



INSTALLATION DETAILS

ROOFING SYSTEM

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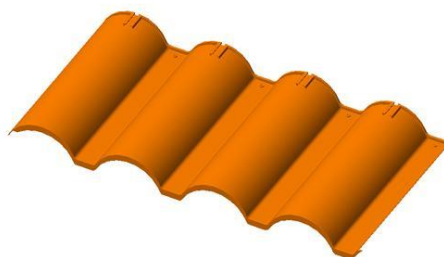
THE ROOF AND ITS ACCESSORIES

4 wave tile panel

Size: 1.07 m x 57 cm

Weight: 3.9 kg

Thickness: 5 mm



Angle: Lateral and closure-support below ridge / hip

Size: 57 cm x 11 x 10 cm

Weight: 750 gr



Multifunctional piece:

Ridge

Hip

Size: 57 x 33 /Weight: 1.5 kg



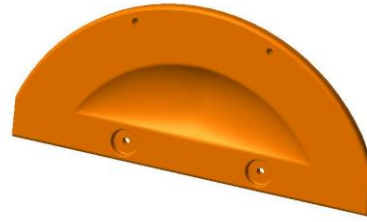
Ridge / hip closure

Weight: 260 gr

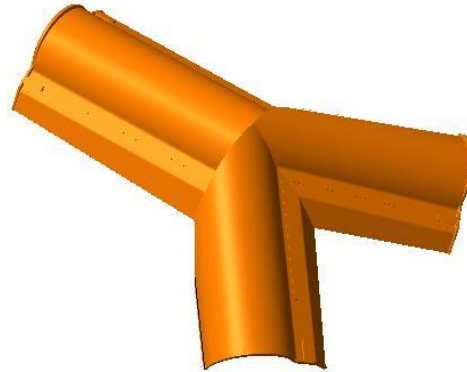


Anti-bird closure for end of tile,
ridge and hip

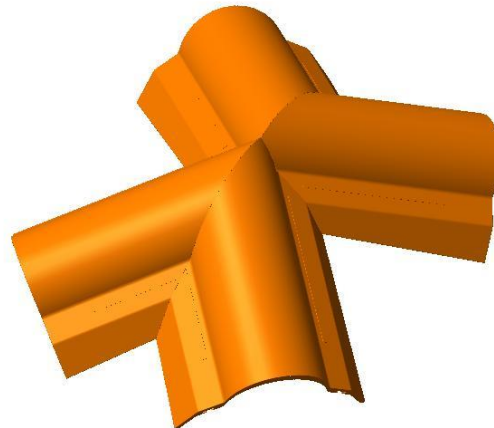
Weight: 50 gr



Triple union



Quadruple union



BASIC TOOLS FOR THE INSTALLATION OF ROOFECO PLASTIC TILE ROOFS

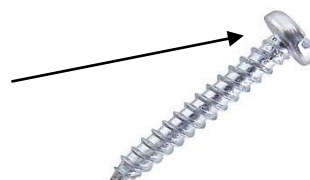
- 1 Drill for screws



- 2 Multipurpose disk saw to cut roof parts in case they need cutting.



ATTENTION: All screws must have a flat surface here.



- 3 4.2 x 45 mm hot-galvanized steel tapping screws P Z 2. This screw is used for **metal** strips and to fasten the tile panel, the angle and the anti-bird closures to the metal strip.



- 4 Z 2 4 x 35 mm screws. They are used for **wooden** battens and to fasten the tile panel, the angle, the ridge and hip closure, the ridge and the anti-bird closures to the wood.



- 5 3.8 x 45 mm **concrete** screw* with 6 x 40 mm dowel.



