

TEXAS ALUMINUM SYSTEMS, LLC

Installation Instructions

Aluminum Louvers Roof Pergola

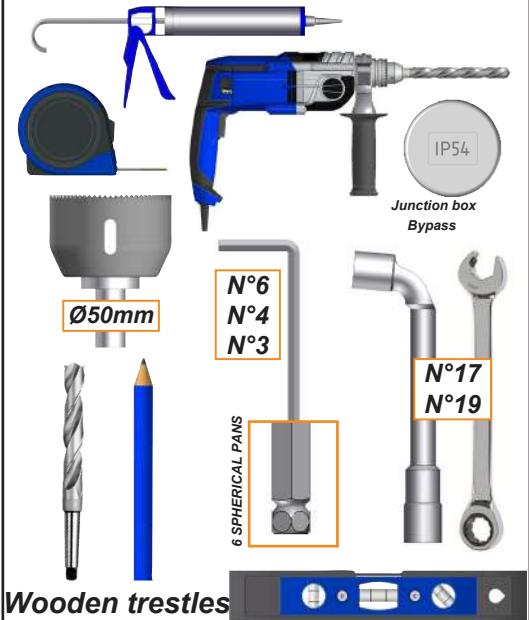
Perpendicular Louvers



**3 people
One day**

Preparing the Pose

Tools needed for laying off concrete pads and wedging.



REQUIREMENTS

CAUTION: Read the following instructions completely before starting to install your pergola. Your security depends on it.

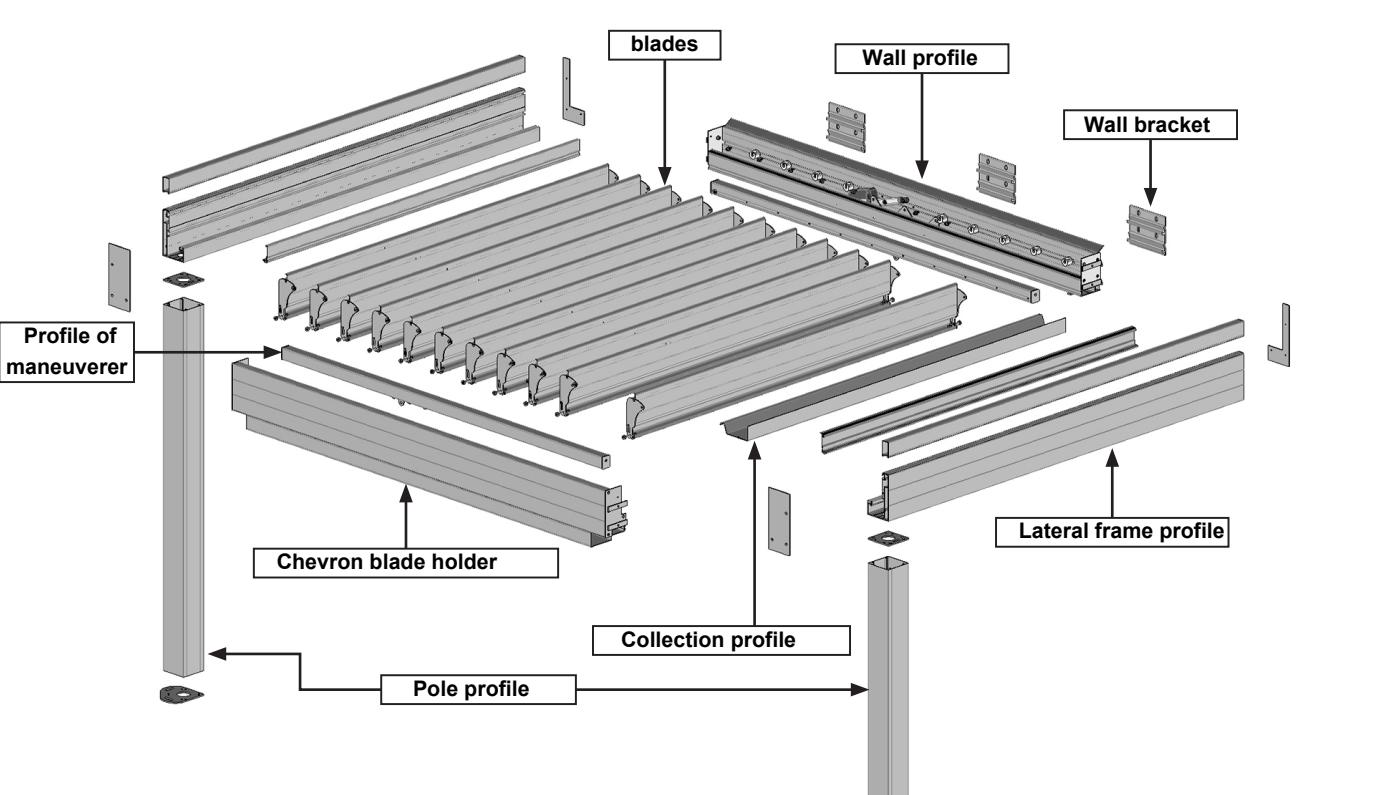
BEFORE BEGINNING THE INSTALLATION, check the contents of the packages received if an item concerns you or is missing during this inspection, contact our technical service as soon as possible (do not mount the structure if any items are defective.)

- ! Check the flatness of your wall. In the case of a hollow or curved wall, make a solid wedging of the wall box in order to obtain a correct alignment.
- In the absence of concrete slab on the ground, make concrete pads at each foot, in order to fix the supports.
- Dimension and composition of concrete pads:
 - 63cm x 63cm x 63cm (500Kg) + REINFORCEMENT.

Attention, take into account the slope of your terrace for the installation of the bioclimatic pergola Architect. Calibrate the ground fixtures or change your installation height to level the structure at 0 °.



The bioclimatic pergola Architect



Rooms.



S27502 :
Nb: 3 per product



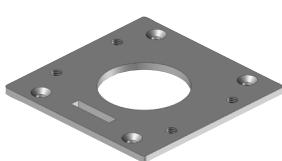
JBSO4507:
Nb: 2 per product



JBSO4506:
Nb: 2 per product
(Right and left piece)



ST4502:
Nb: 2 per product



ST47:
Nb: 2 per product



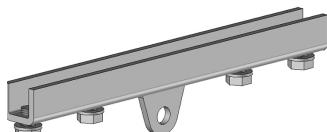
BSOVER01:
Nb: 2 per product
Premature on PBSO41 04



BSO4902:
Nb: 2 per product Premature
on PBSO41 04 (Right-hand
piece on the left)



BSO4303:
Nb: 2 per product
Premade on PBSO41 04
(Right and left piece)



BSO4202:
Nb: 2 per product
Premade on PBSO42
(Right and left piece)



PLB9041:
Nb: 2 by drainage

The screws.



DIN7982ST5.5x38:
Nb: 8 per pole



DIN912M8x14 + Washer Ø8
Nb: 4 per pole



M8 bolt: Nb: 2
per span
Prepped on
BSO4902



Bolt PLV2266:
Nb: 2 per bay Premade
on BSOVER04



DIN7982ST4.2x22
Nb: 2 per product



DIN7982ST4.8x25:
Nb: 12 per product

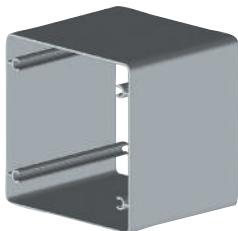


DIN7380M8x20
Nb: 2 per blades
PBSO4306



REG2
Nb: 3 per product

Profiles.



PA34:
Nb: 2 per product



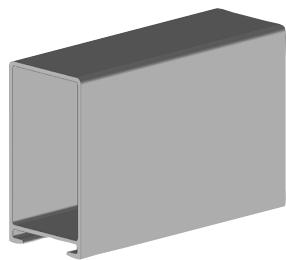
PBSO47 :
Nb : 2 per product



PBSO49 :
Nb : 1 per product

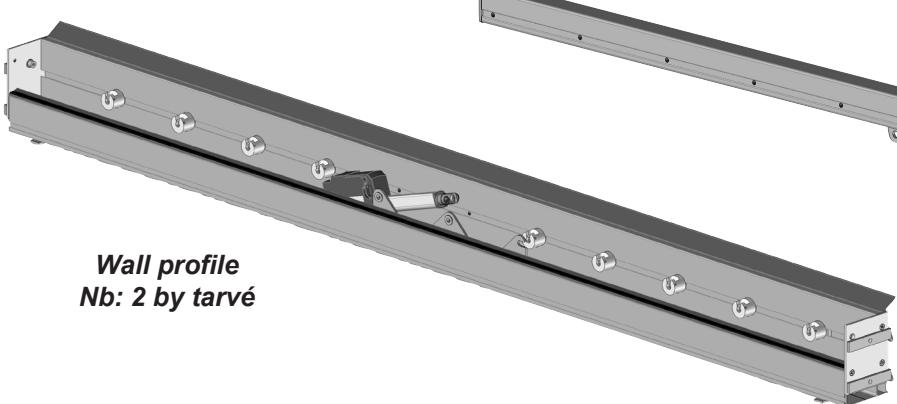


PBSO4503 :
Nb : 2 per product



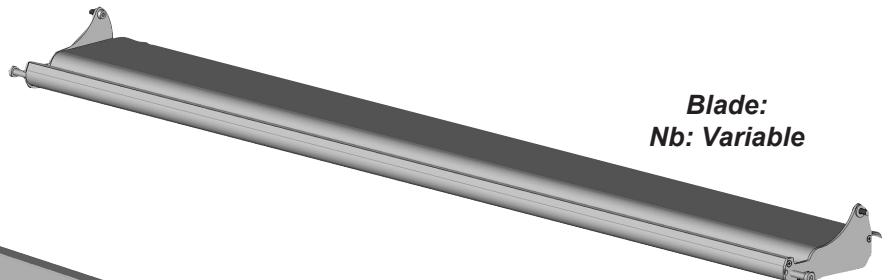
PBSO4702:
Nb : 2 per product

Sets.



Wall profile
Nb: 2 by tarv 

Operating profile:
Nb: 2 by taped.

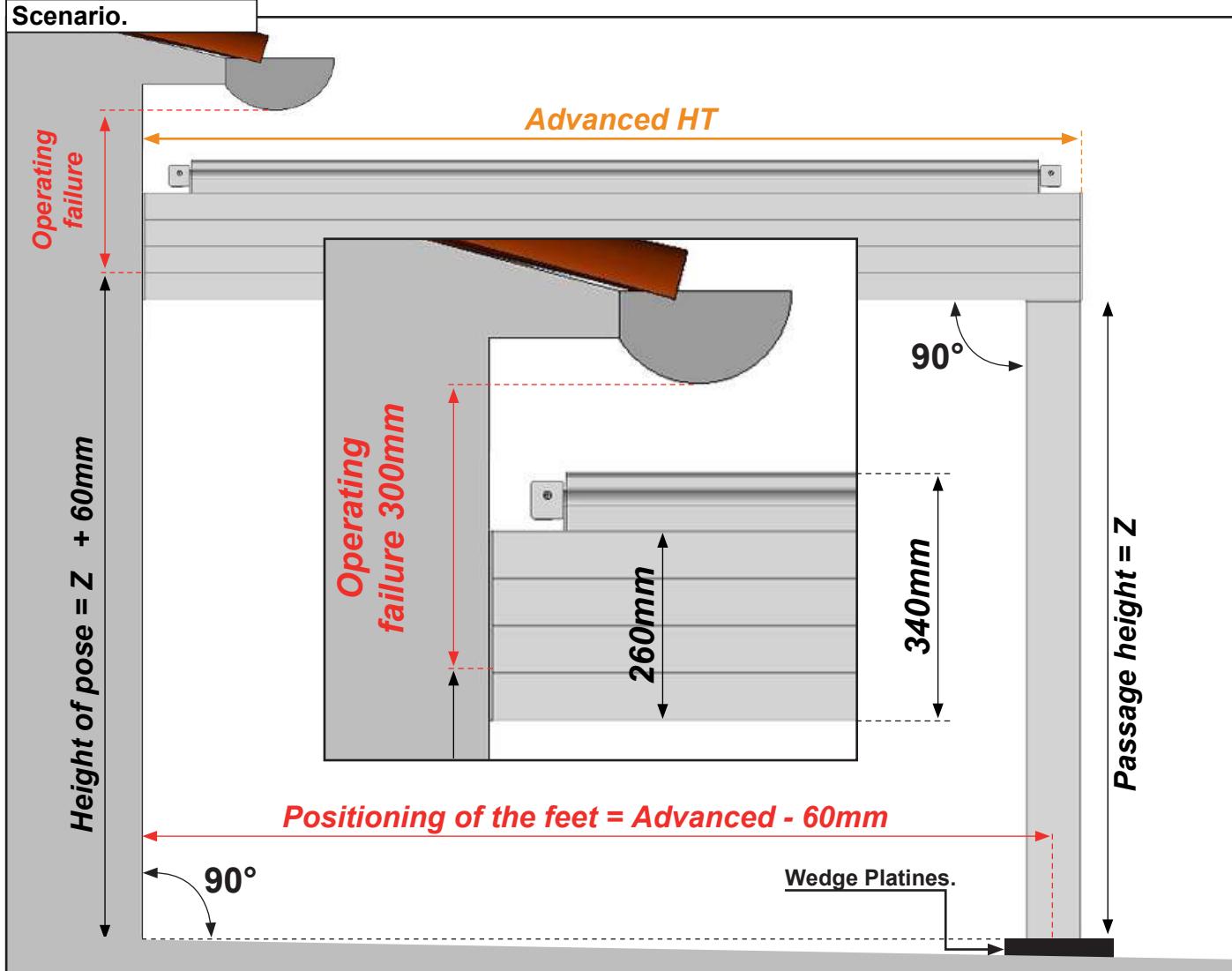


Blade:
Nb: Variable

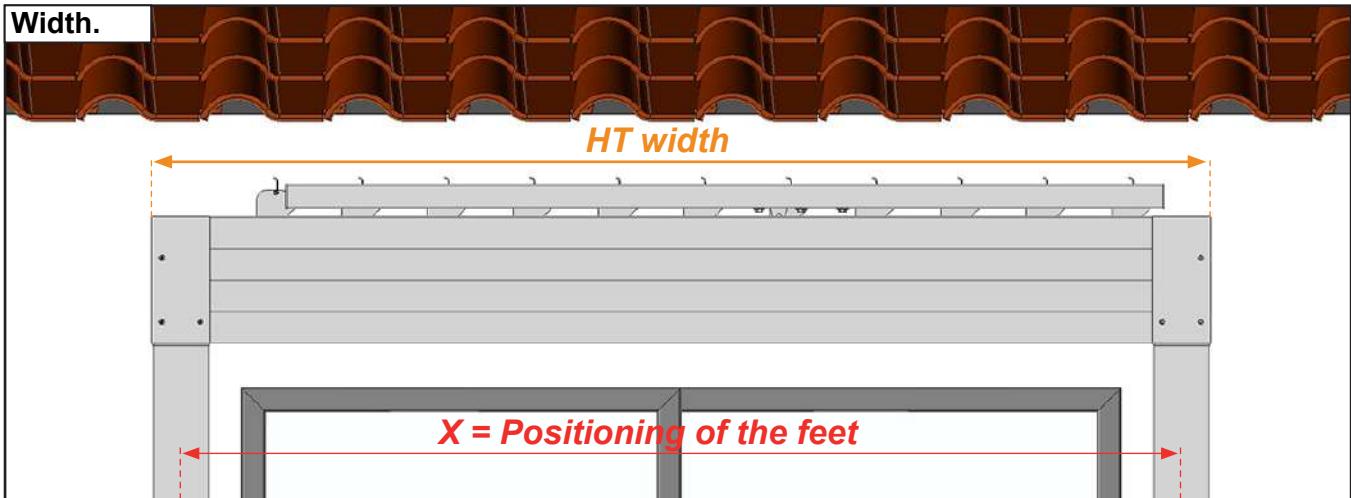


Chevron blade support:
Nb: 1 by tarv .

Scenario.



Width.



Blades	Advanced	X	Blades	Advanced	X	Blades	Advanced	X
5	1115mm	1000mm	15	2865mm	2750mm	25	4615mm	4500mm
6	1290mm	1175mm	16	3040mm	2925mm	26	4790mm	4675mm
7	1465mm	1350mm	17	3215mm	3100mm	27	4965mm	4850mm
8	1640mm	1525mm	18	3390mm	3275mm	28	5140mm	5025mm
9	1815mm	1700mm	19	3565mm	3450mm	29	5315mm	5200mm
10	1990mm	1875mm	20	3740mm	3625mm	30	5490mm	5375mm
11	2165mm	2050mm	21	3915mm	3800mm	31	5665mm	5550mm
12	2340mm	2225mm	22	4090mm	3975mm	32	5840mm	5725mm
13	2515mm	2400mm	23	4265mm	4150mm	33	6015mm	5900mm
14	2690mm	2575mm	24	4440mm	4325mm			

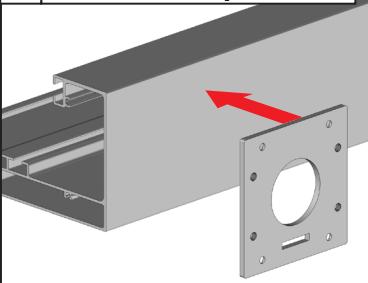
Mechanization of water evacuation and mechanization of the fixing of poles.

This operation is to be carried out only if the mechanizations have not been carried out by us.

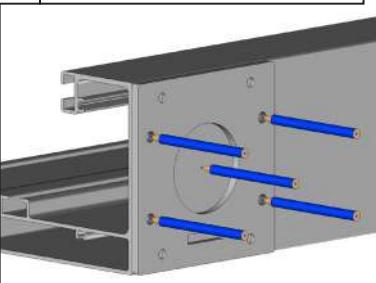
Attention, the evacuation mechanizations are coaxial with the poles. Make sure they are in good position before going on.

Evacuation to be carried out at the level of each post.

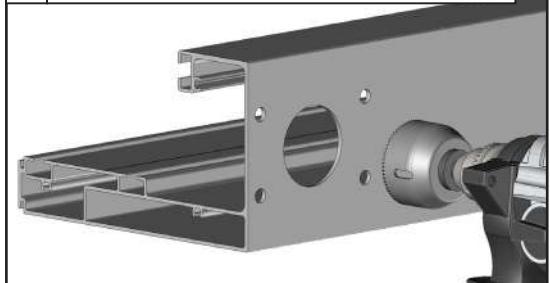
A Position the plate.



B Mark the holes.



