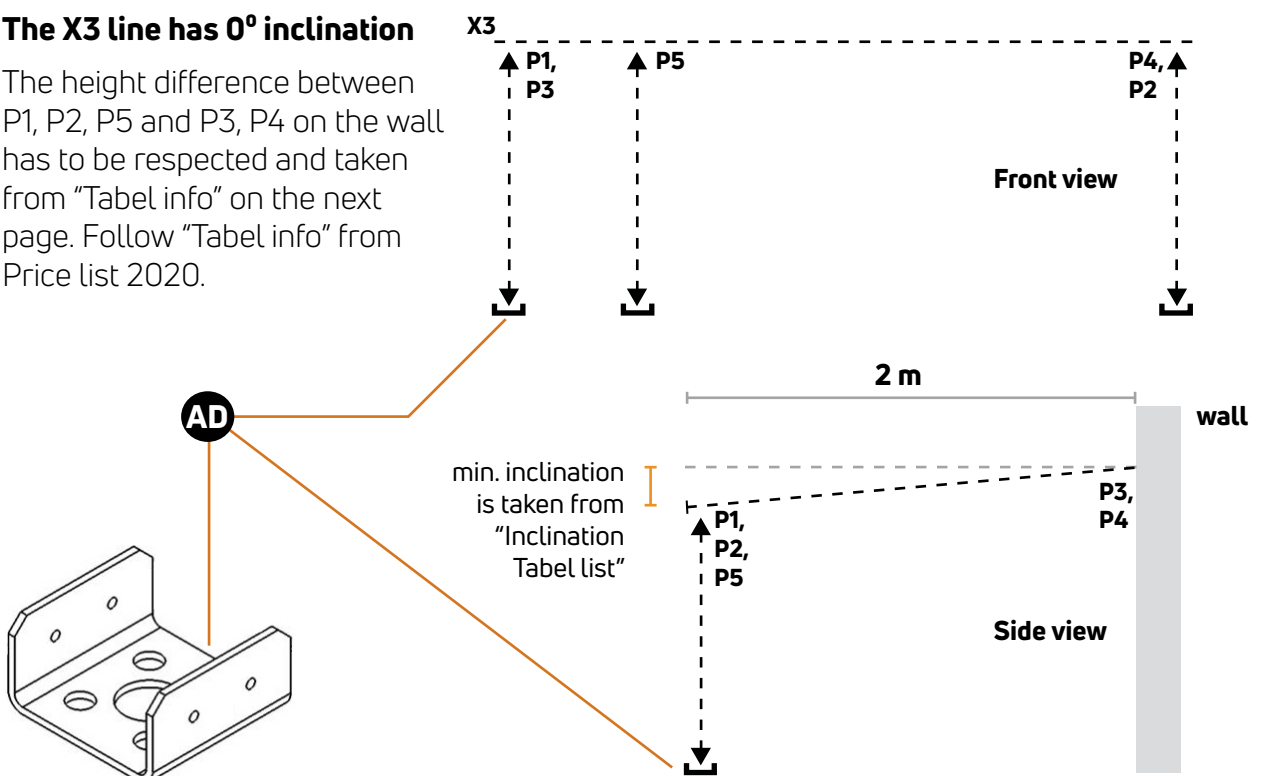


STEP 8.1

Inclination of the frame

The X3 line has 0° inclination

The height difference between P1, P2, P5 and P3, P4 on the wall has to be respected and taken from "Tabel info" on the next page. Follow "Tabel info" from Price list 2020.



STEP 8.2

Tabel info



Use this list for height differences.

Respect the values for different Pergola models and Type of Installations.

FRAME INCLINATION (in mm) has to be performed by installer

WIDTH OF PERGOLA

	Blade incl. in frame [mm]	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
Agava SL 160 / 28	0	5	5	10	15	20	30	/	/	/	/
Agava SL 170 / 28	9	0	0	0	5	10	20	/	/	/	/
Agava SL 170 / 36	6	0	0	0	0	5	10	15	/	/	/
Agava SL 240 / 36	9	0	0	0	0	0	5	10	/	/	/
Agava SL 240 / 60	9	0	0	0	0	0	0	5	5	10	10



ZIP roller blind, panels or glass

NOT POSSIBLE INSTALATION ON WIDTH

STEP 9

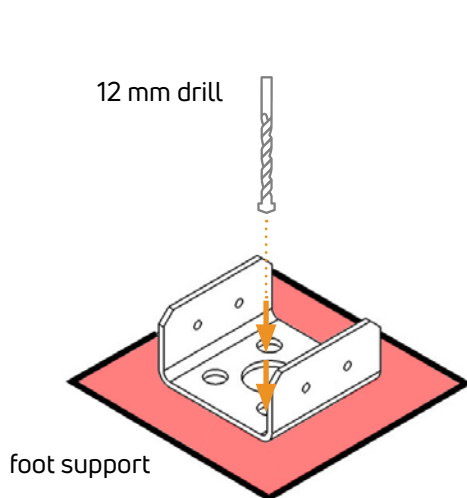
Attachment of pedestals



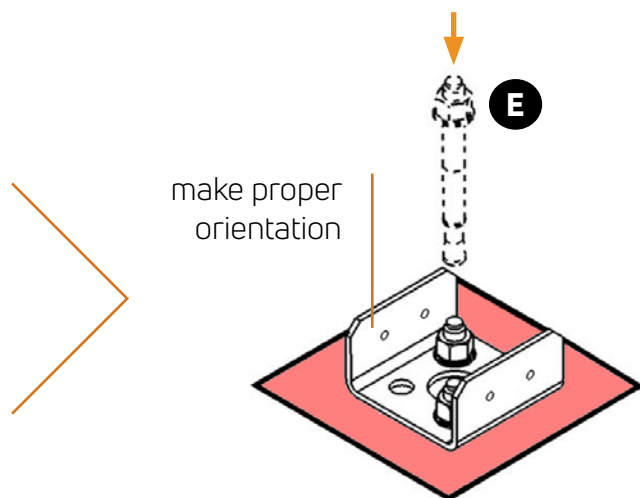
DRILLING AND INSERTING SCREW E

1. Drill into the foundation through the diagonal pair of holes. **Use a drill for concrete with a diameter of 12 mm.**
2. Insert screw E into the foundation holes.

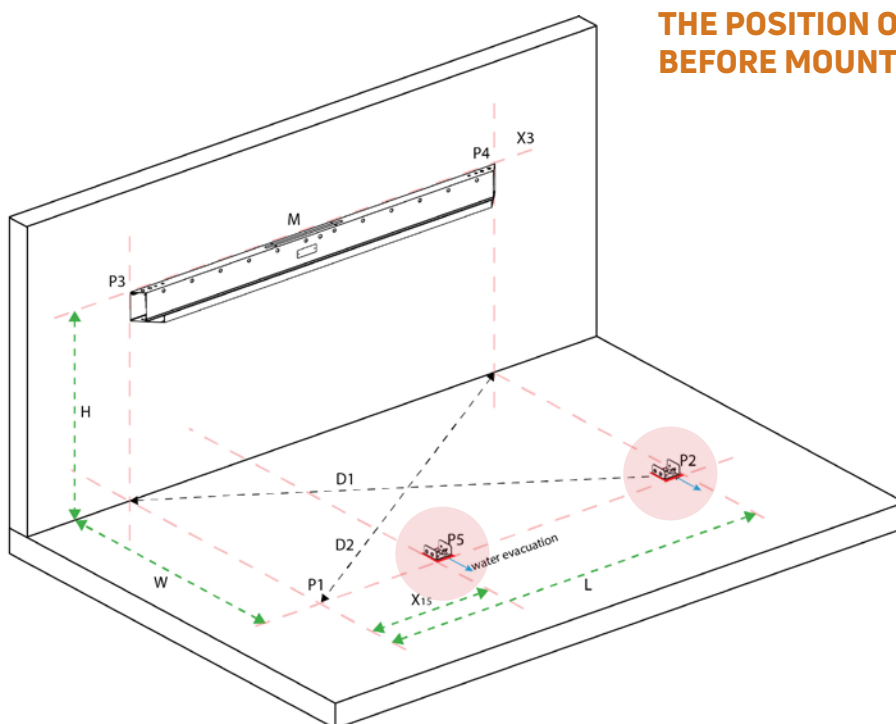
NOTE: Rotate the pedestal according to posts drainage opening.



1. DRILLING



1. INSERTING SCREW E



THE POSITION OF THE FOOT SUPPORT BEFORE MOUNTING THE POSTS

STEP 10

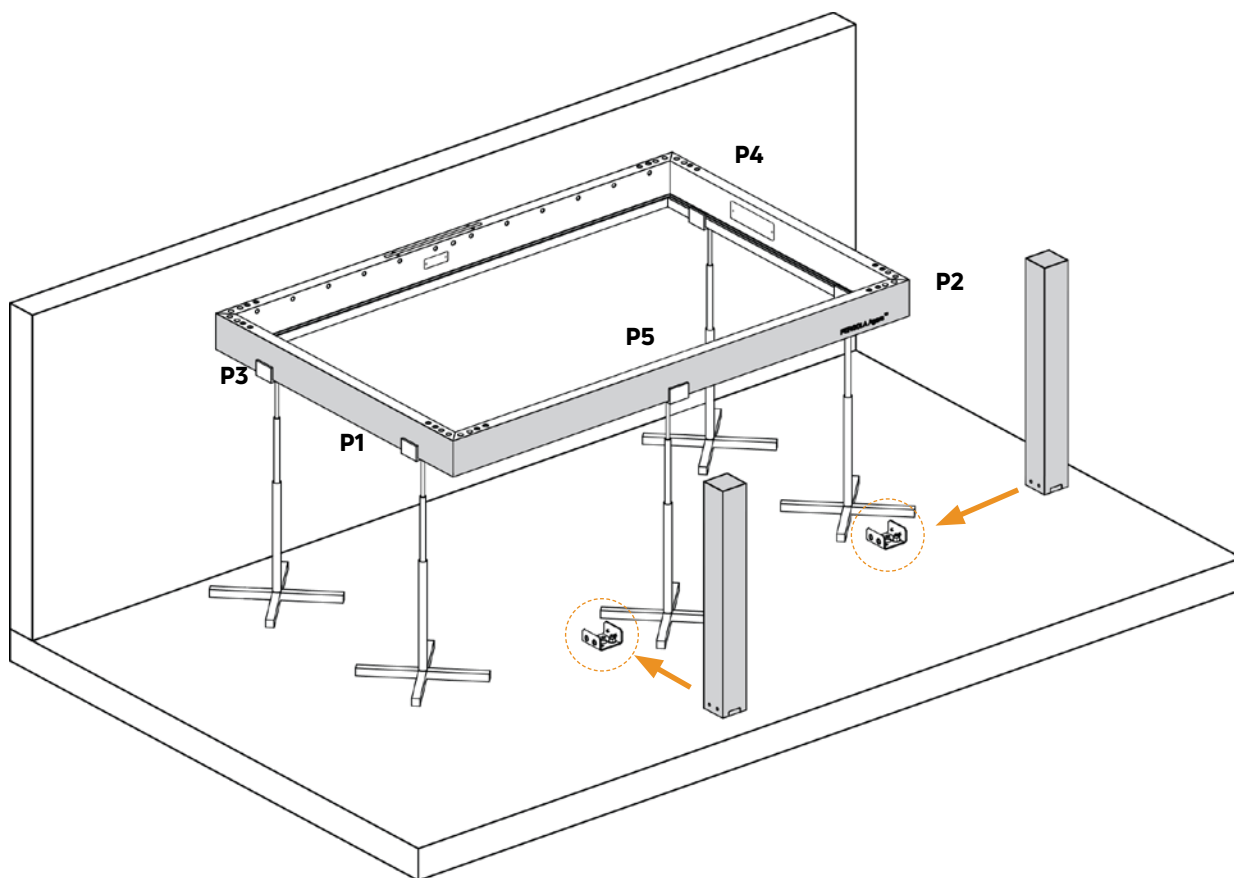
Laying frames on posts



LIFTING POSTS

1. Lift the composite profiles using lifting pads.
2. Place the posts on their position and screw them. **Do not forget to use your protective equipment.**
3. It is necessary to pay attention to the correct position and orientation of the posts.

Check your plans and your order.



