Corradi

OUTDOOR LIVING SPACE

ALBA

Coupled version

Assembly instructions | EN

rev. 1 / **09.2017**

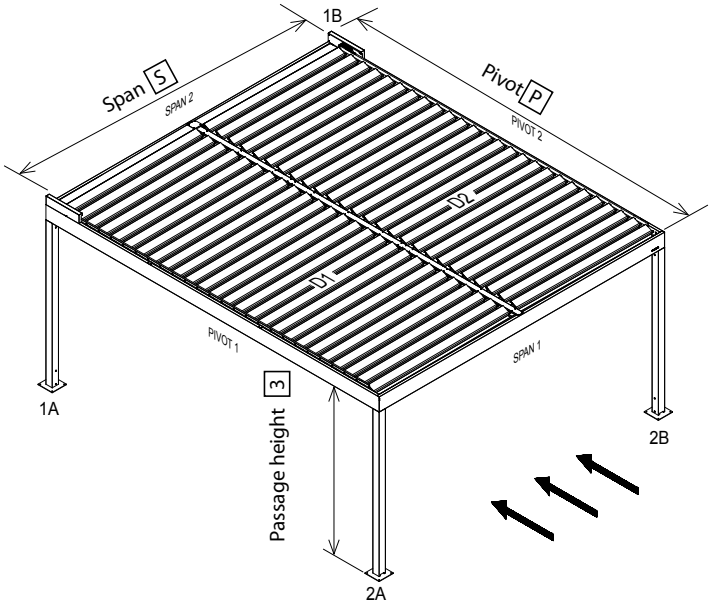
Index

1. Important safety and assembly instructions

- We recommend that at least two people assemble the product. We also recommend using a material lift.
- Check all fixation walls for gas, water or electrical lines to prevent damaging these.
- Keep children, pets and other unauthorised persons at a distance.
- Check to make sure that no people or things can get in the way of a moving blade.
- Do not put your fingers or hands between the blades.
- Incorrect installations or irregularities in the installation can have serious consequences when using the product.
- Only use the parts delivered by CORRADI; otherwise the warranty conditions will be void (see our warranty certificate).
- All fixing elements for walls or floors are not included.
  These must be stipulated by the installer because these depend on the material to which it will be affixed.
- Work safely and always wear the required personal protective equipment.
- See also our warranty certificate with usage and maintenance terms and conditions. Give this booklet to your customer after assembly.

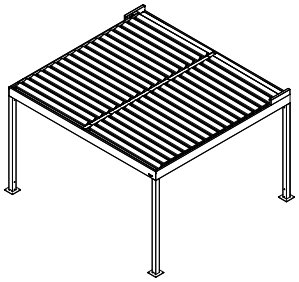
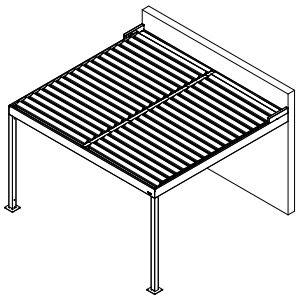
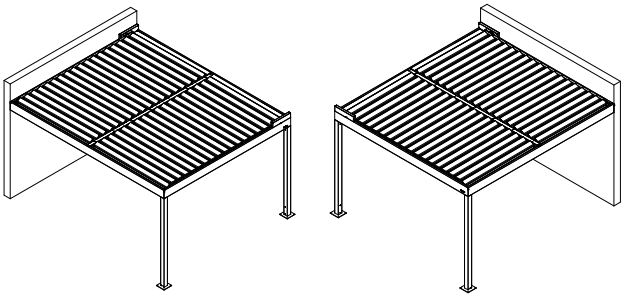
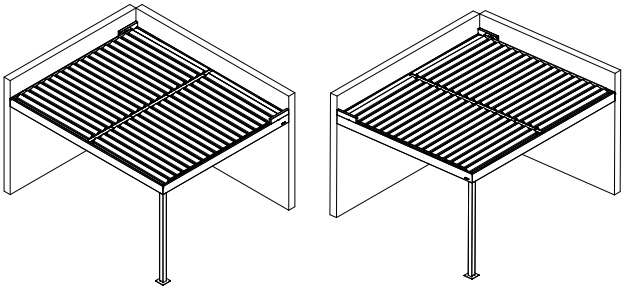
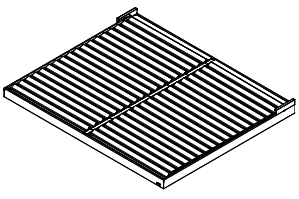
2. Dimensions

During the installation, take the following dimensions into account:



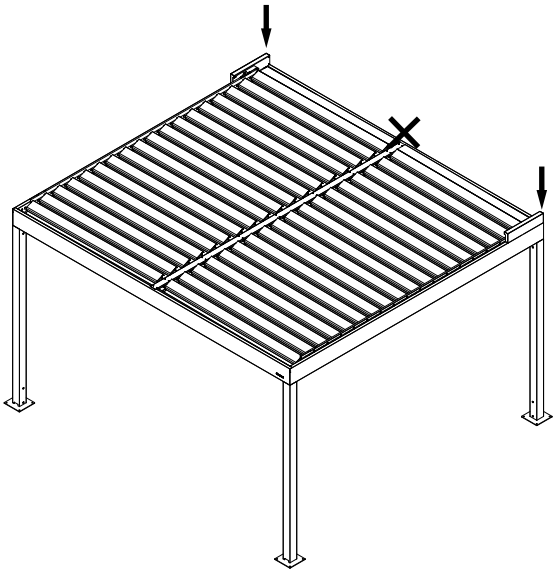
3. Installation types & construction situations

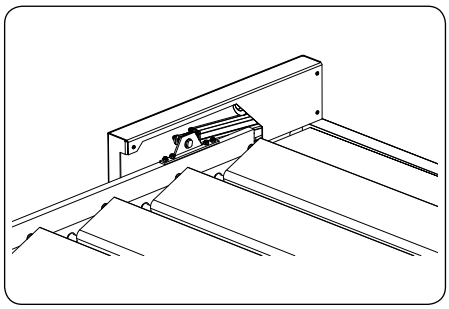
The following is an overview of the possible installation types and construction situations for the coupled version Alba.

Installation type 1: Free-standing	
Installation type 2: Façade mounting Construction situation 1: Wall // Span-side	
Construction situation 2: Wall // Pivot-side	
Construction situation 3: Wall // Span-side & Wall // Pivot-side	
Installation type 3: Integration	not possible
Installation type 4: Exposed (no mounting holes)	

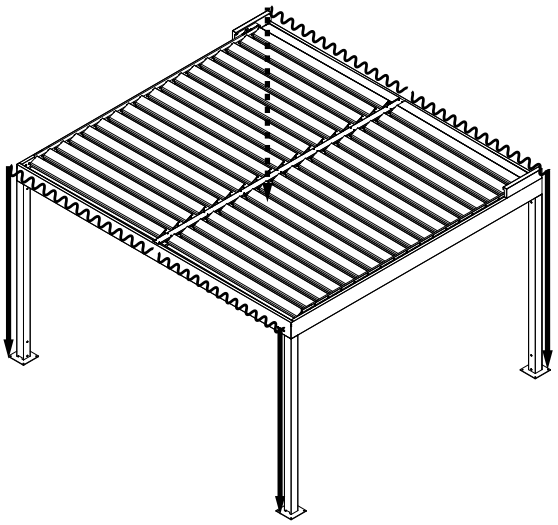
4. Position of the motor and water drainage

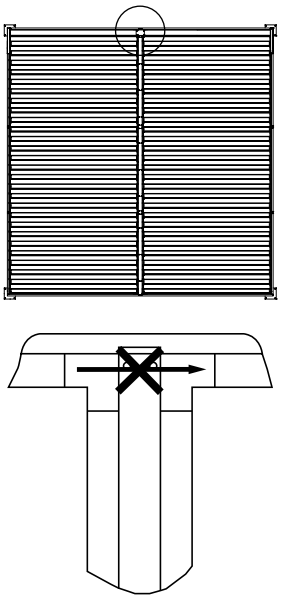
Each part of the roof has its own motor.
The motors are always installed on the outsides for accessibility purposes.





The rain gutter still runs around the entirety of each individual part of the roof. The gutter does not run through from one part of the roof to the other. This way the runoff always goes away from the coupling beam and towards the columns.

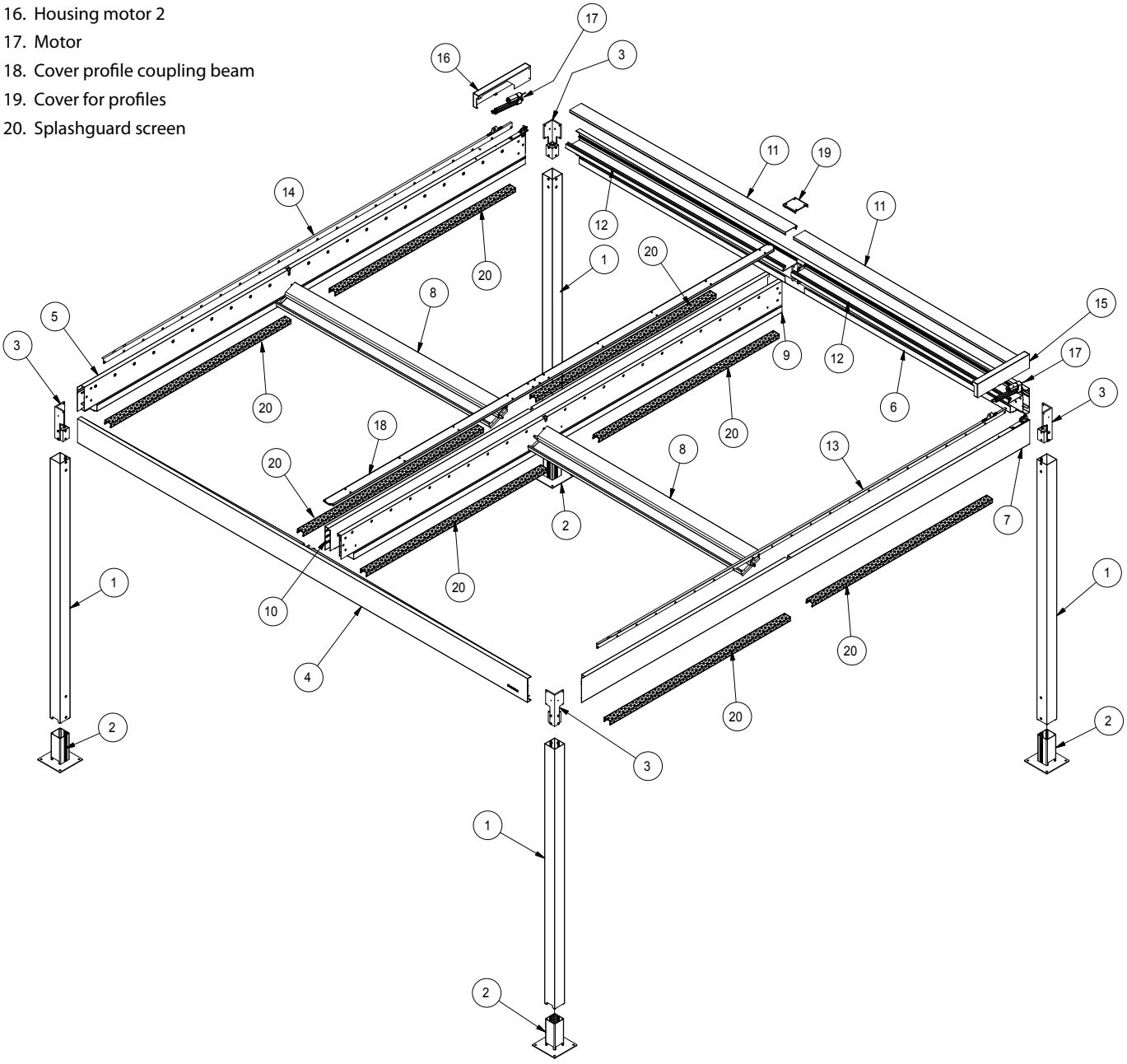




Installation type 4: A drain must be installed in each part of the roof to let the rain water drain from the roof.
Careful: There is only one runoff point in installation types 2 and 4. The runoff flow is consequently lower than in a system with two runoff points.

