# INSTALLATION MANUAL
## VERANDA V920 - RIVA

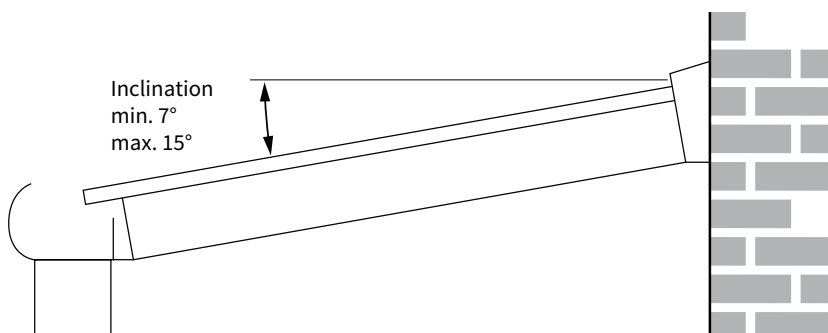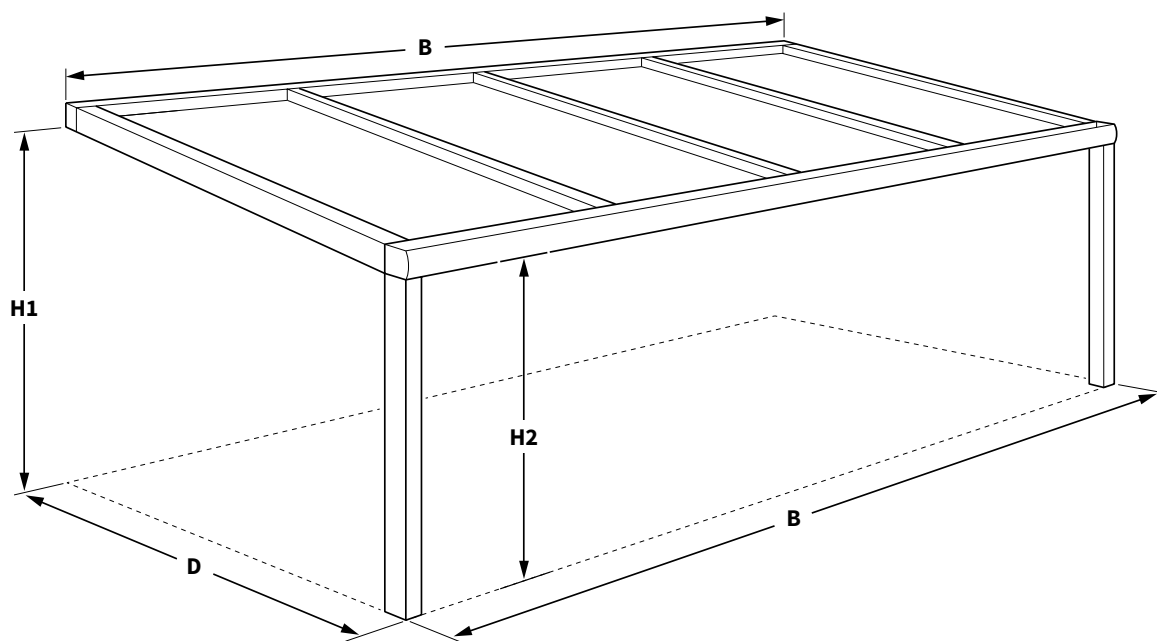**Index**

# Exploded view

## Summary of the parts

1. Wall profile
2. Tilt profile
3. Beam profile
4. End frame beam
5. Gutter profile
6. Post
7. Post click profile
8. Glass strip
9. Rubber for tilt profile
10. Glass rubber strip - below
11. Rubber strip for glass (a) or polycarbonate (b) - above
12. Rubber wall profile
13. Casting beam/gutter
14. T connector
15. Side plates (wall and gutter profile)
16. Footplate
17. Coupling Post/gutter
18. Coupling Aluminium Post/gutter
19. Leave catcher
20. Waste duct

21. Waste duct nut
22. Drain pipe ø 50 mm
23. Drain pipe bracket
24. Condensate profile (poly)
25. Glass
26. Polycarbonate
27. Concrete foundation block
Compri tape

A  Crosshead screw DIN 7970 4.8 x 27
B  Crosshead screw DIN 7981 4.5 x 2
C  Locking screw DIN 916 M5x20
D  Bolt DIN 912 M12 x 30
E  Washer DIN 125 M12
F  Blind rivet nut M122



Inclination
min. 7°
max. 15°

# Required tools

- Drilling machine
- Metal drill
- Masonry drill
- Crosshead screwdriver
- Allen key set
- Tape measure

- Level
- Pencil
- Cutting plier
- Flathead screwdriver
- Silicone kit
- Rubber hammer

# Important before installation

### General warning

Installing the Verano® product yourself is at your own risk. Only use this instruction as a tool and for the installation of this specific Verano® product. If you cannot install the product yourself, you can always opt for professional installation. The installation team of Verano® is pleased to help you.

### Be careful for damages

Don't use a knife or any other sharp object when opening the packing. This may cause damage to the content of the package. Put the content of the package on a soft surface. Be careful when drilling, falling drill cuttings can cause damages.

Check if the façade is flat.
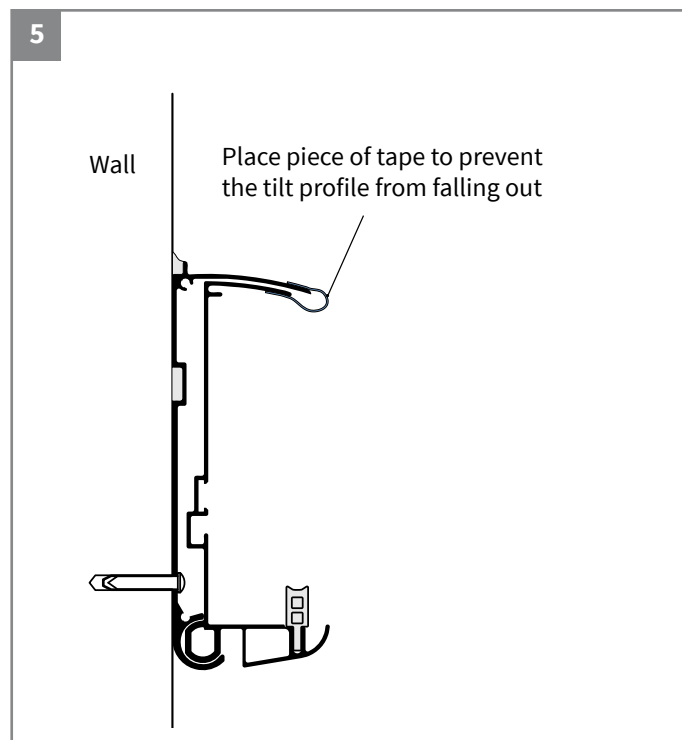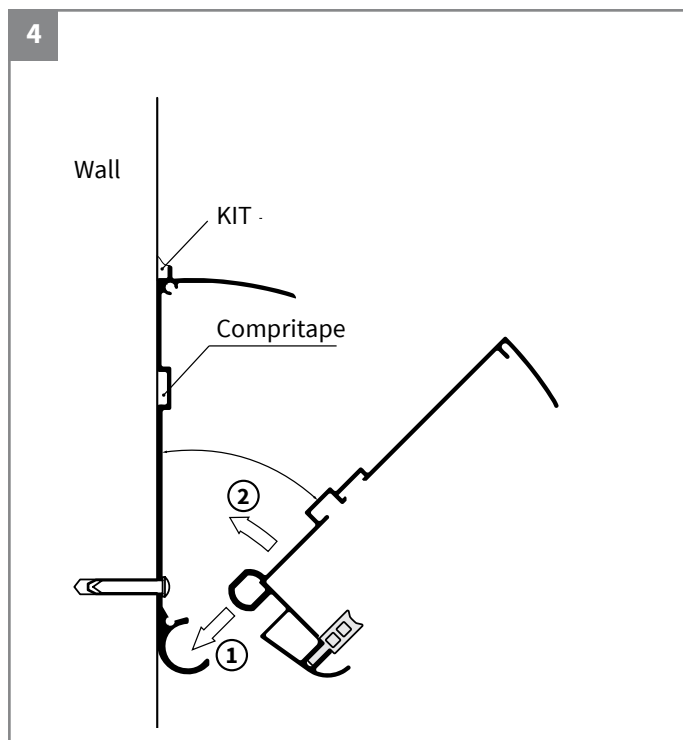
# 1.    Mounting the wall profile
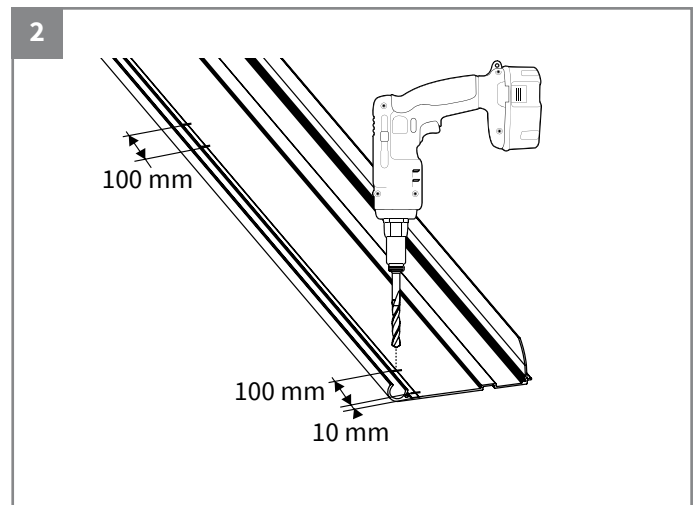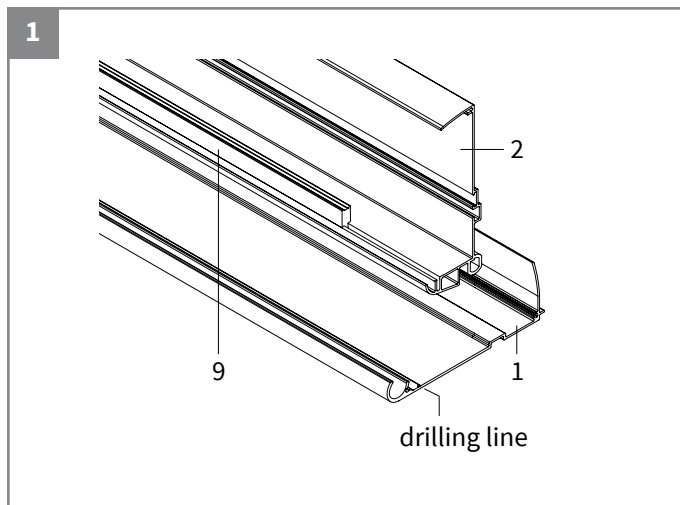