STEP 10.1

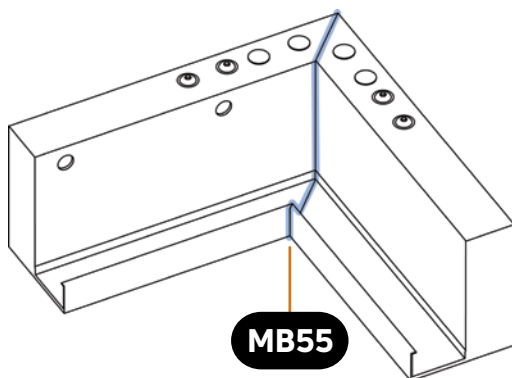
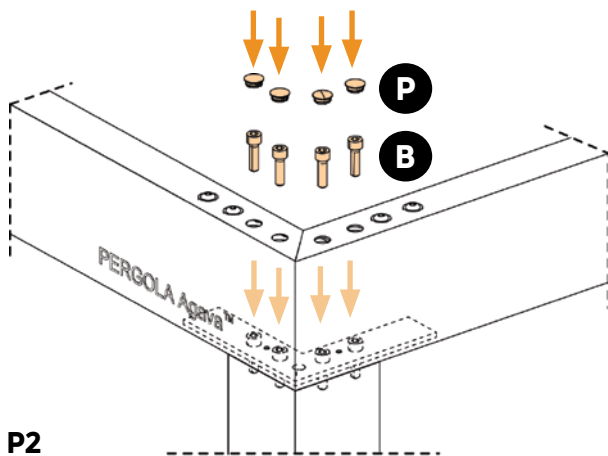
Screwing the post on position P2



SCREWING THE LOWER L - ANGLE WITH A SUPPORTIVE POST (P2)

1. Use the **screws B** and screw the lower L - angle with post.
It is necessary to have a hexagonal key, to be long at least 20 cm.

2. Openings on the upper side of the frames, seal with plastic **bushes P**.
The bonding edges can be sealed with adhesive. Use the Merbenit MB55 adhesive.

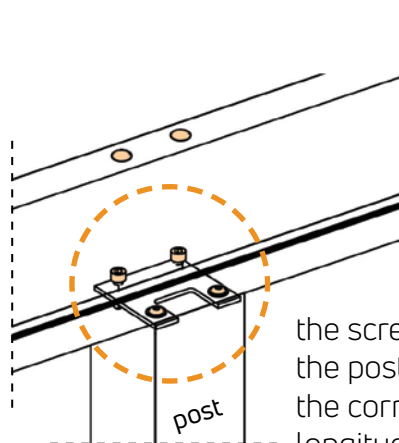
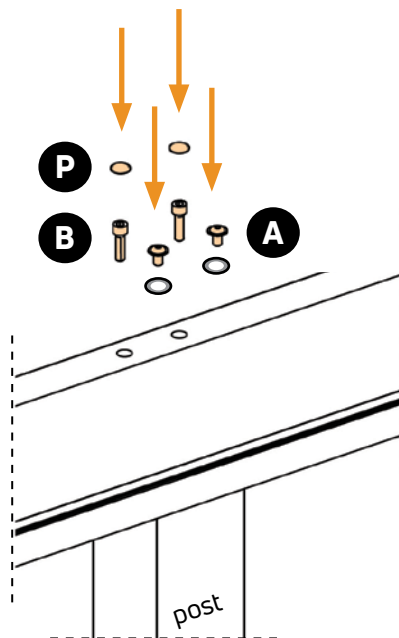


P1, P2, P3, P4

STEP 10.2

Screwing the post on position P5

SCREWING THE PLATE FOR POST OUT OF THE CORNER WITH A SUPPORTIVE POST (P5)



1. Place the post on its position and screw it with **screws B**. Screw the **screws A** in the gutter with rubber washer under them.

Do not forget to use your protective equipment.

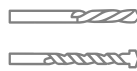
2. Seal the openings on the upper side of the frames with plastic **bushes P**. **The bonding edges can be sealed with adhesive. Use the Merbenit MB55 adhesive.**

3. It is necessary to pay attention to the correct position and orientation of the post.

Check your plans and your order.

STEP 11

Attaching the frame to the wall



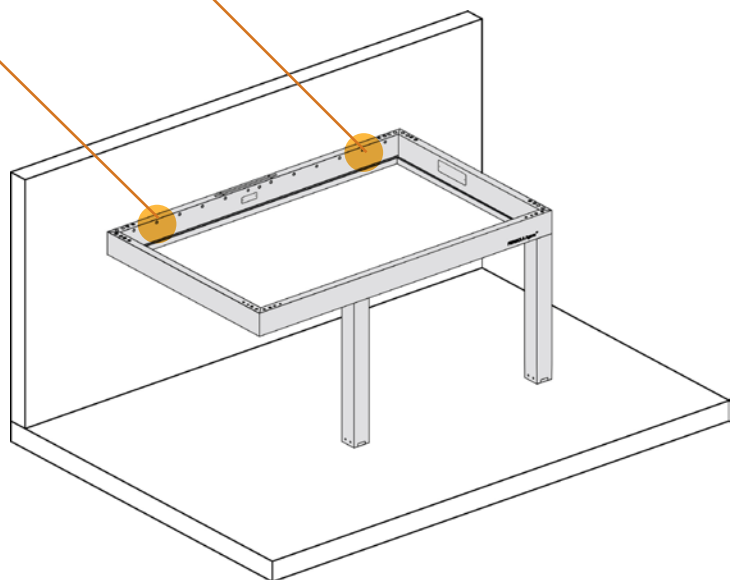
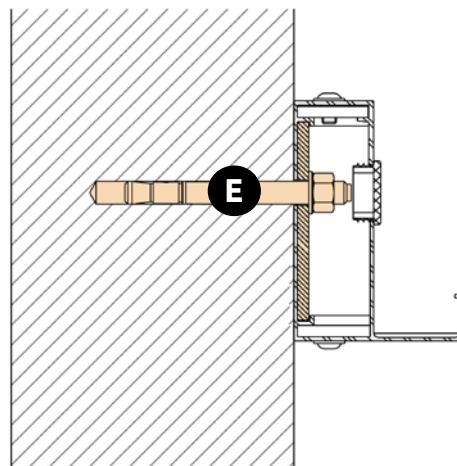
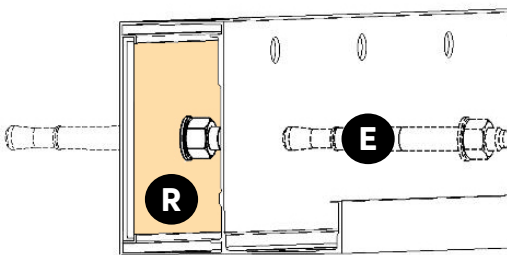
The frame is raised and leaned to the wall, then the profile of the frame is fastened (P3, P4). **Do not forget to use your protective equipment.**

The frame must be supported by the pedestals until the fixing to the wall is completed.

The **R plate** was inserted into the profile in **STEP 5**.

To drill the hole to the wall, use **drill Ø 12**.

Use anchor **bolts E** for fixing profile to the wall.



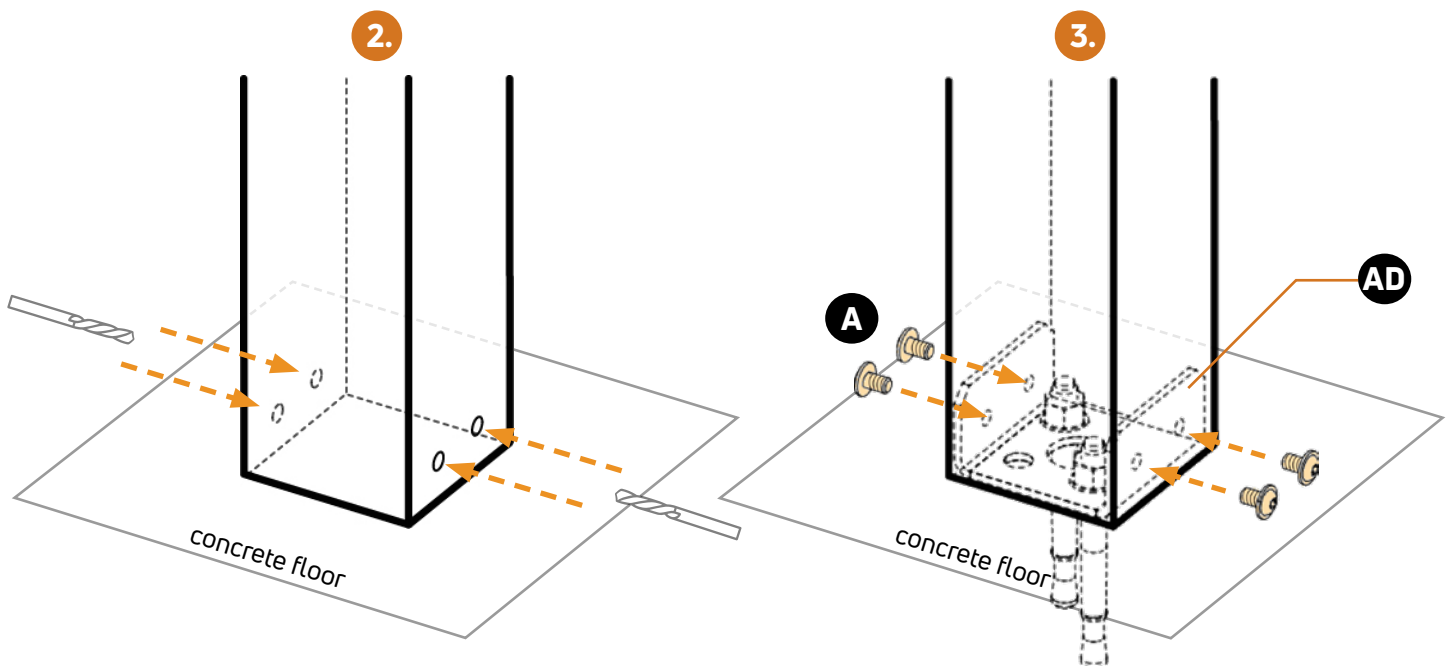
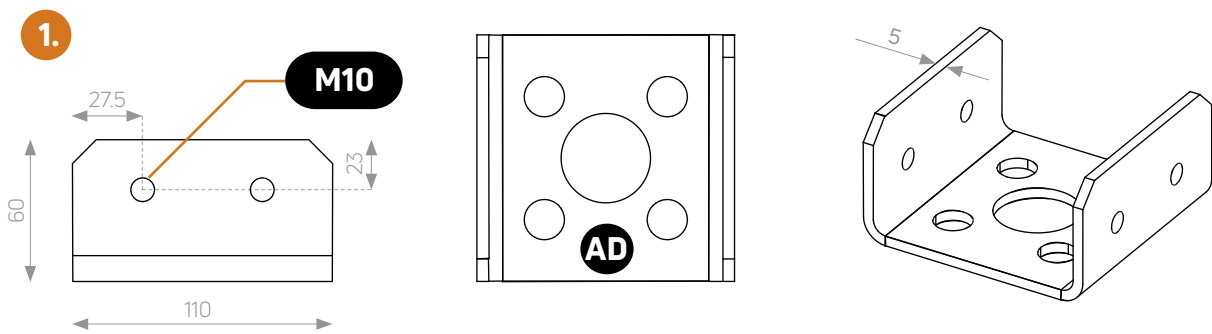
STEP 12

Screwing the post and foot support



1. The post is placed on **foot support AD**. There are two holes **M10** in the foot support.
2. **Two holes** must be drilled into the **post**. The positions of the holes are adjusted to the conditions at the installation site. **Check the positions of the holes M10 on the foot support!**
3. After the post is placed on foot support, **screw A** is screwed to fix post and foot support.

The post must be grounded on floor.