5. Exploded view

1. Column
2. Mounting base
3. Racket
4. Span frame profile 1
5. Pivot frame profile 1
6. Span frame profile 2
7. Pivot frame profile 2
8. Blade
9. Coupling beam 1
10. Coupling beam 2
11. Cover
12. Finishing profile
13. Driving profile 1
14. Driving profile 2
15. Housing motor 1
16. Housing motor 2
17. Motor
18. Cover profile coupling beam
19. Cover for profiles
20. Splashguard screen

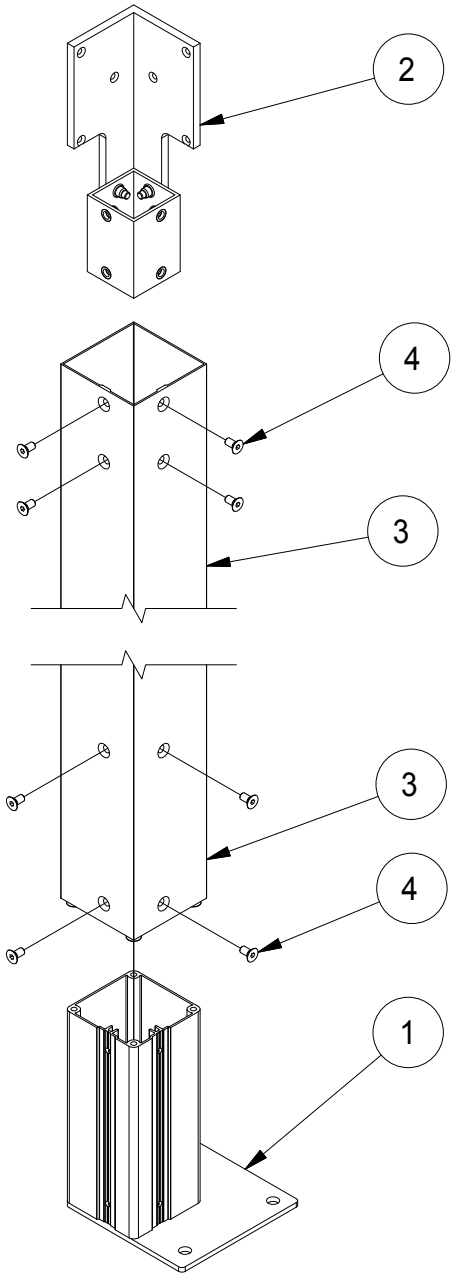


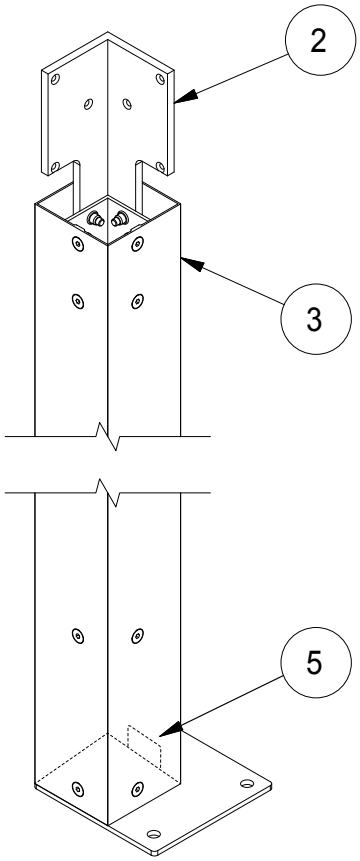
6. Assembly

6.1 Mounting construction base (colonnes + cadre)

Step 1: Pre-assembly of the mounting base & columns.

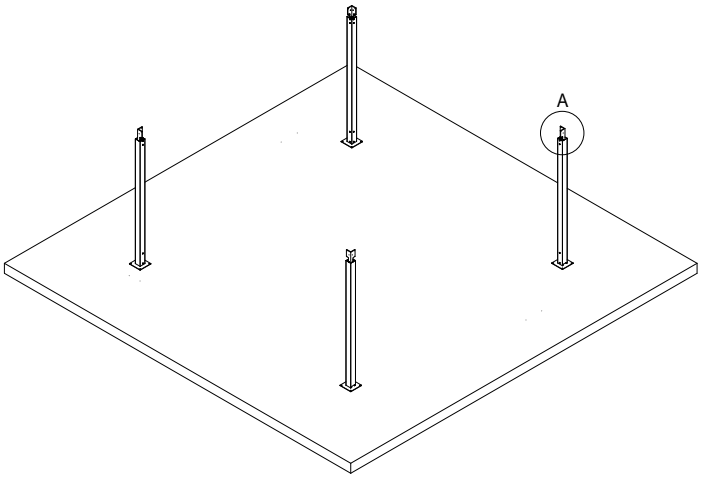
1. Make sure there is a hole under the mounting base ① if the cable must be hidden underground.
2. Fix the mounting base ① and the brackets ② before fixing the frame to the column ③ using DIN7991 M8x16 screws ④.
   Careful: Check the direction in which the recesses for the runoff water ⑤ must be installed.
3 . Special brackets will be delivered with installation type 2. These will be fixed later (see step 5 variation).



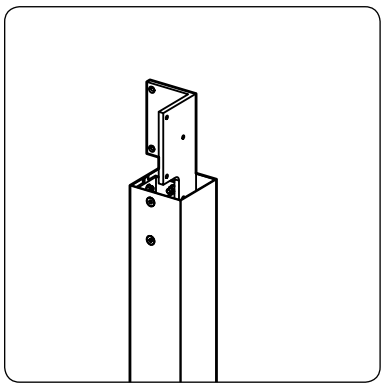


Step 2: Determine the position and placement of the columns

1. Determine the position of the Alba and mark the Pivot & the Span.
2. Mark the places where the mounting bases will be installed. Make sure that the surface underneath the mounting base is stable.
3. Install the pre-assembled columns with the corner of the bracket facing outwards **(DETAIL A)**.
4. Fix one mounting base, in its position, to the surface. The remaining mounting bases can be fixed in place later.



DETAIL A

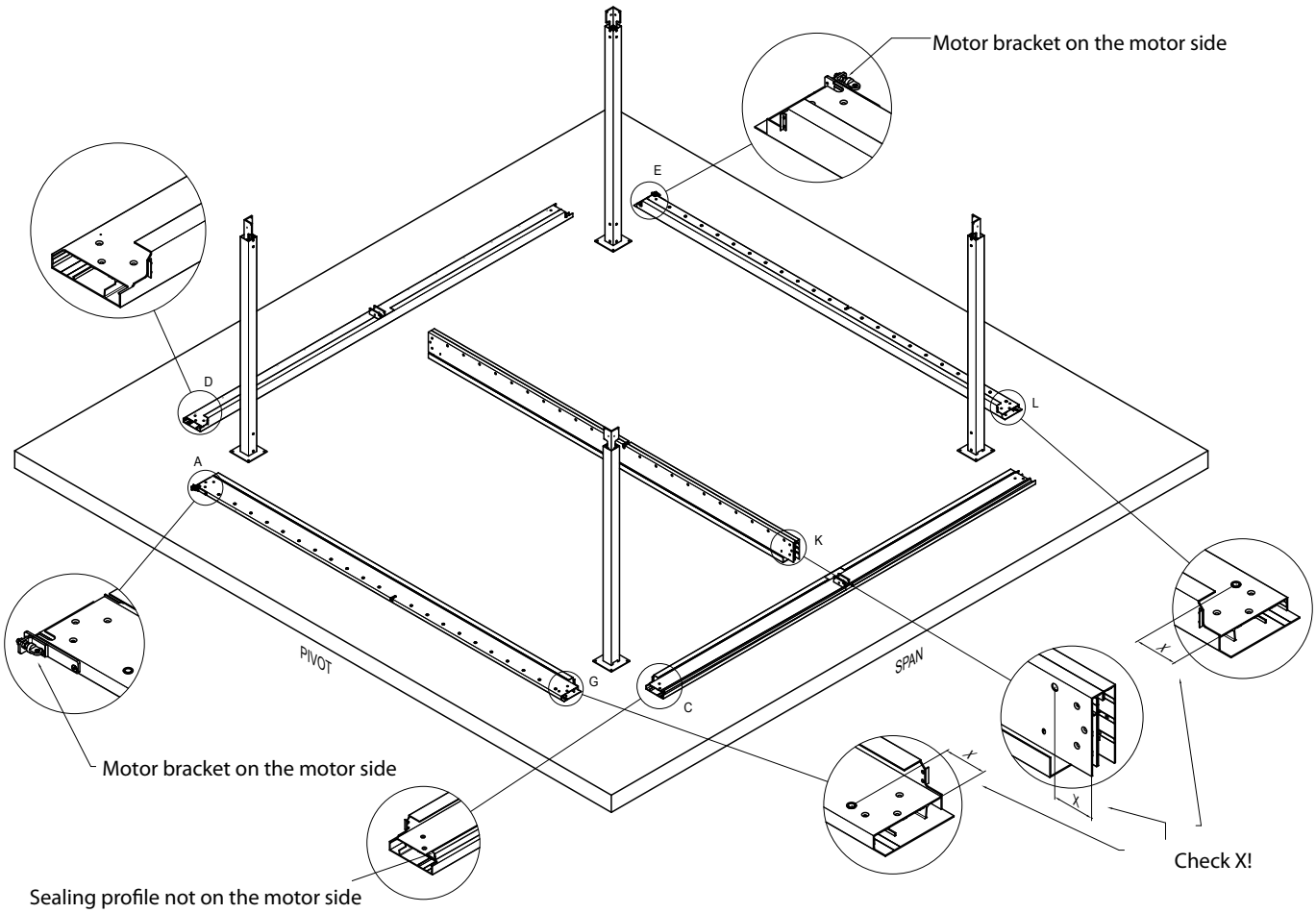


Step 2 variation 1: Determine the position and placement of the mounting bases for installation type 2.