Drill 2 holes (Ø 5 mm) into the wall profile (1) for each corresponding rafter.
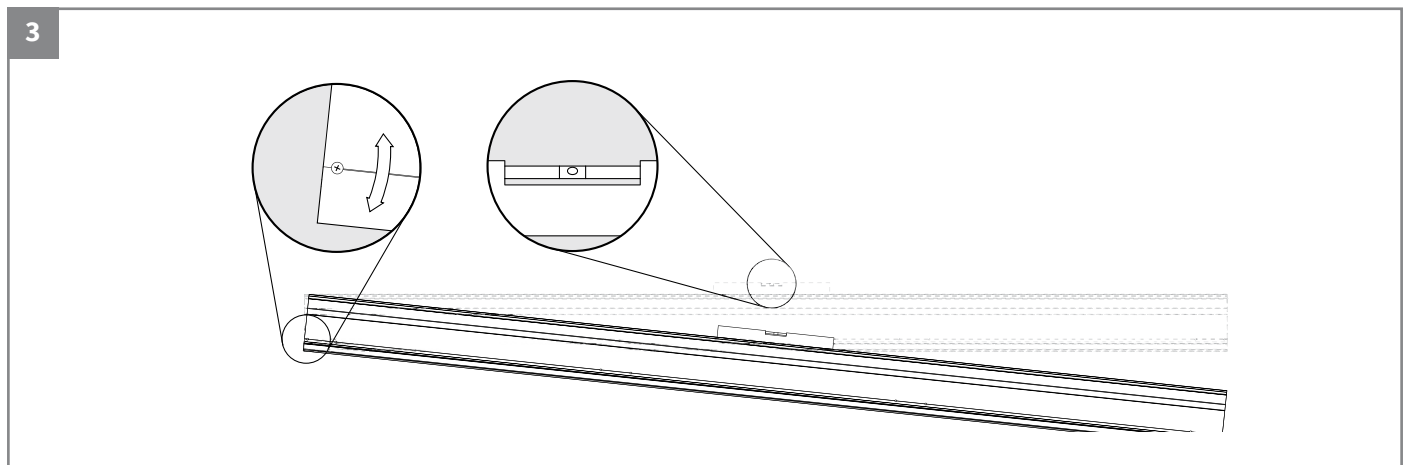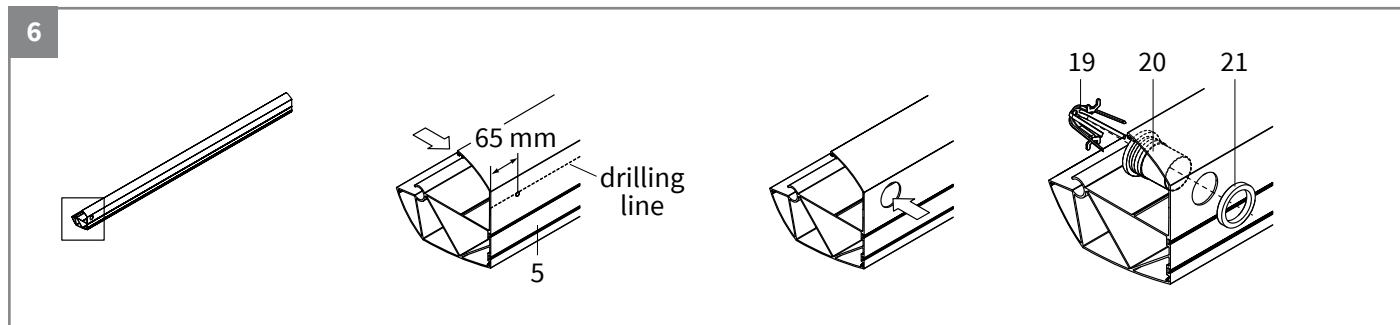


- Mount the wall profile (1) using the left end-screw only.
- Ensure that the wall profile is levelled out and mark the position of the remaining holes.
- Dismantle the wall profile and drill the holes where marked.
- Push the compritape into the groove along the complete width of the wall profile (see figure 4).
- Use minimum screw plug size 8 and screw size m8 to screw the profile into the wall.
- Apply sealant (kit) right along the top (see figure 4).
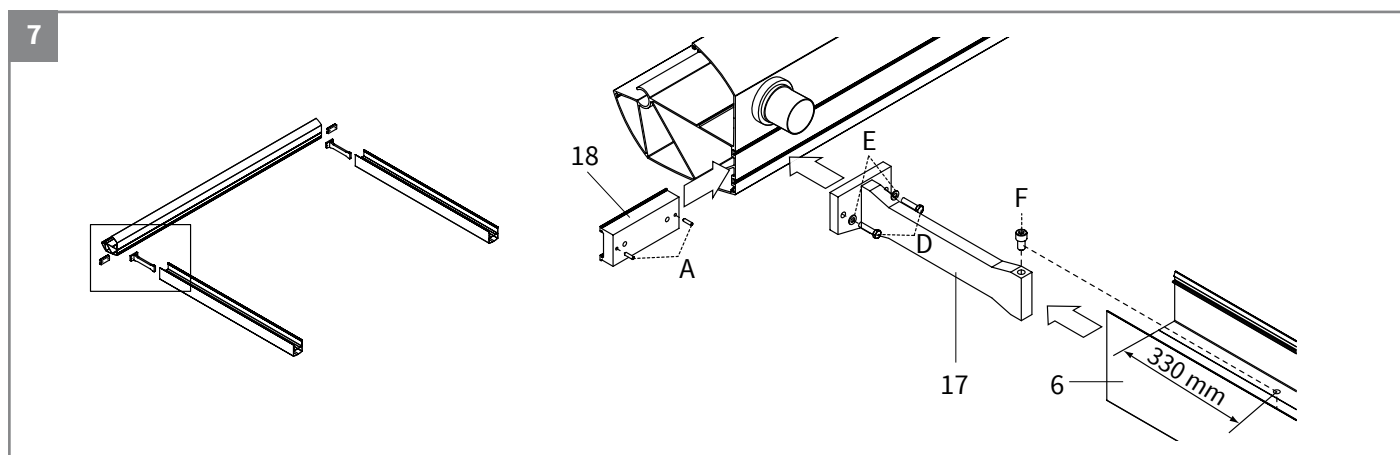
## 2.    Fixing the tilt profile

**4**

Wall

KIT

Compritape

②

①

**5**

Wall

Place piece of tape to prevent
the tilt profile from falling out
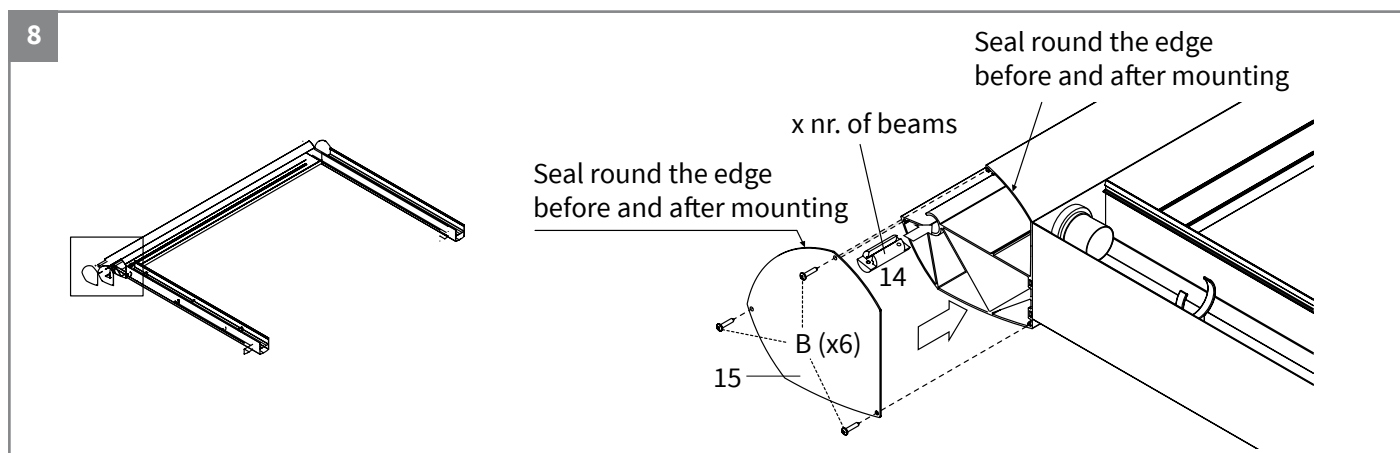
## 3. Gutter and Post