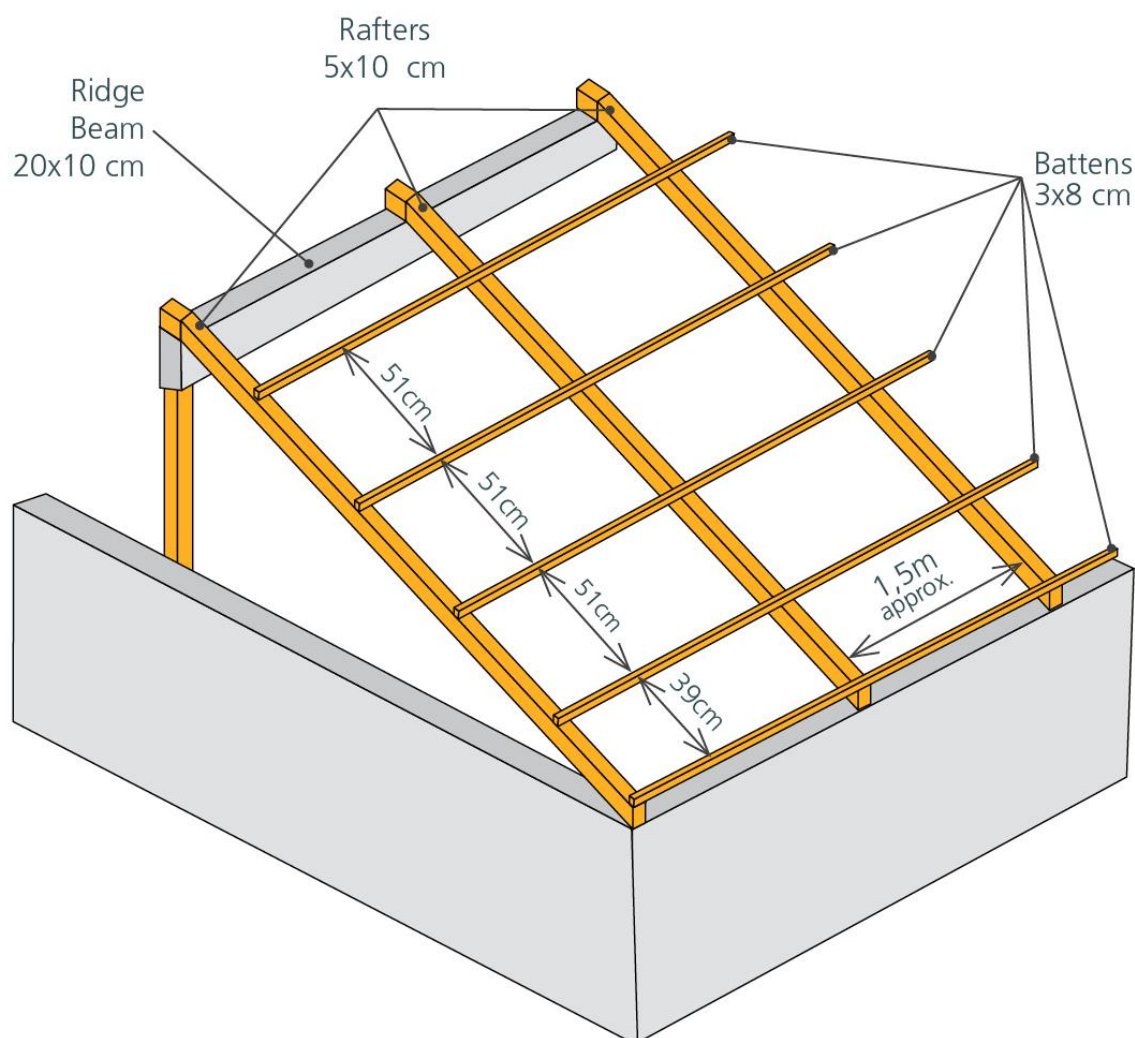
INSTALLATION SEQUENCE

1. The Batten

Which distance is required between the battens to fasten the plastic tile panels?

Between the center of the 1st batten and the center of the 2nd batten there must be a distance of 39 cm. From the center of the 2nd to the center of the 3rd batten and so on there must be a distance of 51 cm.

In the following, the auxilliary structure required for the installation of the Roofeco roof is shown.



2. Anchors of 4 Wave Tile Panel

The following image shows the front of the 4 wave tile panel with its respective parts. Two screws per panel must be settled in the channel, **always in the channel.** There are 4 holes, but only 2 screws are placed alternately, in the first and third hole. (See example in picture below).



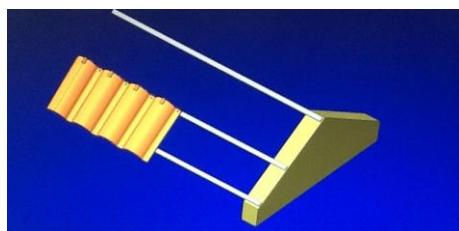
The following image shows the reverse side of the 4 wave tile panel with its respective parts.