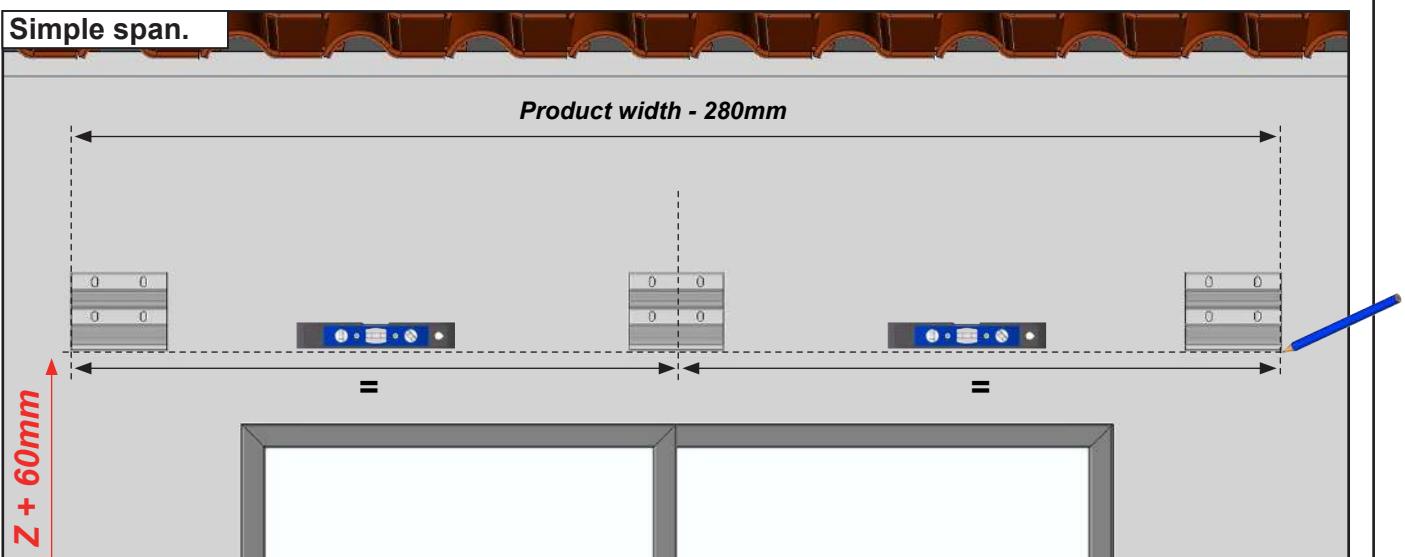
C Percer 1xØ50mm + 4xØ9mm.



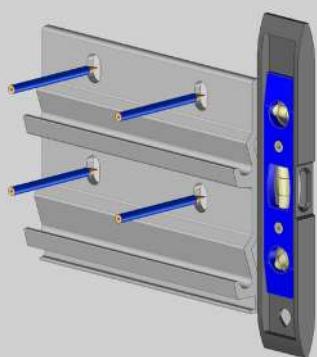
1 Laying wall brackets.

The wall brackets are positioned on the wall in a balanced way at each span. 3 wall brackets are to be fixed by span.

Simple span.



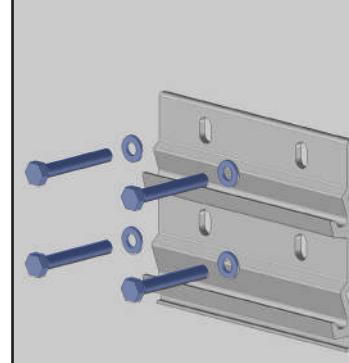
A



B



C



Adapt the attachment to the nature of the wall. Fixing with Ø10mm screws. Kit of screws and washers not supplied. In the case of installation using a chemical sealing kit, refer to the instructions for use of the product used.

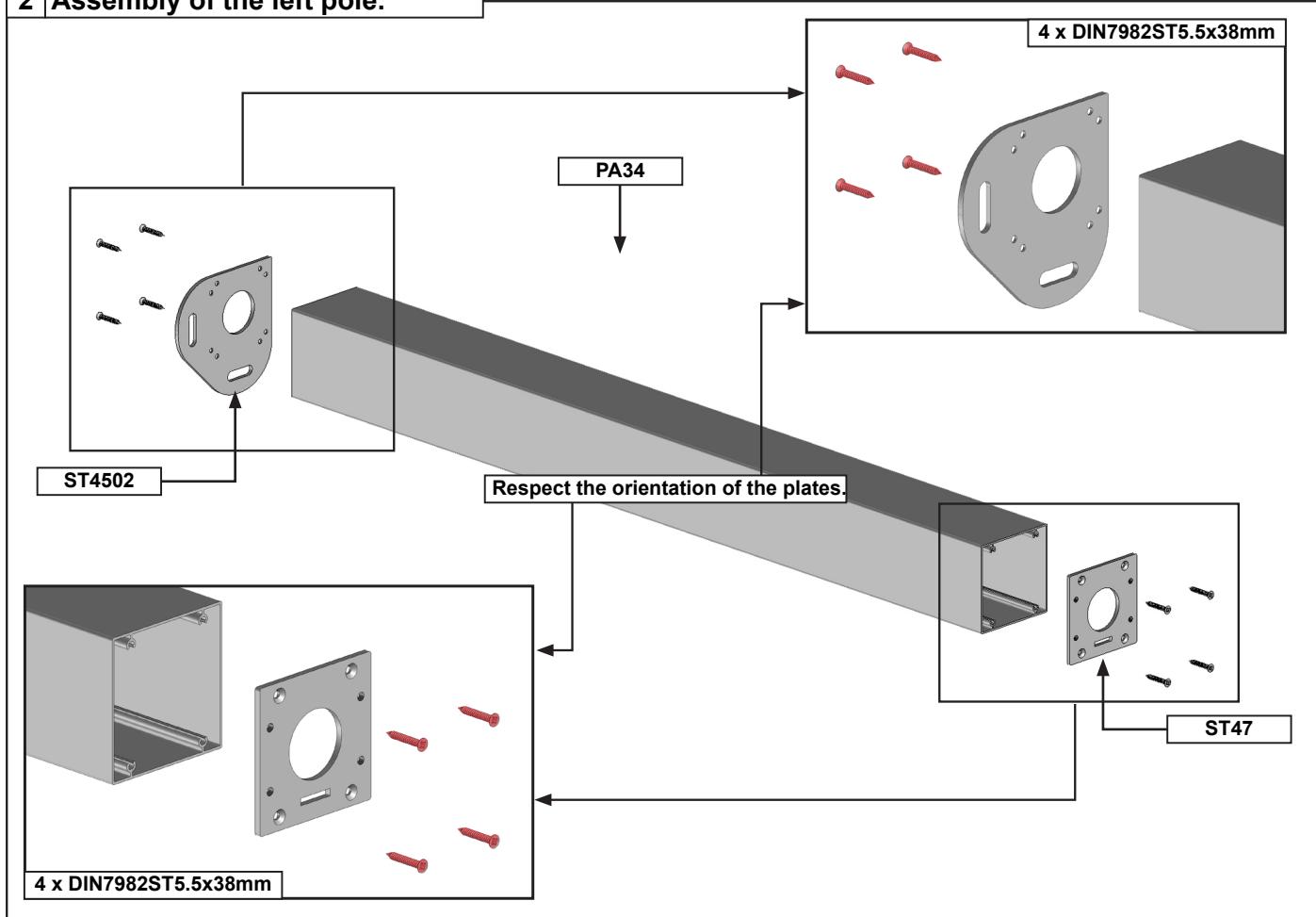
IMPORTANT :

Perform level control and alignment of the wall brackets before proceeding with the installation. , reposition the turntables not level

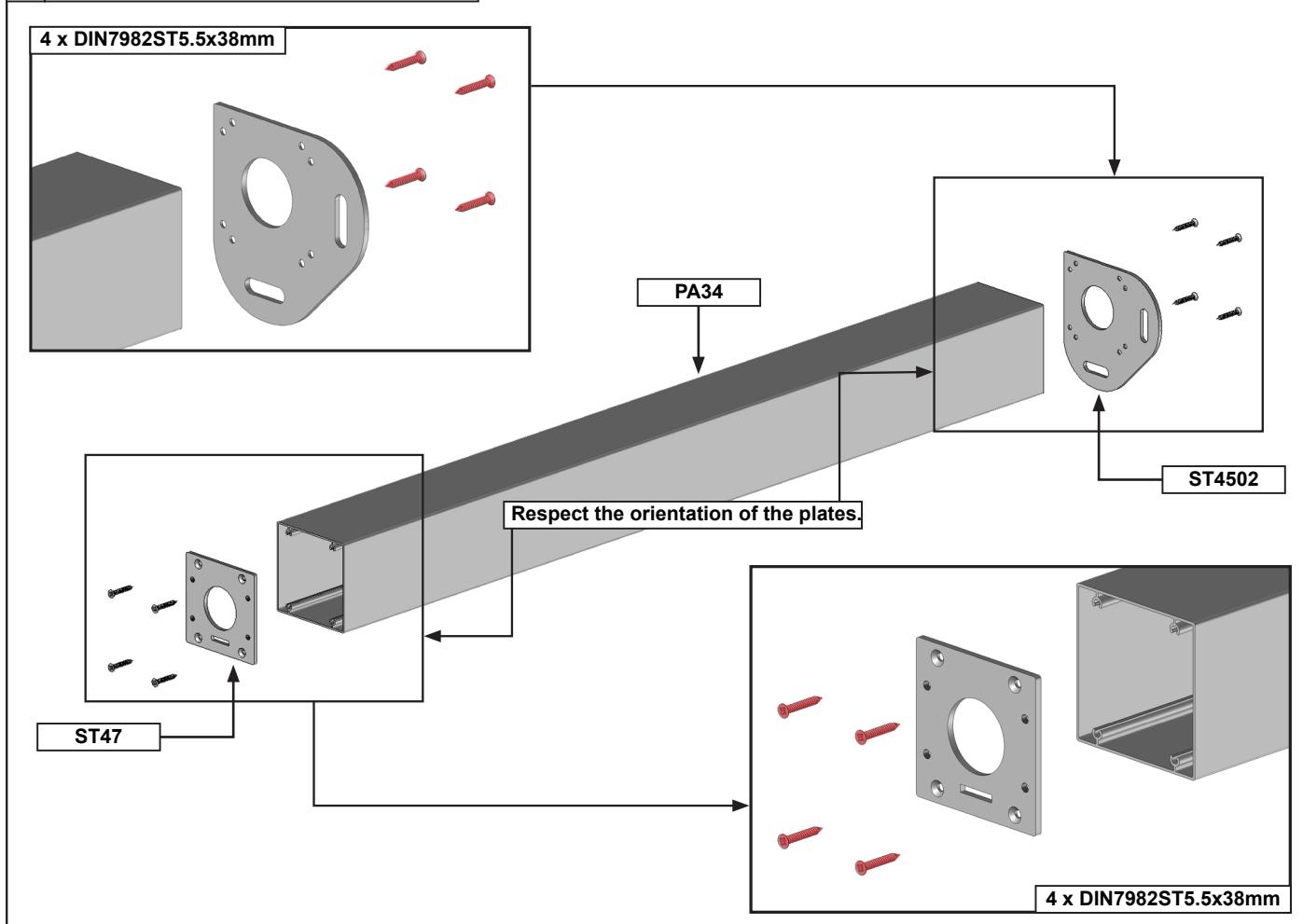
Control , continue laying the pergola.

Control , reposition the decks not level or misaligned.

2 Assembly of the left pole.

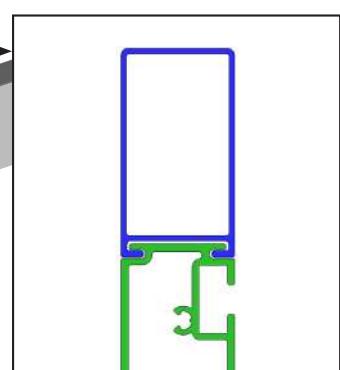
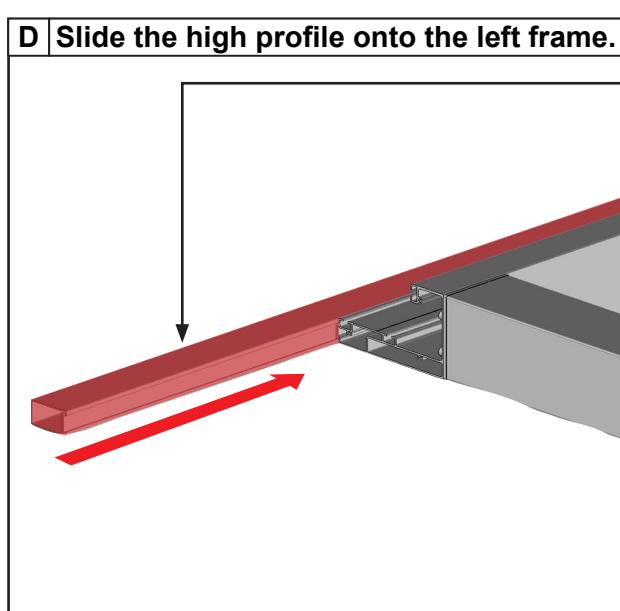
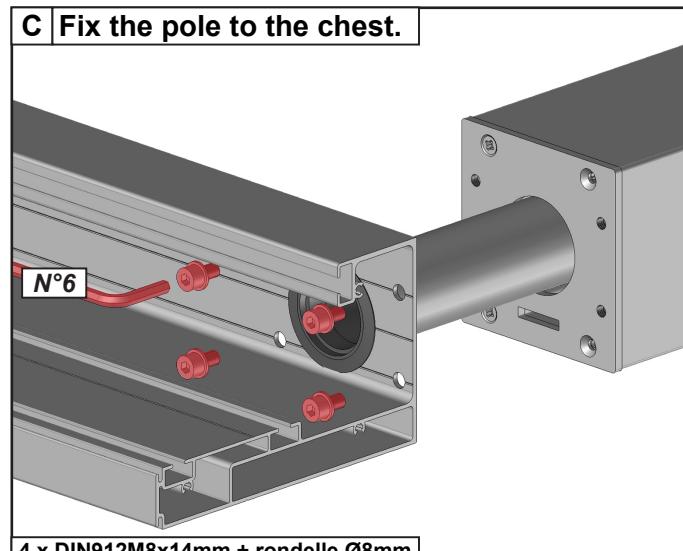
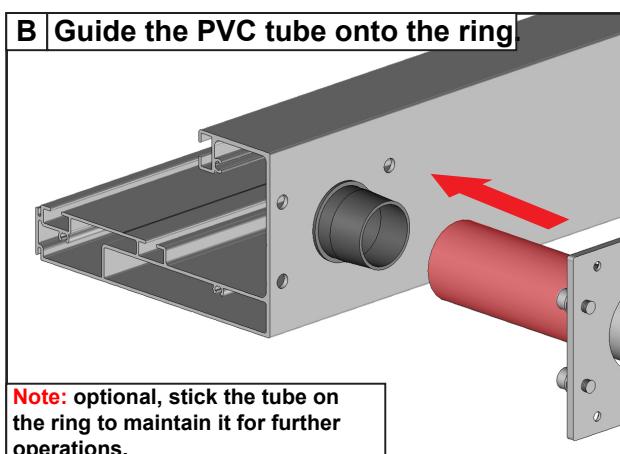
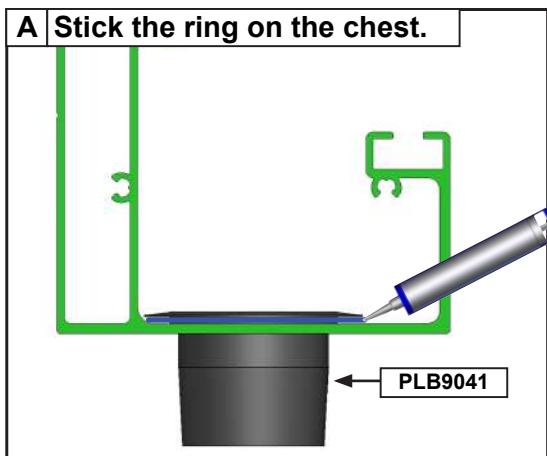
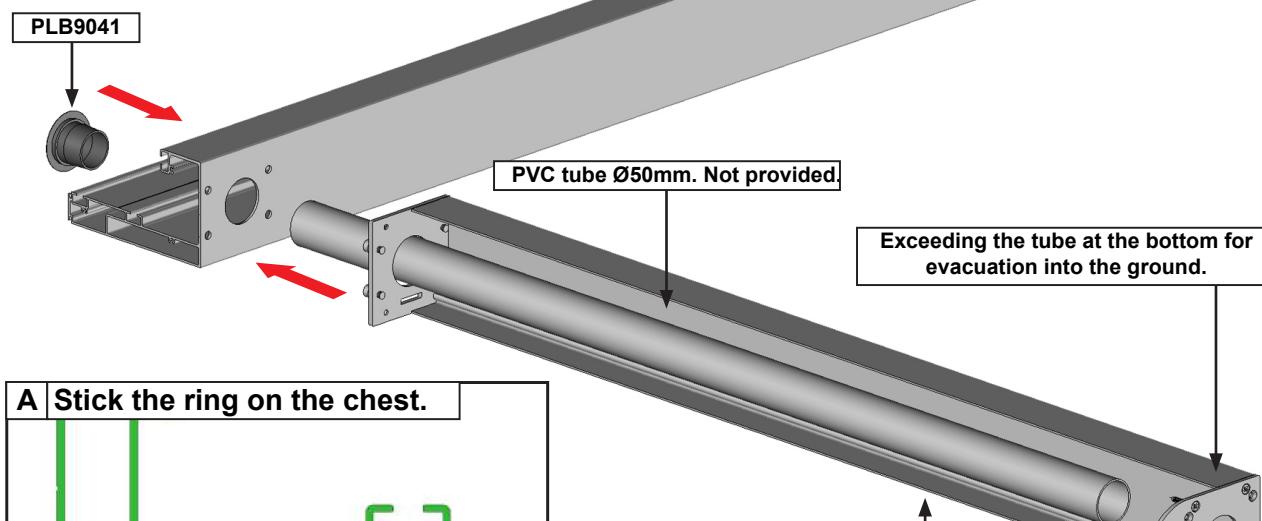


3 Assembly of the right post.



4 Assembly of the left frame. Example with straight post + drainage in the soil.

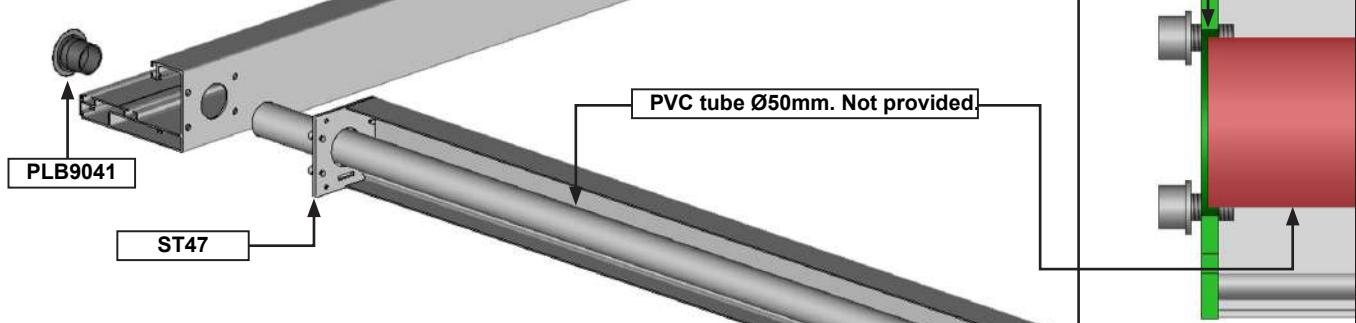
Note : perform these operations for the right frame also.