**6**



**Drainage**

- First measure the position of the center hole, then drill on the drilling line on the inside of the gutter.
- Drill a 48 mm hole on the outside of the gutter.
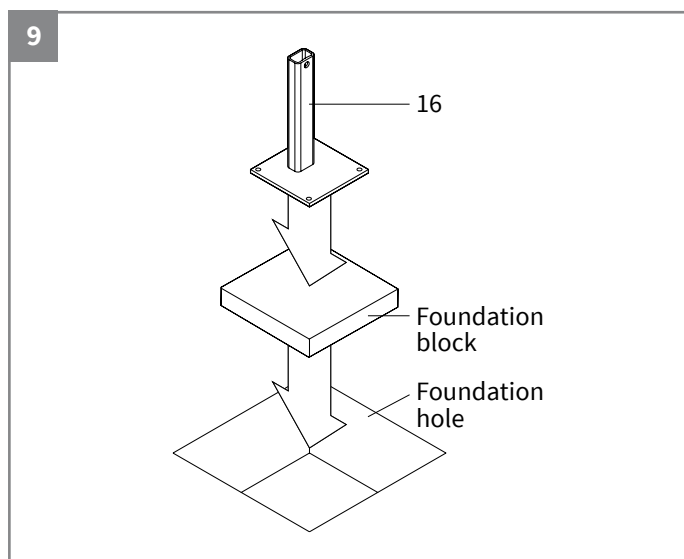- Fix in the waste duct and nut (20 + 21) and the leaf catcher (19).

**7**



Coupling Post/gutter (2x)

**8**



Side plates gutter profile (15) (2x) and T connectors (14) (x nr. of beams).
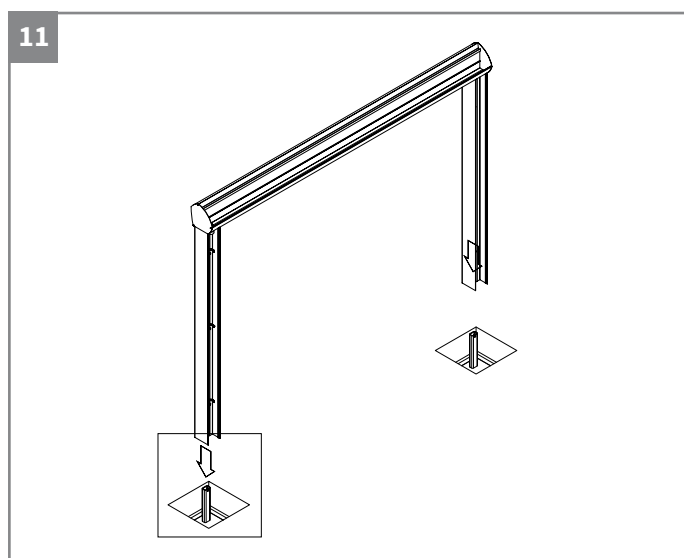
## 4. Footplate



**9**

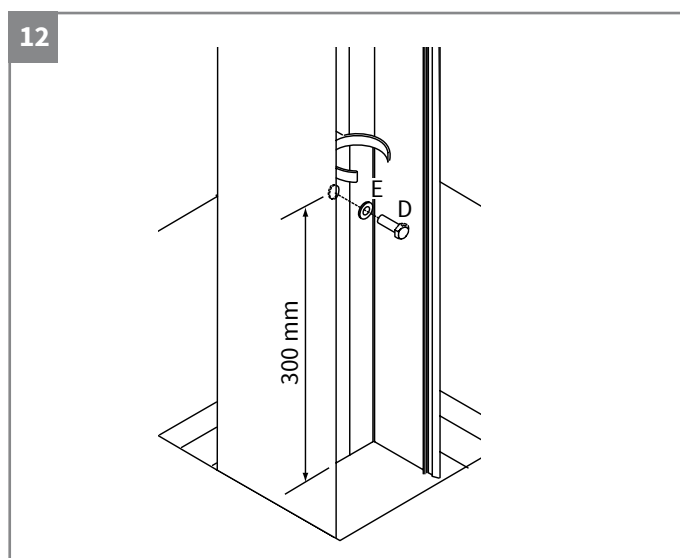16

Foundation block

Foundation hole

Position the footplate and foundation block (2x).



**10**
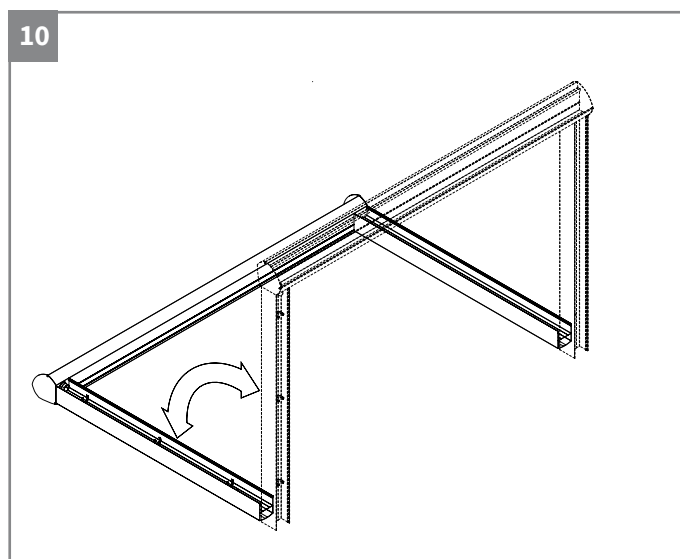
Position the gutter unit.



**11**

Lower the post onto the footplate.



**12**

E

D

300 mm

Anchor the footplate.

## 5. Laying the two end profiles (outer beams)
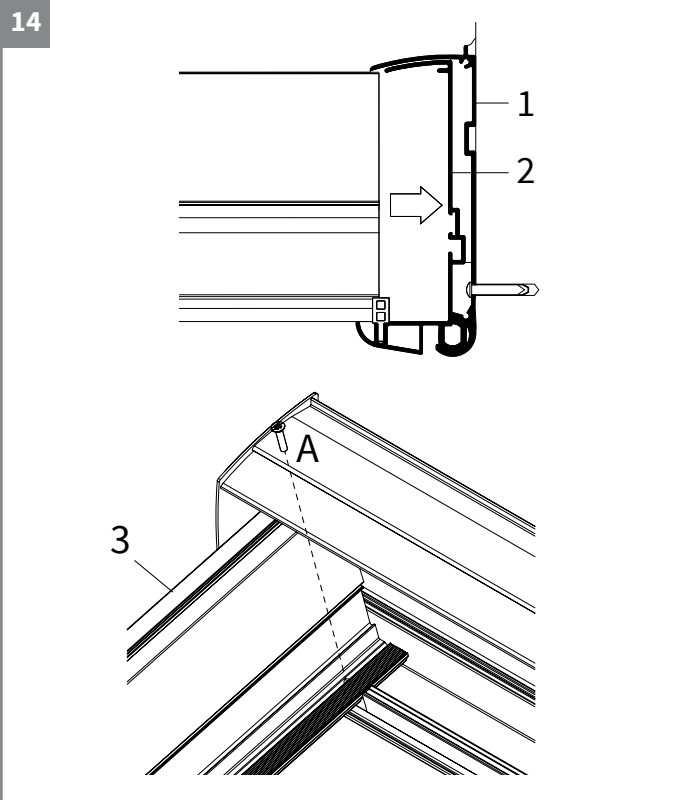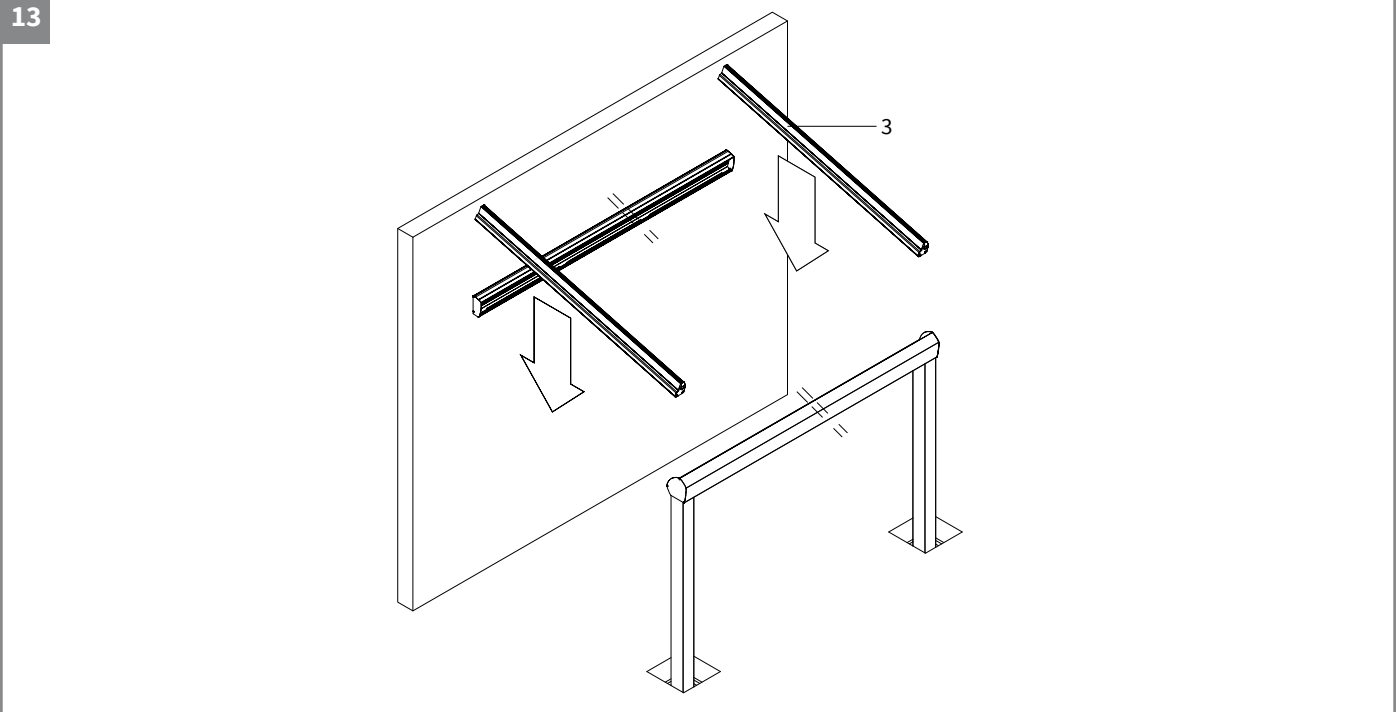