1. Mark out a line (laser, chalk line) for positioning the frame profiles that will be mounted on the wall, horizontally with respect to the lead line.
2. Position the frame profiles that are to be mounted against the wall along the wall side. Mark the drill holes for the frame profiles and remove the frame profiles.
   The grooves provided can help in determining the position of the drill holes.
3. Mark the drop lines, the Alba Span and Alba Pivot (laser, chalk line). Check the squareness with regard to the lead line.
4. Mark where the mounting base(s) will be placed based on the type of construction situation. Make sure that the surface underneath the mounting base is stable.
5. Put the columns in their places. Make sure that the corner of the bracket is facing outwards **(DETAIL A)**.

Step 3: Positioning the frame profiles

1. Position the profiles for the frame on the ground.
2. Check the correct orientation of the beams.

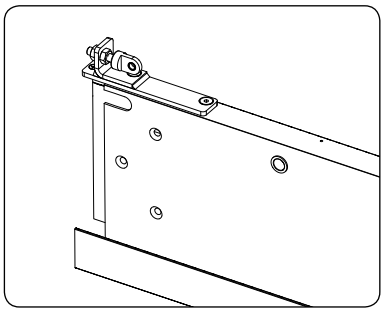


Profile with drill holes along the entire length
——► Pivot side
Careful: Profiles with a motor must be placed on the outside.

Step 4: Provide the cables

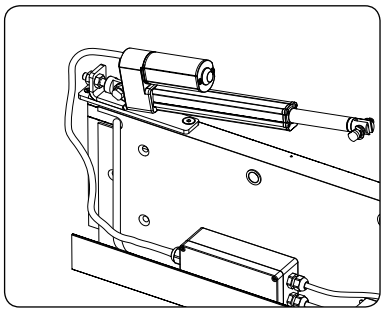
1. Check to see where the motor will be mounted and where the supply cables must come out. Slide the cables through the grooves provided **(DETAIL A & B)**.
2. Fix the motor to the motor bracket on the frame. Place the nuts facing outwards **(DETAIL C)**.
3. Open the general control box.
4. Open the selected cable gland **(DETAIL D)** and connect the motor to output "S1" **(DETAIL E)**, and connect the connector to "S1". The yellow cable goes on "S1-" and the green cable on "S1+".

DETAIL A

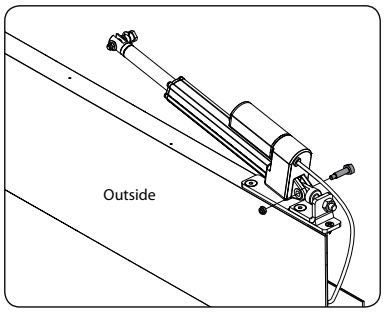


Cable feed groove

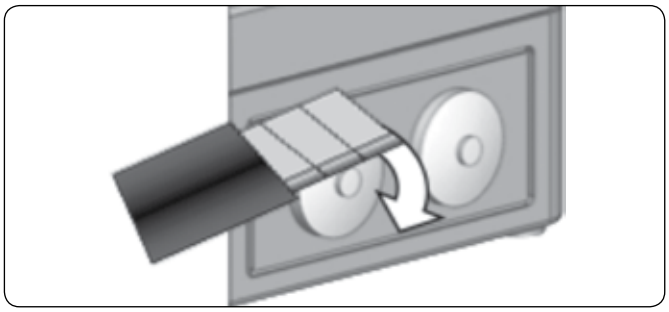
DETAIL B



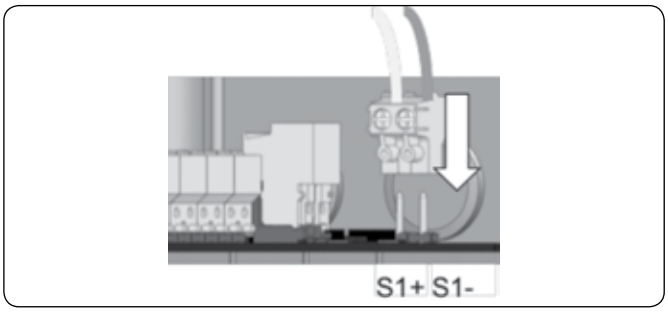
DETAIL C



DETAIL D

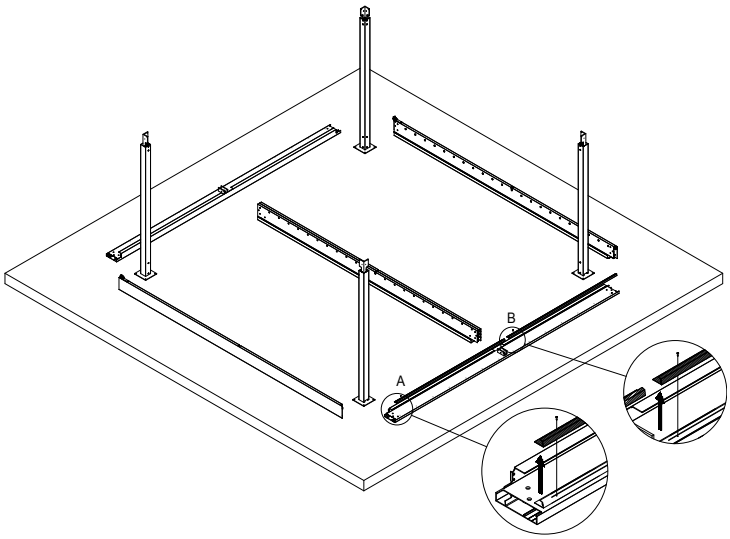


DETAIL E

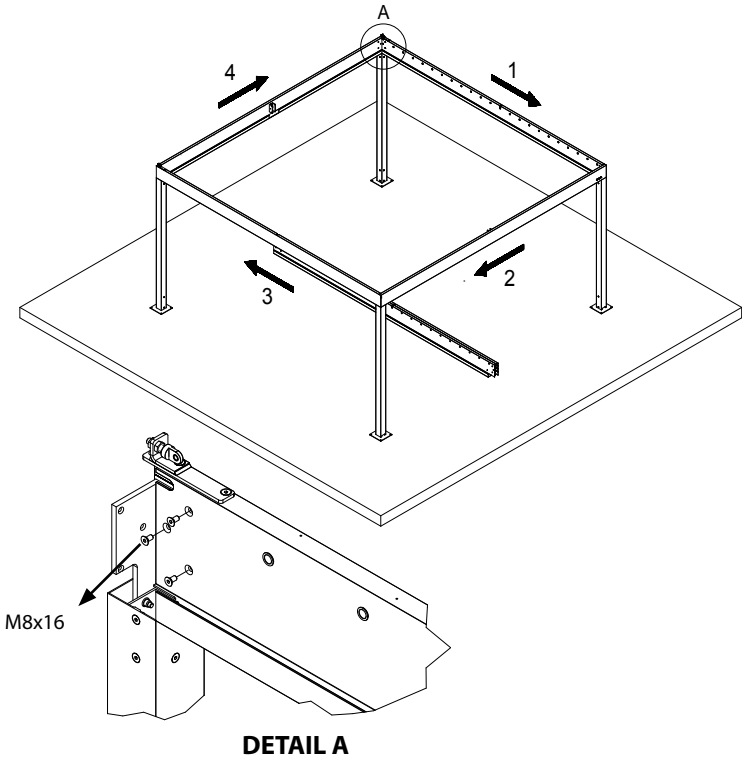


Step 5: Assembling the frame

1. Remove the fixed blade.



2. Fix the span and pivot profiles to the frame in the order indicated.



DETAIL A

Step 5 variation: Assembling frame installation type 2, construction situation 1 & 2

1. Fix the assembly brackets on the sides of the frame profiles that have the drill holes for the wall fixation. Screw these into place using DIN7991 M8x16 screws.
2. Assemble the frame profiles that must be mounted to a wall. The back side of the wall profile comes with foam tape on it. Fill in the space between frame profiles and the wall if the wall is not even.
3. Mount on the wall using M12 anchoring. Use silicone* to seal from the uppermost space between the wall and the wall profile.
   Careful: Ensure that all corners are connected by a bracket and screw these in using DIN7991 M8x16 screws.
4. Assemble the remaining frame profiles. Screw these into place on the brackets using DIN7991 M8x16 screws.
   Careful: Depending on the construction situation, these could be assembled in a different order:

   Construction situation 1:
   1. Frame profile span side between columns
   2. Frame profiles pivot sides between wall and column.

   Construction situation 2:
   1. Frame profile pivot side between columns
   2. Frame profiles span sides between wall and column.
5. In construction situation 2, finish the angular joints of the gutters, where there is no column, with an aluminium corner piece. Use silicone* to create a waterproof seal.

* The appropriate silicone (es. X-treme) must be used on the architectural textured coating.

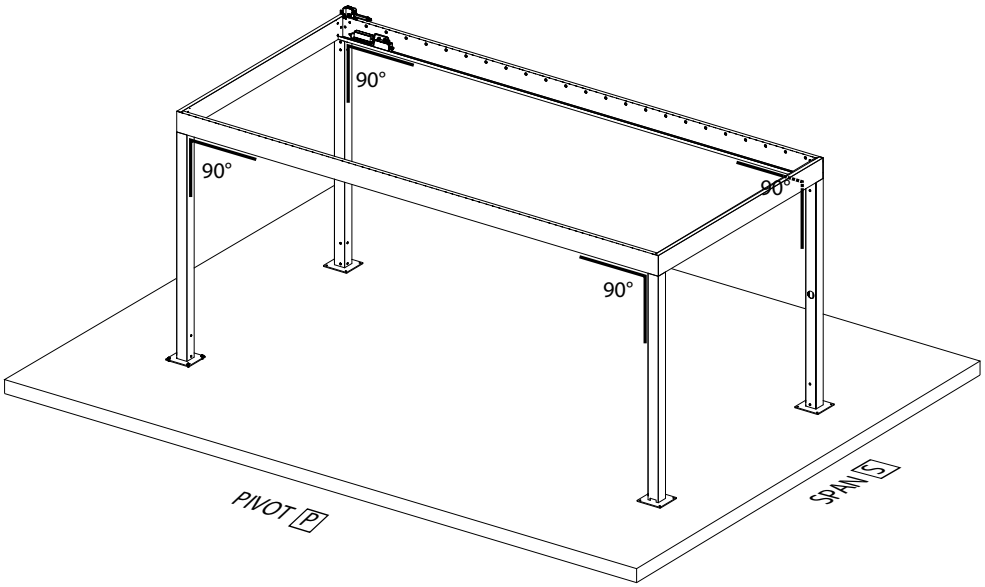
Step 5 variation: Assembling frame installation type 4

1. Assemble the assembly brackets on the sides of both frame profiles in front of the span side. Screw these into place using DIN7991 M8x16 screws.
2. Fix the frame profiles in front of the pivot side to those in front of the span side using the assembly brackets and screw these into place using DIN7991 M8x16 screws.
   Careful: Ensure that all corners are connected!
3. Finish the angular joints of the gutters with an aluminium corner piece. Use silicone* to create a waterproof seal.
4. Place the Alba frame on the support structure provided. Fixation must be done by the installer.