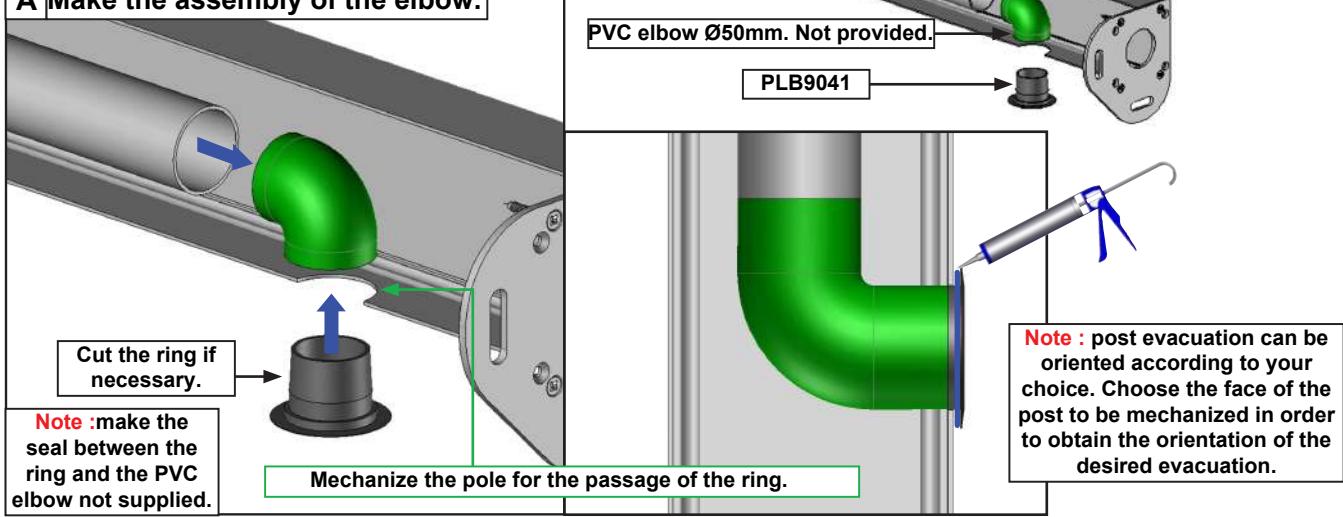
5 Assembly of the left frame. Example with straight post + drain elbow.

Note : determine the face where the water discharge will be located. **Attention**, the evacuation of water must be directed towards the outside of the pergola. Perform these operations for the right frame as well.

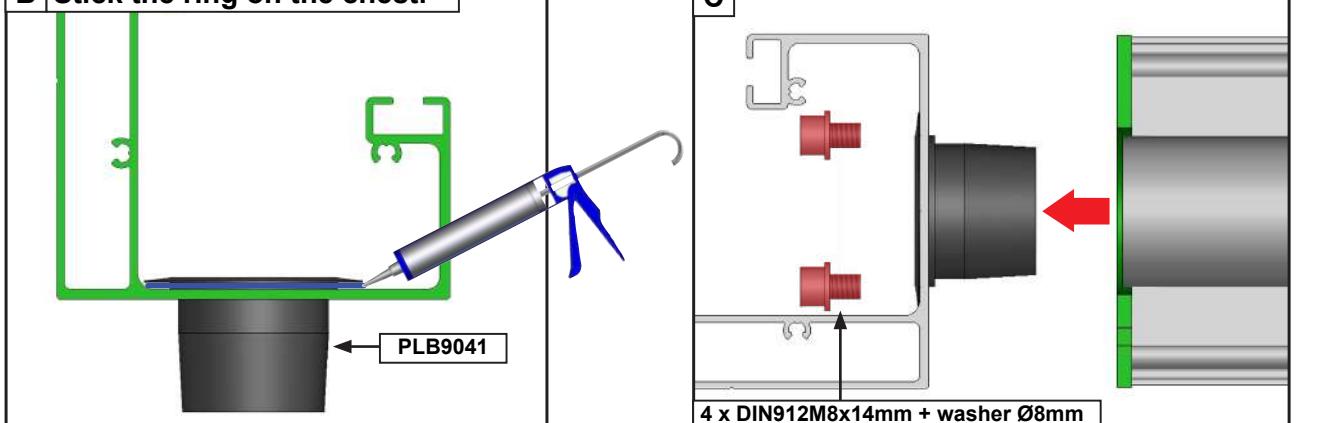
Note : determine the length of your PVC tube in order to have a 3mm clearance with the ST47 turntable.



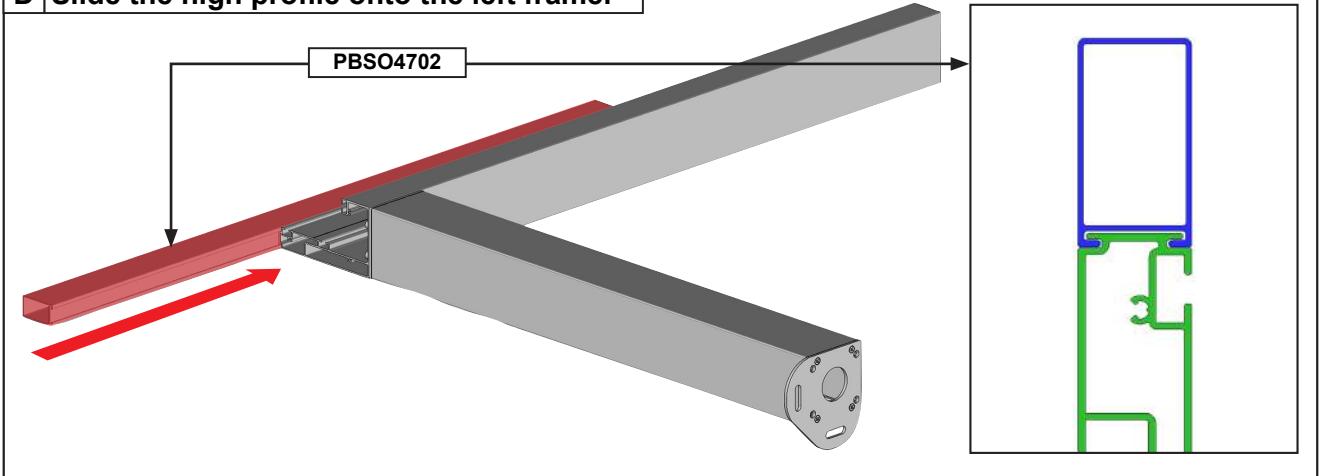
A Make the assembly of the elbow.



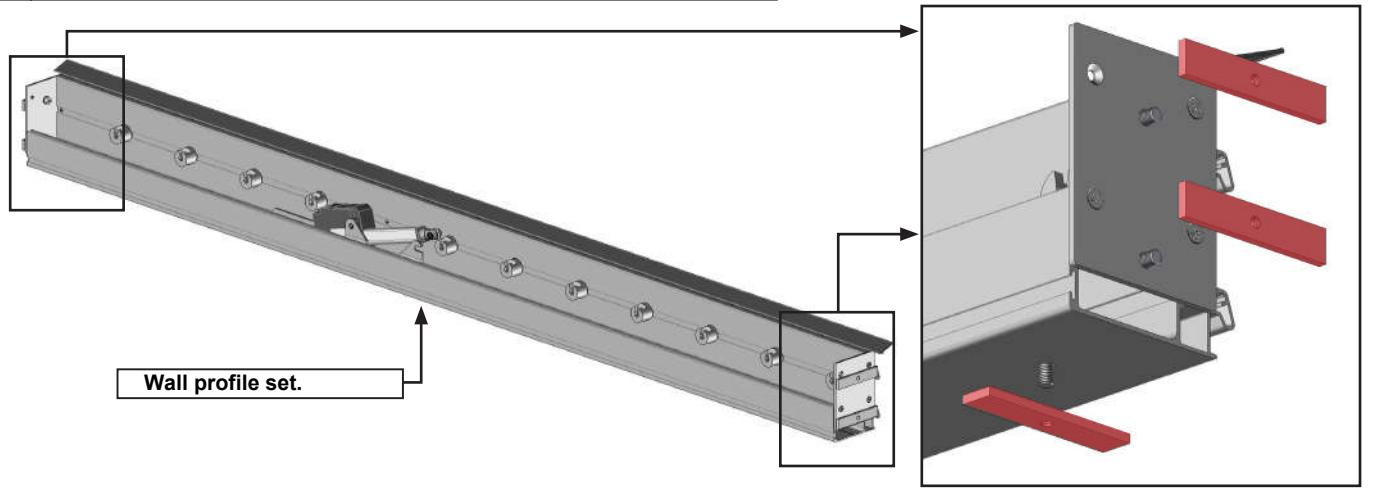
B Stick the ring on the chest.



D Slide the high profile onto the left frame.

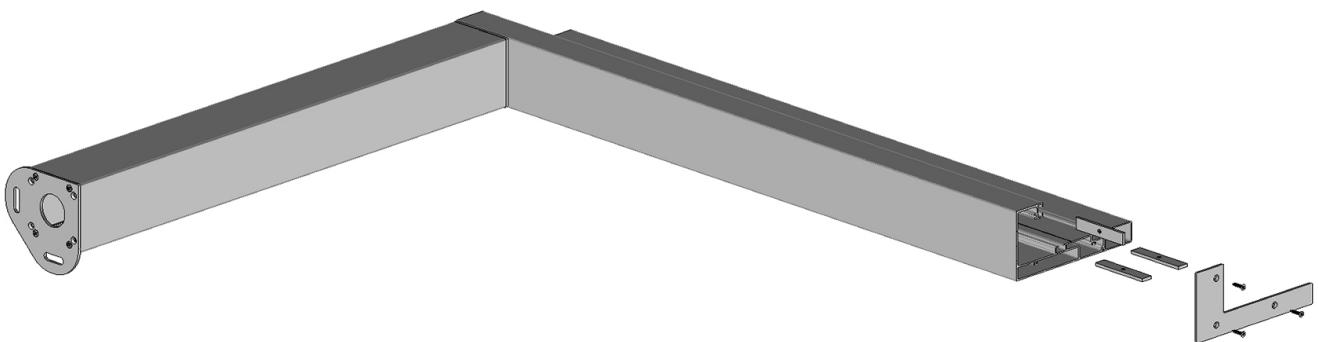


6 Disassemble the pads from the wall profile assembly.

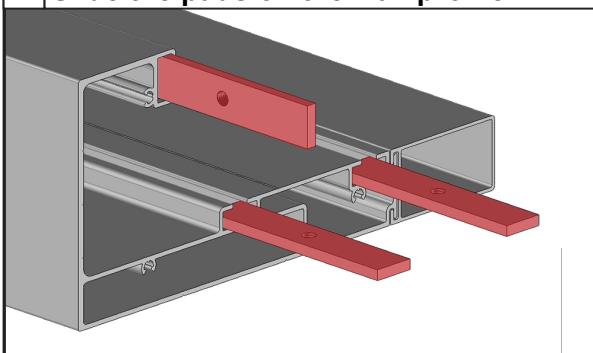


7 Install the JBSO4507 sealing flange on the left frame and on the right frame.

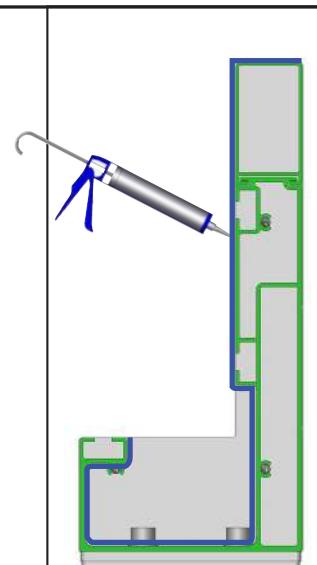
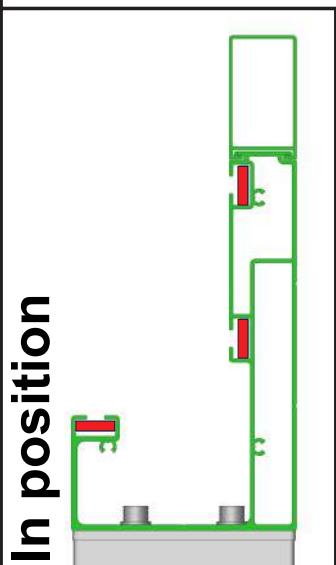
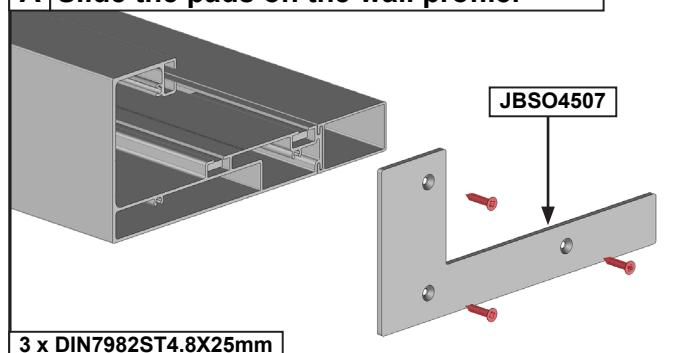
Note : perform these operations for the right frame also.



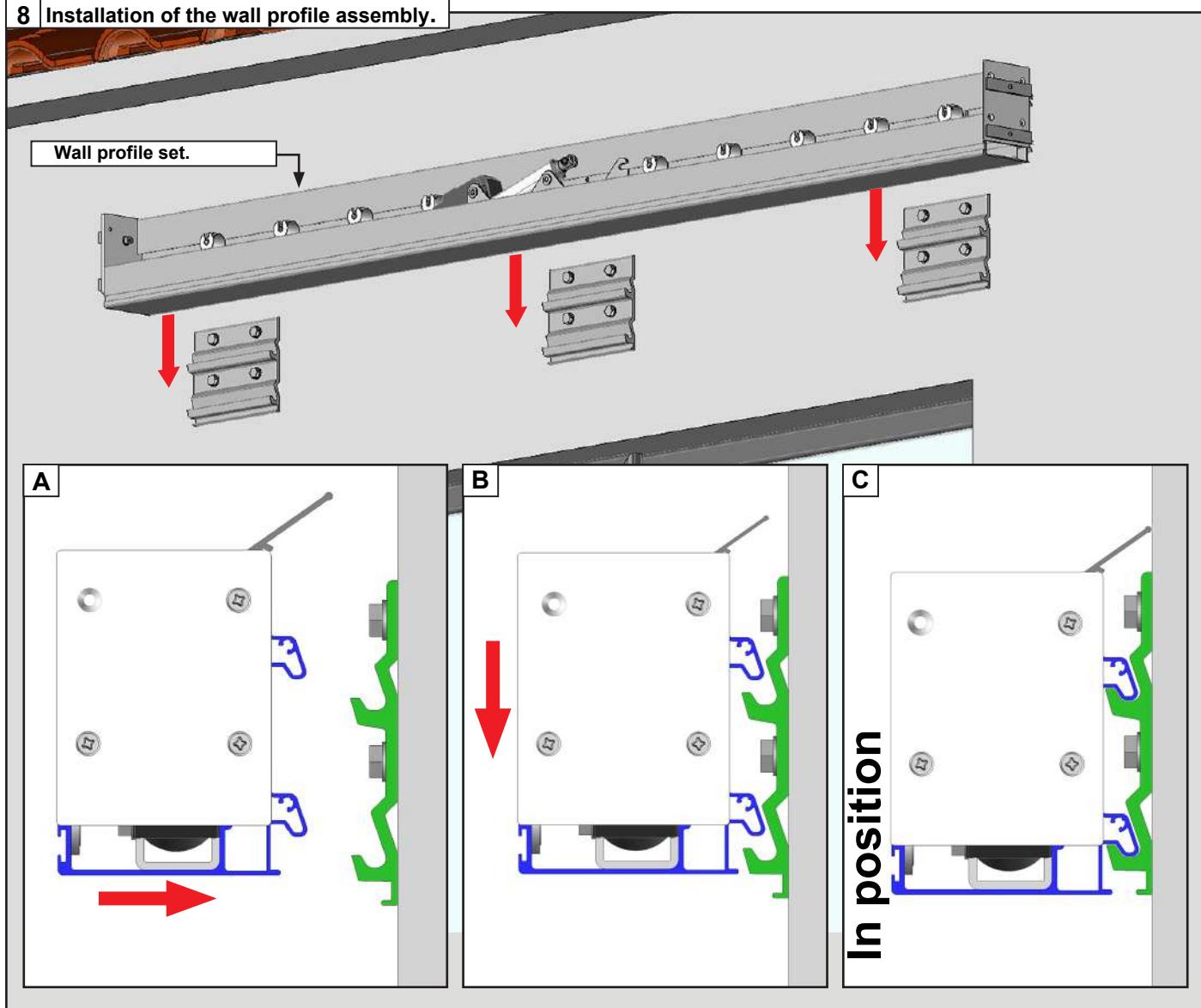
A | Slide the pads on the wall profile.



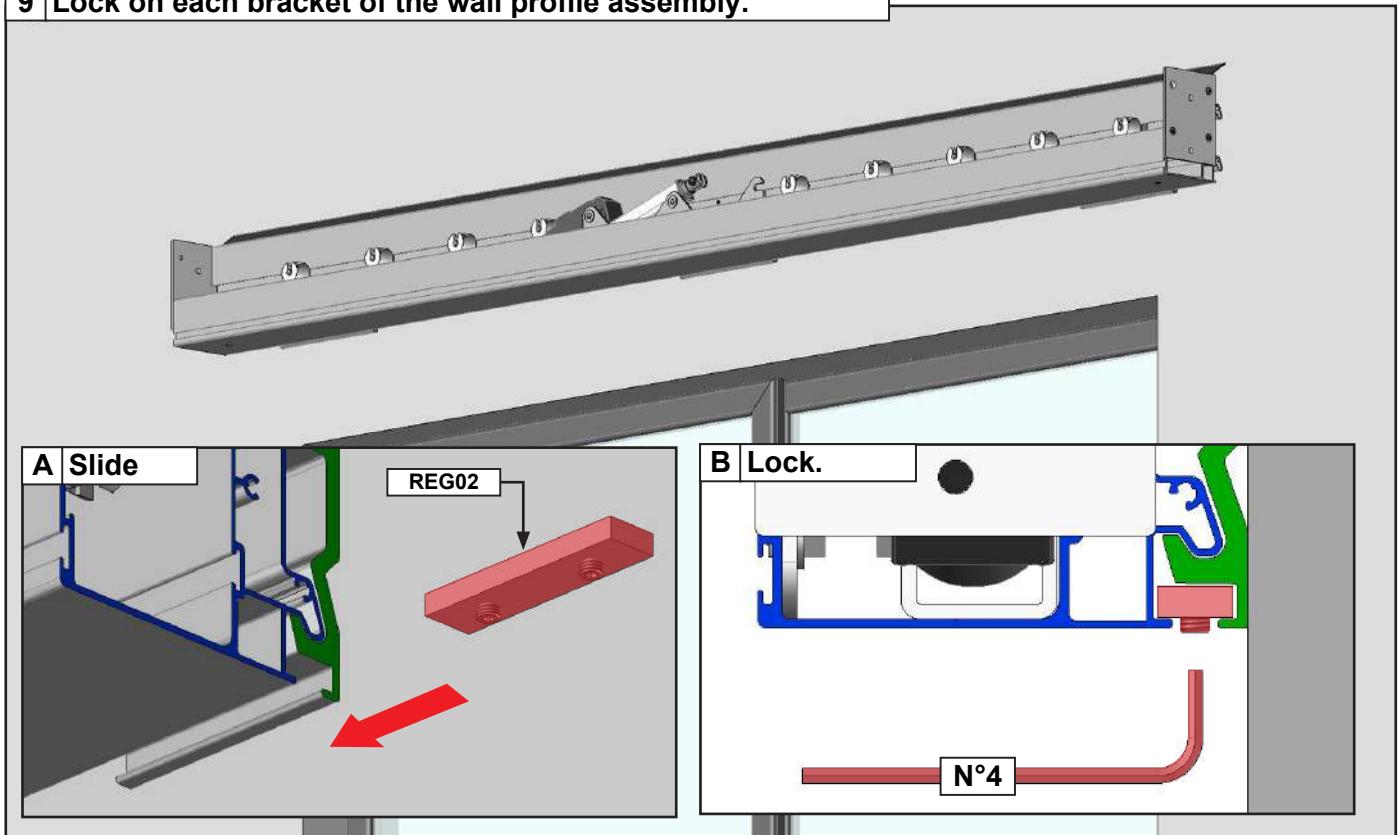
A | Slide the pads on the wall profile.