**End profile - wall (left and right)**
- Slide the end profile (3) into the tilt profile (2).
- Screw them together with 1 screw.
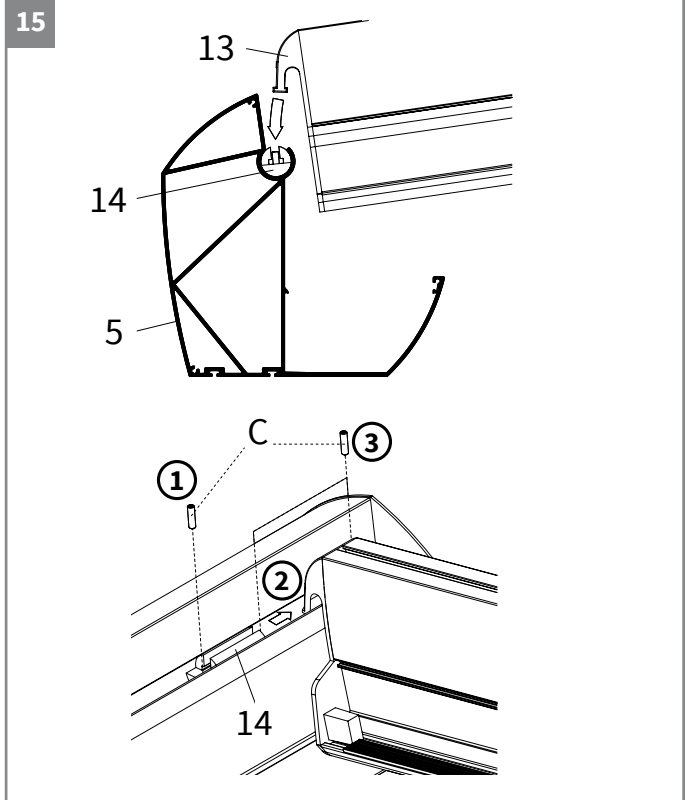
**End profile - gutter (left and right)**
- Slide the end profile (3) into the gutter (5).
- Slide the T connector (14) under the end profile.
- Screw it in with the locking screw.
  DO NOT TIGHTEN THE SCREW!!

## 6. Positioning and lining up



16



17

Allow the gutter to slant towards the drainpipe

drainpipe



18

90°    90°

90°    90°
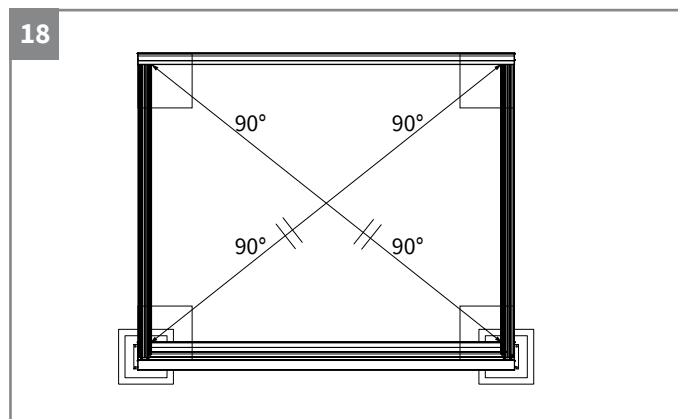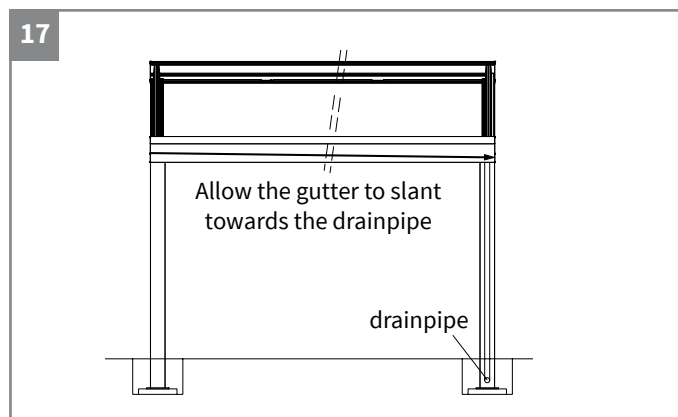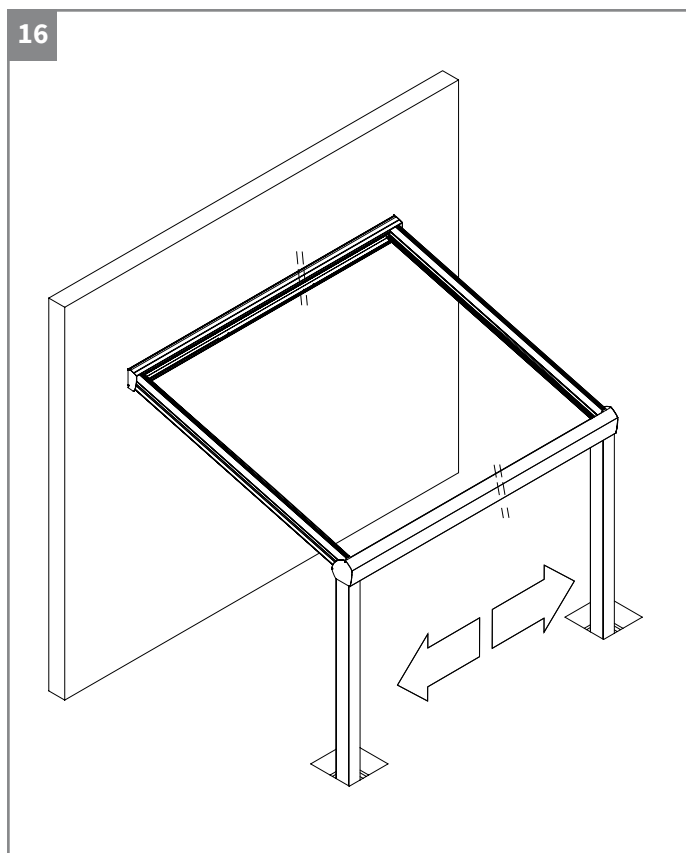
## 7. Anchoring the footplate



19
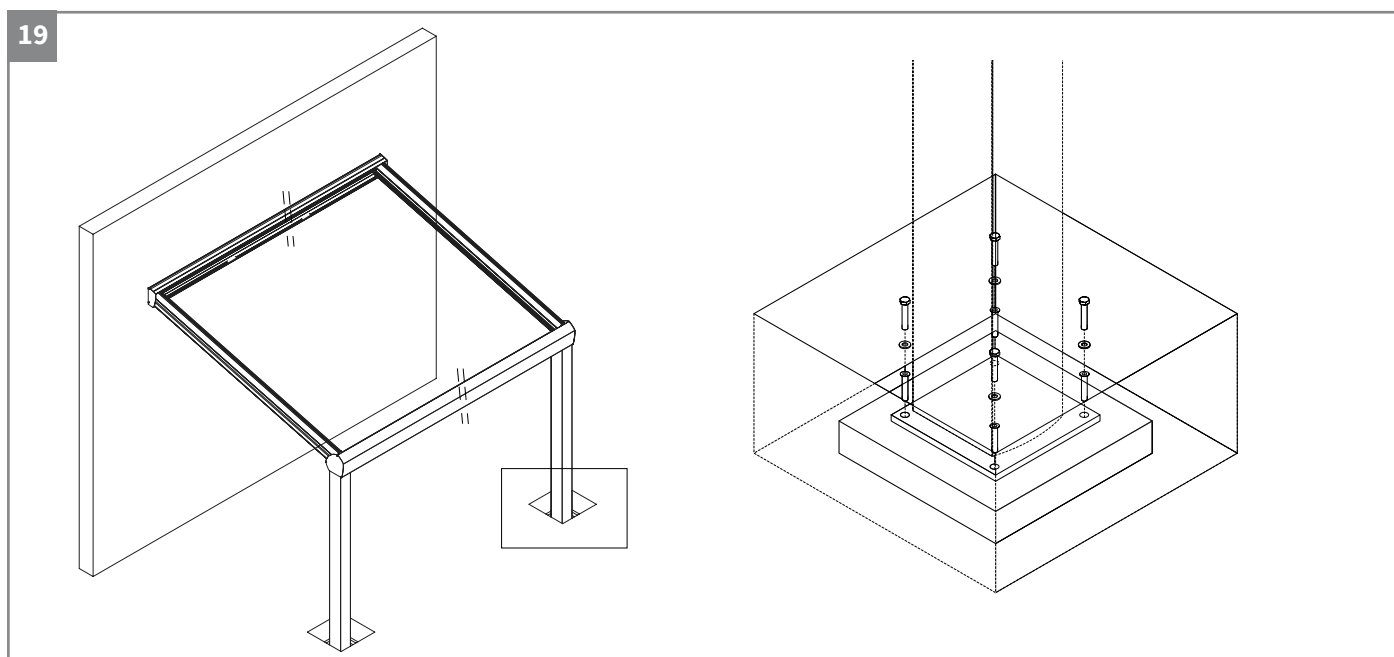
- Drill four holes through the footplate (16) into the foundation block.
- Screw the Footplate down onto the foundation block.