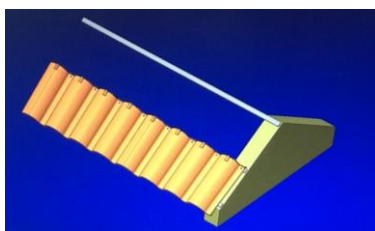
3. 4 Wave Roof Panel

The roof panel is installed by rows, initiating from the bottom to the top and from left to right (position of the observer looking towards the roof). The sequence is shown in the following:

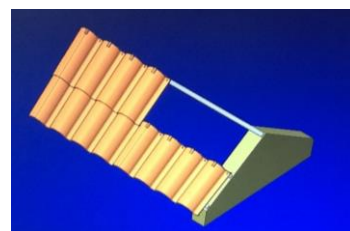
Step 1



Step 2



Step 3



On page 5, the required screws depending on the type of material of the batten are detailed.

The union of the anchors is shown in the following image.





We recommend to anchor a minimum of two waves per panel.

4. Angle / Lateral

The angles are used for at the beginning and at the end of each row of tiles for the lateral closure. It is also used for the wall closure. See pictures below.

Lateral closure when finishes in wave



Lateral closure when finishes in canal



Picture: wall closure



In the following picture, the position of the lateral profile as wall closure can be observed. It is necessary to add a string of poliurethane between the wall and the lateral profile to avoid water infiltration. Also, the ridge / hip closure must be added to avoid water infiltration through the canal.

5. Ridge and Hip Closure

The ridge and hip closures are a reinforcement which prevents the water from infiltrating when moving back due to the wind. This closure is placed in the canal and fastened to the wave of the tile which are then covered by the ridge or hip.

One 4 x 35 mm screw (described on page 5, item 4) is used per closure.





6. Multifunctional piece: Ridge Cap/ Hip Cap

The first ridge cap is installed placing the front part facing the front.



As to the installation of the hip, the installation is initiated from bottom to top and with the front part facing the front.

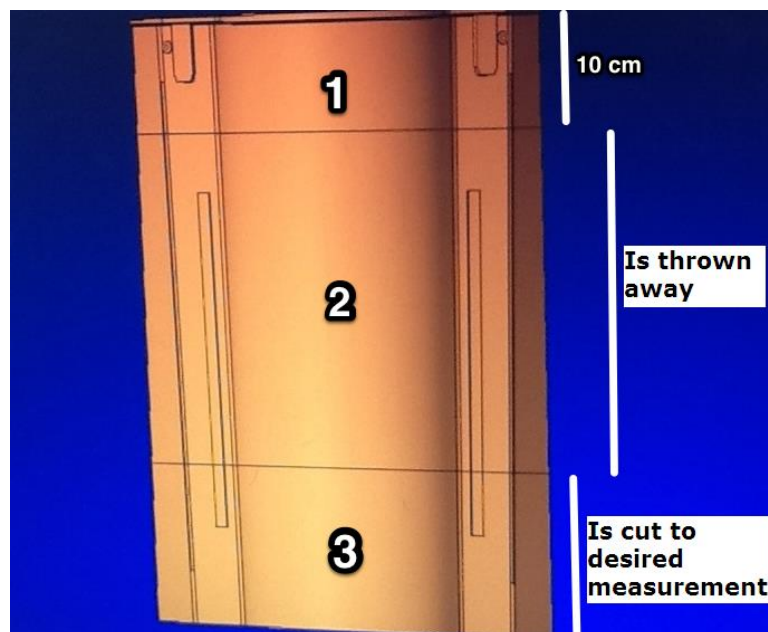


7. Length Adjustment of Multifunctional Piece: Ridge / Hip

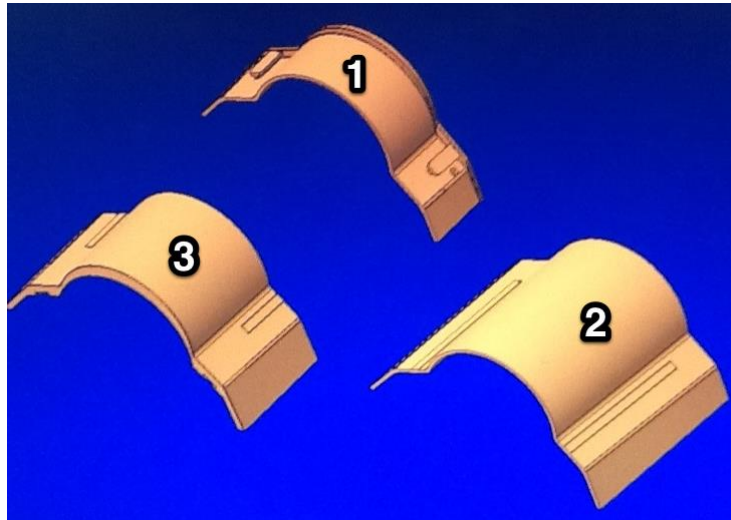
- | | |
|--------|--|
| Step A | Starting on the front part, the piece is cut breadthwise with the desired measure (3). The back part of the remnant piece is cut breathwise 10 cm (1). |
| Step B | The pieces are separated and the remnant pieces is thrown away (2). |
| Step C | The two pieces (1 and 3) are joined by embedding the screw from bottom to top in the male anchor. |
-