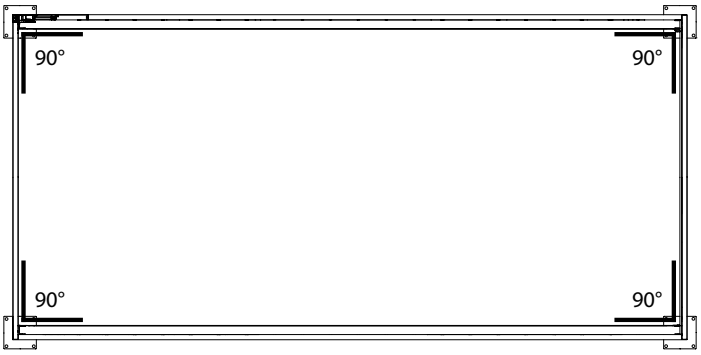
* The appropriate silicone (es. X-treme) must be used on the architectural textured coating.

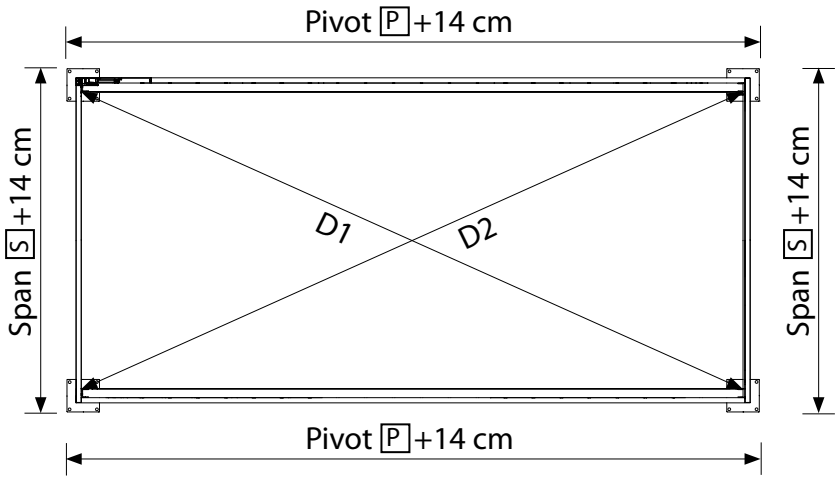
Step 6: Checks

1. Check the diagonals (D1 = D2) and the distance between the columns, as well as whether or not the columns and frame form a 90° angle where they meet.
   Also check if the corners of the frame form a 90° angle too.
2. Fix the mounting base to the surface.



Top-down perspective

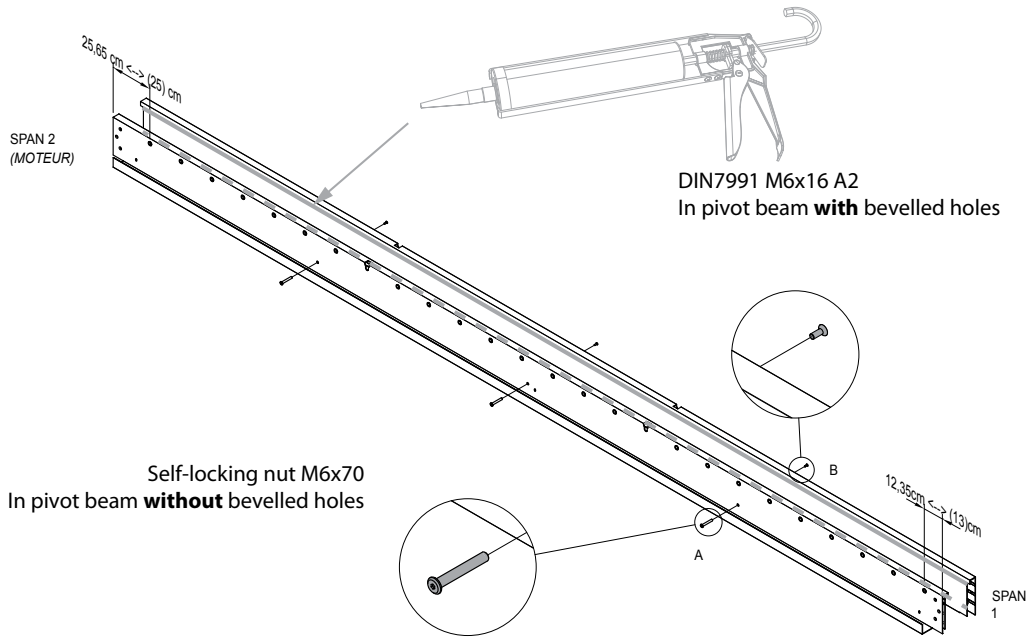




6.2 Assembling the coupling beams

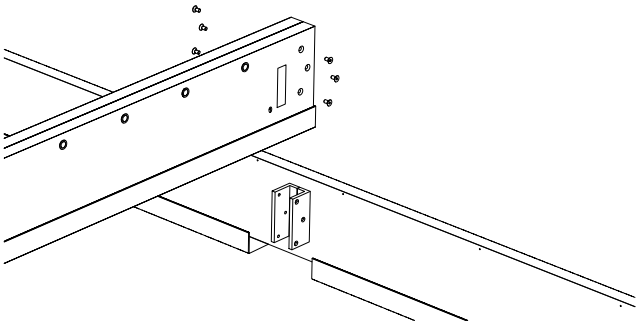
Step 1: Connecting the coupling beams

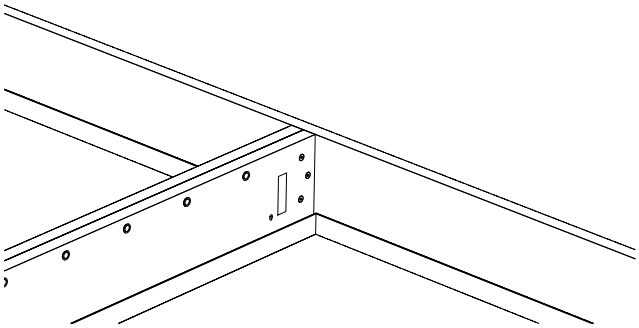
Always connect the coupling beams using the self-locking nut **(DETAIL A)** and bolt **(DETAIL B)** at three points. Use a hex key with slw4 and slw5.
Careful:
The self-locking nut and bolt each fit into a unique side.
You must seal the connection point between both coupling beams for optimal waterproofing.



Step 2: Assembling the coupling beams

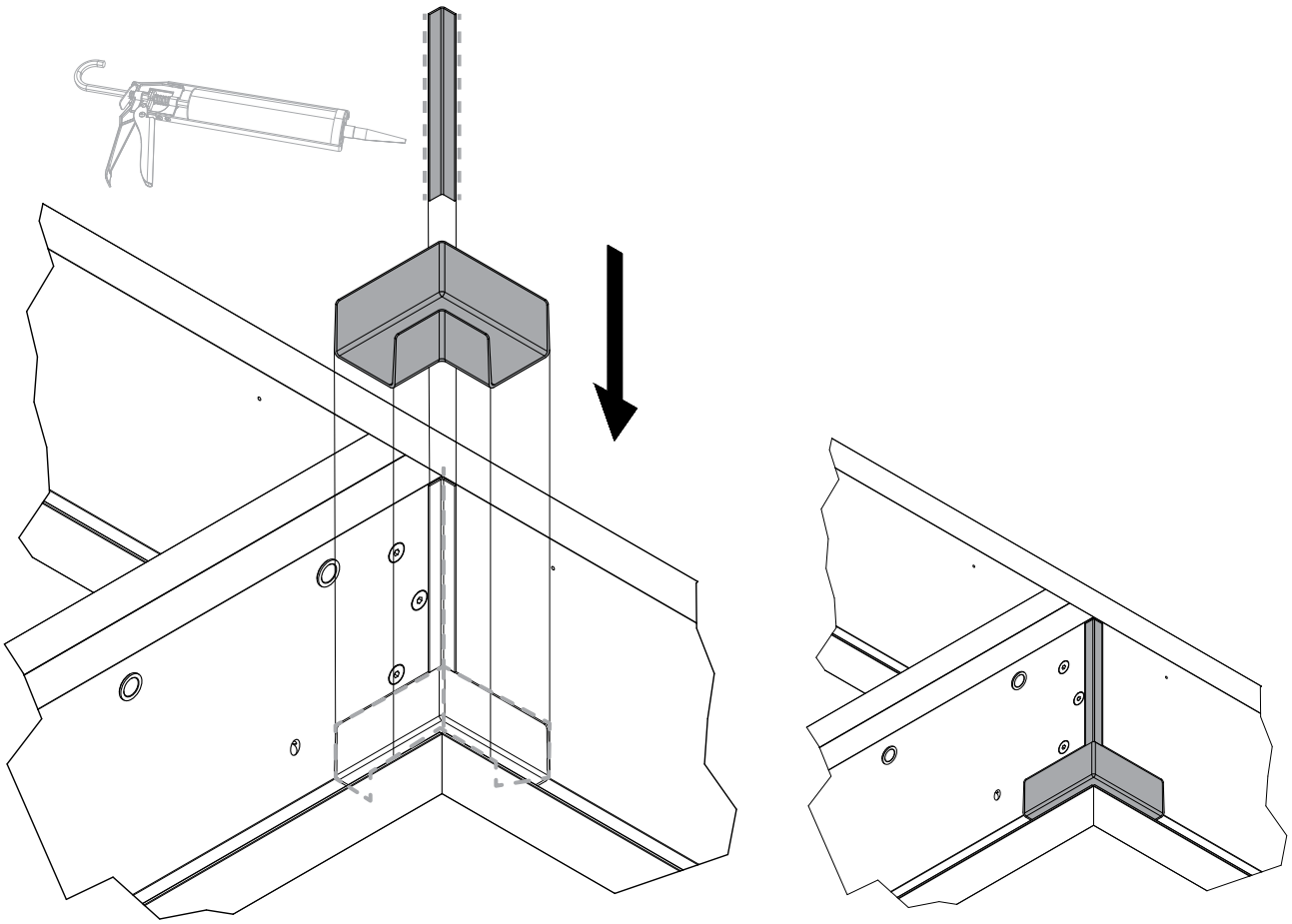
Slide the coupling beams over the angular joints and bolt these into place using the M8x16 bolts.
Careful:
The direction of the coupling beam in the frame depends on the motor side. This is indicated on top of the coupling beam.





Step 3: Seal the gutter corner pieces and finishing corners and install these in the gutter.

Seal the connections between the coupling beam and span beam and install the gutter corner pieces and finishing corners on both sides of the frame. Do the same thing for the connections between the span beam and the pivot beam.



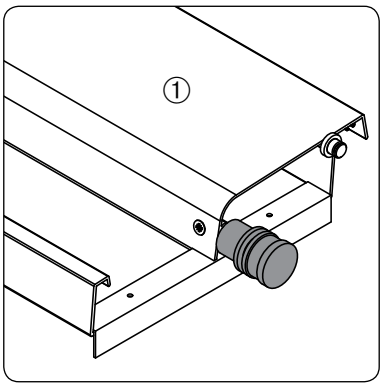
6.3 Installing blades & motor system

Step 1: Assemble the stabiliser blades

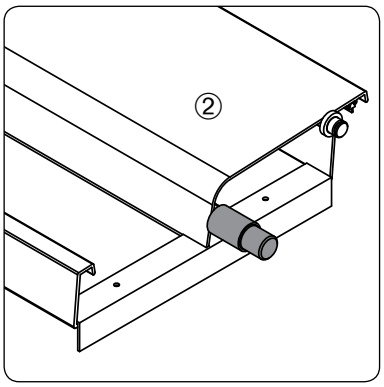
The Alba with **a Pivot ≥ 432,5 cm** is delivered with **1 stabiliser blade**.
The Alba with **a Pivot ≥ 561,5 cm** is delivered with **2 stabiliser blades**.