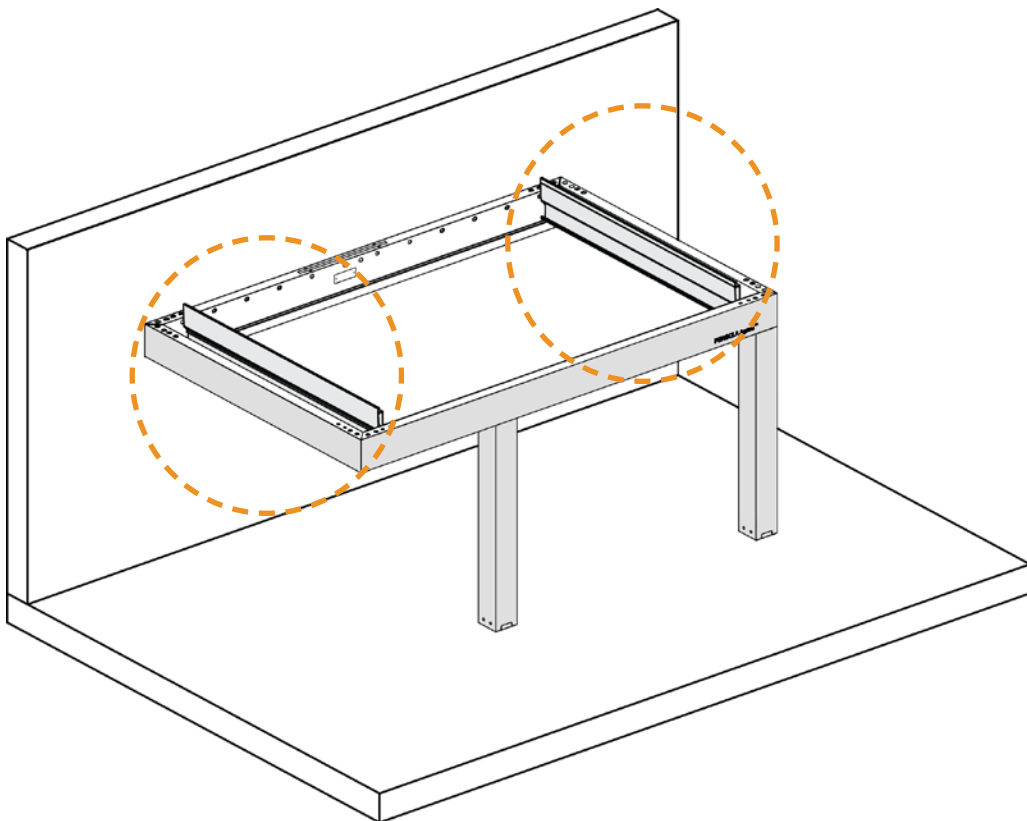


STEP 13

Assembly of blades

The blades are inserted into a structure and standing frame.

First, insert the blades at both ends of the structure.

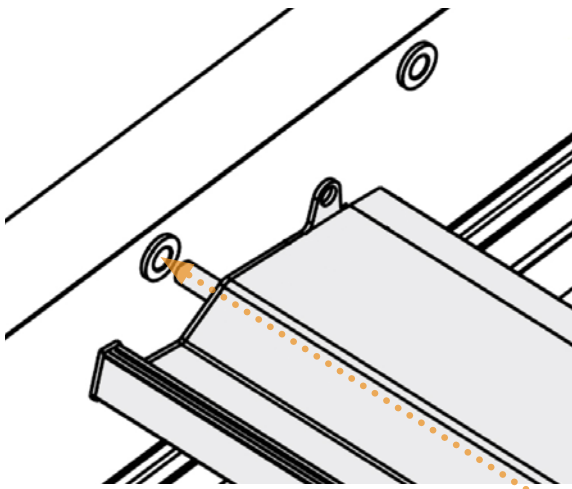


STEP 13.1

Inserting the blades

The long axis of the blade is inserted into the profile with motor drive.

The long axis of the blade is on the side of the blade where the cover with "ear" is located.

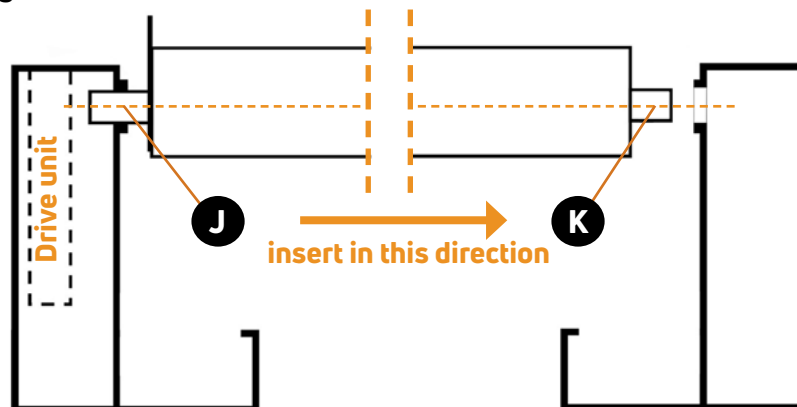


Inserting the blade

POSITION 2

Position after installing **the longer axis (kingpin) J** in the motor drive frame.

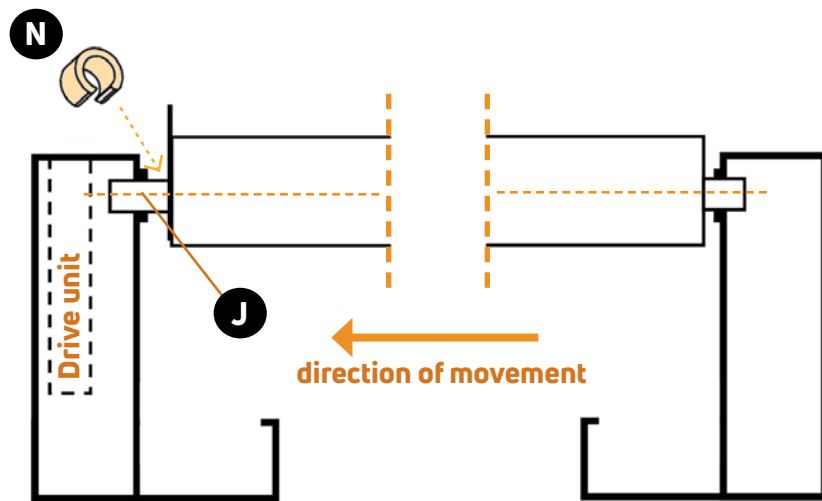
The shorter axis (kingpin) K of the blade is then inserted into the opposite lying coaxial opening.



POSITION 2

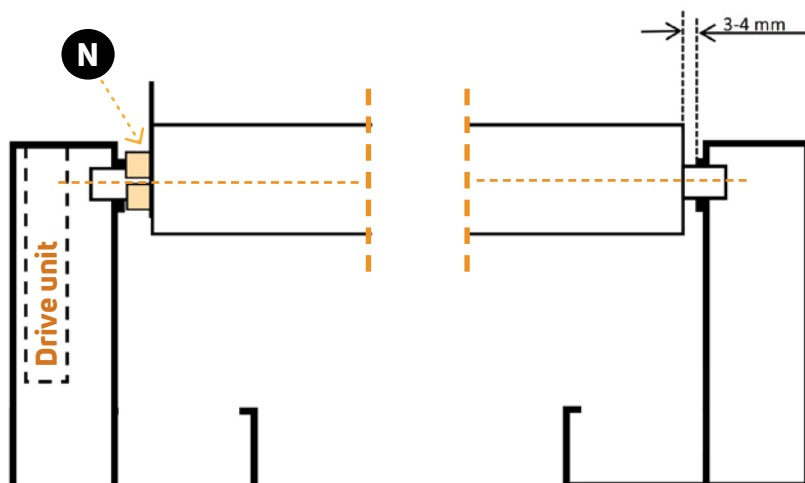
Position 2 of the blade when **both axis are inserted into the frame**.

Place a **distance plastic bush** **N** around **the longer axis (kingpin)** **J**



POSITION 3

After installing the **distance plastic bush**, move the blade in the direction of the longer axis. On the side of the shorter axis there should be a space of **3-4 mm** between the blade and the frame.



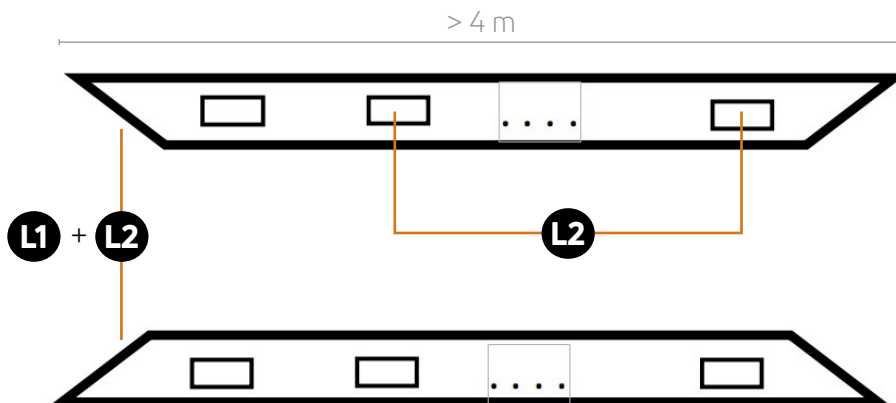
STEP 13.2

Inserting the blades with connecting wire rope

If the frame is longer than **4 m**, some blades have reinforcement bindings inserted into their axis.

Number of those blades depends on the length of **L1, L2 profiles**.

Positions of these blades are determined by service holes **(1)** on the top of the longitudinal frame profile.



STEP 13.3

Inclination of blades

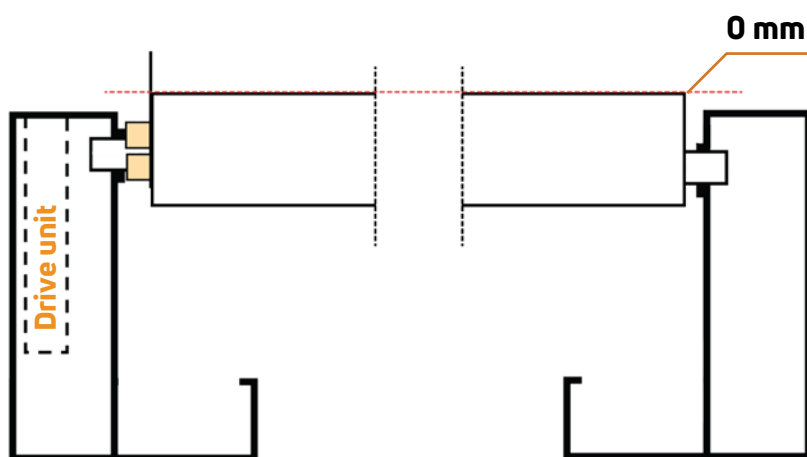
For water to outflow properly, the blades must have a certain inclination.

The inclination of the blades differs between different Pergola Agava models.

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The difference in blades position height is **0 mm**.

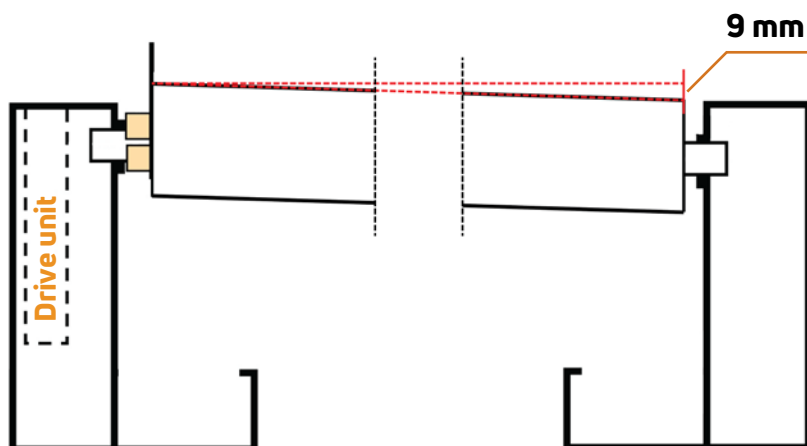
The inclination of the blades can be achieved by inclining the frame (STEP 8.1 and 8.2)



170/28

The difference in blades position height is **9 mm**.

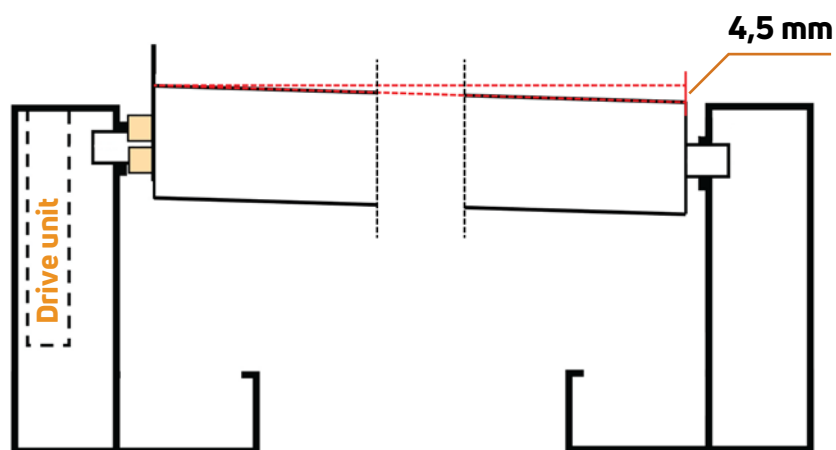
The blade is declining from Drive unit side.



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The difference in blades position height is **4,5 mm**.