## 8. Laying the beam profiles
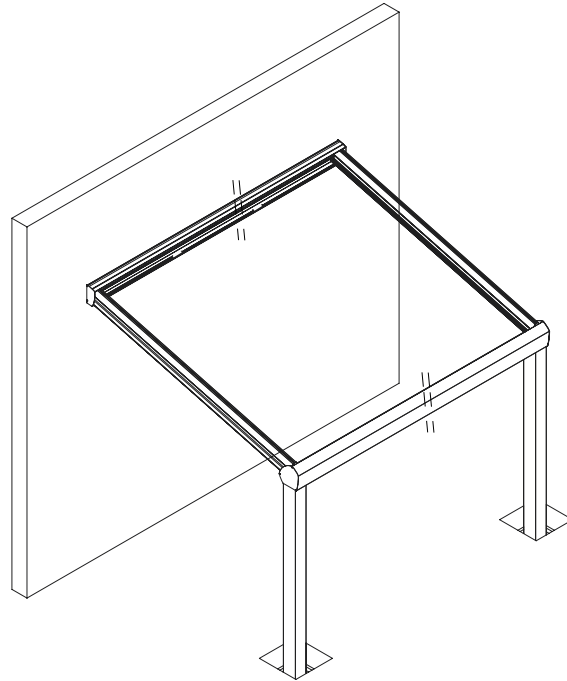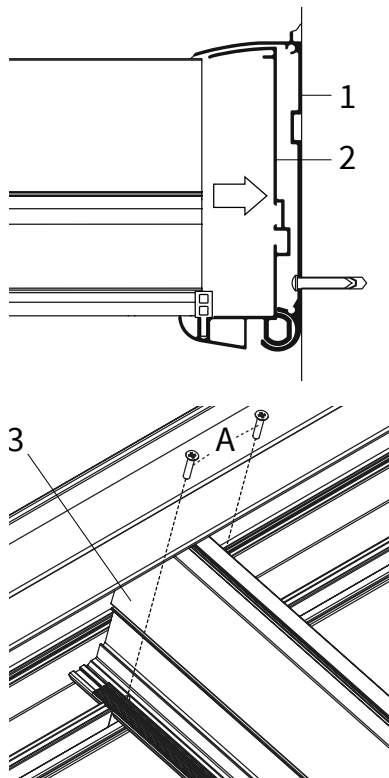






**Beam - wall**
- Slide the beam (3) into the tilt profile (2).
- Screw it in with 2 screws.
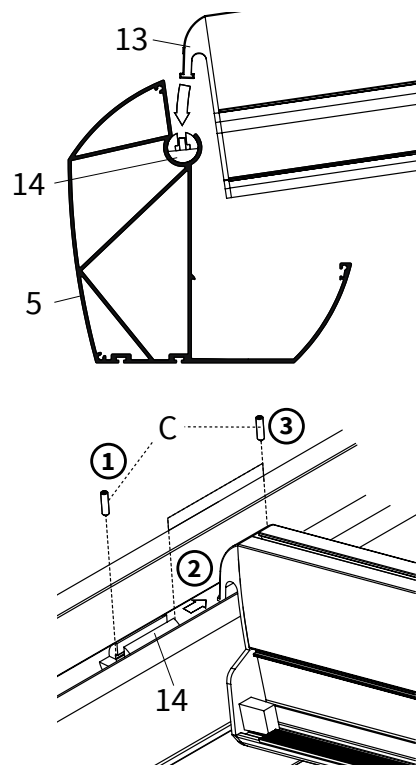
**Beam - gutter**
- Slide the beam (3) into the gutter (5).
- Slide the T connector (14) under the beam profile.
- Position the beam (3) and then fix it.
- Repeat this until all the remaining beams have been fixed.

## 9.      How to lay the glass/polycarbonate panels



**PLEASE NOTE:** Lay the glass panels with the polished facet edge towards the gutter!



Stopper



3

10          10

Slack of ± 5 mm

## 10.      Direction of mounting



Direction of mounting

◌ = Position of the mechanic
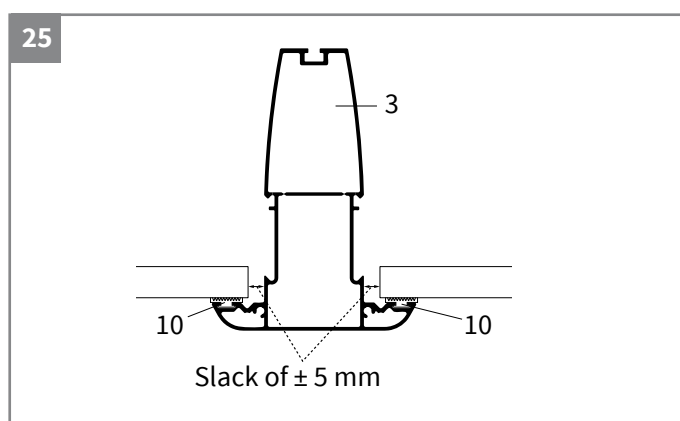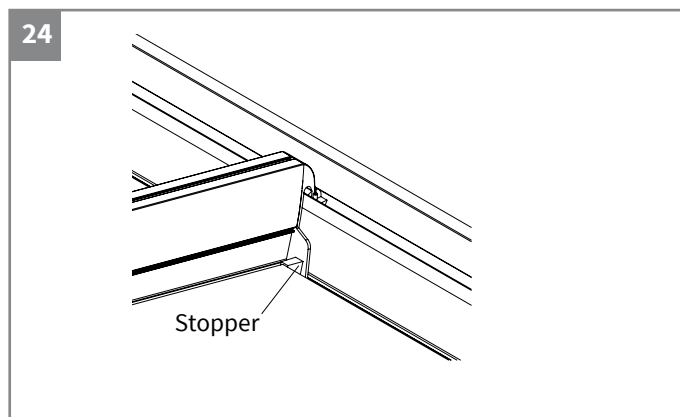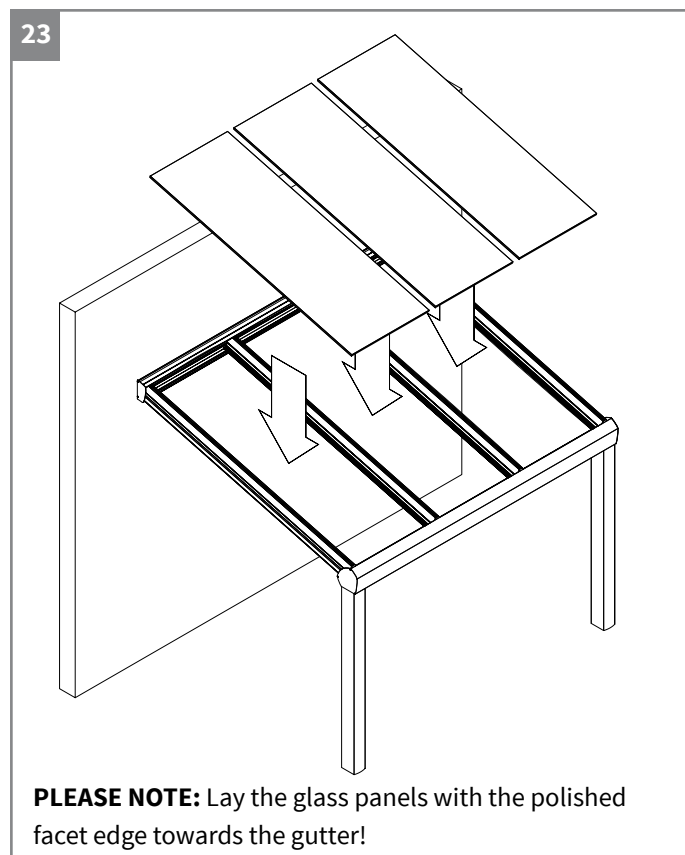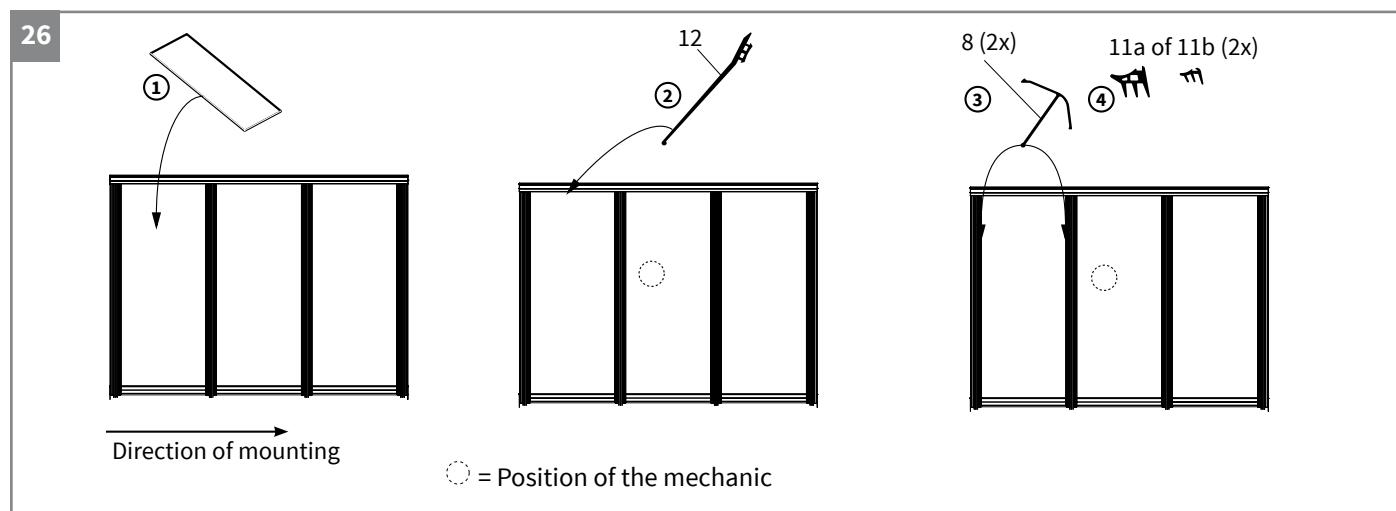
- Start with the end profile on the left-hand side. Lay the glass (or polycarbonate) roof panel.
- Insert the rubber for the wall profile (12) between the beams.
- Insert the glass strips (8) and the end frames (4).
- Insert the rubbers (11a for glass or 11b for polycarbonate).