8 Installation of the wall profile assembly.

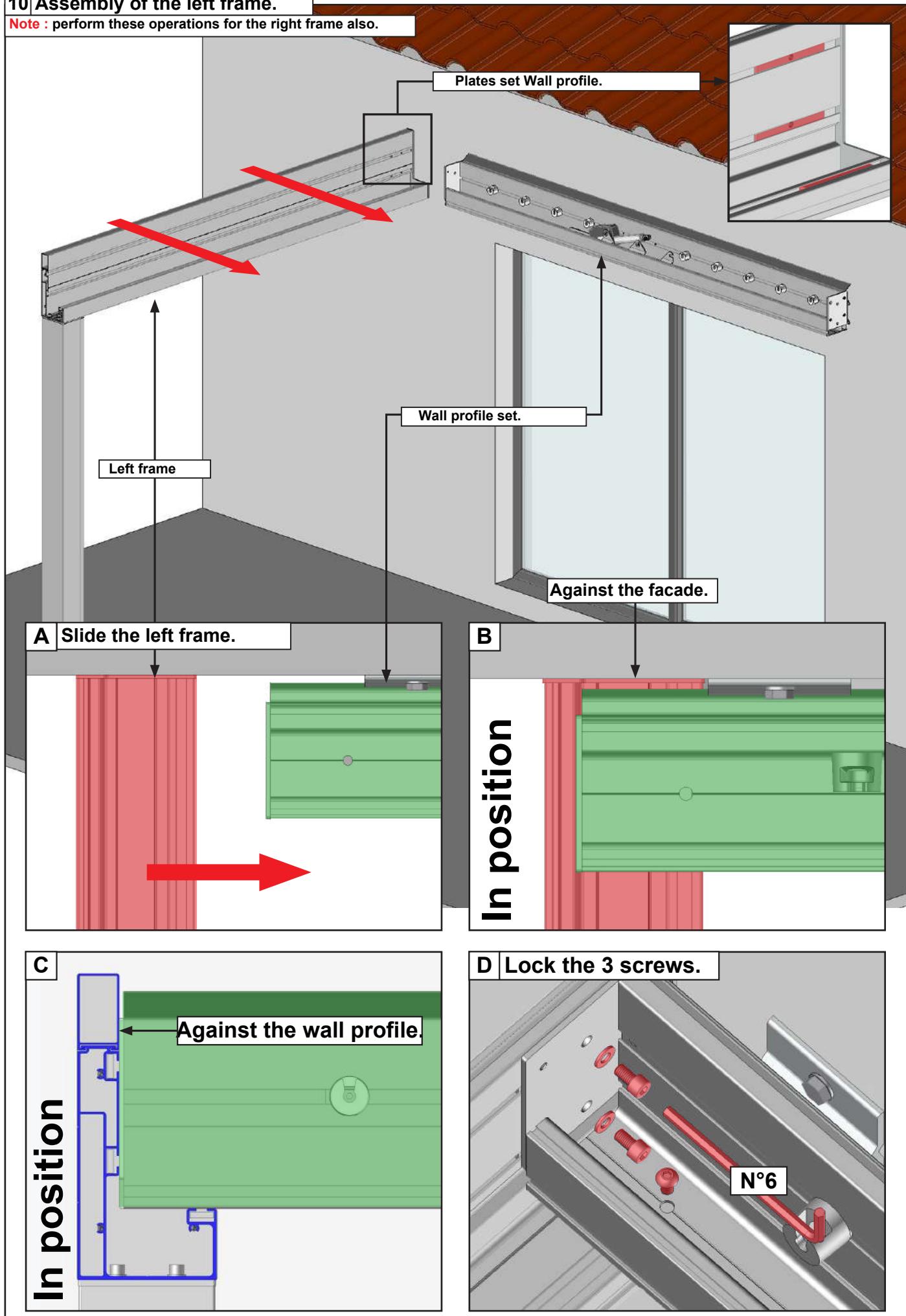


9 Lock on each bracket of the wall profile assembly.



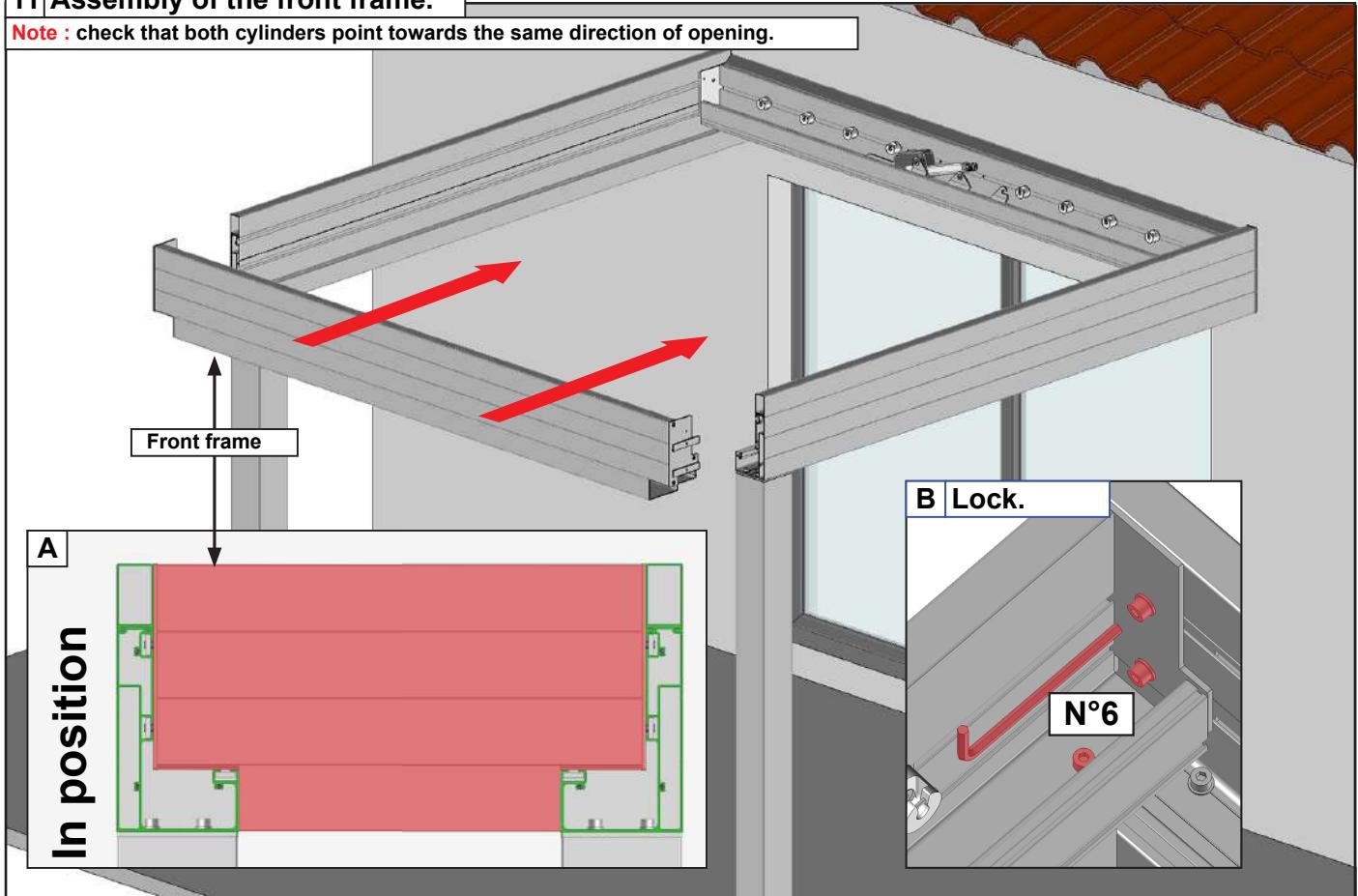
10 Assembly of the left frame.

Note : perform these operations for the right frame also.

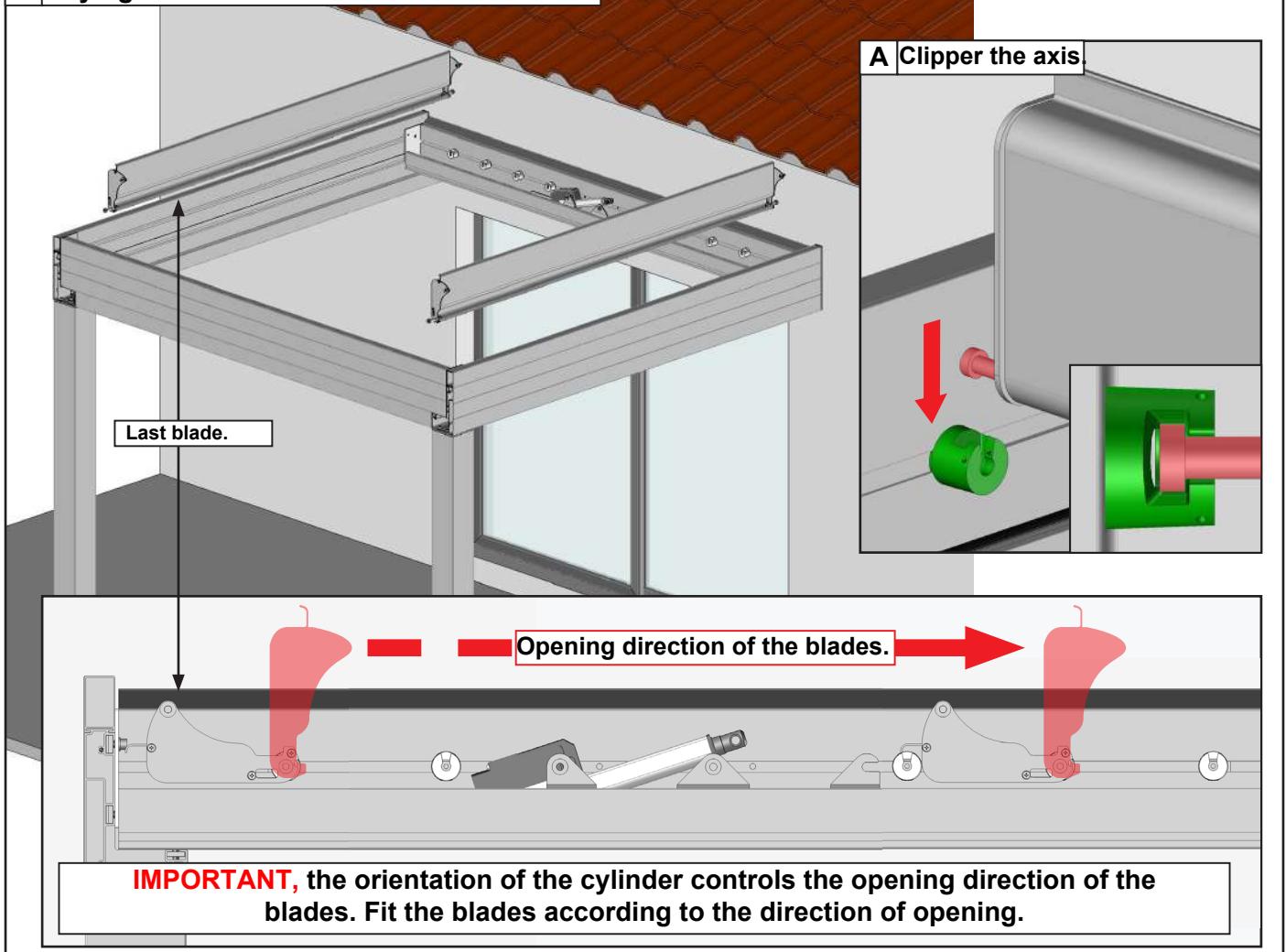


11 Assembly of the front frame.

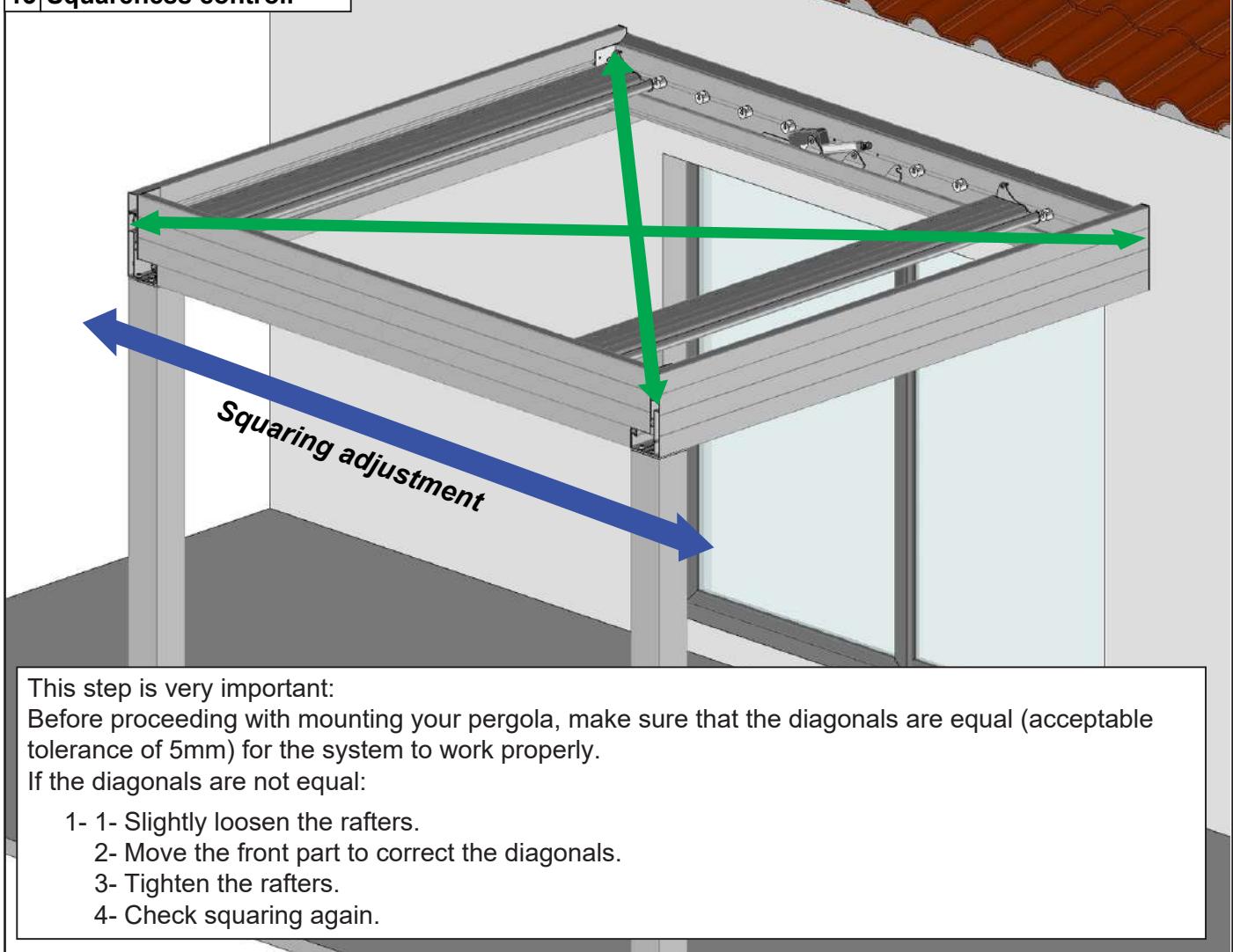
Note : check that both cylinders point towards the same direction of opening.



12 Laying the second and the last blade.



13 | Squareness control.



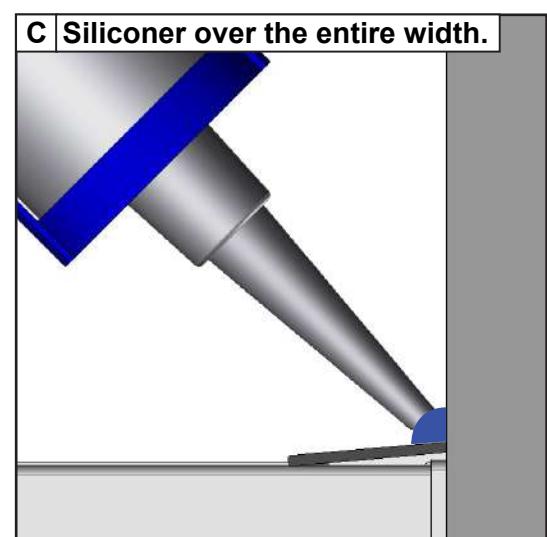
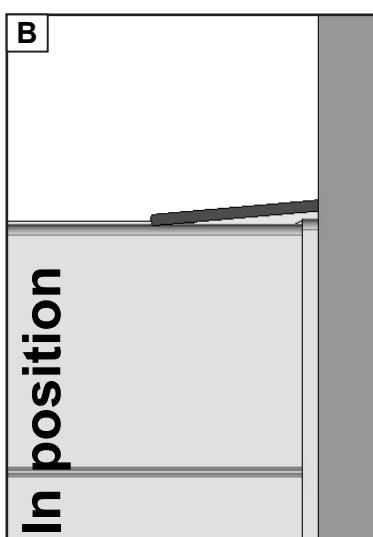
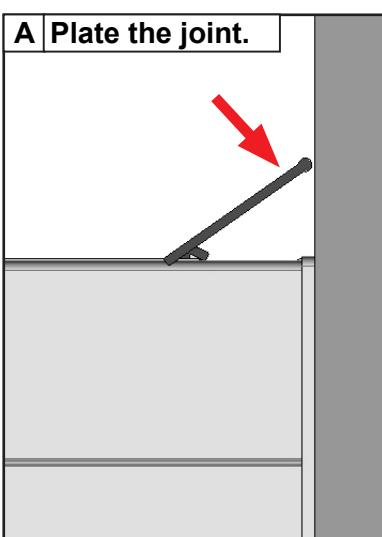
14 | Ground fixing.

Fix the plates at the level of each concrete pad previously made with two screws minimum.

Our recommendation: Concrete screw Ø10mm length 120mm minimum. 500DaN tear resistance (500Kg)

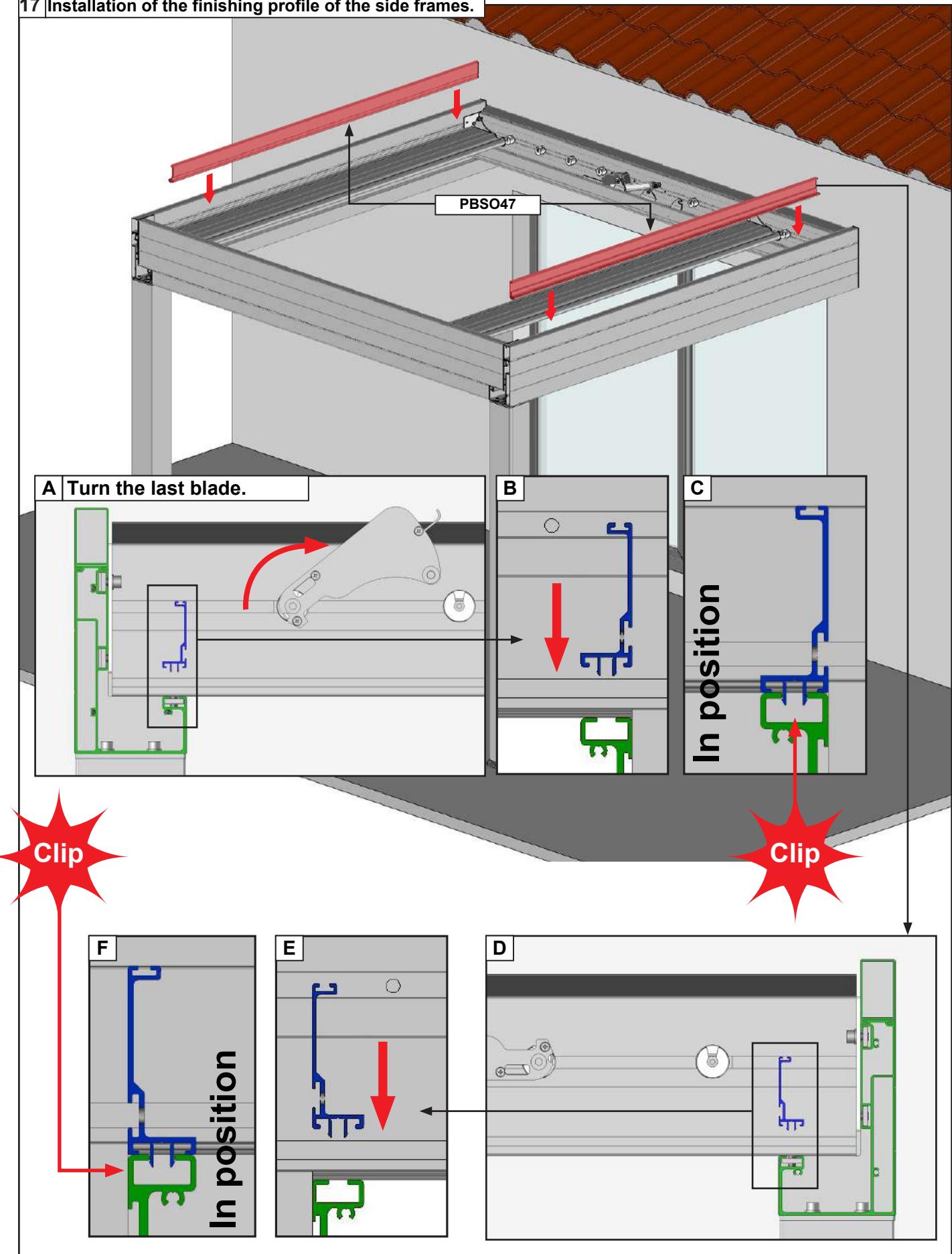
In the case of installation using a chemical sealing kit, refer to the instructions for use of the product used.