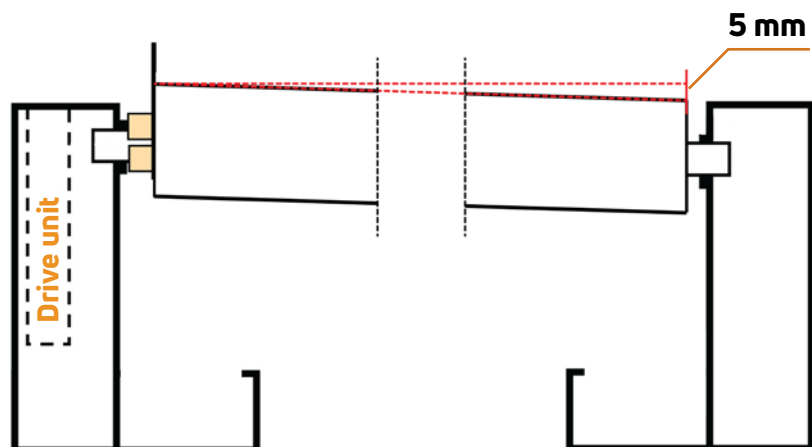
The blade is declining from Drive unit side.



240/36

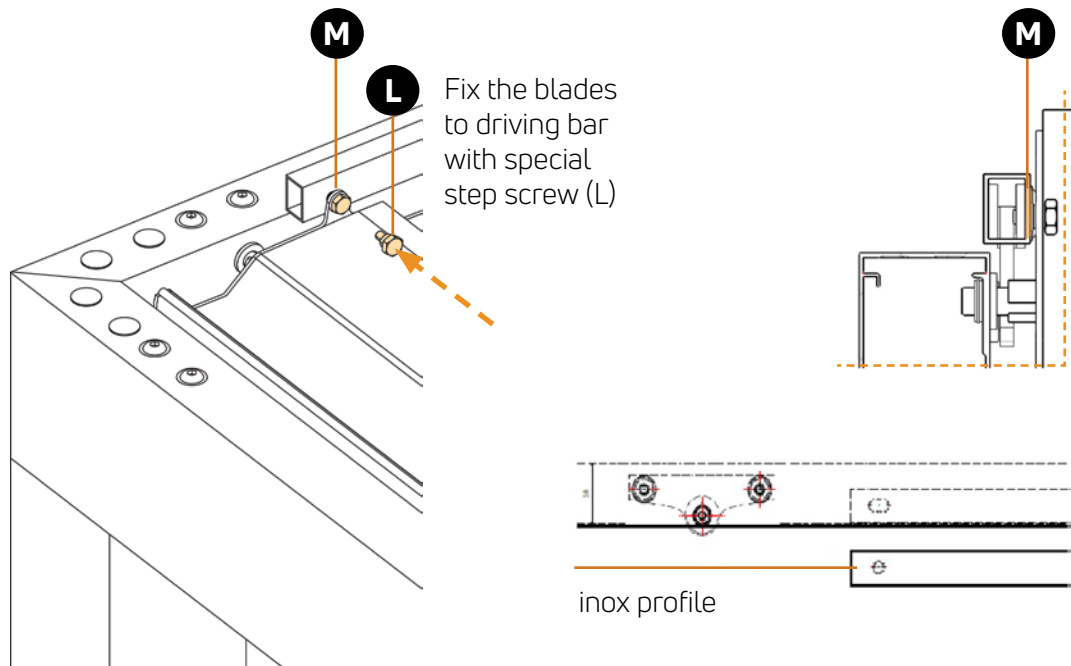
The difference in blades position height is **5 mm**.

The blade is declining from Drive unit side.



STEP 14

Connection of blades to drive bar



STEP 14.1

Adjustment of closing of the blades



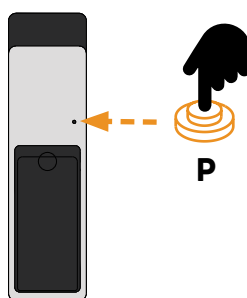
1. On the side where the blades are still open, unscrew the blades.
2. Move the inox profile **1 mm** from the center towards the corner of the pergola, where the blades are not fully closed.
3. Fasten the blades with **L-screws** and Make "**self-test**".
4. For security reason we suggest to block alu bar and inox plate together with **M6 screw and nuts**.

STEP 14.2

Self test - Self learning of limit switches

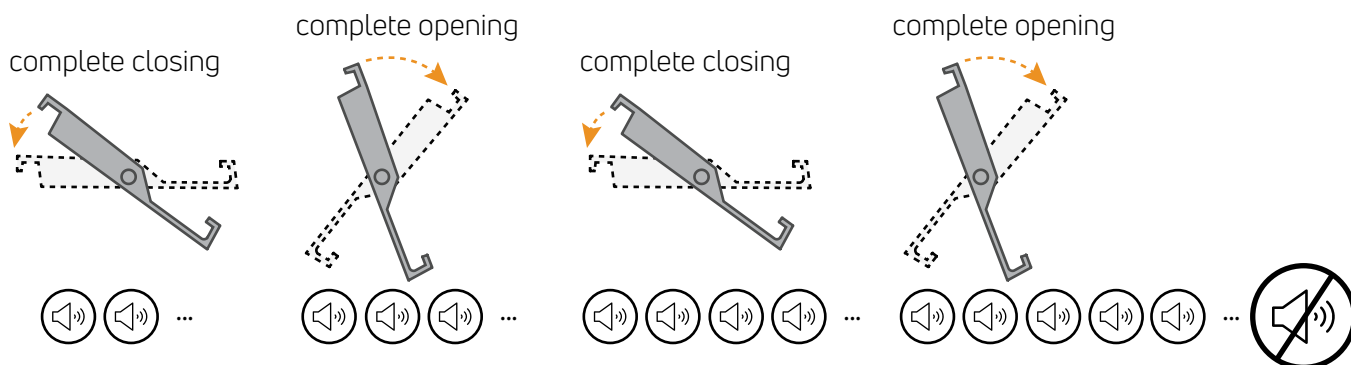
When you fix screws, make a **"self-test" on Remote Control.**

1. Press **P** and hold it about 10s until it's signalled by a sound.



DO NOT change the DIP configuration. This change would be signalled by a new intermittent sound and flashing of L3 on Teleco driver and would require a new configuration procedure.

2. **Motor 1** and **Motor 2** configuration.

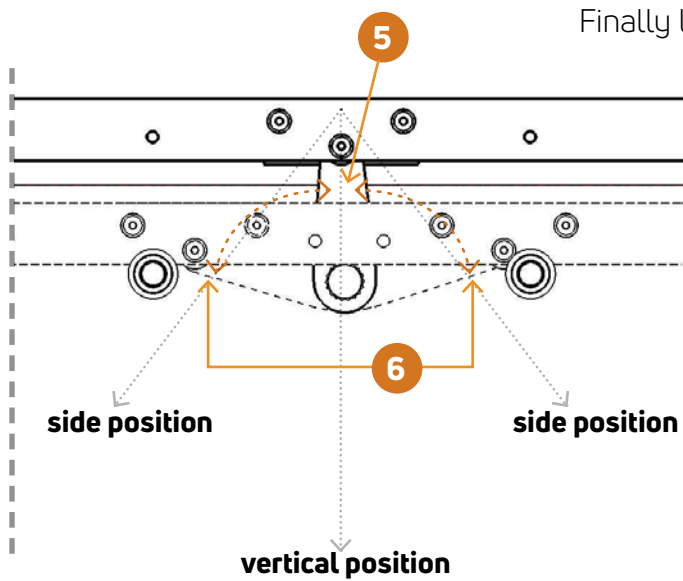


If the "self-test" failed and blades dont open and close correctly, you have to set them manually.

Move the rotating lever **5** to the both end positions **6**.

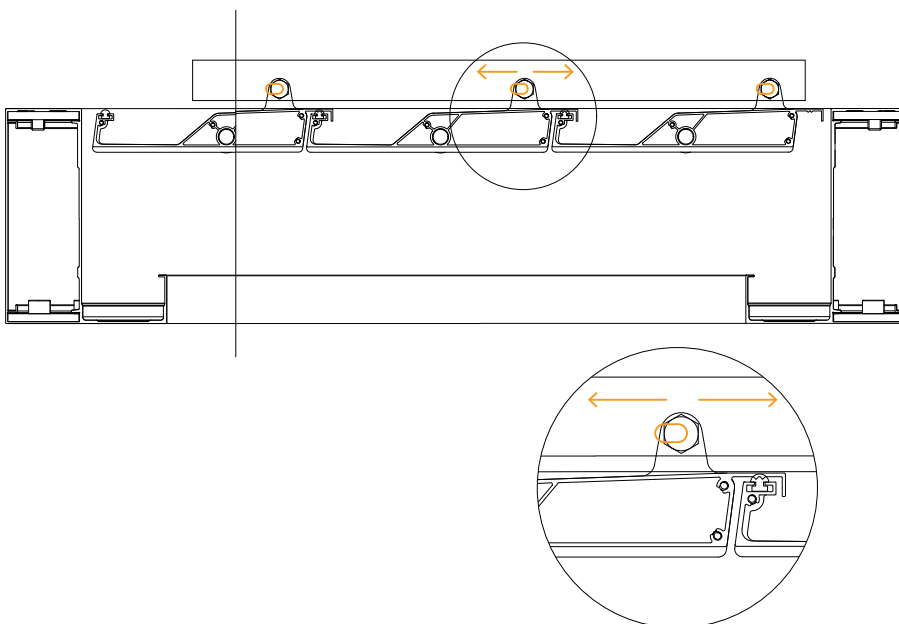
Follow the instructions for driving the drive (Chapter G).

Finally leave your lever in a vertical position.



ADJUSTING THE SCREW

Adjust the special step screws (L) by moving them on to the left or right.



STEP 14.3

Remote control, settings and management

2 TRANSMITTERS

A 1 BUTTON

Functions:
OPEN-STOP-CLOSE

B AUTOMATIC COMMANDS (2 or 3 BUTTONS)

CH1	Open (STOP)	CH5	Open
CH2	Close (STOP)	CH6	STOP
CH3	Open (STOP)	CH7	Close
CH4	Close (STOP)		
CH5	Open		
CH6	STOP		
CH7	Close		

7/42 channel transmitter 3/18 channel transmitter

2 channel transmitter

C HOLD-TO-RUN COMMANDS (2 or 3 BUTTONS)

CH1	Open (hold-to-run)	CH5	Open (hold-to-run)
CH2	Close (hold-to-run)	CH6	STOP
CH3	Open (hold-to-run)	CH7	Close (hold-to-run)
CH4	Close (hold-to-run)		
CH5	Open (hold-to-run)		
CH6	STOP		
CH7	Close (hold-to-run)		

7/42 channel transmitter 3/18 channel transmitter

2 channel transmitter

2.1 Radio codes memorization

TYPE OF MEMORIZATION	P1..P4 **	hold	continuous sound	
A 1 BUTTON: OPEN > STOP > CLOSE	* 2X	hold	continuous sound	Press the button of the transmitter relative to the code to memorize.
B AUTOMATIC COMMANDS (2 or 3 BUTTONS)	* 3X	hold	intermittent sound	Press the button of the transmitter relative to the code to memorize.
C HOLD-TO-RUN COMMANDS (2 or 3 BUTTONS)	* 4X	hold	intermittent sound	Press the button of the transmitter relative to the code to memorize.

Press P1, P2, P3 or P4 (**) as many times as required by the type of desired memorization and hold the last time. The buzzer emits a continuous sound. Press the button of the transmitter relative to the code to be memorized. Successful memorization is indicated by the intermittent sound of the buzzer

* The buzzer will make a beep each time the button is pressed. ** According to the motor to be associated

2.2 Radio codes deletion

TYPE OF DELETION	P1..P4 **	hold	continuous sound	
SINGLE RADIO CODE	* 5X	hold	intermittent sound	Press the button of the transmitter relative to the code to delete
ALL THE RADIO CODES	* 6X	hold (10 s)	intermittent sound	Press P1, P2, P3 or P4 6 times and the sixth time hold for 10 seconds. The buzzer emits a fast intermittent sound. Release when the sound becomes continuous.

2.3 Remote memorization of further radio codes

Note: P3 button is located inside the transmitter. The added radio code will have the same functions of the code used for the memorization. This procedure is compatible with any type of transmitter.

Press the button P3 of the memorized transmitter. The buzzer emits a continuous sound. Press the button relative to a memorized code. The sound stops for 1 second then it starts again. Press the button relative to the new code. The memorization is indicated by an intermittent sound of the buzzer.

2.4 Remote deletion of a radio code

Note: P3 button is located inside the transmitter.