1. How to recognise: Stabiliser blade(s) ① have thicker pins than standard blades ②.
2. Special recesses are provided in the pivot frame profile for mounting the stabiliser blade(s) **(DETAIL A)**.
3. Mount the stabiliser blade(s) in the recesses provided.
4. Put the covers, 3 x 4 cm ③ (motor side) over the recess on the pivot beams (outside). Fix these into place with two DIN 7982 ST 3.5x16 screws **(DETAIL B)**. Seal with silicone.

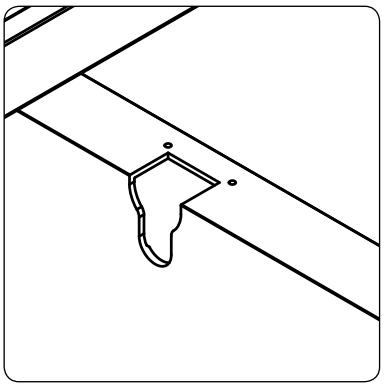
Stabiliser blade

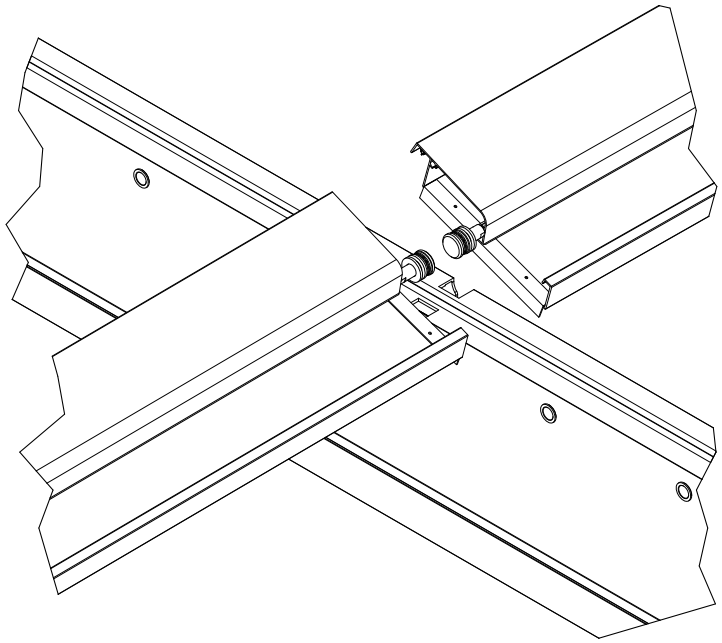


Standard blade

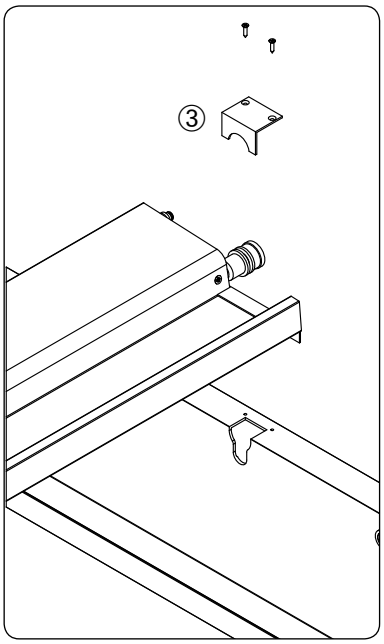


DETAIL A



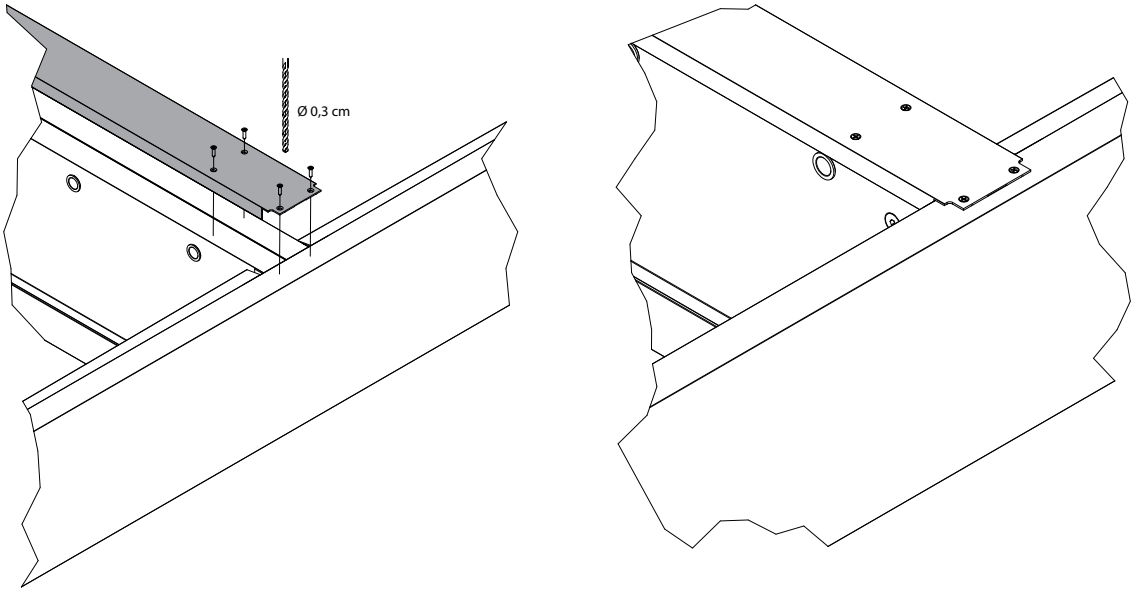


DETAIL B

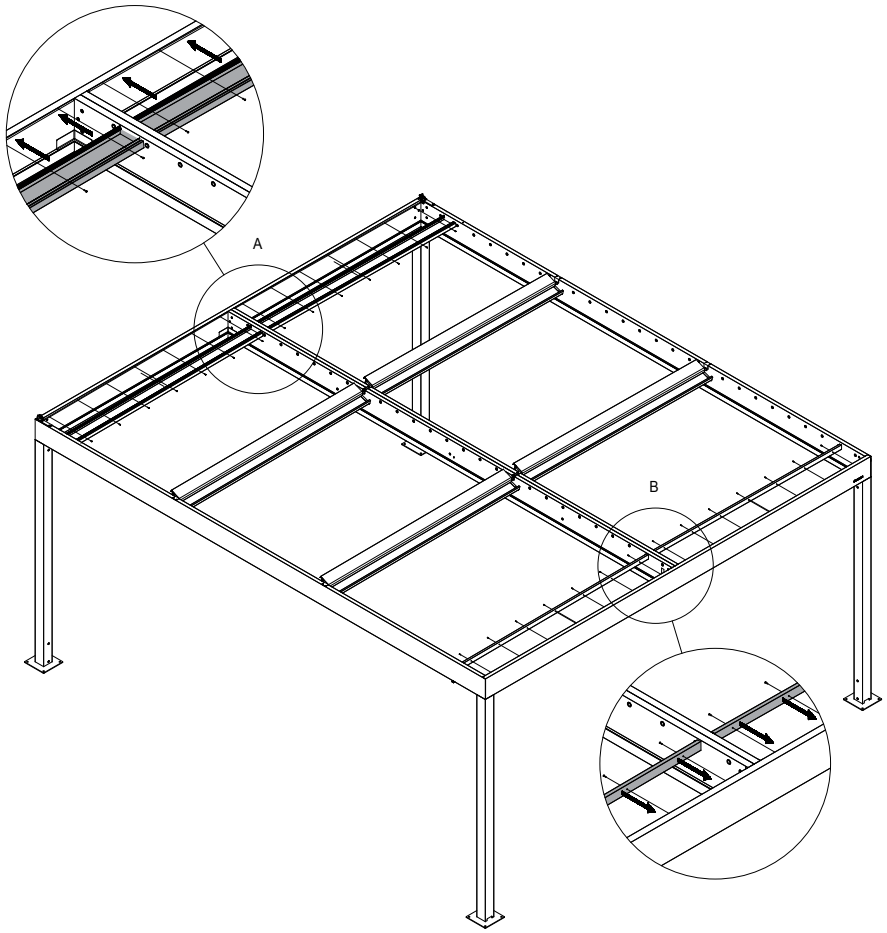


Step 2: Installing the cover profile

Put the cover profile over the pivot beams. Drill holes (Ø 0,3 cm) and fix the profile into place using self-tapping screws.
Repeat this for the other side of the cover profile.



Step 3: Putting back permanent blades

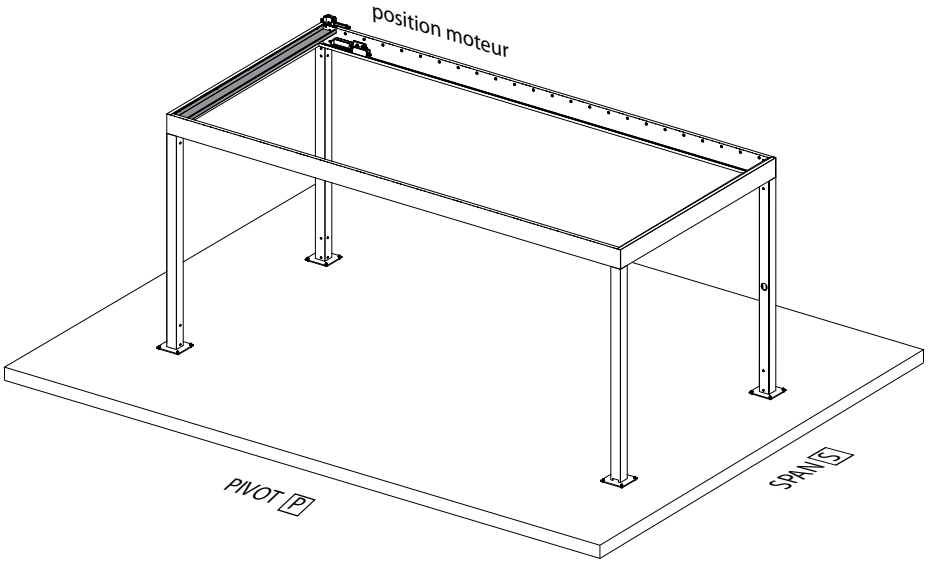


Step 4: Assembling the finishing profile

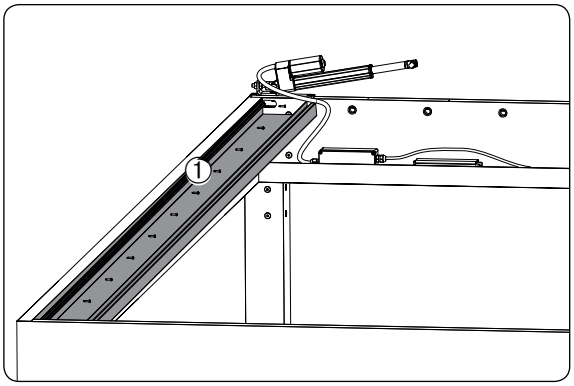
1. Install the finishing profile ① above the span side of the covering on the motor side. Screw this into place on the frame using DIN7981 3.5x16 screws **(DETAIL A)**.
2. Put the control box and transformer in the finishing profile **(DETAIL B)**.