15 | Waterproof Wall profile.

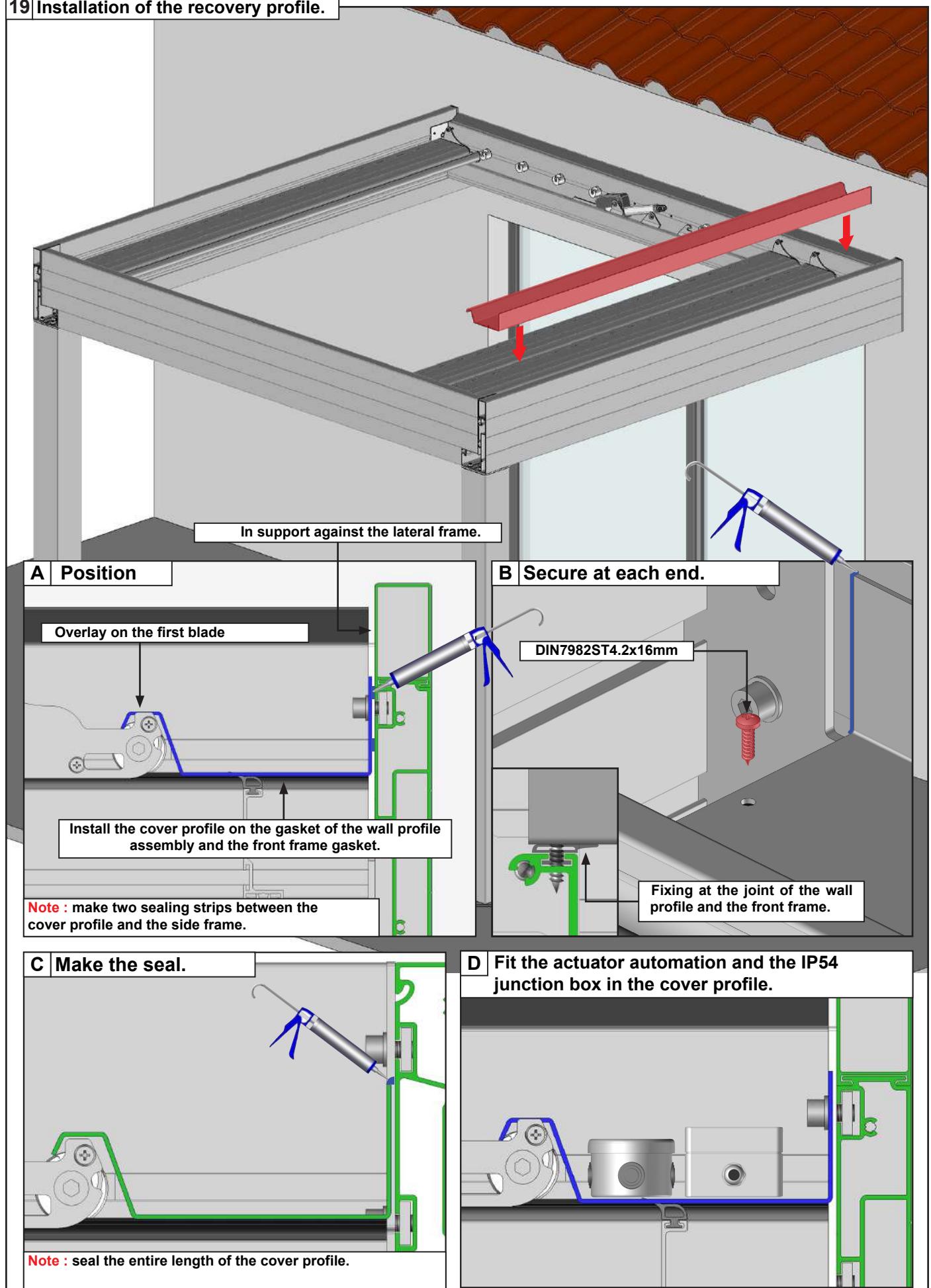


16 LED lighting option.

For the installation of the LED lighting option, refer to the LED lighting option manual and resume the installation procedure in paragraph 18 on page 15.

17 Installation of the finishing profile of the side frames.

19 Installation of the recovery profile.



Motorisation

The installation must comply with the standard NFC15-100

WARNING

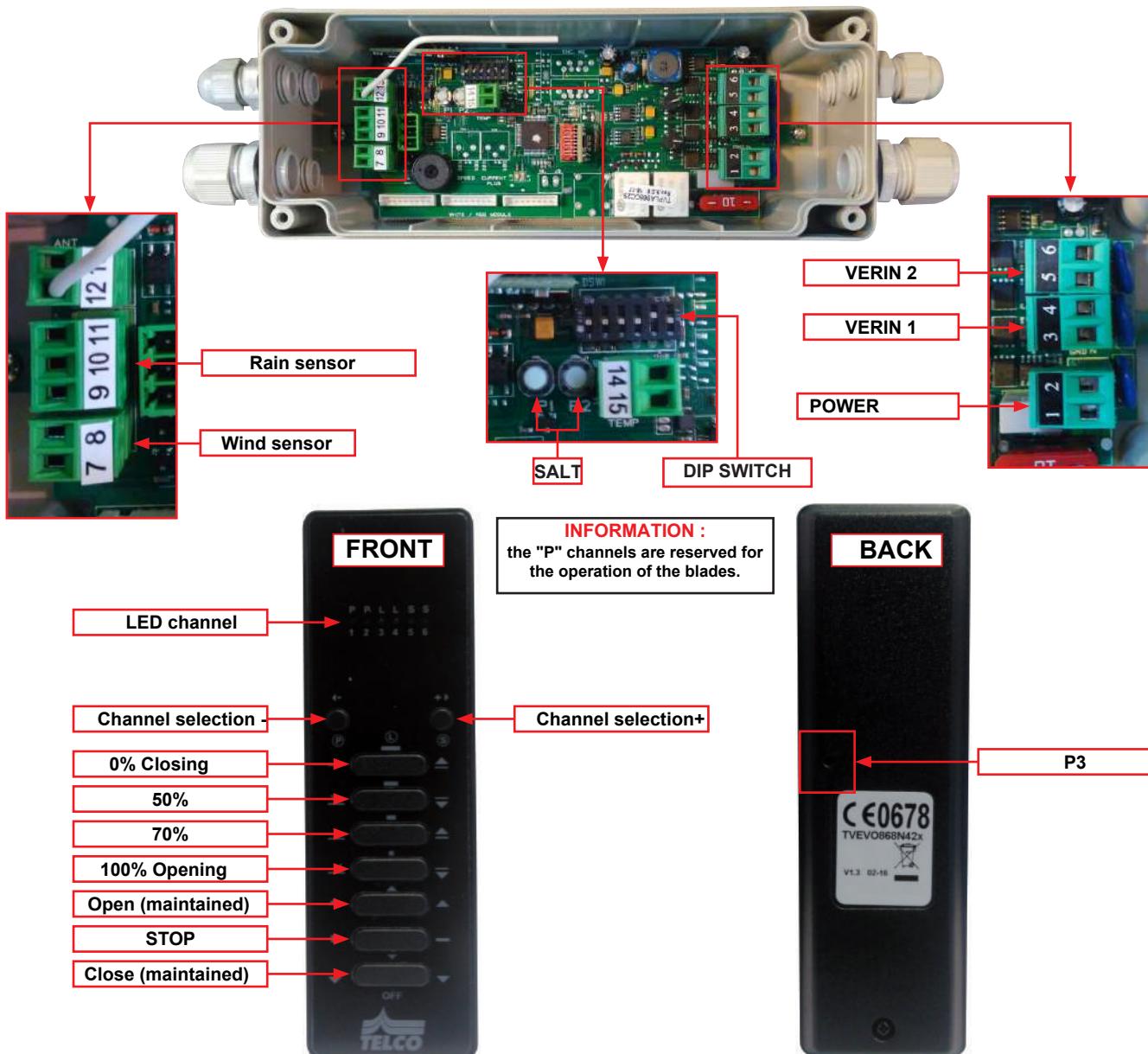
For your safety, before any installation and connection operations, make sure the power is off (line off).

- Do not spray water on the automation unit.

CAUTION

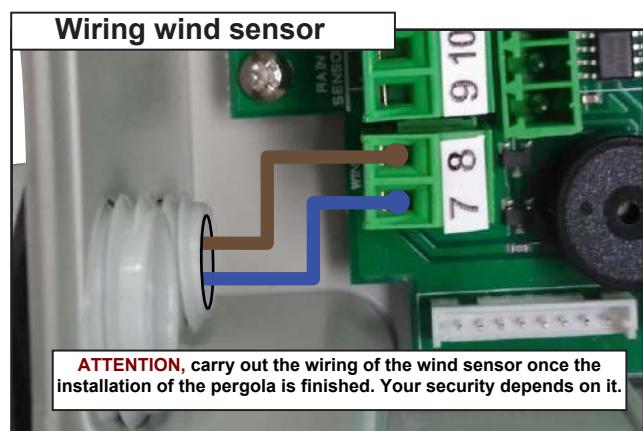
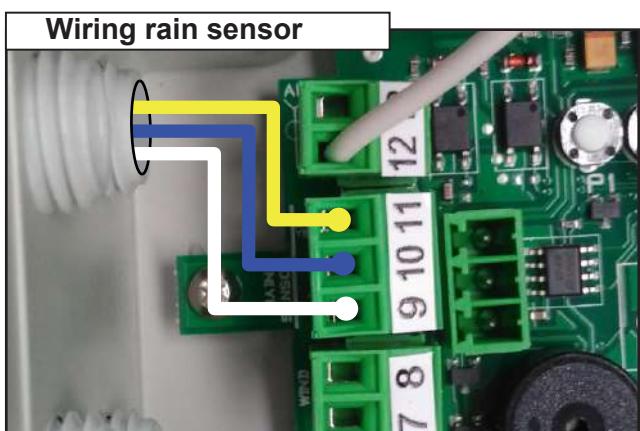
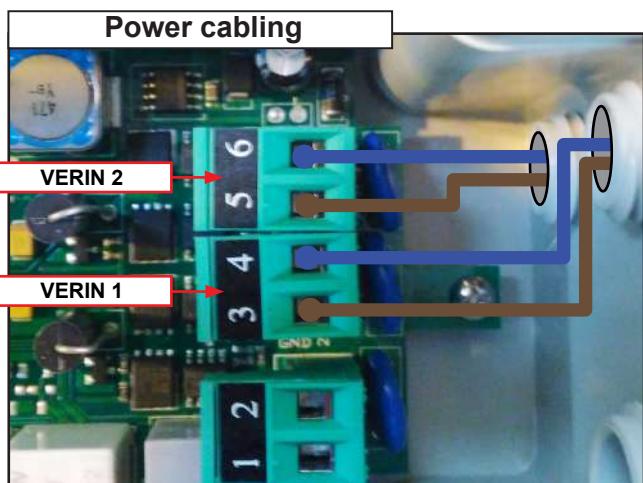
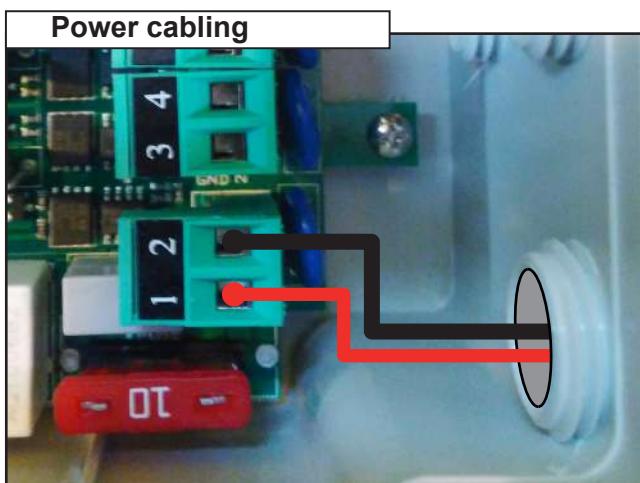
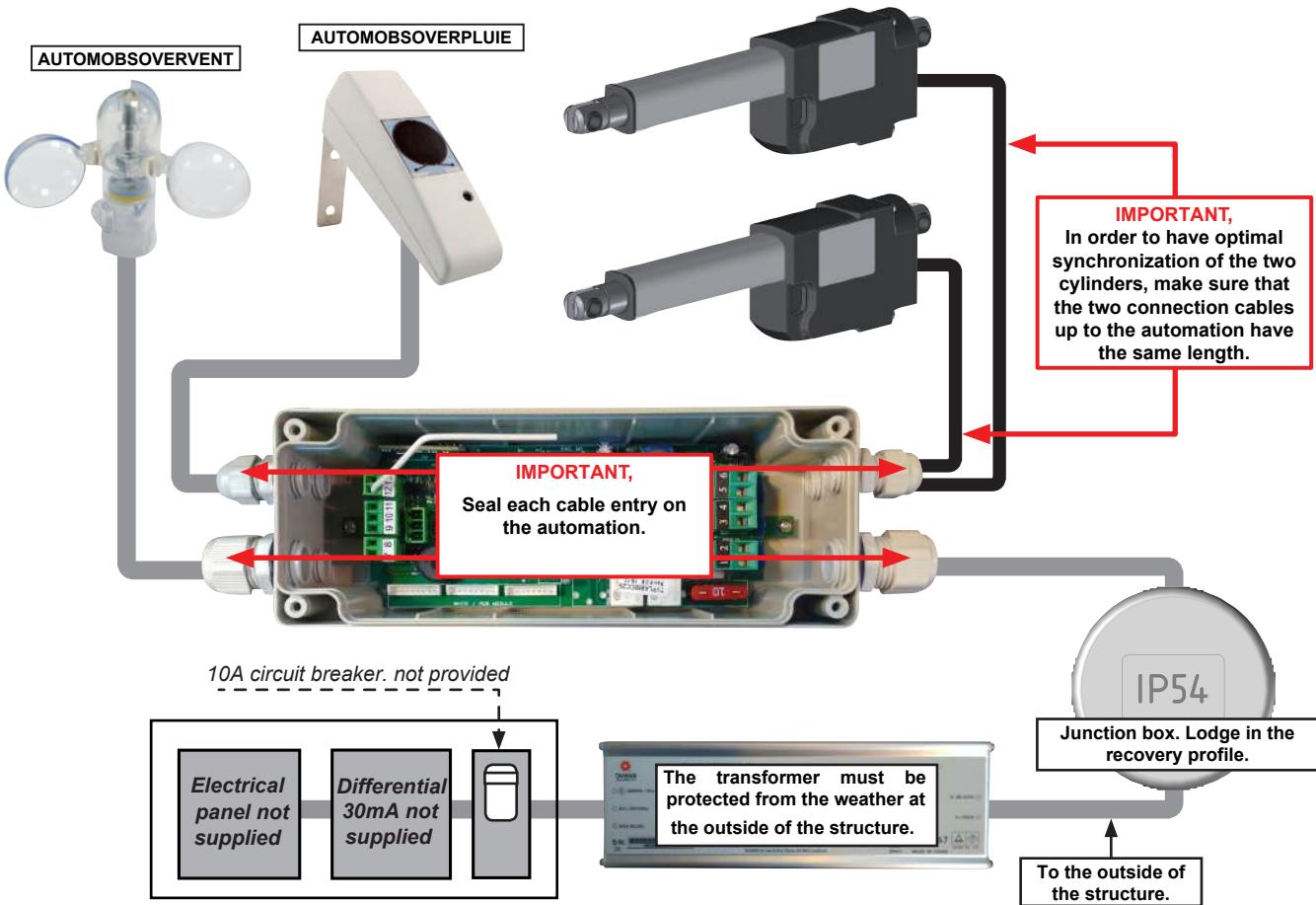
- You have acquired an automatism, the operations of connection must be done, by people competent for an installation which complies with and commits the guarantee.
- Turn off the power before connecting or operating the automation.--- Do not let children play with the controls (remote control).- Check the installation frequently to check for poor balance or signs of wear.- Do not use the pergola if repair or adjustment is necessary.

Configuration.



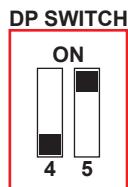
Attention, the positioning of each cylinder is positioned at the factory, do not change their position.

20 Cabling



21 Learning radio code.

A Cylinder configuration.



1 - Establish the current.

2 - Set the DIP4 to off and the DIP5 to ON. Press the P1 and P2 keys simultaneously for 5 seconds.

Note : in the event of an error, turn off the power for 30 seconds and restart the operation.

B Learning the radio code.



Maintain

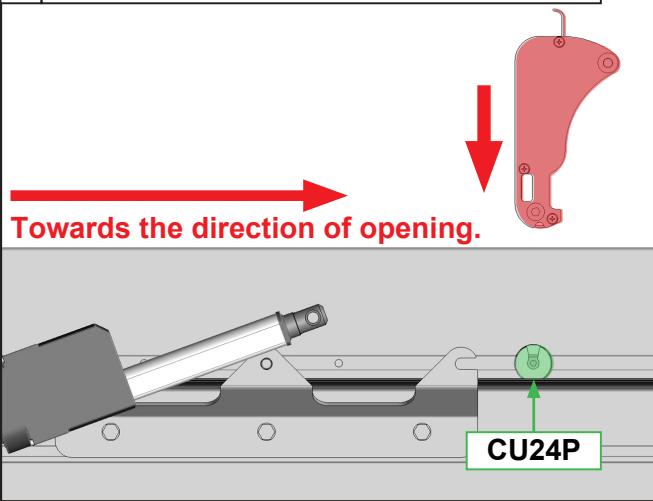


1 - Press the P1 learning key twice and hold the 2nd press, the control unit emits a continuous beep. Without releasing the SEL key, press any key on the remote control.