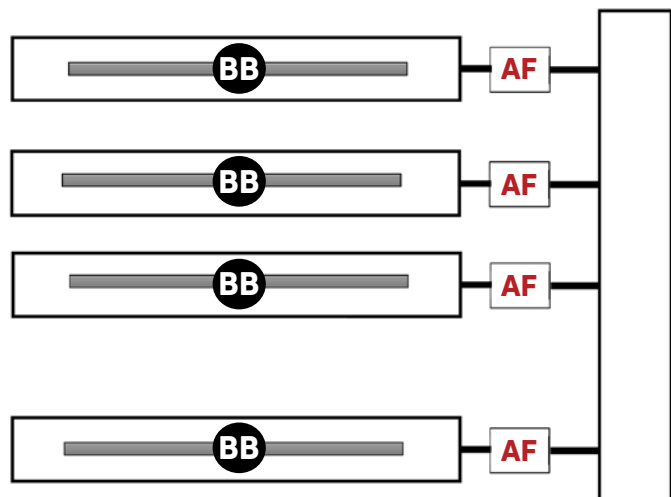
Press 3 times the button P3 of the memorized transmitter. The buzzer emits a slow intermittent sound. Press the button relative to the code to delete within 5 seconds. The buzzer will stop sounding.

* The buzzer will make a beep each time the button is pressed. ** According to the motor to be associated

STEP 14.4

Connecting the sockets and testing integrated LED lights

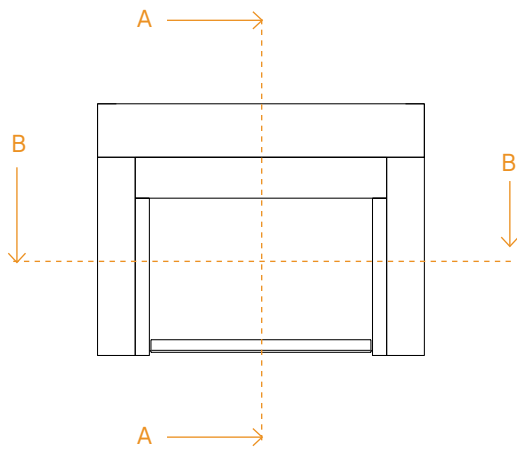
- 1. LED LIGHT**
Connecting of plug and socket on **AF** joint.
- 2. TESTING LED LIGHTS**
Use the remote control and follow the instructions, OPTIONS chapter. Check if **all LEDs** are **ON** and **OFF**. When testing is complete, disconnect the connectors (**AF**). **BB blades** have integrated **LED lights**.



OPTIONS

ZIP ROLLER BLIND

Front view

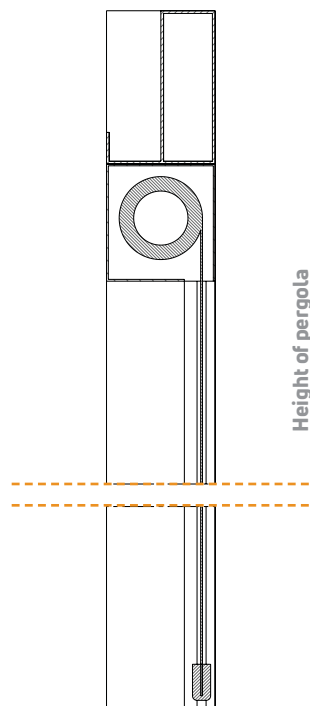


Guides of the **roller 1** left and right, must be fixed on the **posts 2**

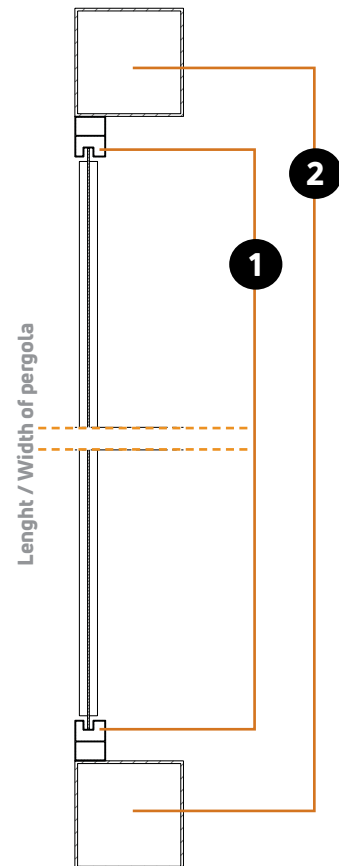
Use self-tapping screw.

The outer side of the post and the outer side of the guide must be in the same plane.

Section view A-A



Section view B-B



OPTIONS

ZIP ROLLER BLIND

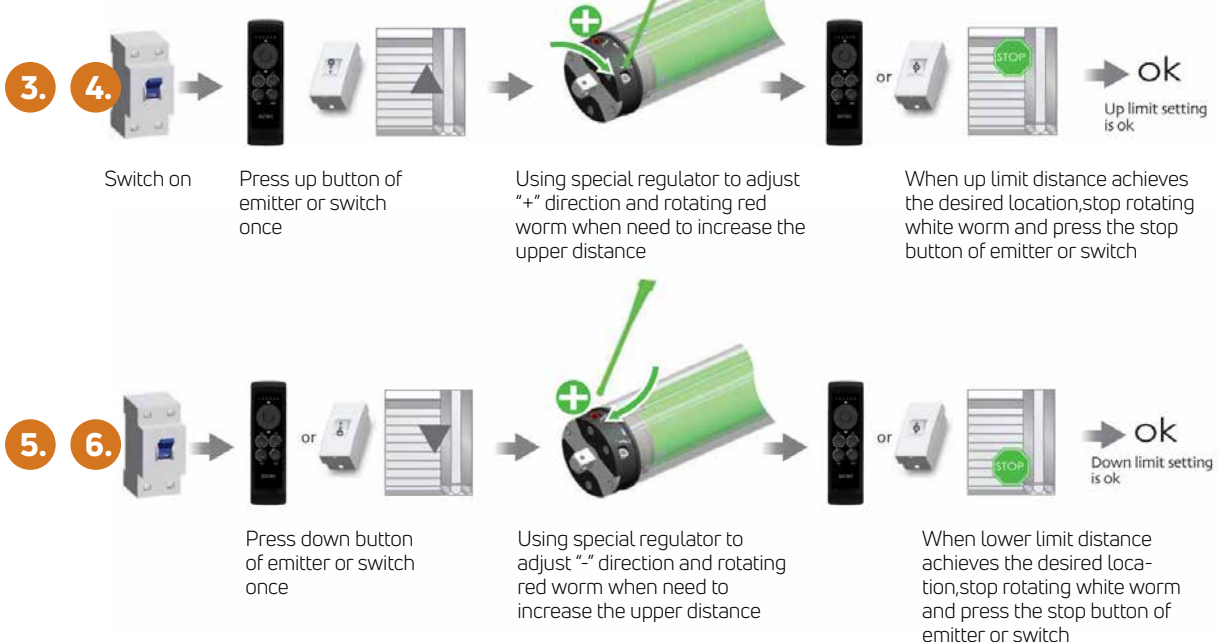


1. Open **ZIP roller blind Cassette**, that is mounted on the profile.
2. Locate the **setting tool** with **-** and **+** point.

TOP AND BOTTOM LIMIT SETTINGS: ZIP Rolo setting stick is used with electric drill machine to adjust TOP and BOTTOM Points.

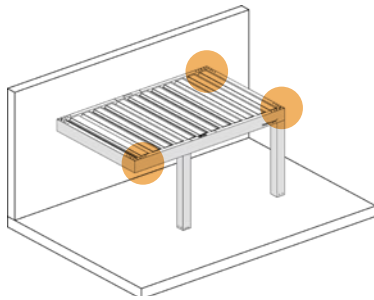
3. Use the remote control to lower ZIP roller to its available **highest Point**.
4. Insert the stick into the adjustment point **+** and screw it to lower roller to its **TOP Point**.
5. Use the remote control to lower ZIP roller to its available **lowest Point**.
6. Insert the stick into the adjustment point **-** and screw it to lower roller to its **BOTTOM Point**.




If you use external receiver, the motor is controlled by emitter; If you use external switch the motor is controlled by switch. When motor stops, do not rotate the white limit hole!



OPTIONS

RAIN SENSOR



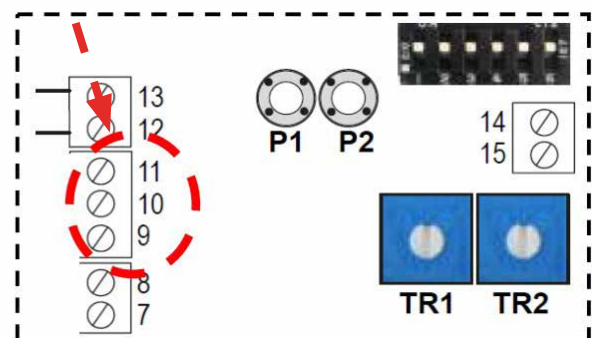
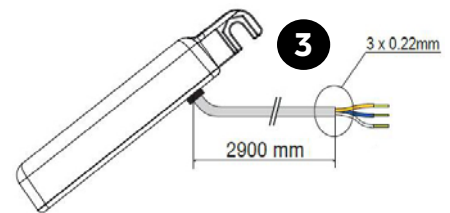
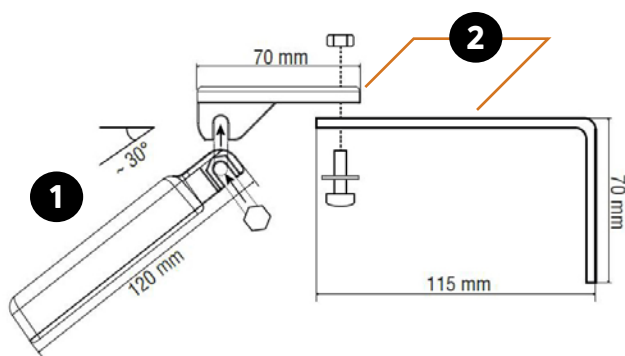
White wire (12V)		9
Blue wire (signal)		10
Yellow wire (ground)		11

The rain sensor set contains a **sensor with wiring 1** and **fastening elements 2**

Rain Sensor is mounted on a suitable surface that is completely exposed to rain (for example, the upper surface of the frame for the blades).

Signal cable in the sensor 3 is connected to **the control unit 4** located in the **W - profile**.

Wires in the cable must be connected at the appropriate coupling points.



OPTIONS

WIND SENSOR

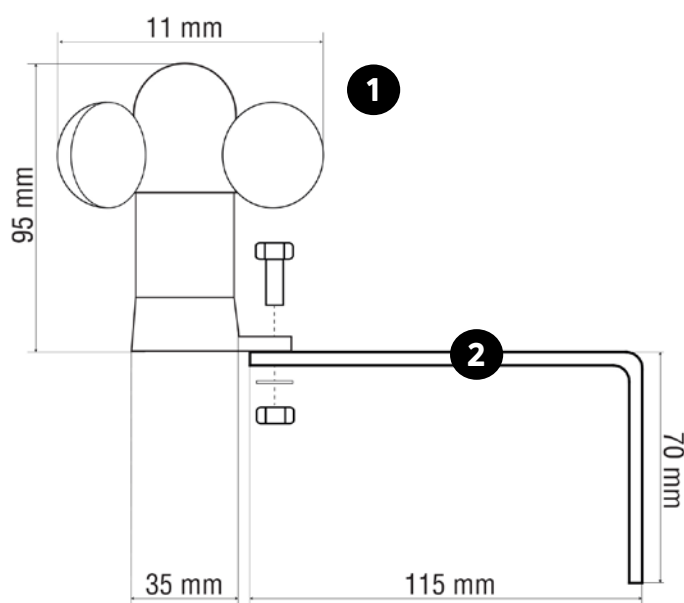
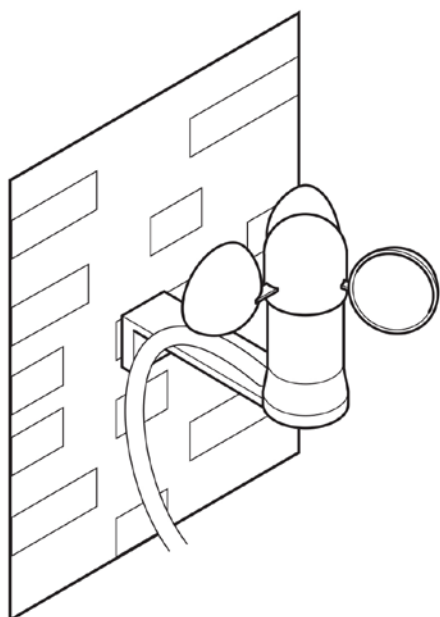
The wind sensor set contains a **sensor with wiring 1** and **fastening elements 2**

Wind Sensor is mounted on a vertical surface. The location of the accommodation must not be in the shelter.

Signal cable in the sensor 3 is connected to the **control unit 4** located in the **W profile**.