Repeat steps 1 – 4 until all the panels have been fixed.

## 11. Inserting the rubber wall strips
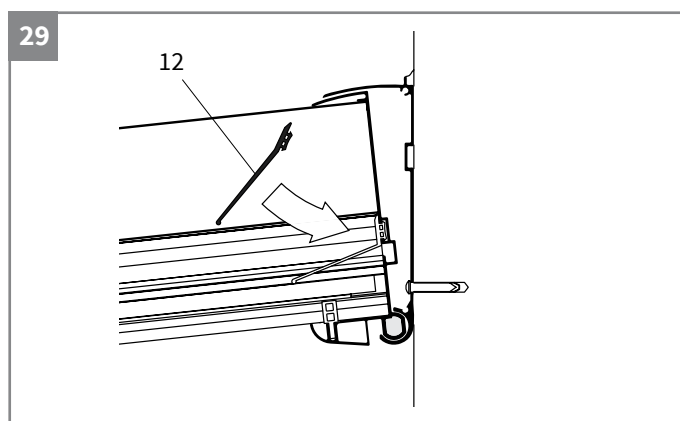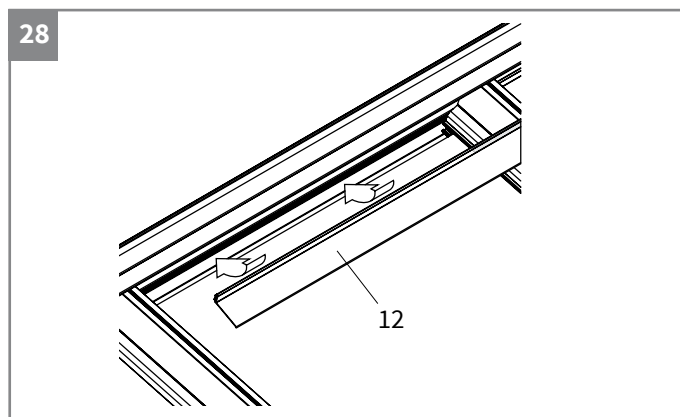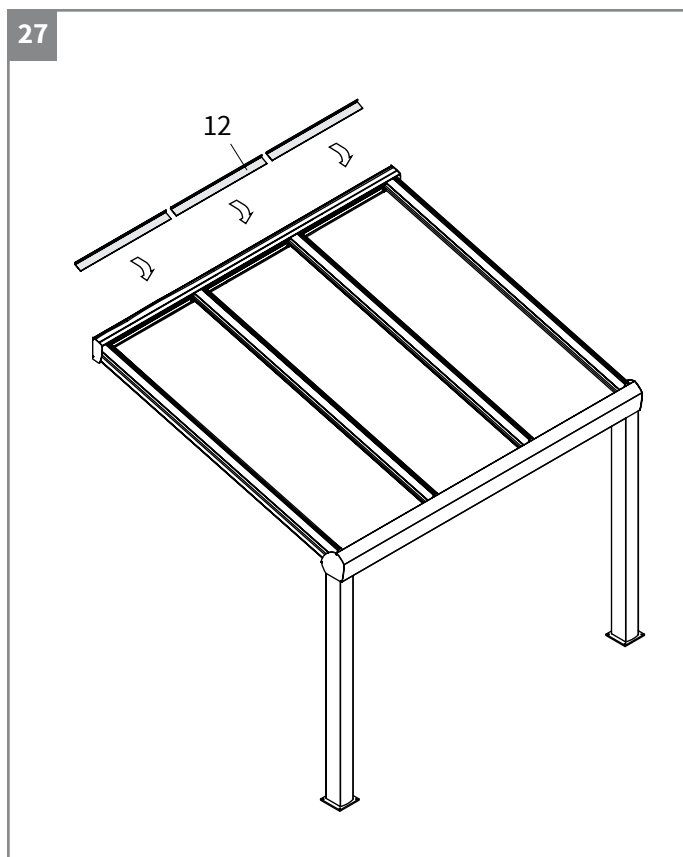
## 12. Placing glass roofing panels and rubber strips

**30**



**31**



Glass/Polycarbonate    'click'    8    Glass/Polycarbonate    Glass/Polycarbonate    'click'    4

**32**



11a of 11b

Polycarbonate
Glass                    Polycarbonate
                         Glass
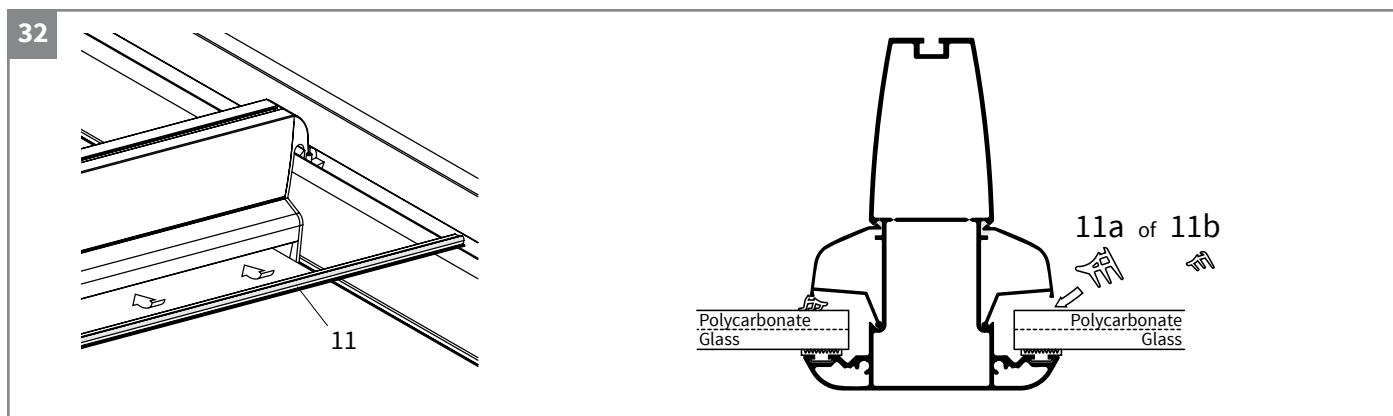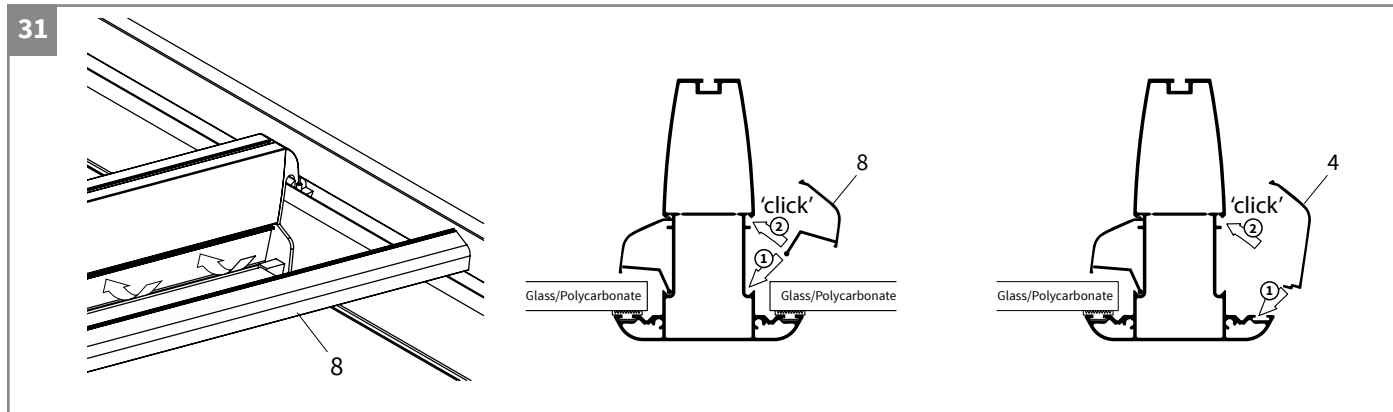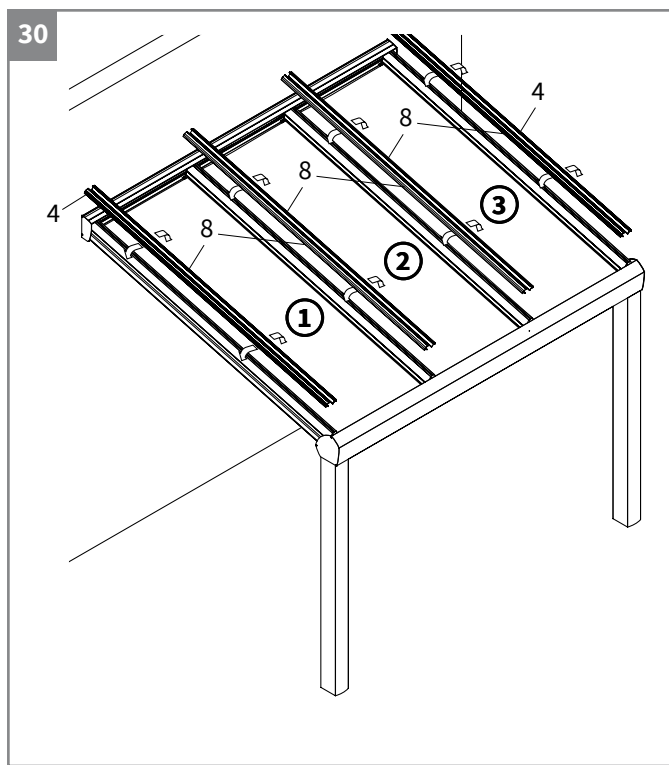
The rubber strips are available in two sizes:
- for glass (11a) 16 mm.
- for polycarbonate (11b) 10 mm