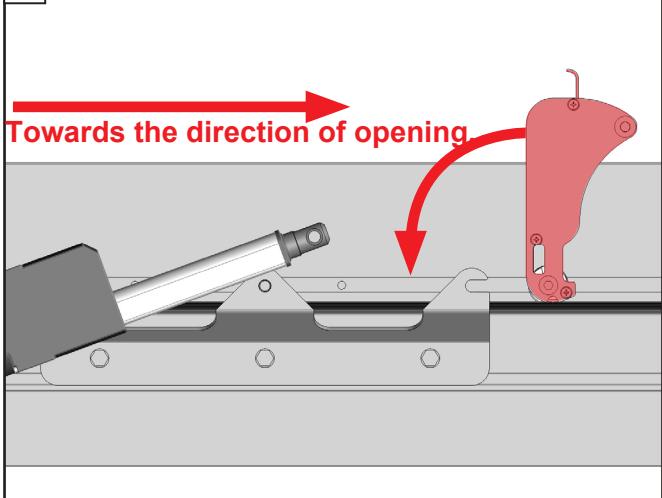
22 Laying the intermediate blade.

Note : perform this operation at the two jacks of the span. In the case of a width greater than 3m, clipper other blades on the apron.

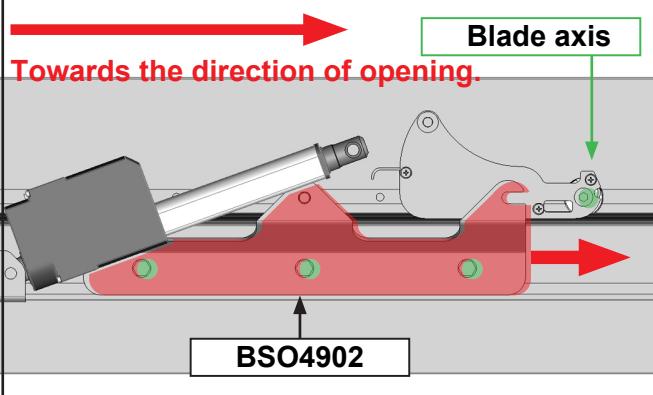
A Clipper the blade on its support CU24P.



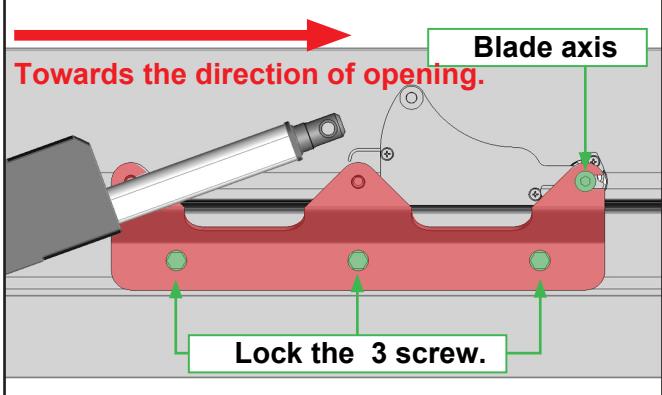
B



C Position the BSO4902 on the blade shaft.

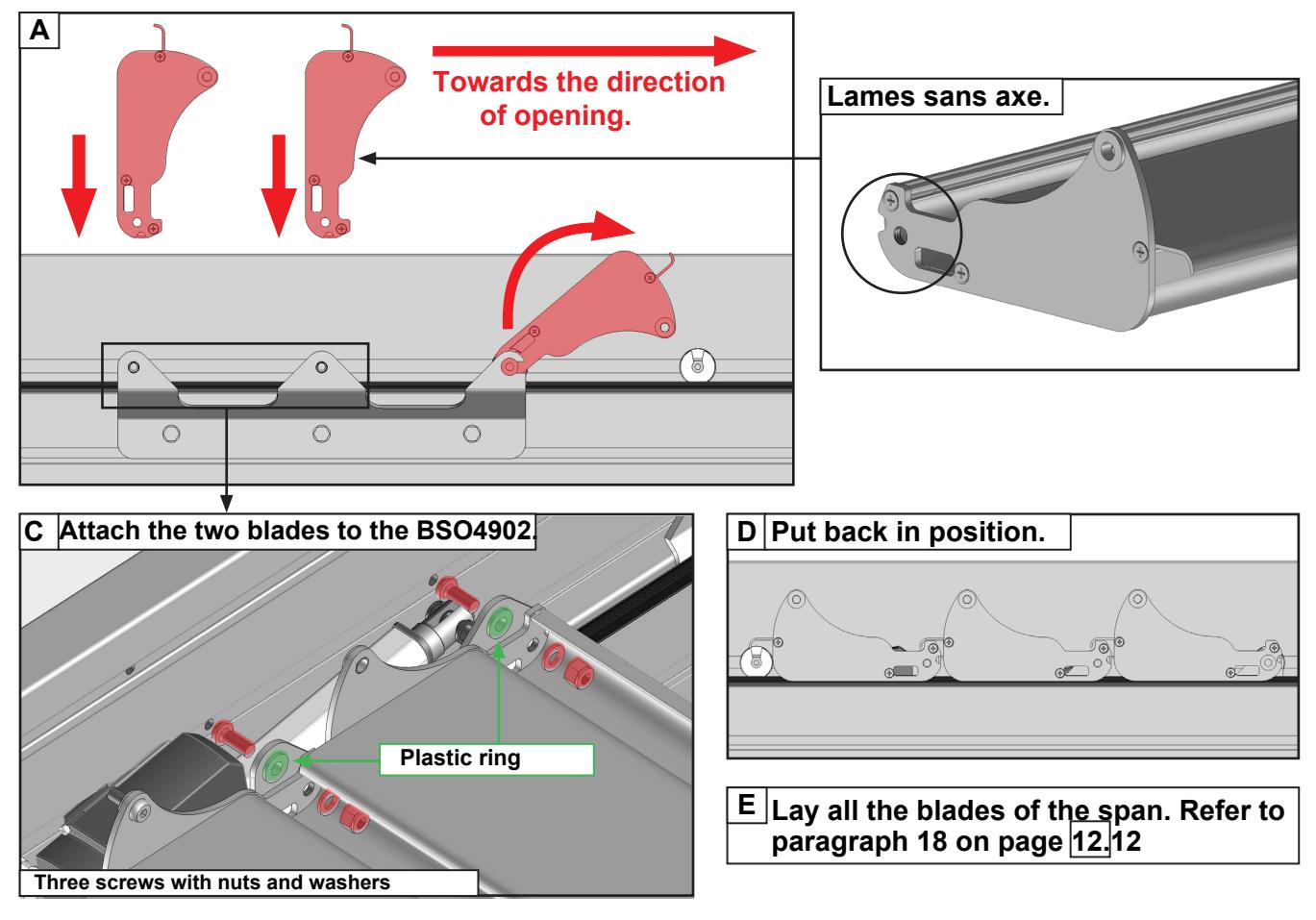


D Lock the BSO4902.



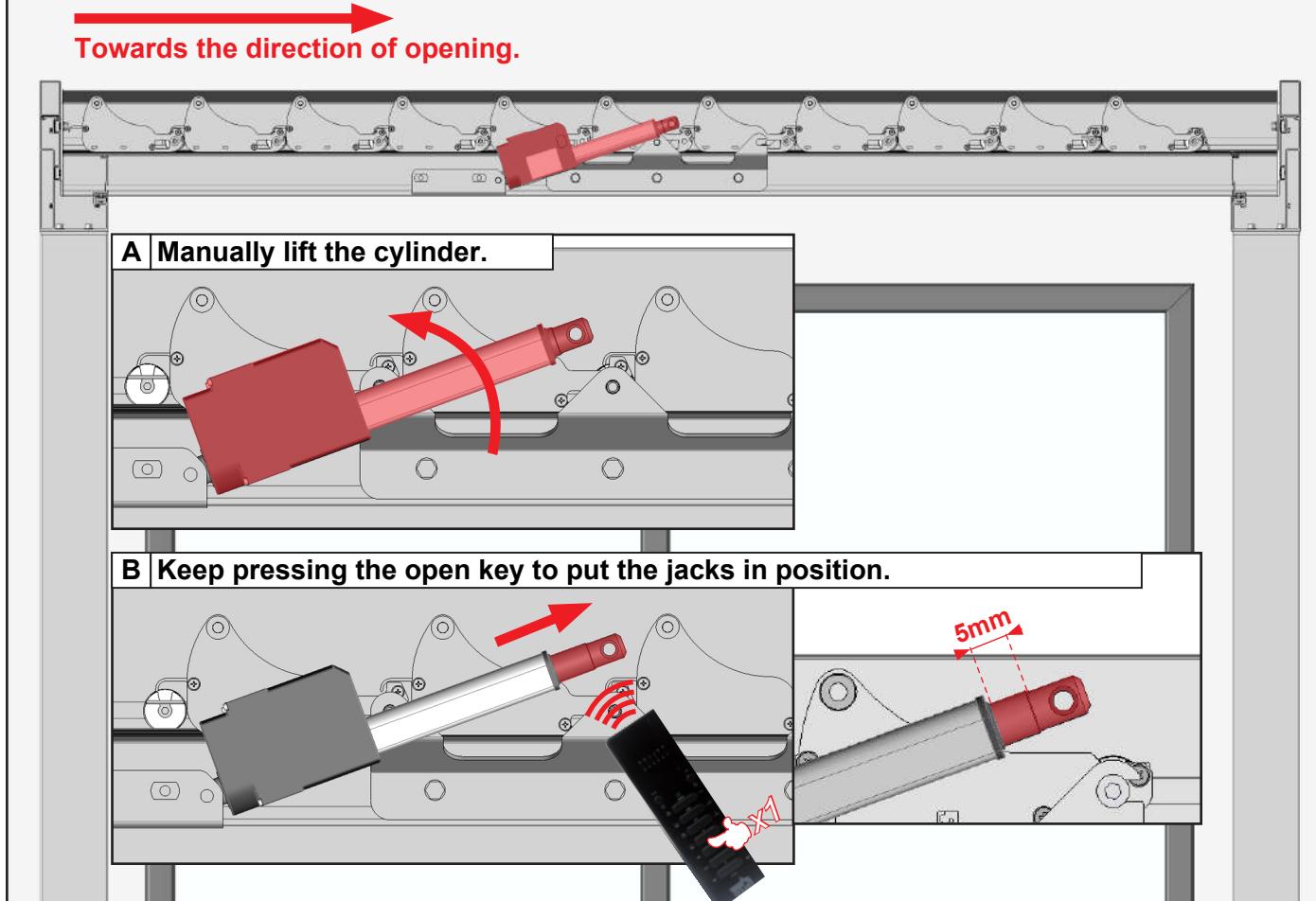
23 Laying cylinder blades.

Note : idem paragraph 22 page 18.



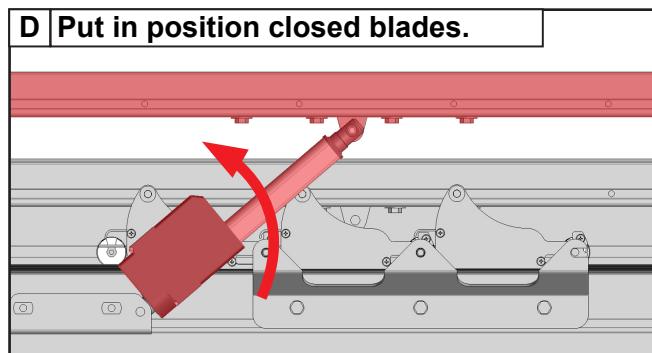
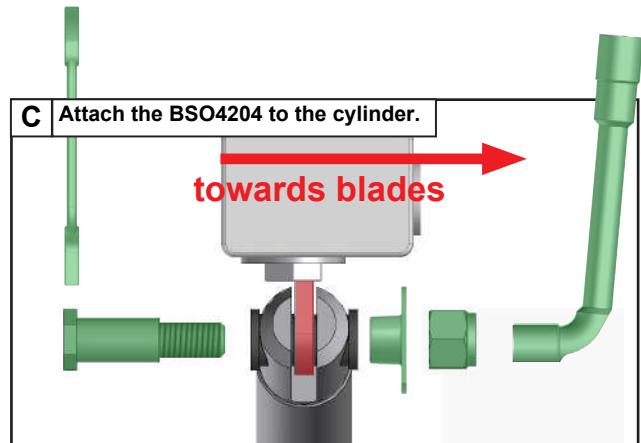
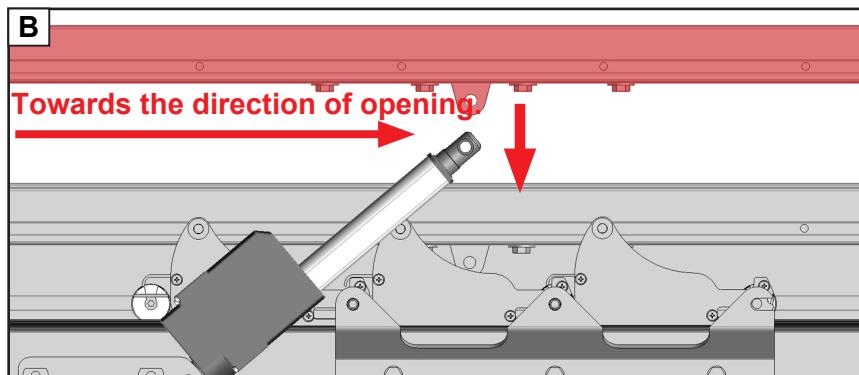
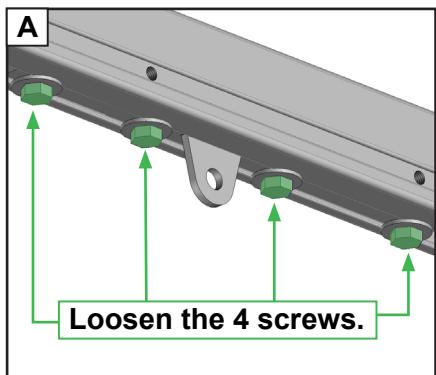
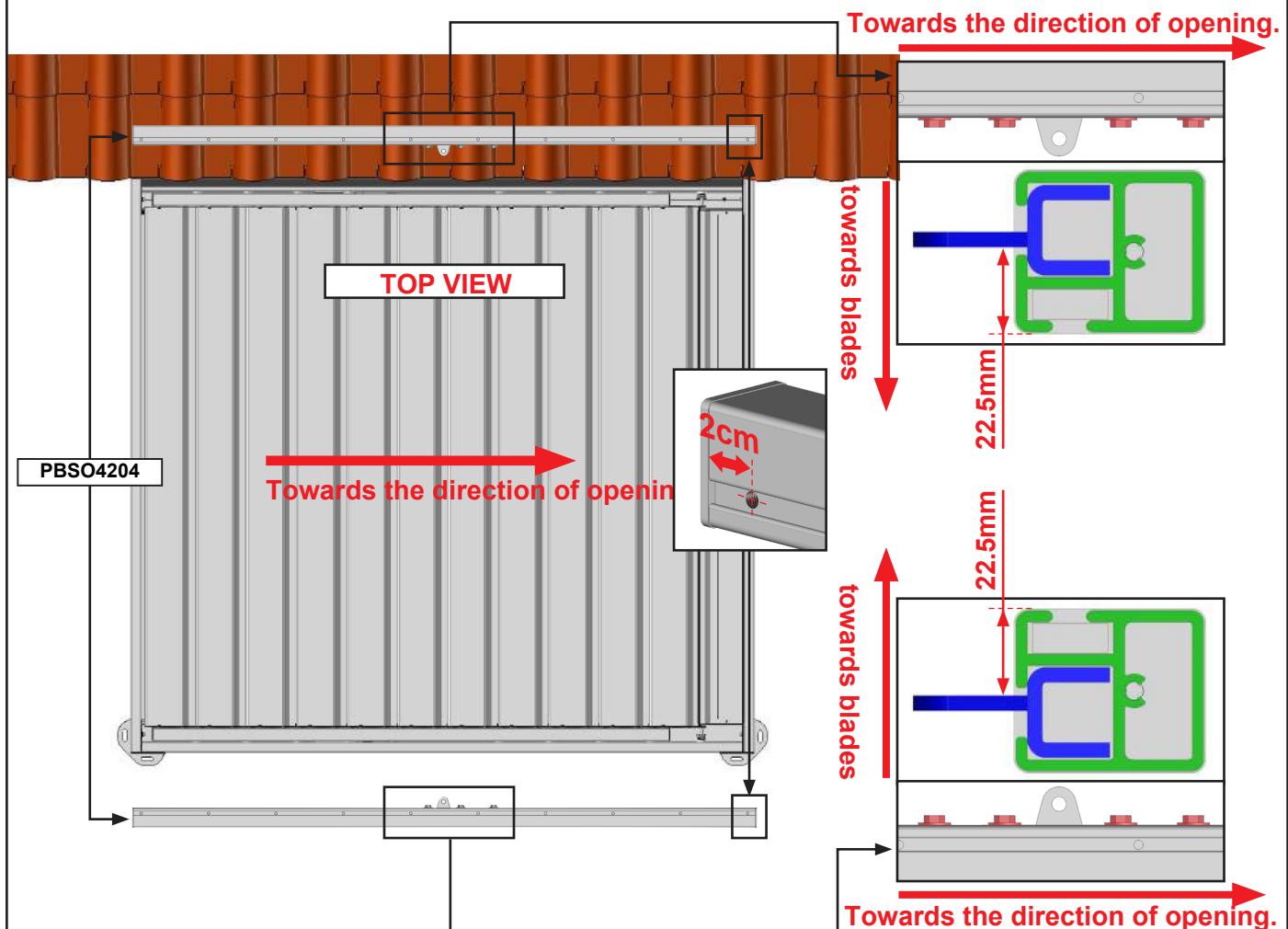
24 Preparation of the cylinder.

Note : idem paragraph 22 page 18.

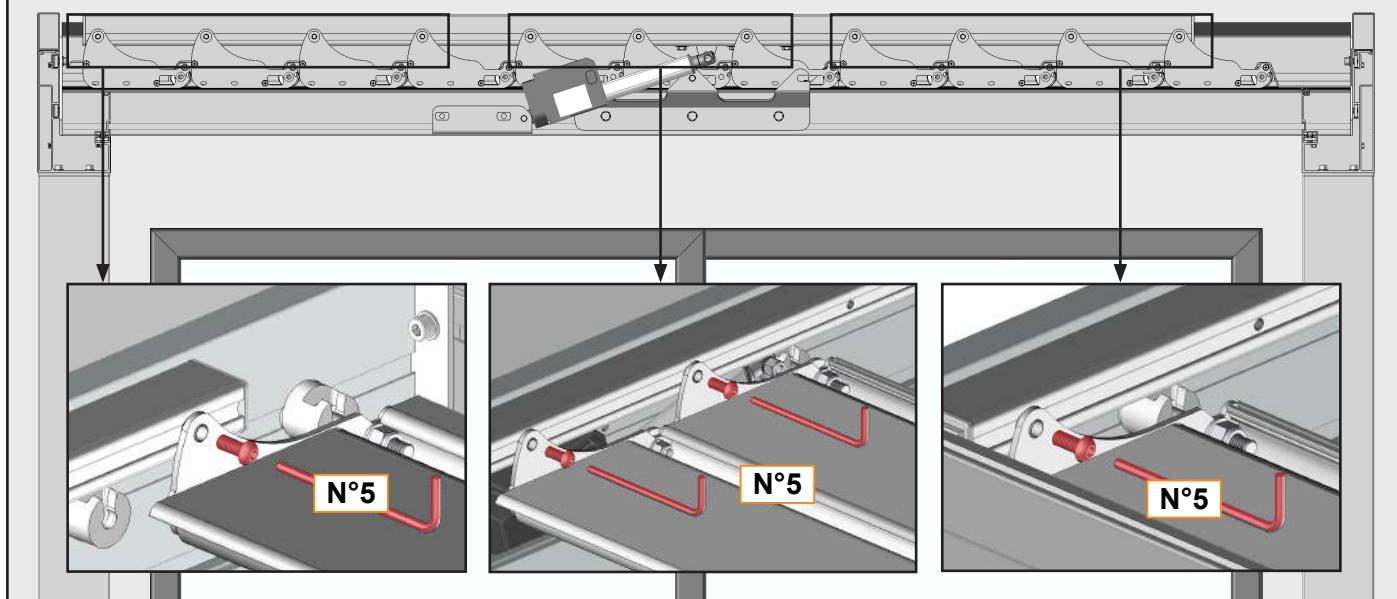


25 Installation of the operating profile at each cylinder.

Note : idem paragraph 22 page 18.