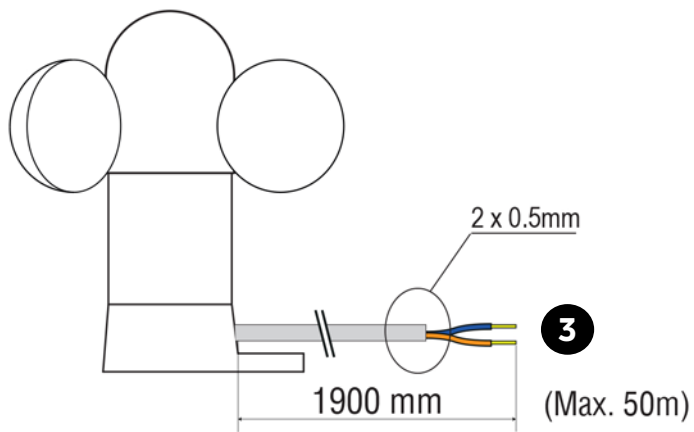
Blue wire  7
Brown wire  8

Wires in the cable must be connected at the appropriate coupling points.

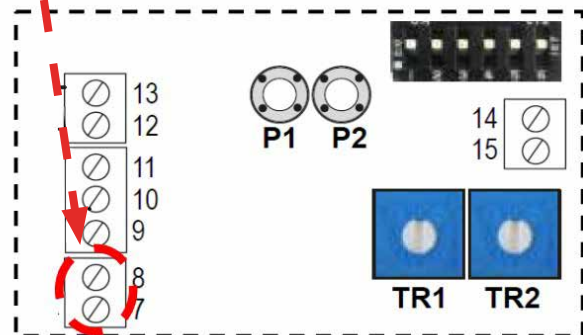


OPTIONS

WIND SENSOR



4




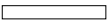
OPTIONS

TEMPERATURE SENSOR with wiring - Mounting

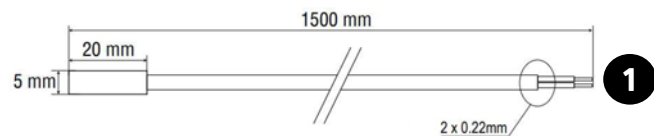
The sensor is placed in a suitable place. It can be inserted into the profile from the frame.

The location of the accommodation must not be in the shelter. The sensor is designed to alert you to low temperatures.

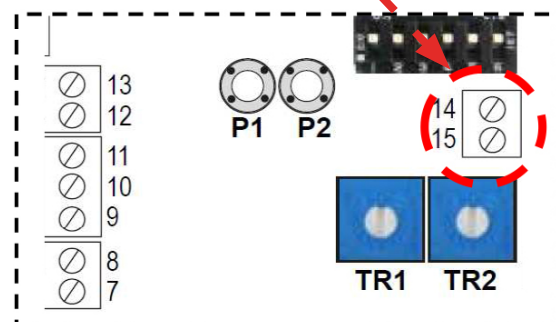
Signal cable in the sensor 1 is connected to **the control unit 2** located in the **W profile**.

Black wire  14
White wire  15

Wires in the cable must be connected at the appropriate coupling points.



2








OPTIONS







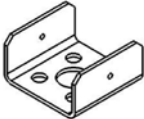

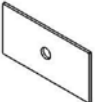
SLIDING PANELS




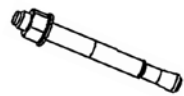




Glass, Aluminium &
Wooden slats

Detailed assembly of Sliding panels is explained in a separate Manufacturing Guide.

ITEM TYPE LIST 2





	Number of pieces	Mark on the sketch	
<p>Longitudinal frame profile with motor and holes for blades length = L</p> <p>with components:</p> <ul style="list-style-type: none"> - motor unit, - drive unit inside the profile, - drive batten with screws $\varnothing 10/M6 \times 19$ and washers M6 - cover plates for service holes for motor & connecting wire ropes with screws M5 x 10 - cables with connectors AG, AF, AH - plastic bushes. 	1	L1	
<p>Longitudinal frame profile without motor and with holes for blades length = L</p> <p>with components:</p> <ul style="list-style-type: none"> - cover plates for service holes for connecting wire ropes with screws M5 x 10 - plastic bushes 	1	L2	
<p>Transverse frame profile with service hole length = W</p> <p>with components:</p> <ul style="list-style-type: none"> - control unit for motor - cover plate with screws M5 x 10 - cables with connectors AG, AF, AH - transformer 220 - 24V - control unit for ZIP roller blind or heater or LED light, if it is in order 	1	W1	
<p>Transverse frame profile length = W</p>	1	W2	
<p>Post</p> <p>with components:</p> <ul style="list-style-type: none"> - ALU and stainless steel plate welded to the post for screwing a post to the frame 	2		

	Number of pieces	Mark on the sketch	
<p>Blade</p> <p>with components:</p> <ul style="list-style-type: none"> - kingpin long and short - blade covers - sealing rubber 	n1		
<p>Blade with LED light</p> <p>with components:</p> <ul style="list-style-type: none"> - kingpin long with holes for cable - kingpin short - blade covers - sealing rubber - LED light, cable and connector 	n2		
<p>Blade with connecting wire rope</p> <p>with components:</p> <ul style="list-style-type: none"> - kingpin long and short with holes for wire rope - blade covers - sealing rubber - wire rope - nuts M6 self-locking hex - washers M6 large flat 	n3		
L-angle upper	4	AA	
L-angle lower	2	AB	
L-angle lower, connecting & with threads	2	AC	
U - support stainless steel foots	2	AD	
Metal plate for supporting post	1	Y	
Metal plate for fixing the frame to the wall ALU	m	R	

	Number of pieces	Mark on the sketch	
Screw M10 x 20 inbus round head with collar	26	A	
Screw M10 x 35 inbus socket head cap	18	B	
Screw M6 x 16 inbus round head with collar	4	C	
Anchor bolt M12 x 135	4 + m	E	
Distance plastic bush	n	N	
Rubber washer	2		
Plastic caps Ø18 for screw holes	18	P	
Plastic caps 5/4" for wall fixation holes	m	Q	

n - number of blades

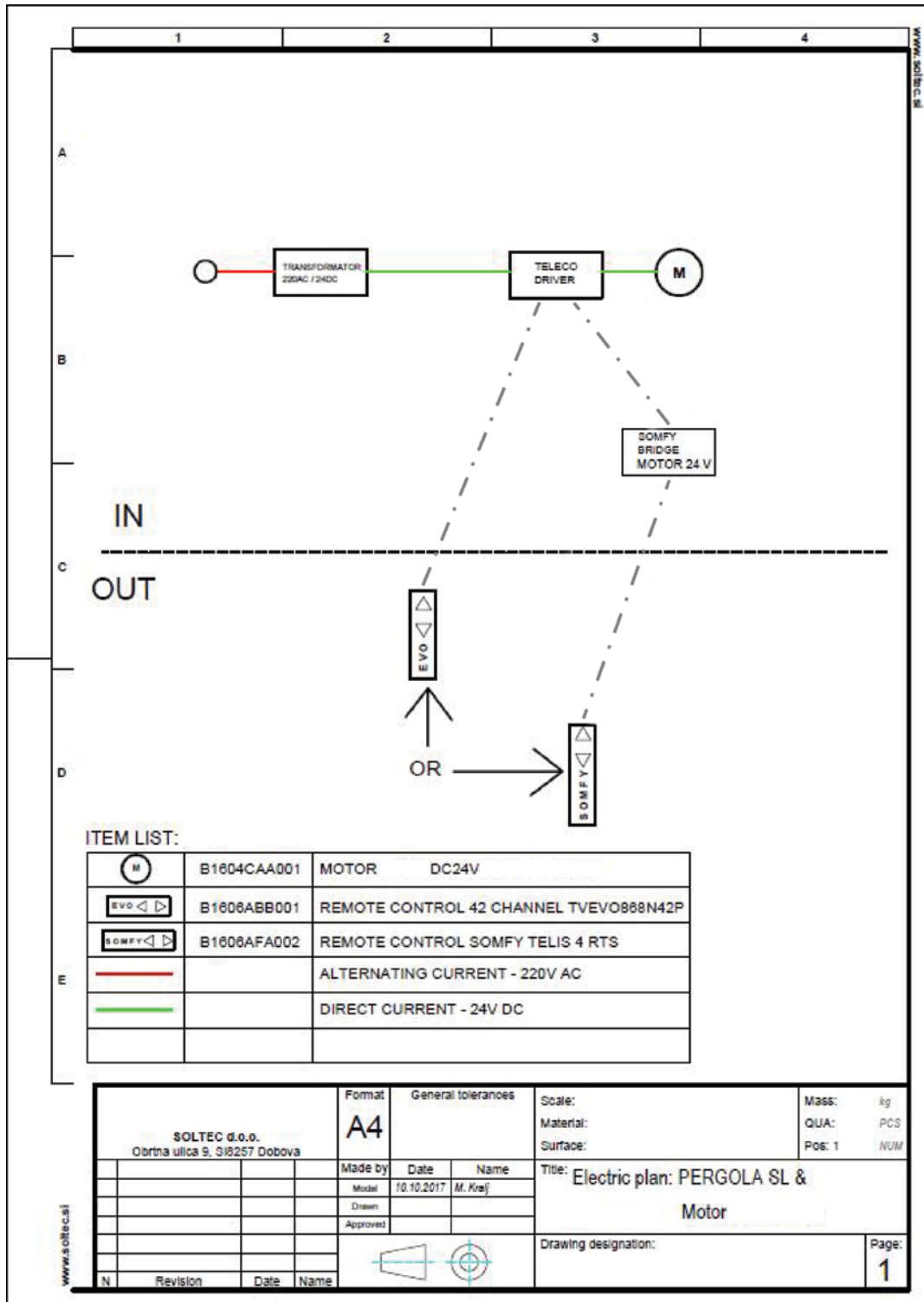
m - number of holes in the wall

Number of pieces		
Remote control	1	
Rain sensor	1	
Wind sensor	1	
Temperature sensor	1	