Option - Lineo LED

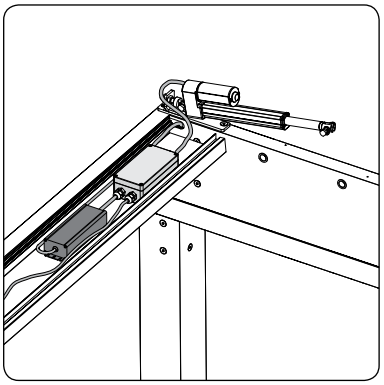
1. Put the control box and transformer in the finishing profile **(DETAIL B)**.
2. Connect the cabling (see separate manual "Alba automation").



DETAIL A

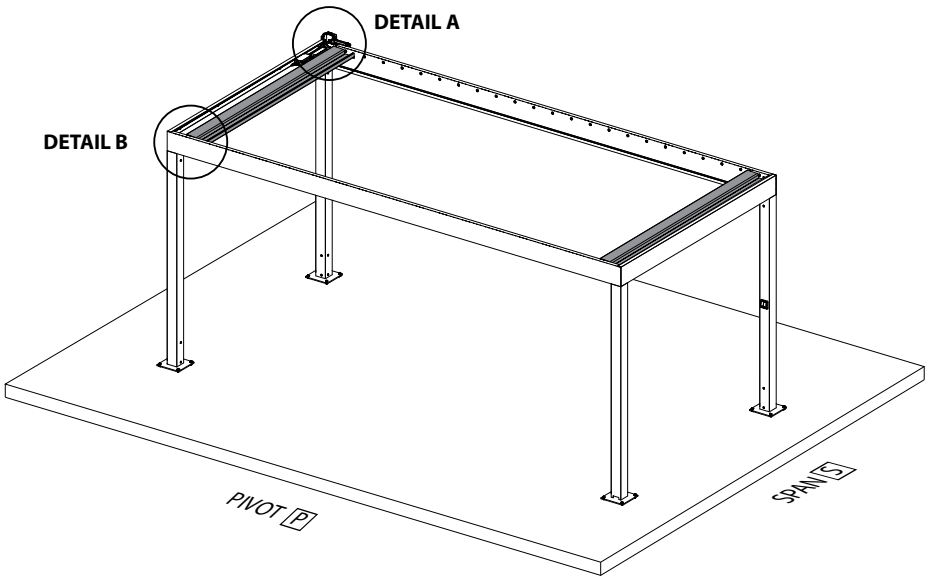


DETAIL B

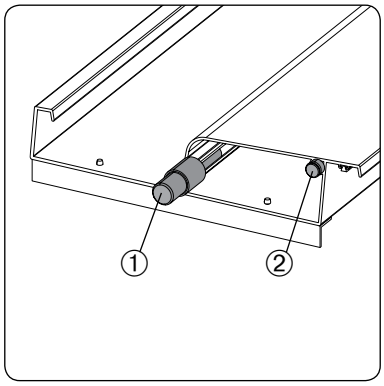


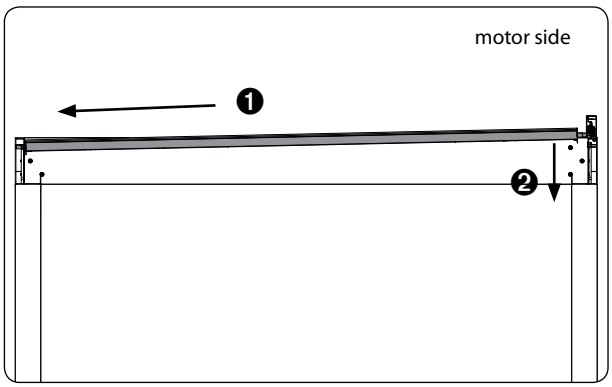
Step 5: Mounting the outermost blades

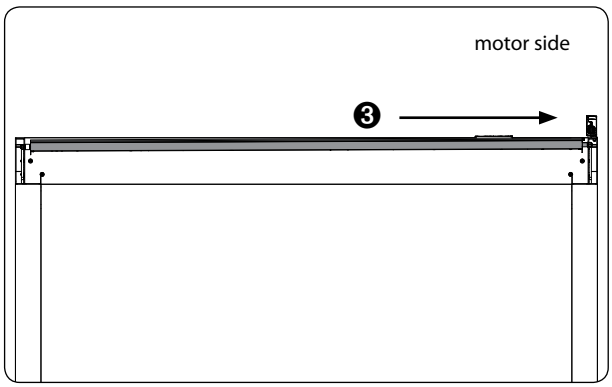
1. Install the two outermost blades in the frame. Pay close attention to the blade orientation.
   - Side with 1 pin = lower side
   - Side with 2 pins (large pin ① and small pin ②) = motor side **(DETAIL A)**.
2. Keep the blade tilted, slide the pin along the lower side as far as possible into the hole provided for this in the pivot frame profile ❶.
   Straighten the blade back up ❷ and then slide the pin along the other side in the opposite frame profile ❸.
   Secure the blade along the pin to the lower side using clips ③ **(DETAIL B)**.



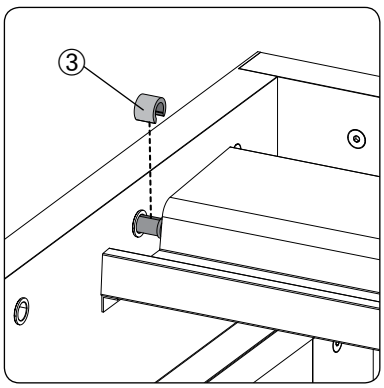
DETAIL A





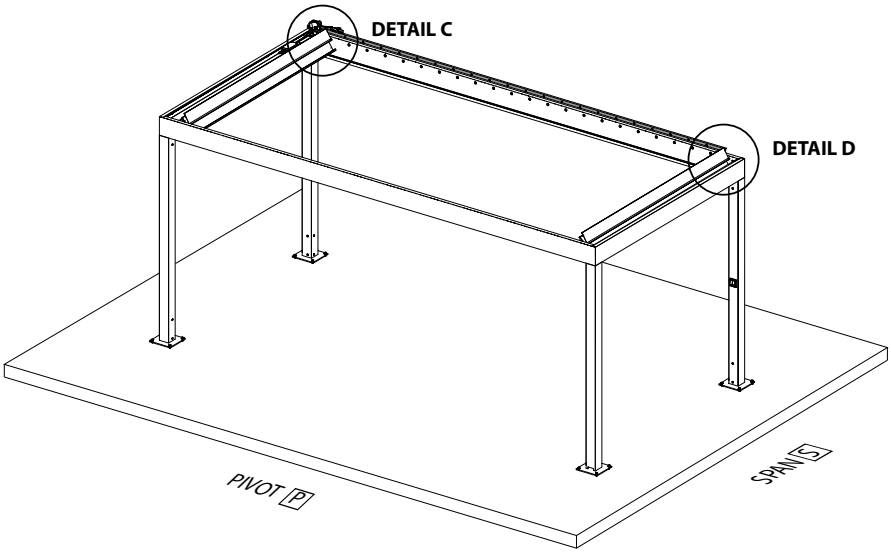


DETAIL B

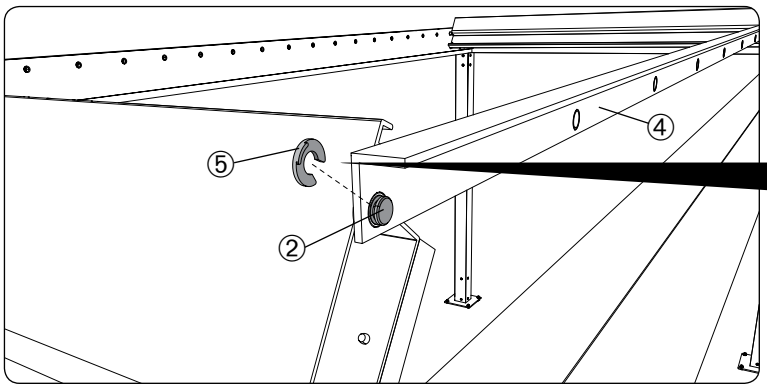


Step 6: Assembling the driving profile

1. Fix the driving profile ④ to the small pin ② of the two outermost blades **(DETAIL C)**. Secure using a spring washer.Install the spring washer ⑤ with the thicker part on the outside.
2. Fix the motor to the driving profile **(DETAIL D)**
   - Slide the pin ⑥ through the bracket on the driving profile and through the motor end.
   - Secure using nuts ⑦ along the outside and secure the bracket using circlips ⑧.

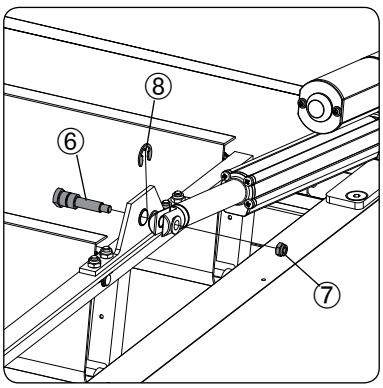


DETAIL C



⑤ Thicker part on the outside

DETAIL D



6.4 Connecting the control box + setting up the operating system

1 Blades

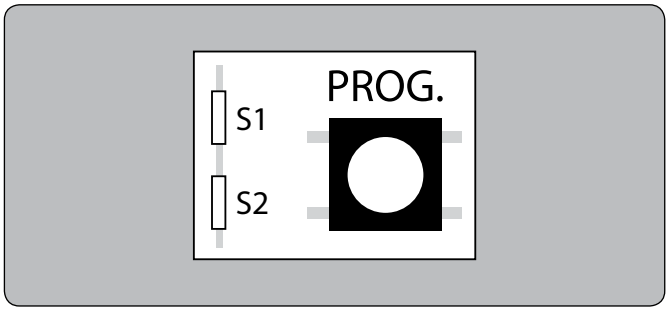
1. Connect the transformer to the mains voltage (230 Volt AC).
2. Hold down the PROG button in the general control box **(DETAIL A)** for more than 2 seconds until the S1 LED starts blinking. (The driving profile will make a short out and in movement for confirmation.)
3. Press the PROG button **(DETAIL A)** to select the desired output S1 or S2. Select S1 to operate the blades.
4. Select the desired channel if using the Telis RTS 4- or 16-channel.
5. At the same time, push ▲ + ▼ (The driving profile will make a short out and in movement for confirmation.)
6. Check the direction of the motor:
   ▲ = Open ▼ = Close
   If this is not the case, turn the direction around by holding down the my button for more than five seconds.
   (The driving profile will make a short out and in movement for confirmation.)
   Check the direction again.
7. Open the blades completely (hold down ▲).
8. Confirm the open position by pressing ▼ + my at the same time (the blades close automatically).
9. Stop the movement by pushing my.
10. Close the blades completely (hold down ▼).
11. Confirm the closed position by pressing ▲ + my at the same time (the blades open automatically).
12. Stop the movement by pushing my.
13. Open the blades to the desired position in case of snow (hold down ▲ or ▼).
14. Confirm the snow position by holding down the my button for longer than two seconds (feedback on the selected output).
15. Press the PROG button on the back of the remote control until the driving profile makes a short out and in movement **(DETAIL B)**.
16. You can now operate the motor.
17. Close the general control box.
18. Put the general control box and transformer back in the frame profile.