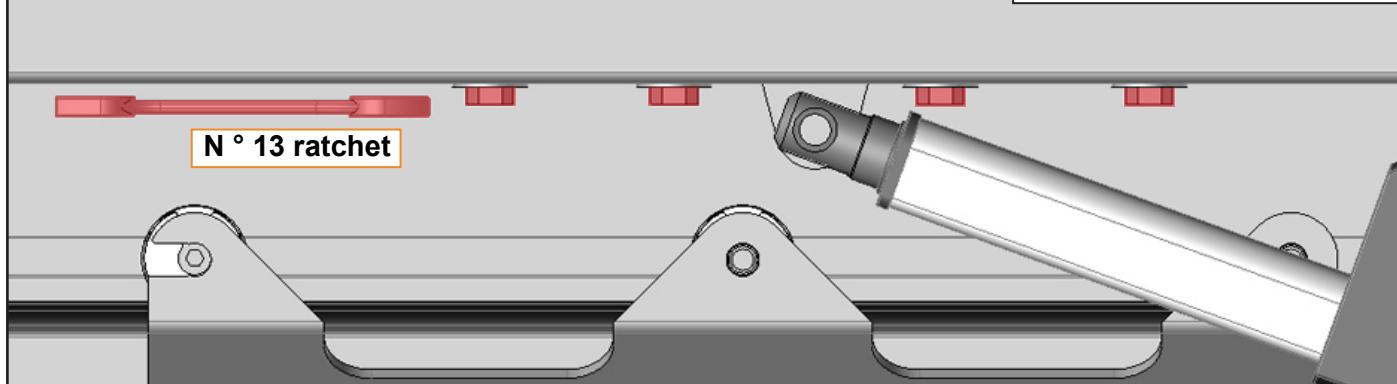


26 Attach the slides to PBSO4204.

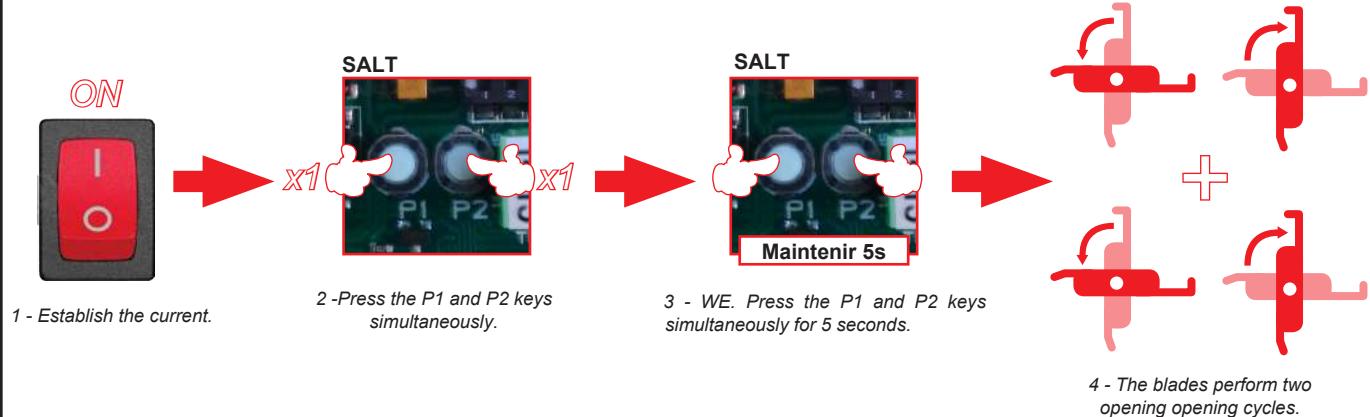


27 Lock the 4 screws of the BSO4202.

Note : idem paragraph 22 page 18.



28 Configuration of the working time.

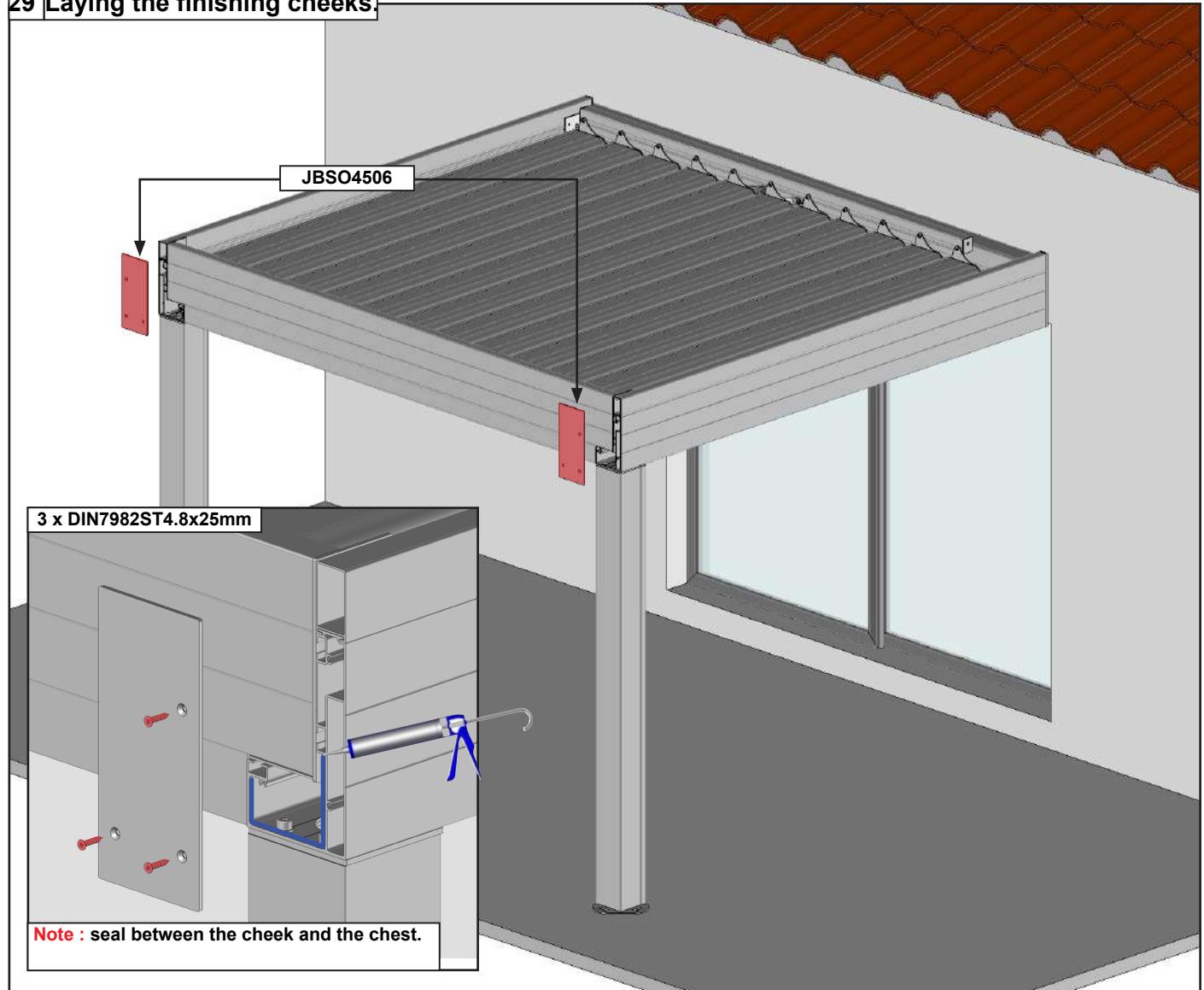


Note : do not modify the position of the DIPS set during the learning phase. A possible change will trigger an intermittent sound again and the flashing LED 3. In this case, repeat the learning operation.

IMPORTANT, after setting the working time, make sure that the blades are level (deck flat). If this is the case, loosen the screws of the BSO4202, and redo the cylinder working time configuration to zero start position. (Totally closed)

For more operations such as setting the wind sensor or turning off the rain sensor, refer to the consumer information section on pages 24 to 25.

29 | Laying the finishing cheeks.



1 - Poor evacuation of water Stagnant water in rafters blade holder:

- Check that the structure is not in an inverted slope. Disassemble all the boards of the structure and level the structure.

2 - Water flowing along the poles:

- **Improper sealing at the front end trim tabs. Check or seal between the finiton cheeks of the front trunk and the front trunk.**
Refer to paragraph 29 on page 22.

3 - Leaking water at the blades:

- **Bad closing of the blades. Repeat the preparation of the cylinder and the configuration of the working time. With the blades closed, loosen the BSO4204 (paragraph 27 on page 21), take out the 5mm cylinder (paragraph 24 page 19) tighten the BSO4204 and set up the working time configuration (paragraph 28 page 21).**

4 - The blades do not open:

- Make sure that the cylinders are energized.
- Check the electrical connections. Caution turn off the power when handling.- Repeat the programming of the working time with all the blades mounted without the second and without the third blade.
- Check the squareness of the structure.
- Check the mounting of the operating profiles. Refer to paragraph 25 on page 20.

5 - The cylinder screw comes into conflict with the frame of the structure :

- Check the mounting of the maneuvering profiles. Refer to paragraph 25 on page 20.

7 - When assembling the frame, the front trunk poles are not level (90°) :

- Perpendicularity problem. Level the rafters support blades or perform a calibration of the mounting plates on the ground.

8 - An LED ribbon stays on continuously:

- Check the cable passage at the PBSO47. Check that the LED cable is not stripped and in contact with the PBSO47. Caution turn off the power when handling.

- LED ribbon malfunction. Replace the LED ribbon.

10 - One day appears between the lap profile and the first blade :

- Normal phenomenon due to the flexion of the first blade. This phenomenon does not cause a leak.

11 - Condensation sous les lames :

- Phenomenon due to a big change of outside temperature important. This natural phenomenon does not call into question the quality of the bioclimatic pergola.

Maintenance tips for the blade pergola.

A pergola with blades is subjected to many constraints: humidity, salty air, constraint of weight, wind....

We therefore recommend :

- **To clean** the frame at the beginning and end of the season. Be careful, do not use detergent

Do not open your pergola in case of:



Product tightness
in case of rain.

Open your pergola in case of:

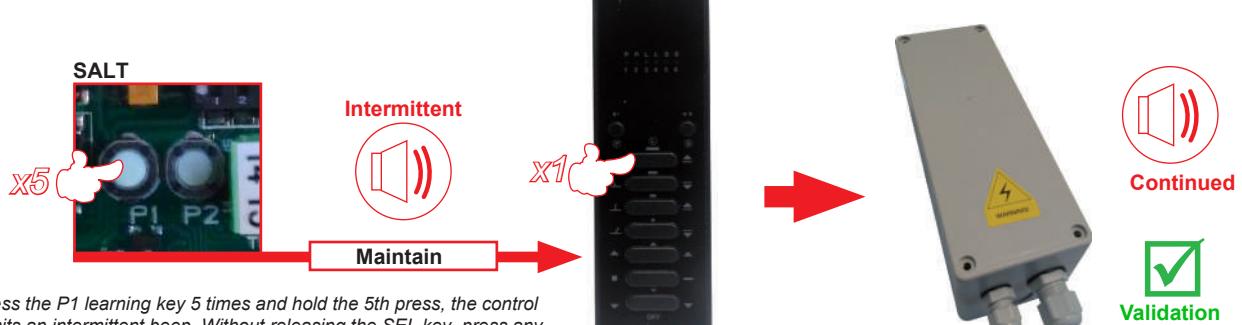


Forte chute de neige:
If it snows during your absence,
remove as much snow as
possible before opening the
blades.



Wind:
Open the blades of the
pergola for a wind greater
than 180 Miles / h.

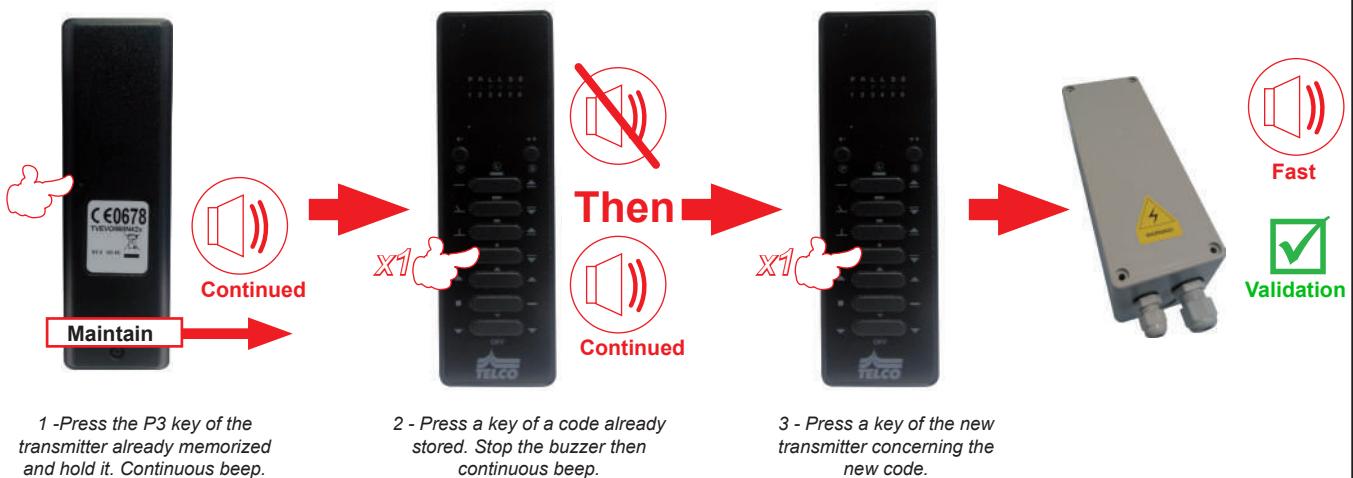
Deleting a radio code.



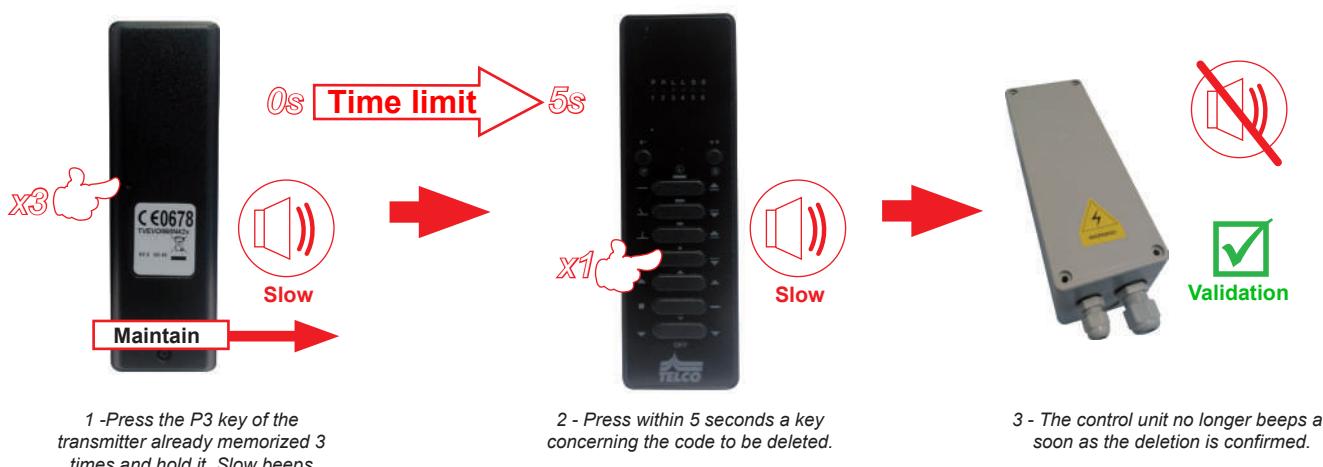
Deleting the radio codes.



Remote storage of other radio codes.

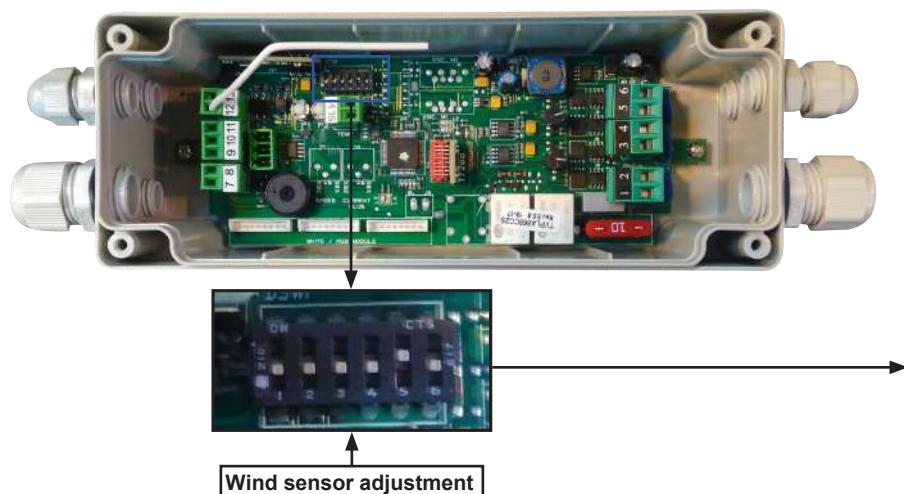


Remote storage of other radio codes.



Wind sensor.

A Sensor setting.



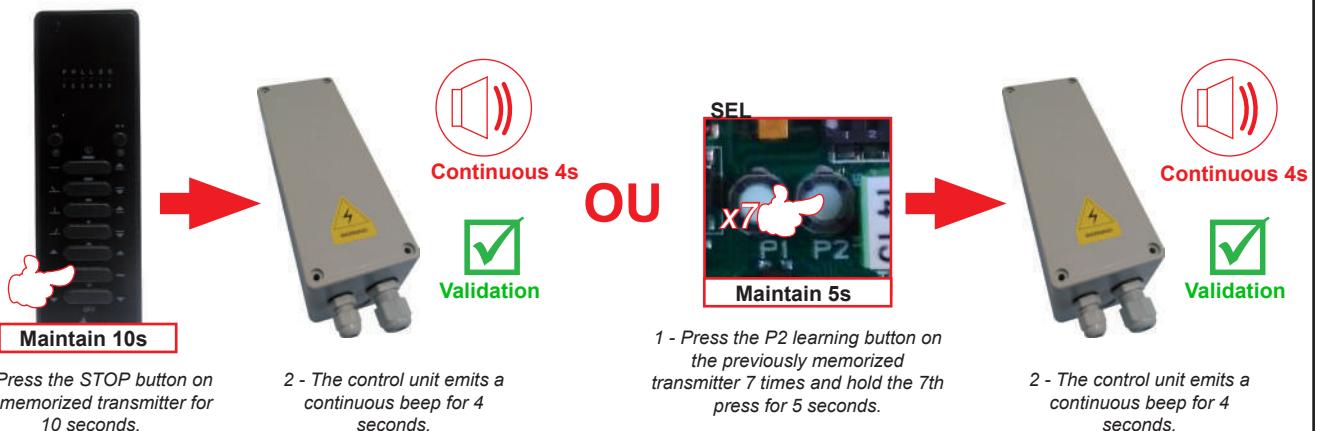
DIP1	DIP2	DIP3	Km/h
OFF	OFF	OFF	40
OFF	OFF	ON	45
OFF	ON	OFF	50
OFF	ON	ON	55
ON	OFF	OFF	60
ON	OFF	ON	65
ON	ON	OFF	70
ON	ON	ON	75

B Operation.