## 13. Drain pipe and post click profile
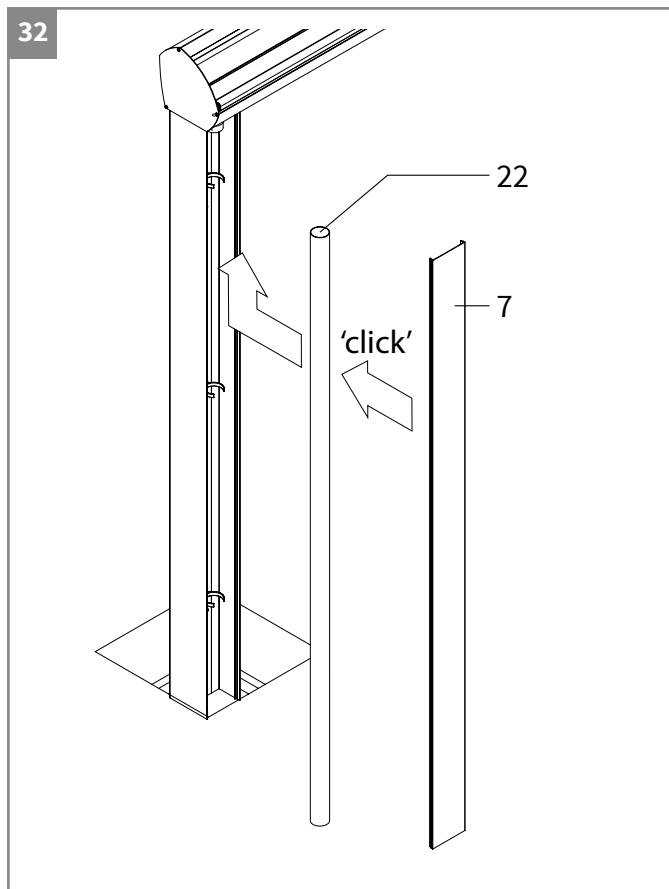


The drain pipe is located inside the post.

**Drainpipe:**
- Click in the drain pipe (22) and connect it to the drains.
- Click the post click profile (7) into the post.
- Fill in the foundation holes.

# Processing the polycarbonate roof panels

### Storage

If you storage the polycarbonate roof panels, to plates need to lie on a flat surface, for example pallets.
The plates may not be stacked directly on the ground. Avoid direct sunlight and rainwater and cover
the plates with a white polythene foil. Storage preferably inside. If outside, then under a roof.
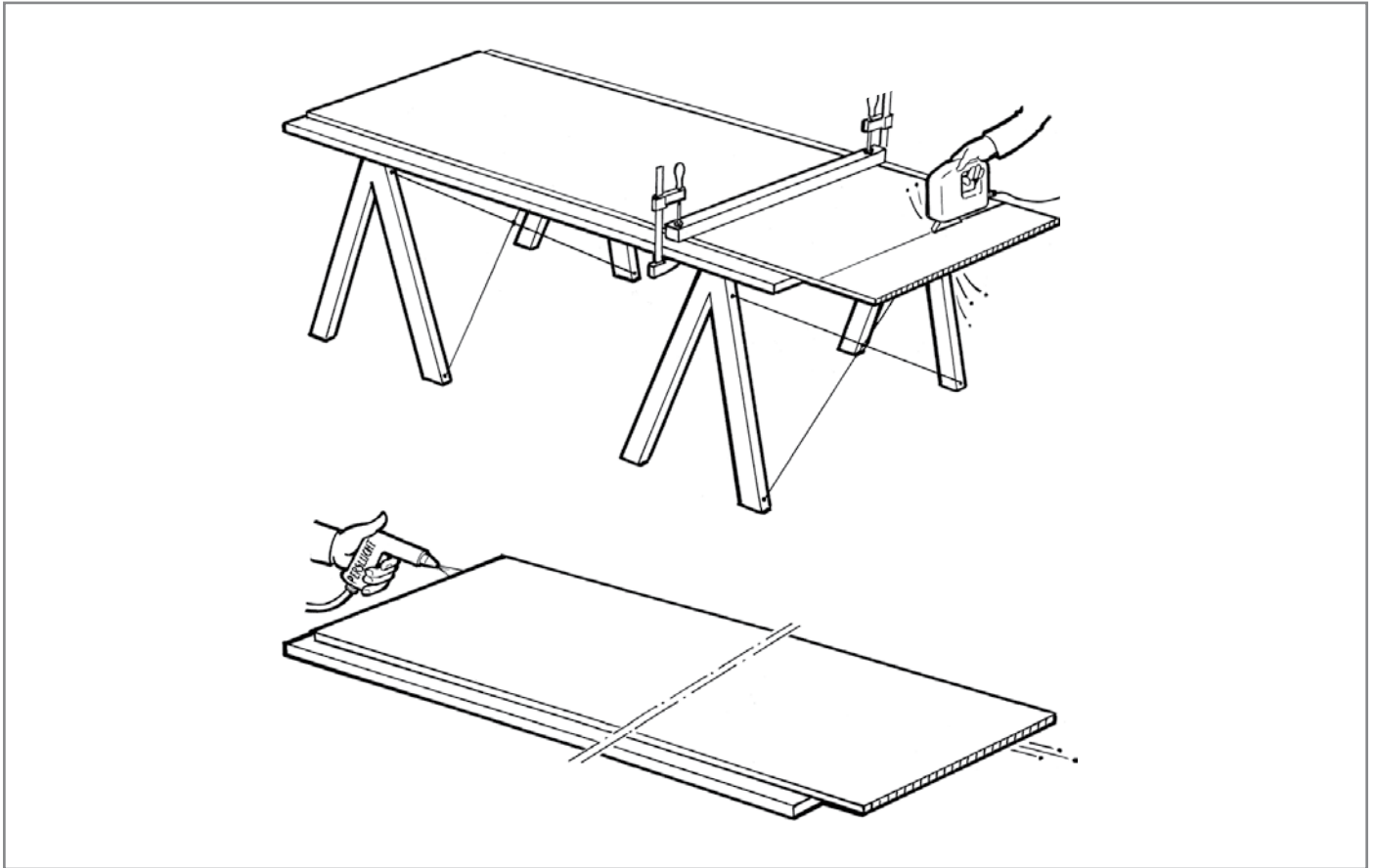


### Sawing

• Saw with a hand circular saw or jig saw with fine-tooth saw blade.
  Use a stable and vibration-free surface and avoid swinging and flapping of the plate.
  Do not remove the protection foil before the sawing and drilling. This prevents scratching on the surface.
• Clean the canals with dry compressed air.
• After that, immediately close with a Anti-dust or transportation tape.

### Backlash and installation

Due to temperature fluctuations, polycarbonate roof panels can bulb or shrink.
The plate is blocked against shearing on the underside with an end partition on the cover profile.
The whole backlash needs to be provided on the upper side.
The side of the plate needs to have a backlash of 3 mm.