ATTACHMENTS

Electric plans

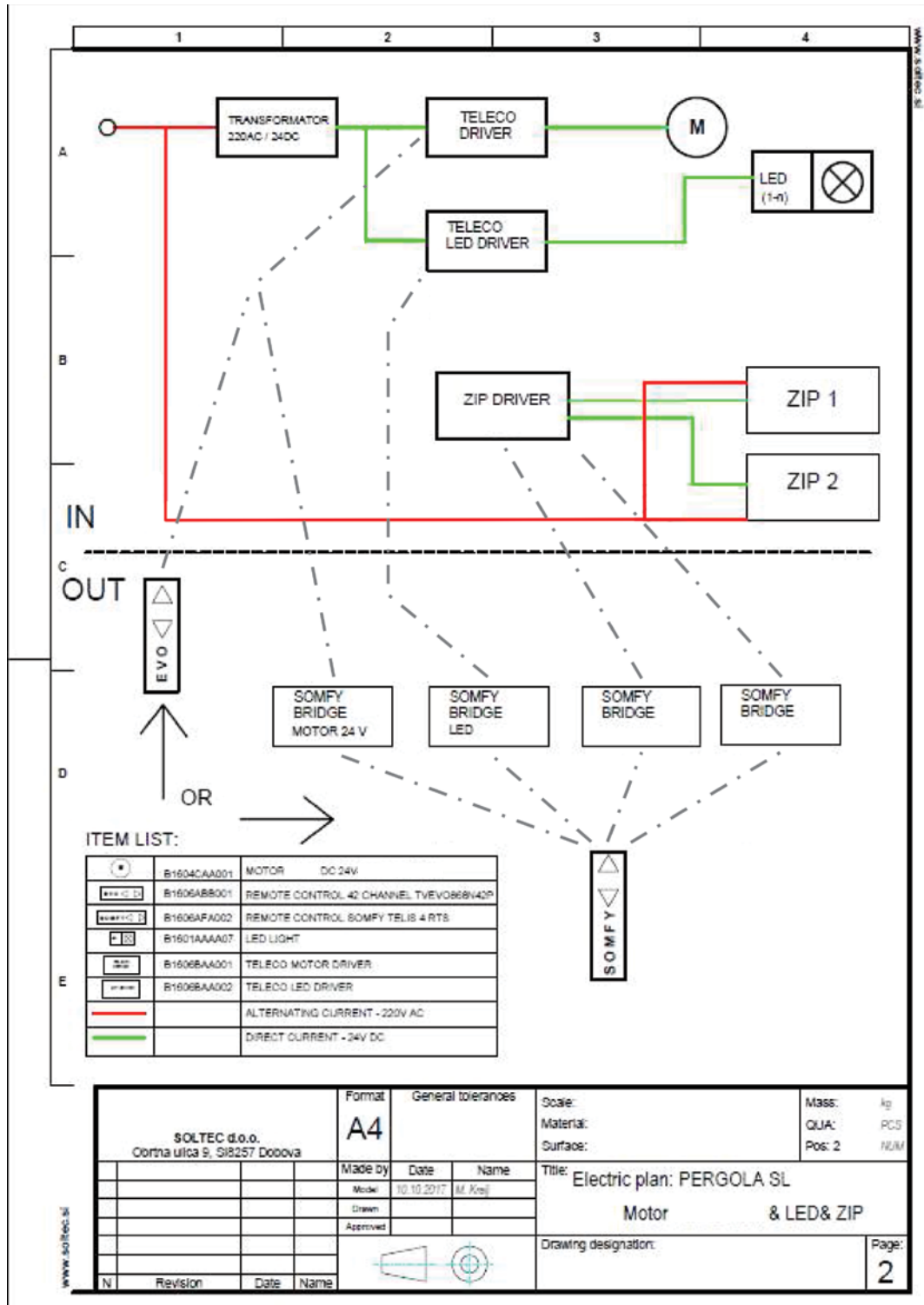
Pergola SL + Motor DC24V



ATTACHMENTS

Electric plans

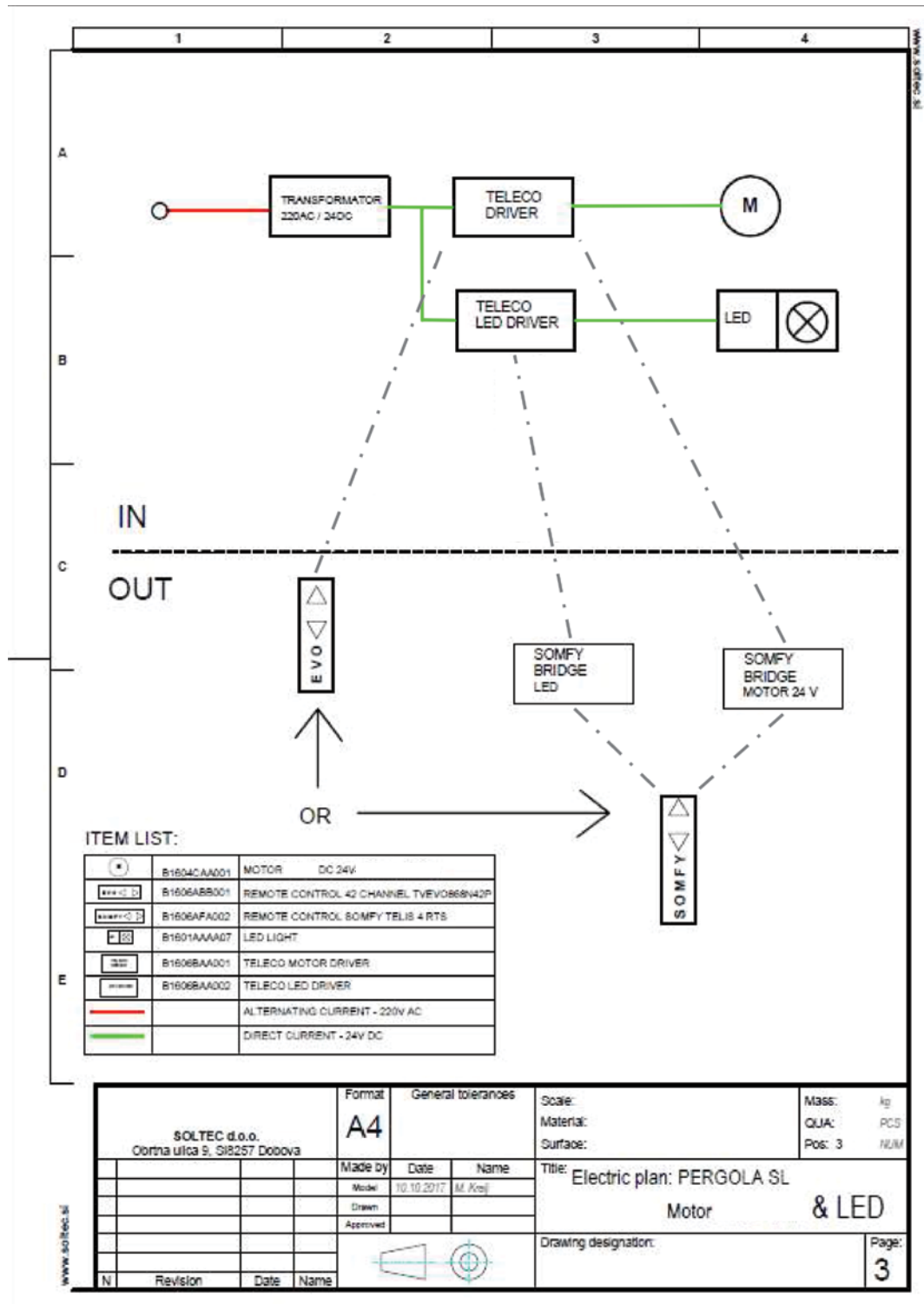
Motor DC24V + LED + ZIP



ATTACHMENTS

Electric plans

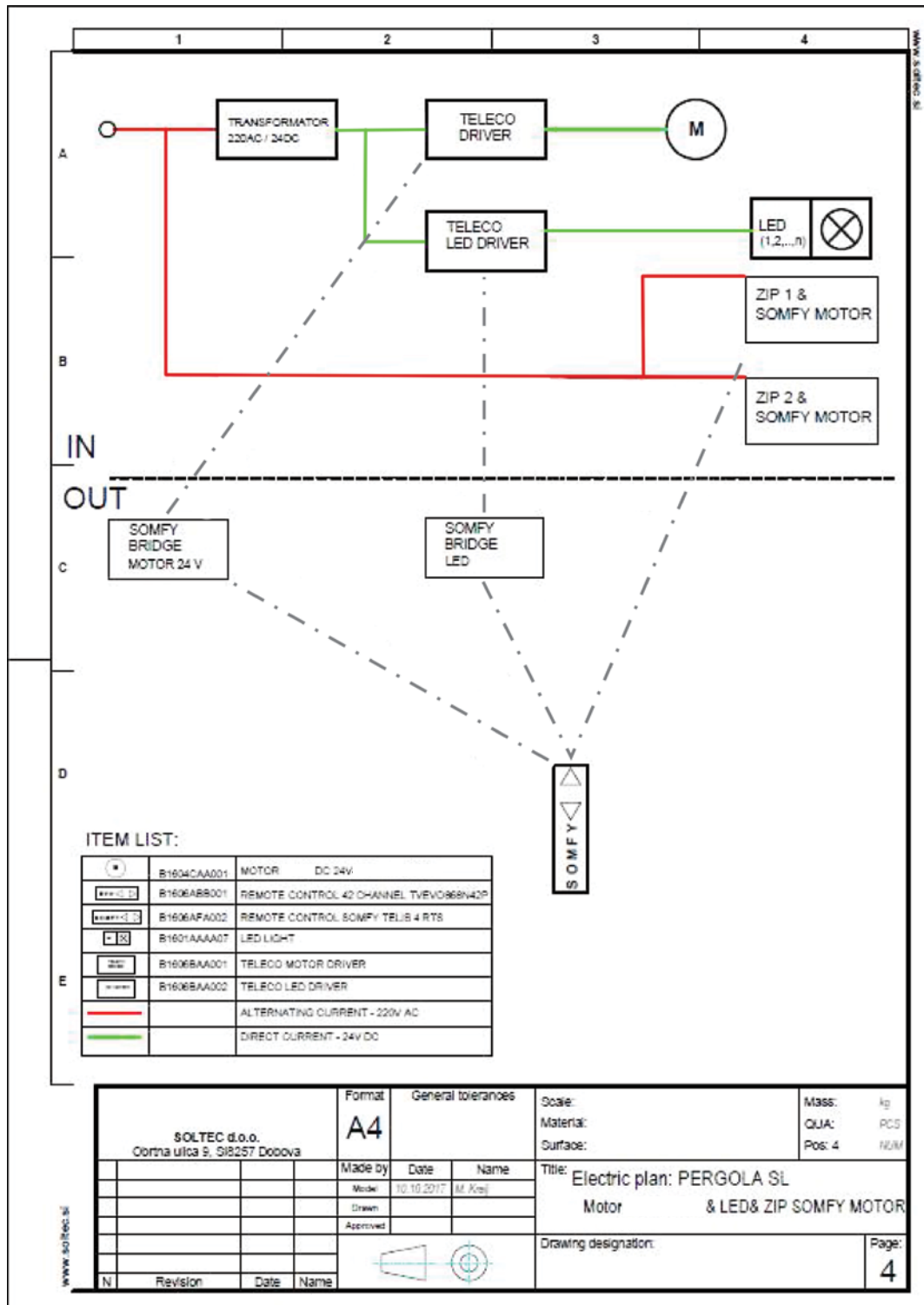
Motor DC24V + LED



ATTACHMENTS

Electric plans

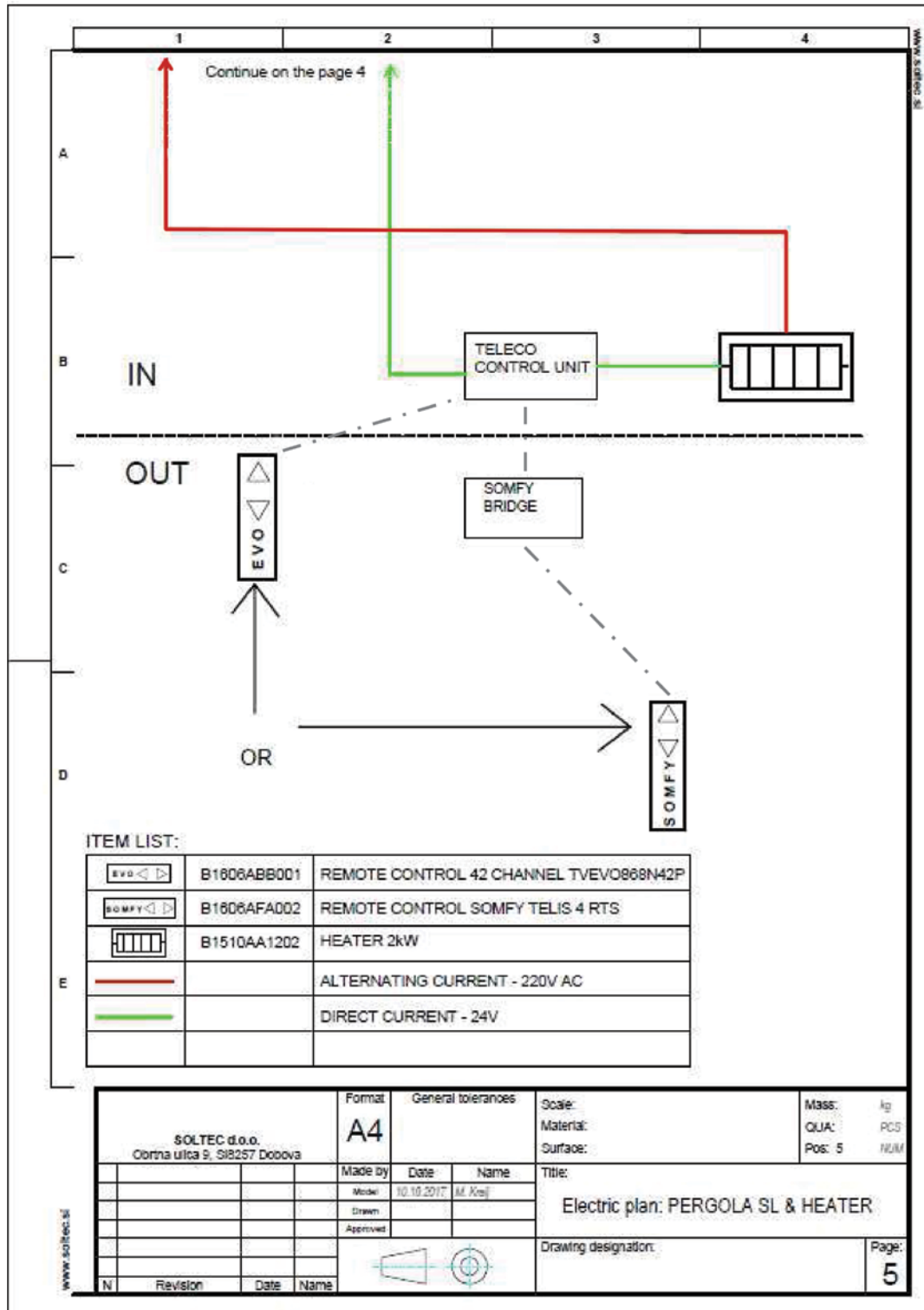
Motor DC24V + LED + ZIP Somfy Motor



ATTACHMENTS

Electric plans

Pergola SL + Heater



LIST OF SERVICE INSPECTIONS

Type of product	Date of service inspection	Signature, Stamp

Type of product	Date of service inspection	Signature, Stamp

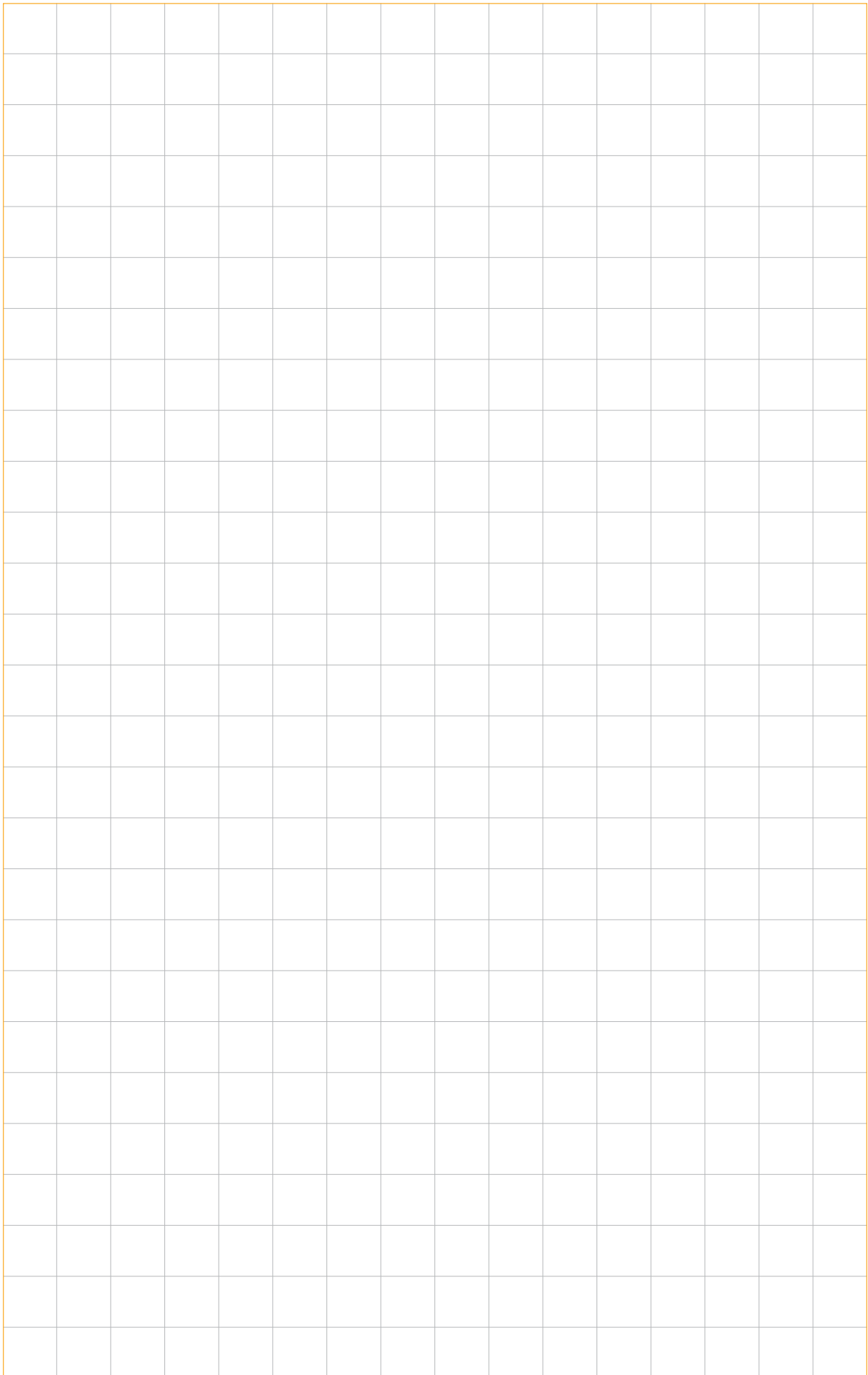
Type of product	Date of service inspection	Signature, Stamp

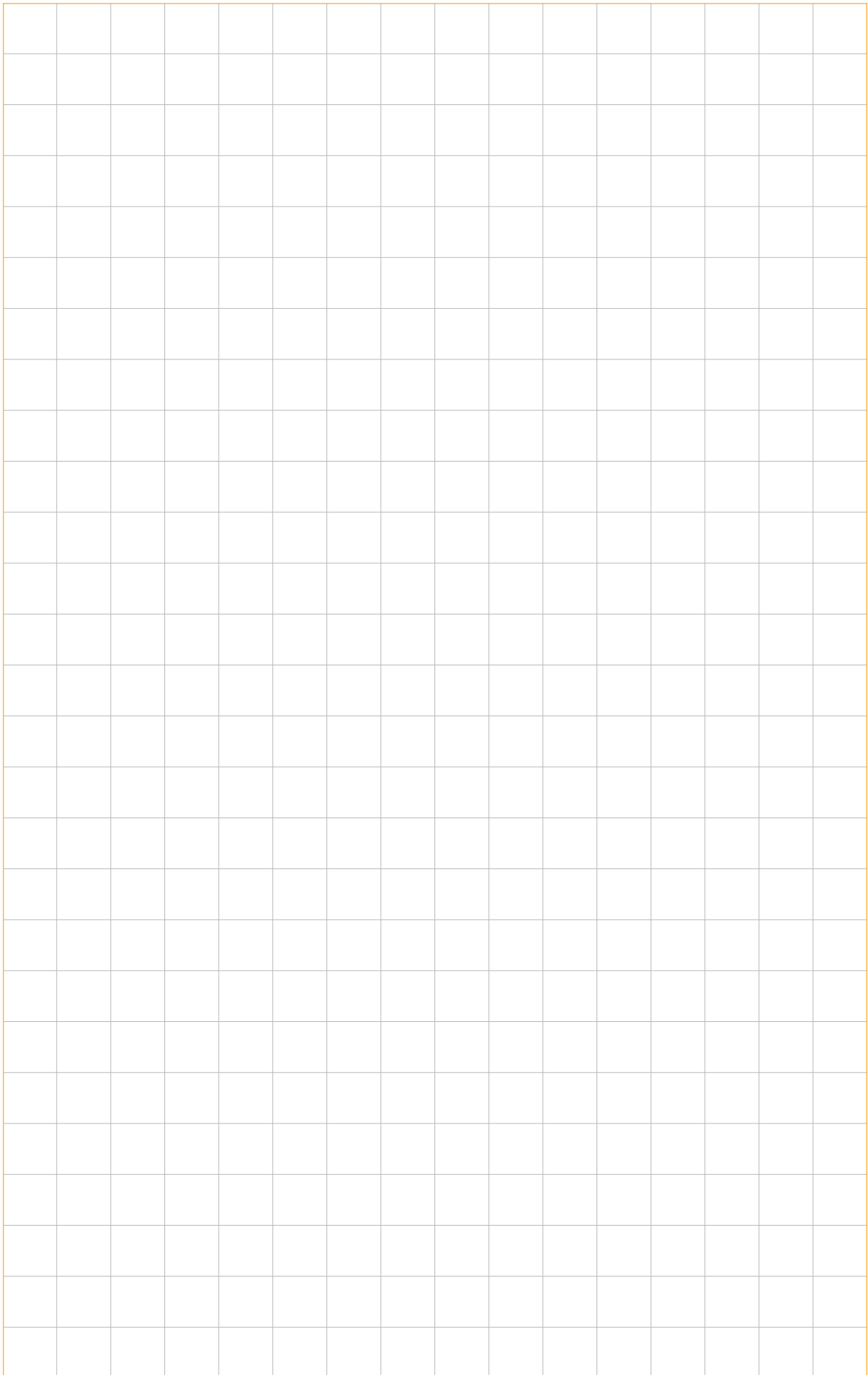
Type of product	Date of service inspection	Signature, Stamp

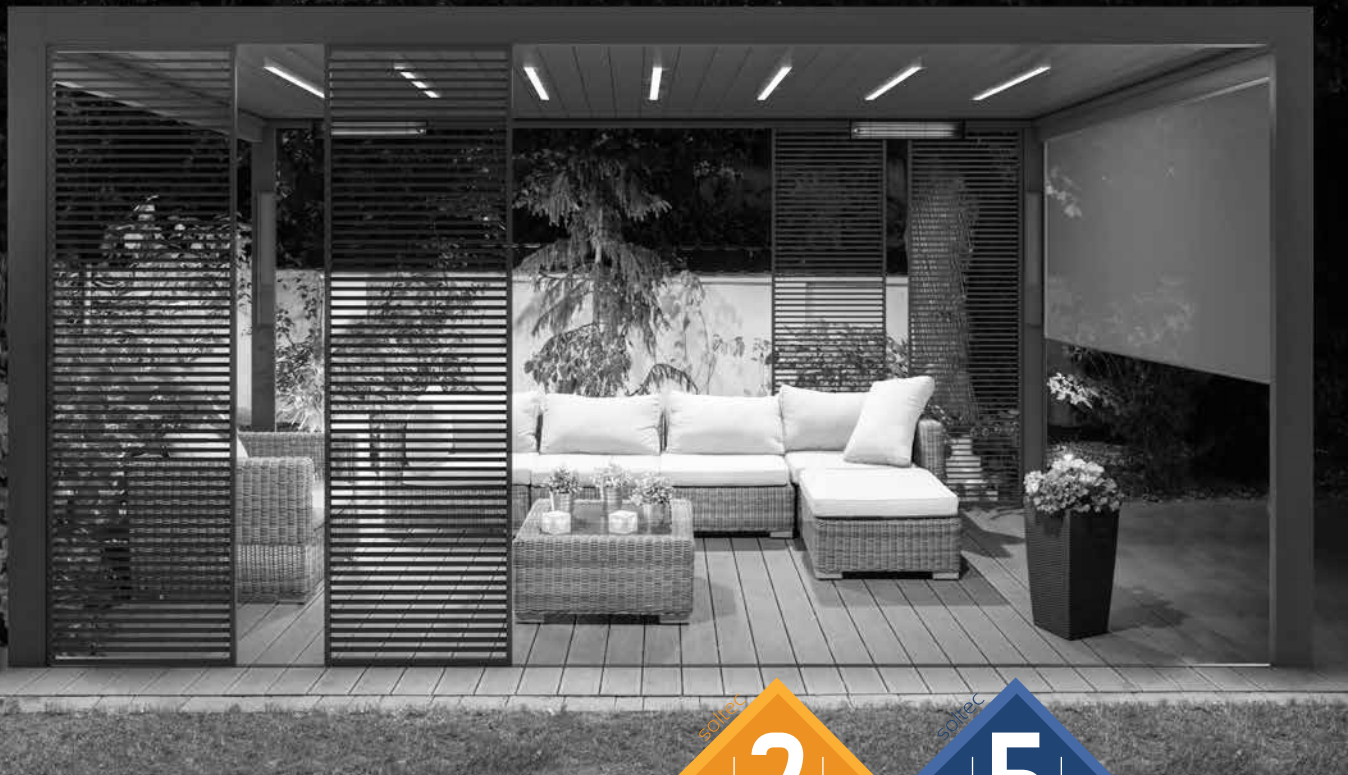
Type of product	Date of service inspection	Signature, Stamp

Type of product	Date of service inspection	Signature, Stamp

Type of product	Date of service inspection	Signature, Stamp







2-year warranty on electronic equipment and components



5-year warranty on the structure of Pergola Agava™

5 year warranty,
made in EU, fully
certified

soltec | More light,
more life.

INOX
STAINLESS
STEEL



To ensure optimal quality, Pergola Agava is in accordance with the following EN standards:

- EN 1990: **Basis of Structural Design**
- EN 1991: **Actions on structures**
- EN 1991-1-1: **General actions - Densities, self-weight, imposed loads for buildings**
- EN 1991-1-3: **General actions - Snow loads**
- EN 1991-1-4: **General actions - Wind actions**
- EN 1991-1-5: **General actions - Thermal actions**
- EN 1993: **Design of steel structures**
- EN 1998: **Design of structures for earthquake resistance**
- EN 1999: **Design of aluminium structures**
- EN 1090: **Execution of steel and aluminium structures**
- EN 13561: **External blinds and awnings. Performance requirements including safety**
- EN 60335-1: **Household and similar electrical appliances - Safety - Part 1: General requirements**
- EN 60335-2-97: **Household and similar electrical appliances. Safety. Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment**

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