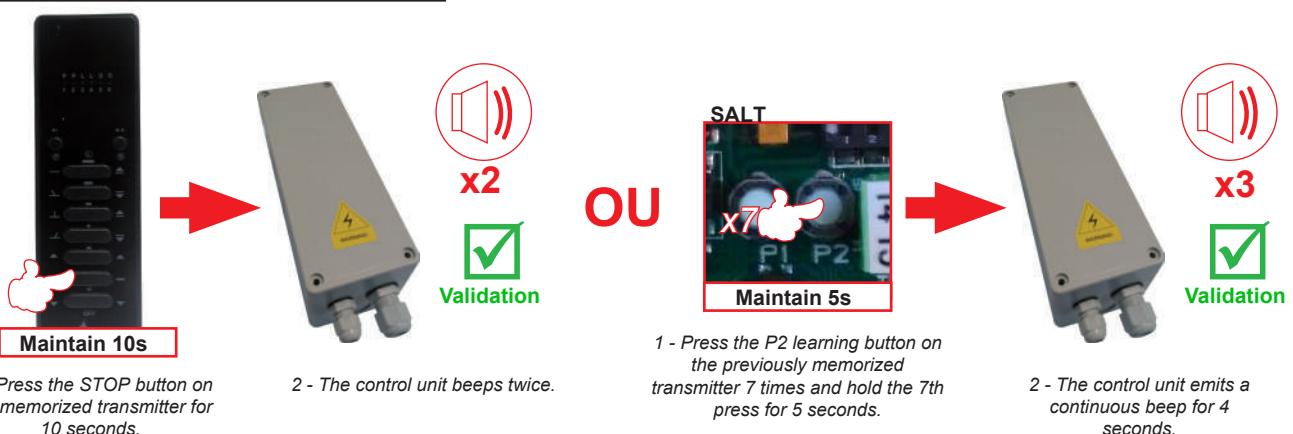
- 1 - The alarm is triggered when: The speed detected is higher than the threshold set above.
- 2 - When the alarm is triggered: the control unit intervenes by rotating the blades of the pergola to 33% of the full opening. The central does not accept any order.
- 3 - The alarm is not triggered when: the sensor detects for 60 seconds a speed lower than the set threshold.

Rain sensor.

A Activation of the rain sensor.



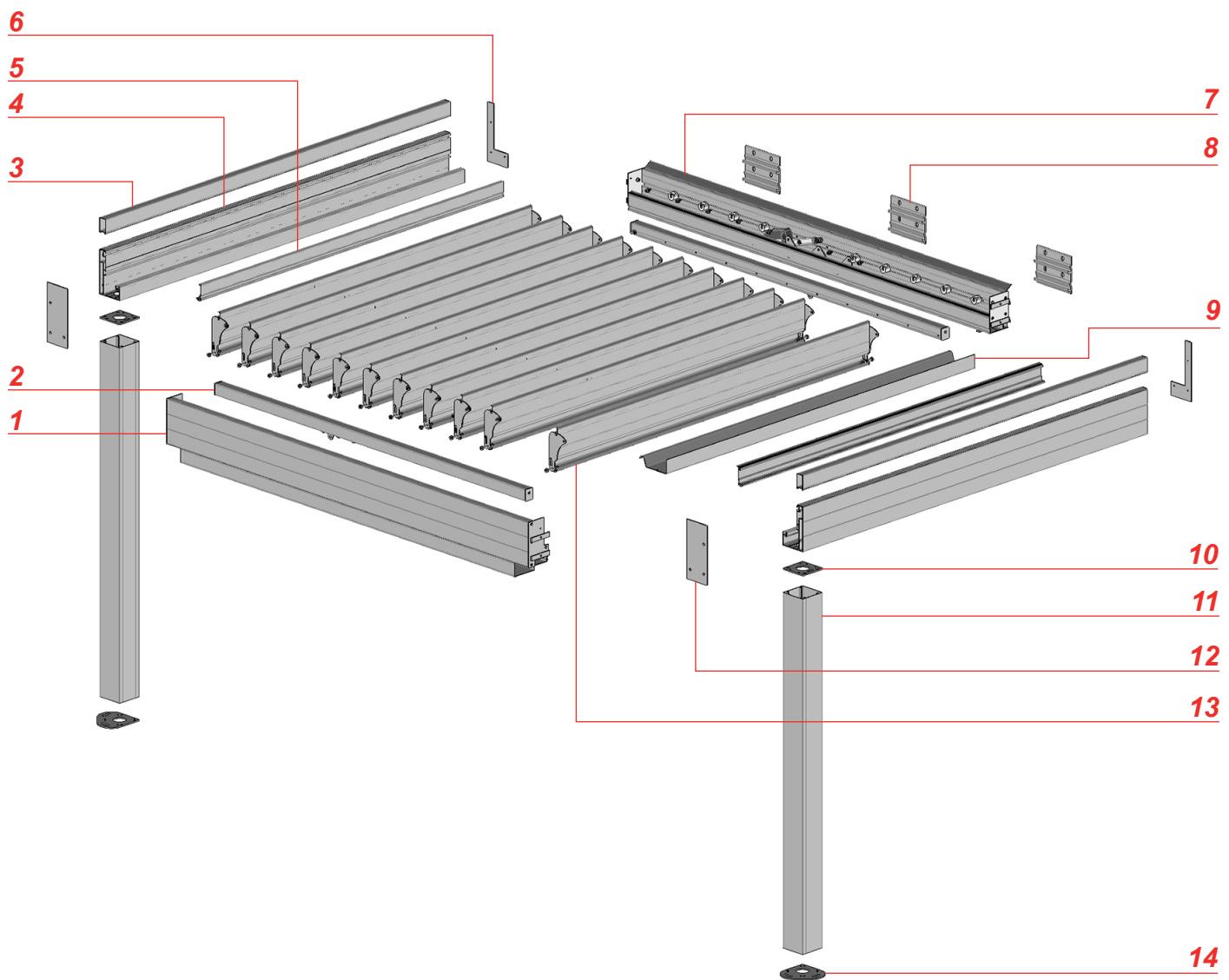
B Disabling the rain sensor.



C Operation.

- 1 - The alarm is triggered when: the sensitive surface of the sensor detects drops of water.
- 2 - When the alarm is triggered: the control unit intervenes by rotating the blades until it closes completely. The central does not accept any order.
- 3 - The alarm does not sound when: the sensor does not detect rain.
- 4 - After the rain alarm (evacuation of the residual water): if an automatic opening command is issued by means of the transmitter during the 6 hours following the end of the rain alarm, the blades position at 33% opening to allow the evacuation of rainwater. For 4 minutes the control unit only accepts the commands held, thus leaving the alarm state.

Exploded view

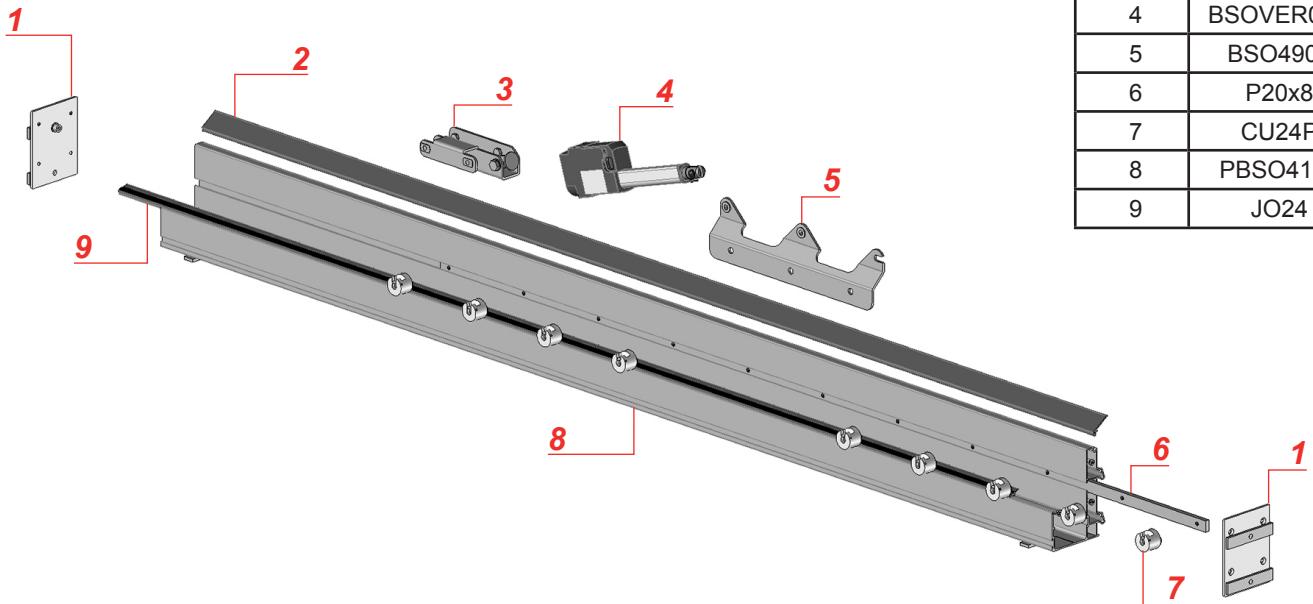


landmark	References	Designation
1	See exploded section	Set chevron blade holder
2	See exploded section	Maneuver profile set
3	PBSO4702	High side frame profile
4	PBSO4503	Lateral frame profile
5	PBSO47	Finishing profile side frame
6	JBSO4507	Wall seal cheek
7	See exploded section	Wall profile set
8	C21001	Wall bracket
9	PBSO4003	Collection profile
10	ST47	Front trunk connector plate
11	PA34	Pole profile
12	JBSO4506	Finishing play
13	See exploded section	Blade set
14	ST4502	Mounting plate 90 ° on the ground

Exploded section

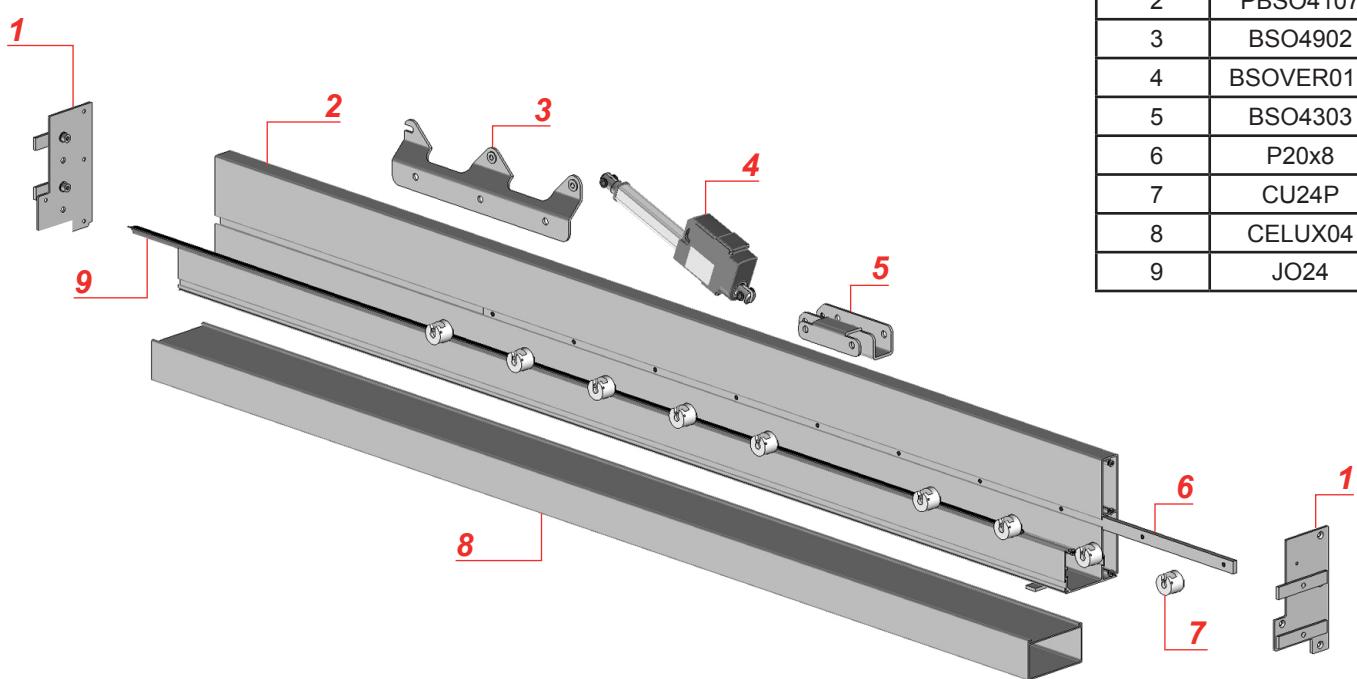
Set chevron support blades

REP	REF
1	BSO4104
2	JO41
3	BSO4303
4	BSOVER01B
5	BSO4902
6	P20x8
7	CU24P
8	PBSO4106
9	JO24



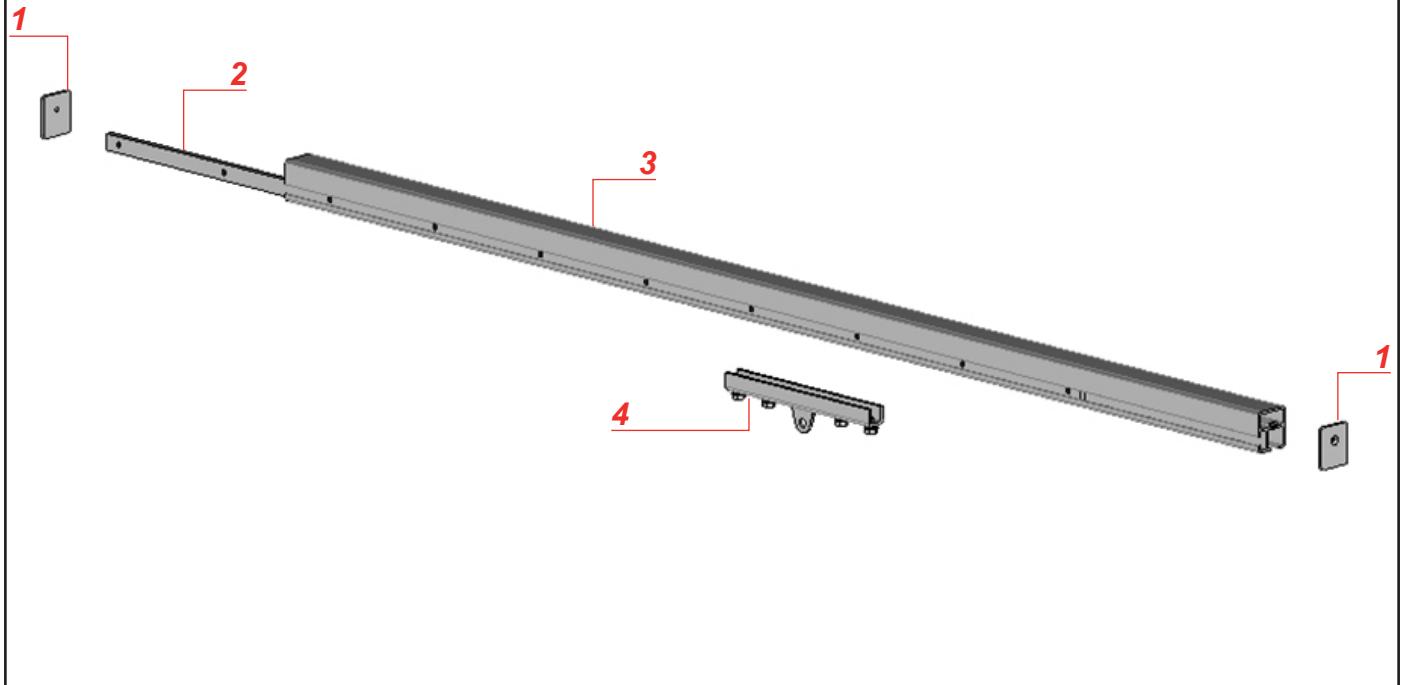
Set chevron support blades.

REP	REF
1	BSO4115
2	PBSO4107
3	BSO4902
4	BSOVER01B
5	BSO4303
6	P20x8
7	CU24P
8	CELUX04
9	JO24

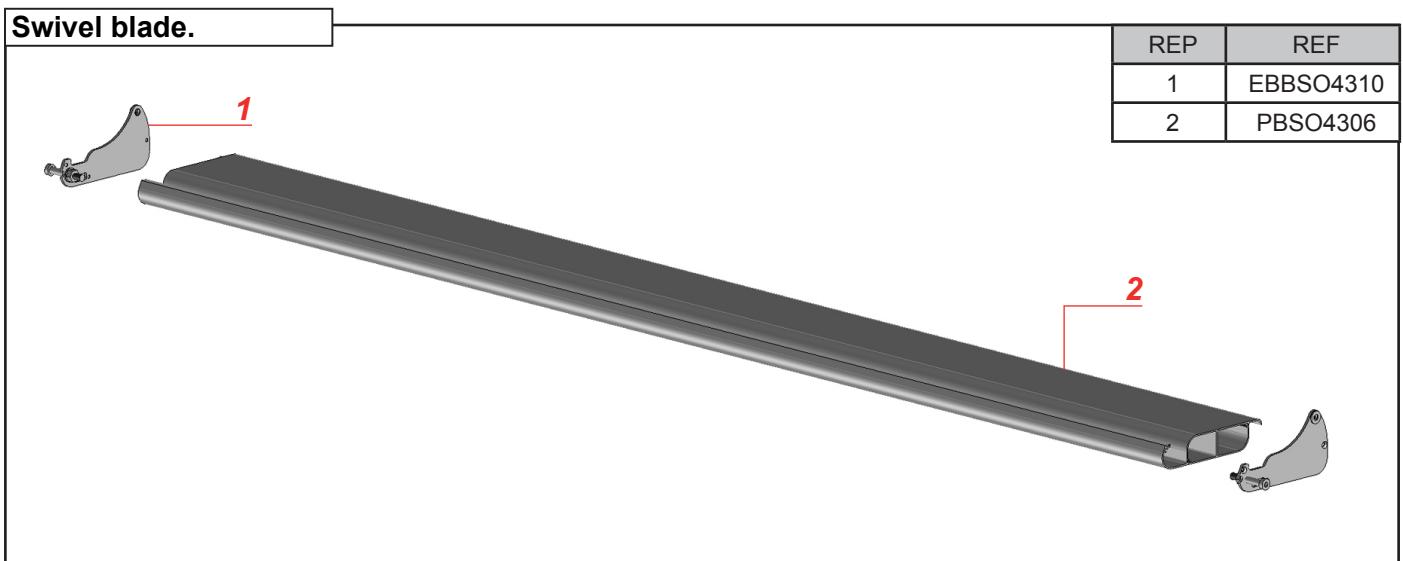


Maneuvering profile.

REP	REF
1	EBBSO4204
2	P20x8
3	PBSO4204
4	BSO4202

**Swivel blade.**

REP	REF
1	EBBSO4310
2	PBSO4306



Accessoires.



TELEVN24C

AUTOMOBSOVERB



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AUTOMOBSOVERPLUIE



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