AntiDust tape (closed)

UV-layer on top

7° - 10°

AntiDust tape (open)
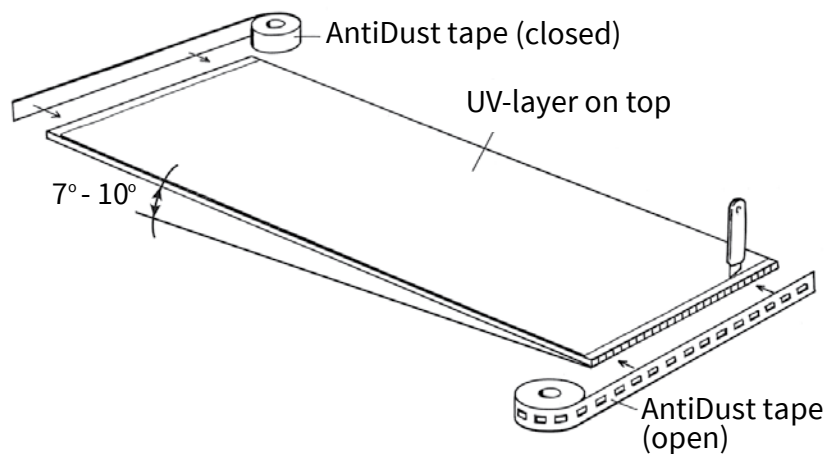
## Sealing against moisture

Polycarbonate is gas- and vapor-permeable, this is the reason that moisture can not be quite prevented. A right slope of the roof between 7° – 10° and an effective sealing can limit this.

- The plates need to be taped on the upper side with a closed Anti-dust tape.
- The underside needs to be taped with a perforated AntiDust tape.
- If possible, remove a strip of protection foil below and above (approx. 3 cm).
- Cut lightly with an utility knife.



UV-layer

Condensation strip

Condensation strip
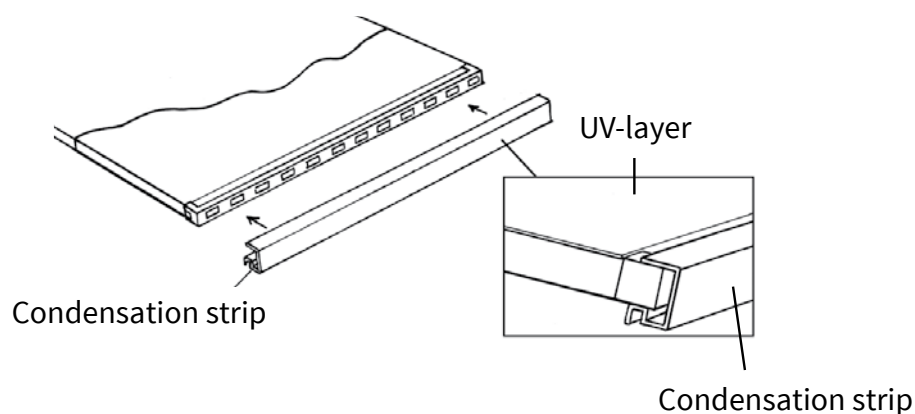
## Placing the moisture profile

After applying the Anti-dust tape, provide the underside of the plate with a condensation strip over the whole width of the plate.
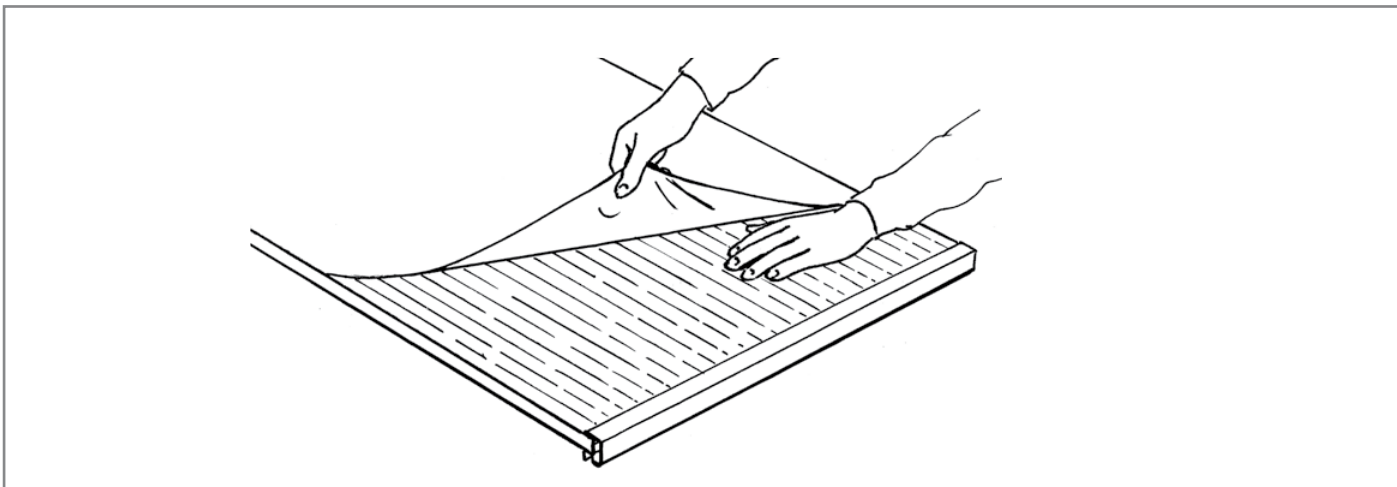
**Removing the protection foil of the UV-layer**

After applying the moisture profile, the polycarbonate roof panel can be installed. The removing of the UV protection foil can be done after mounting, but also before mounting. It is more easy and more safe to remove it before mounting.
You do not need to be on the roof to do this.



**Do not stand on the polycarbonate roof panel**

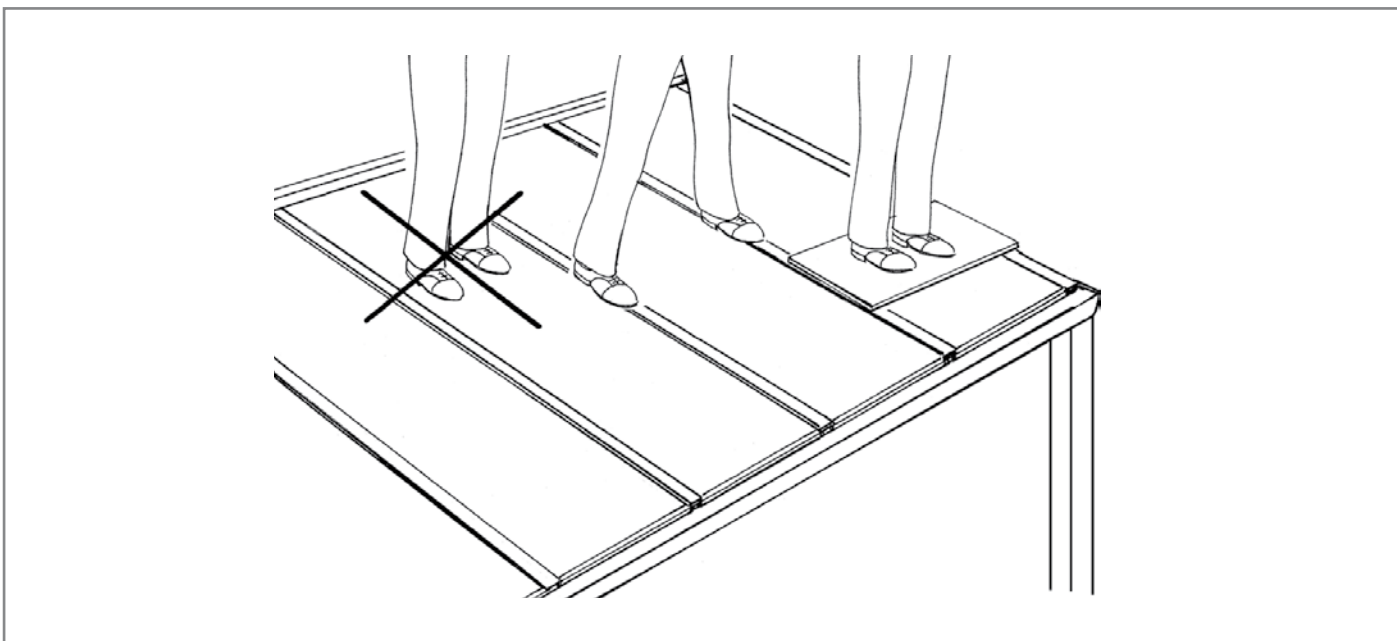The polycarbonate roof panels are solid and strong, but not resisted enough against concentrated load.
Do not walk on the panels! Only walk on the edges where beams and cover strips are or use a shelf.

**Cleaning**

- Clean the polycarbonate roof panels at least once a year with tepid water and soap. If necessary, use non-alkaline soap in combination with a telescopic car brush.
- Use a soft brush or sponge.
- Never use abrasives or solvents!
- Before- and after rinsing with a lot of water and at last clean with a soft cloth.

# $C\epsilon$

**Registration number TüV The Netherlands QA B.V.: 1231**

Verano BV
Bedrijfsweg 8
5683 CP  Best, Nederland

**Certificate number:**
**1231-CPR-1090-1-2400-A-293**

## EN 1090-1:2009 + A1:2011

Aluminium parts, to be applied in veranda's according to order:
see sticker on the back of this installation manual

| | |
|---|---|
| **Tolerance on geometric data:** | EN 1090-3 |
| **Weldability:** | N.A. |
| **Fracture toughness:** | not for aluminium products |
| **Reaction to fire:** | material classification: class A1 |
| **Cadmium emissions:** | NPD |
| **Radioactive radiation:** | NPD |
| **Durability:** | surface powder coated according quality class 3 |

<u>**Constructive properties:**</u>

| | |
|---|---|
| **Deadweight:** | design according EN 1990 (Eurocode 1) and EN 1999 (Eurocode 9): reference order noted on sticker on the back of this installation |
| **Distortion in serviceability limit state:** | NPD |
| **Fatigue resistance:** | NPD |
| **Fire retardend:** | Class A1 |
| **Fabrication:** | according to part specifications; reference order noted on sticker on the back of this installation manual and EN 1090-3, EXC1 |