See the separate manual, "Alba Automation" for a detailed description on automating the Alba.

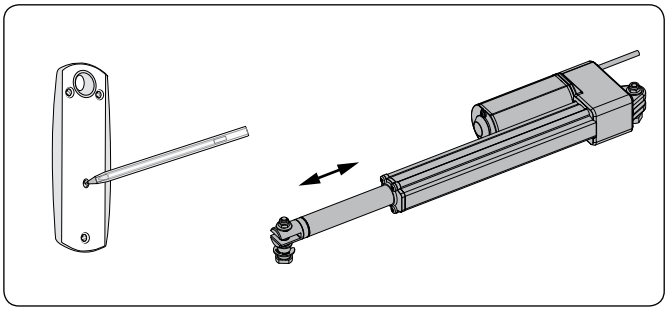
2 Lineo LED (Optional)

1. Open the general control box.
2. Hold down the PROG button in the general control box **(DETAIL A)** for more than 2 seconds until the S1 LED starts blinking. (The driving profile will make a short out and in movement for confirmation.)
3. Press the PROG button **(DETAIL A)** to select the desired output S1 or S2. Select S2 to operate the Lineo LED.
4. Select the desired channel if using the Telis RTS 4- or 16-channel.
5. Press the PROG button on the back of the remote control until the LED goes on or turns off (it will respond in the opposite way on the current status) **(DETAIL B)**.
6. Close the general control box.
7. Operating the Lineo® LED:
   1. On (press my)
   2. Off (press my)
   3. Clarity + (hold down my)
   4. Clarity – (hold down my)

DETAIL A

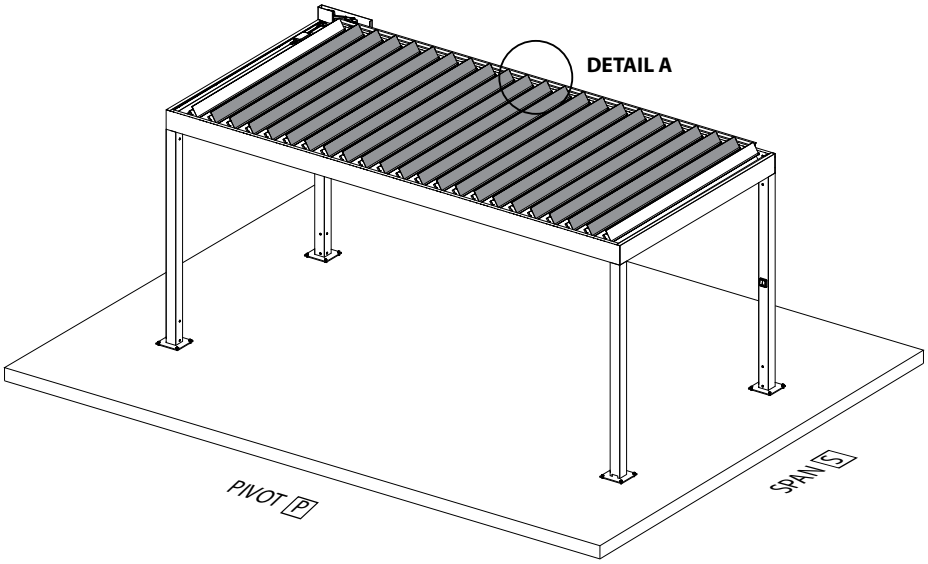


DETAIL B

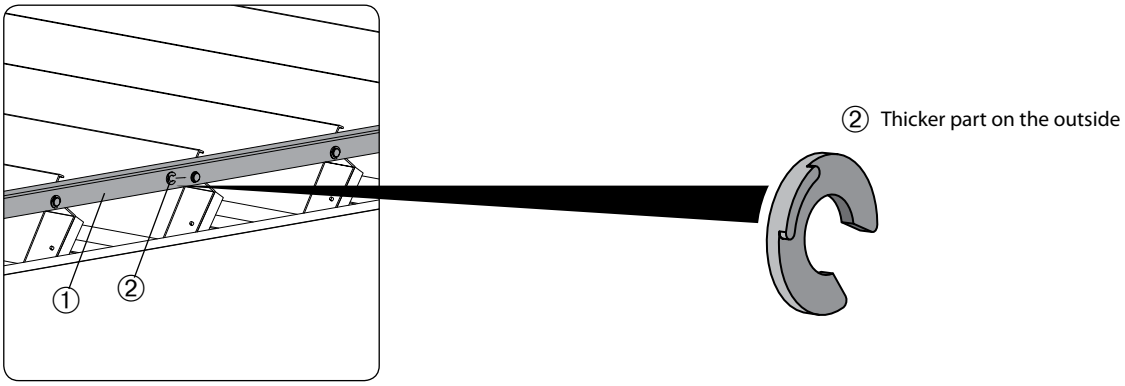


6.5 Mounting the other blades

Install the remaining blades in the frame and fix these into the driving profile ① **(DETAIL A)**. Secure using a spring washer ②.
Install the spring washer with the thicker part on the outside.



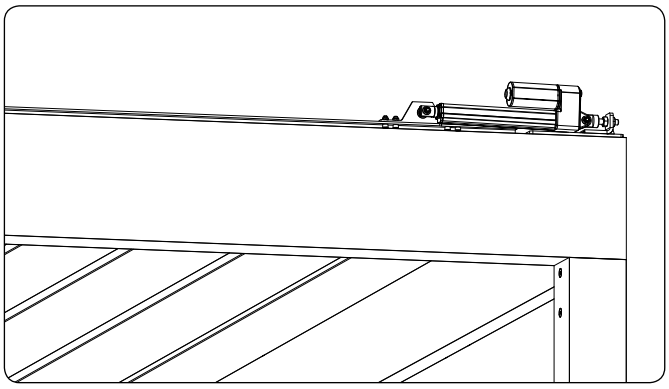
DETAIL A



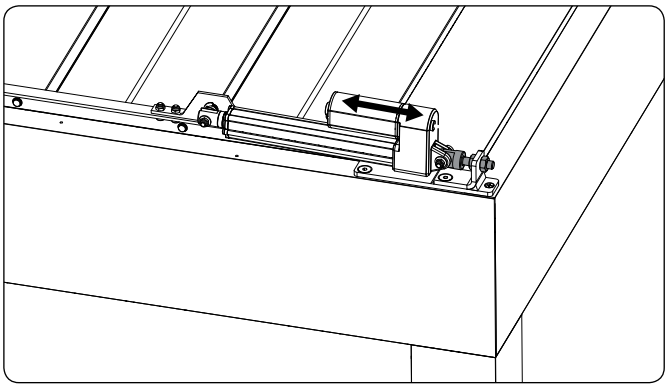
6.6 Fine-tuning the motor system

The position of the driving profile **(DETAIL A)** for the blades can be adjusted.
If the blades are under too much tension after closing them or do not close completely, this can be adjusted (max.1 cm) via the fine-tuning adjustment **(DETAIL B)** by readjusting the position of the DIN 934 – M10 nuts in the desired direction using a no. 17 open-ended spanner.

DETAIL A

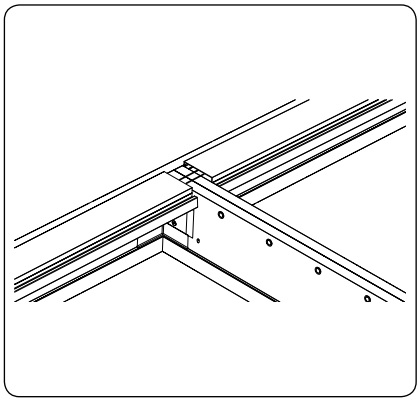


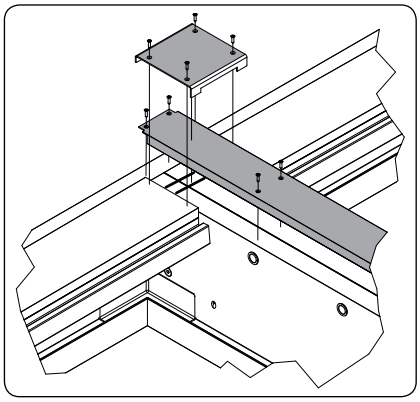
DETAIL B

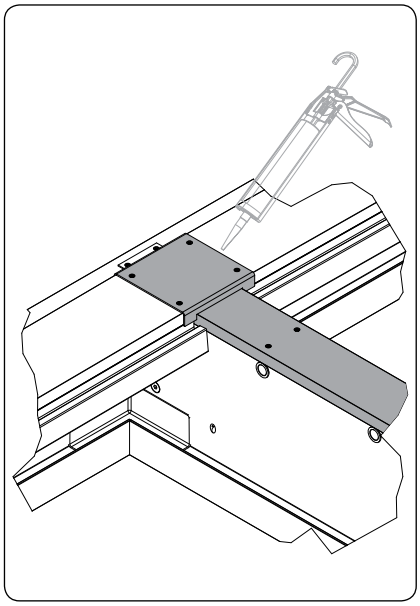


6.7 Covering the cables

The cables can run over the coupling beam from one permanent blade to another.
Install the cover over the permanent blade, drill holes of Ø 0,3 cm, seal, and fix into place using self-tapping screws.

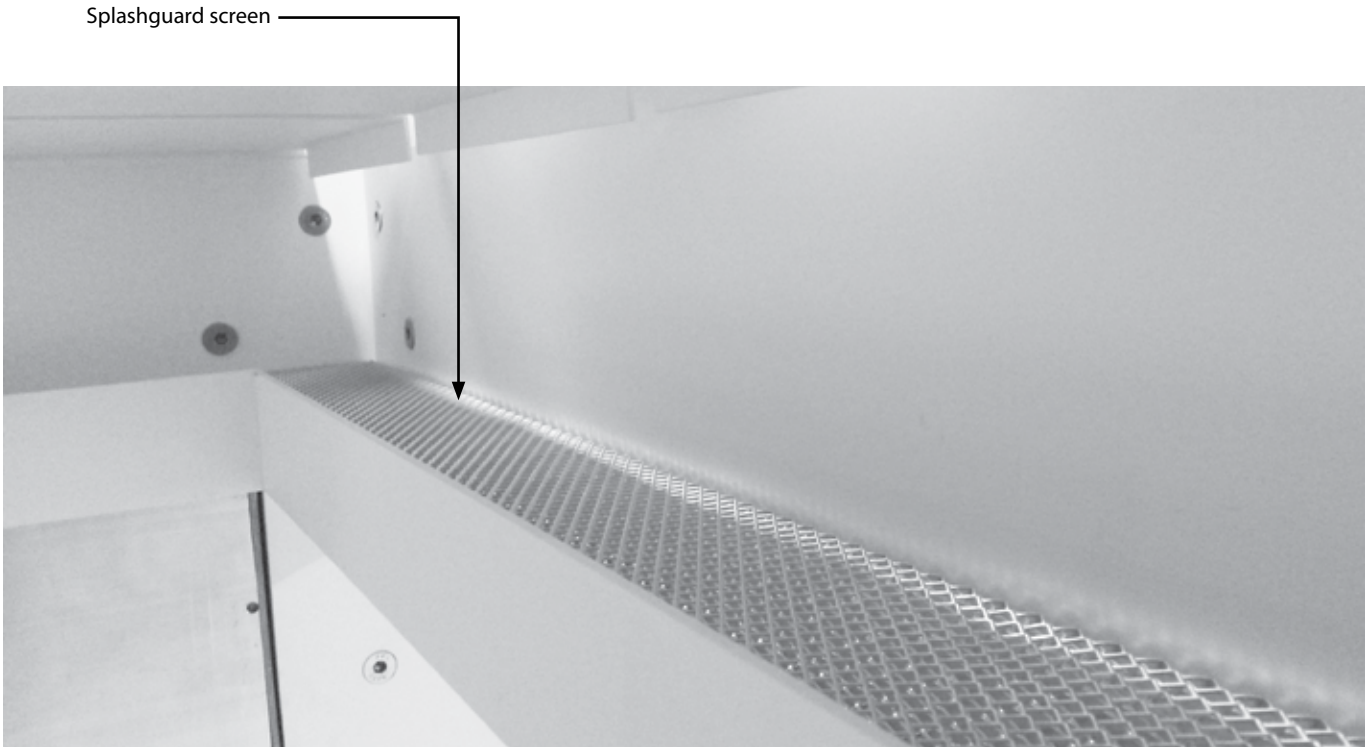






6.8 Installing splashguard screens

The gutters of the pivot beams are fitted with splashguard screens to keep water from splashing out.
The splashguard screens are 1 metre long and are installed in the gutters. The remaining length can be overlapped or cut off.

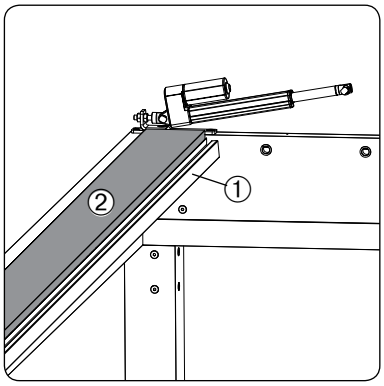


6.9 Finishing

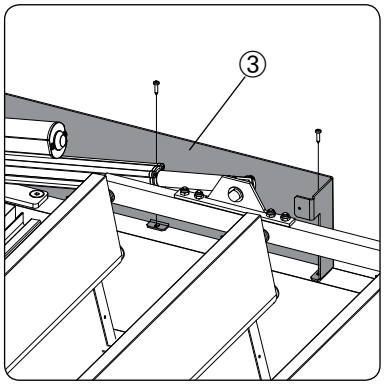
A paint pencil is provided for finishing the screws. This still has to be mixed.

1. The finishing profile ① comes with a cover ② so that the control box and transformer are protected. The cover ② is clipped onto the finishing profile ① **(DETAIL A)**. Pay attention that you install it in the correct direction. The profile also follows the runoff incline of the blades.
2. Install the motor housing ③ **(DETAIL B & C)**.
3. Take the paint pencil and remove the small pot from the top of the screw cap. Put this to the side.
4. Ease (do not turn) the screw cap with brush and fastener ring (PVC) out of the metal casing.
5. Add the desired coloured powder from the pot supplied.
6. Use the brush to mix (stir) the powder and the base coating.
7. Push the screw cap and ring back into the metal casing.
8. Then shake well (approx. 1 min.) until you hear the widget rattle.
9. Apply the ready-to-use coating in thin layers where necessary.

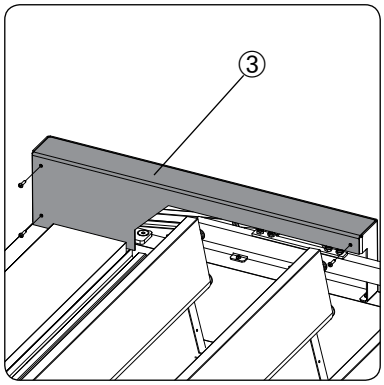
DETAIL A



DETAIL B



DETAIL C



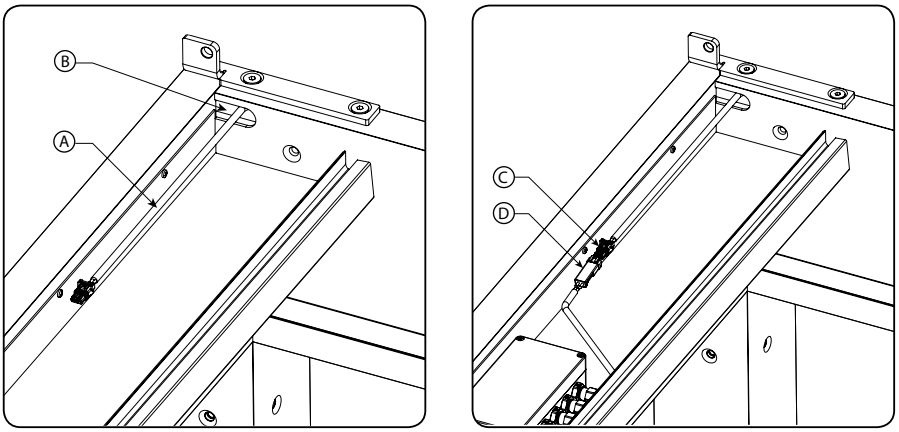
7 Final check

1. Check if all screws, bolts and nuts are tightened.
2. Check that the blades are operating correctly.
3. Give your customer the Alba warranty certificate with the usage and maintenance terms and conditions. The customer must keep these in a safe place.

INSTALLATION LIGHTS

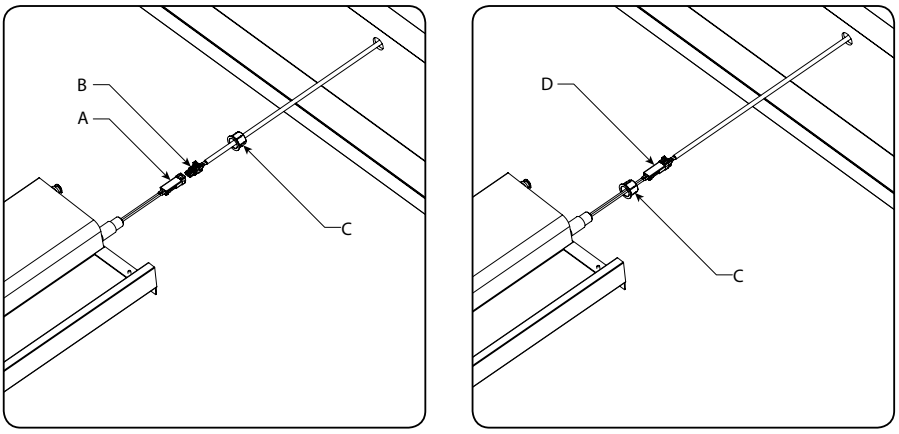
1 Installation Alba Light

1. The cable(s) of the LED-blade(s) Ⓐ are provided in the Pivot frame profile at the motor side.
   Put the cable(s) through the provided cut-away Ⓑ while the connection between the Pivot & Span frame profiles is being made (6.1 step 5 installation instructions Alba).
2. Connect the connection fiche of the LED-blade Ⓒ to the connection fiche of the control box of the LED lighting Ⓓ.



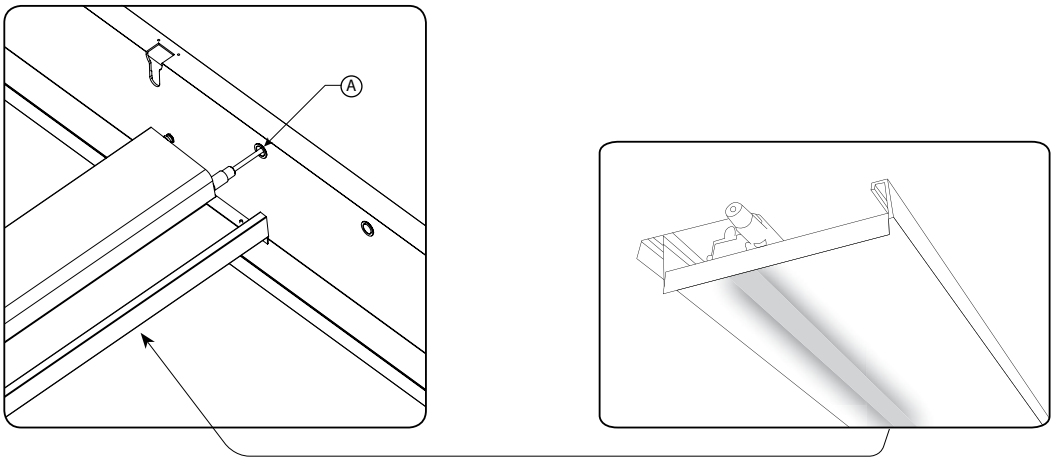
3. Position the LED-blades on the desired position in the frame. Connect the connection fiche of the LED-blade Ⓐ with the fiche of the cable that comes out of the frame profile Ⓑ. Slid the bearing Ⓒ over the connected connection fiches Ⓓ.

Caution:
Make sure the connection fiches are still connected. Repeat this step in case you need to connect several LED-blades.



Connect the control box to the mains voltage (230 Volt AC), and check the operation of the LED lighting.
Attention!: Connect the LED lighting to a separate electrical circuit

Put the connection fiches through the hole in the Pivot frame profile and place the bearing Ⓐ in the hole.



Install the blade in the frame and follow the further instructions in the Alba installation-instructions (6.2 Step2).

Final check

Check that all screws, bolts and nuts are firmly tightened.
Check the operation of the LED-blades.

Position LED-blade Alba

Position cable (L = 7,5 m) in Pivot frame profile at the motor side in case of an Alba with LED-blades (counting from motor side)

Pivot	Blades	Position in case of 1 LED-blade	Position in case of 2 LED-blades	Position in case of 3 LED-blades
260,5 cm	11	6	4 + 8	3 + 6 + 9
282 cm	12	6	4 + 8	3 + 6 +9
303,5 cm	13	7	4 + 9	4 + 7 + 10
325 cm	14	7	5 + 10	3 + 7 + 11
346,5 cm	15	8	5 + 10	4 + 8 + 12
368 cm	16	8	5 + 11	4 + 8 +12
389,5 cm	17	9	6 + 12	4 + 9 + 14
411 cm	18	9	6 + 12	4 + 9 + 14
432,5 cm	19	10	6 + 13	5 + 10 + 15
454 cm	20	10	7 + 14	5 + 10 + 15
475,5 cm	21	11	7 + 14	5 + 11 + 17
497 cm	22	11	7 + 15	5 + 11 + 17
518,5 cm	23	12	8 + 16	6 + 2 + 18
540 cm	24	12	8 + 16	6 + 13 + 20
561,5 cm	25	13	8 + 17	6 + 13 + 20
583 cm	26	13	9 + 18	6 + 13 + 20
604,5 cm	27	14	9 + 18	7 + 14 + 21

Corradi Srl
Via G. Brini, 39 • 40128 Bologna, Italy
T +39 051 4188 411• **F** +39 051 4188 400
E info@corradi.eu

www.corradi.eu

05611-ENG