Example:

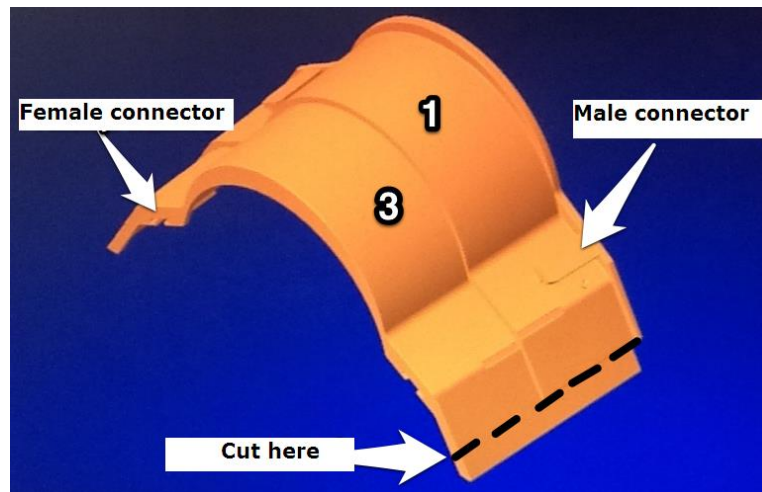
Step A



Step B



Step C



8. Anti-bird Closure

This part is used as an anti-bird closure for the tile, the ridge and the hip.

The piece is installed as explained in the following figure: Two screws are fixed on the upper part of the anti-bird closure to the edge on the underside of the tile and on the lower part of the anti-bird closure to the batten.



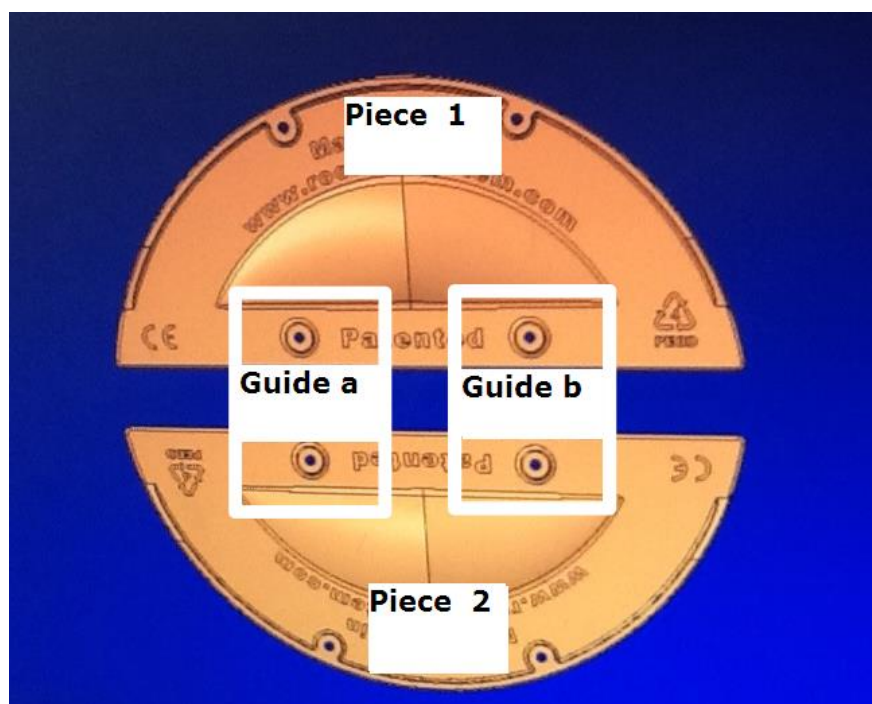
This is an important piece because it holds the first line of tiles to the understructure.



Picture of the installed anti-bird closure



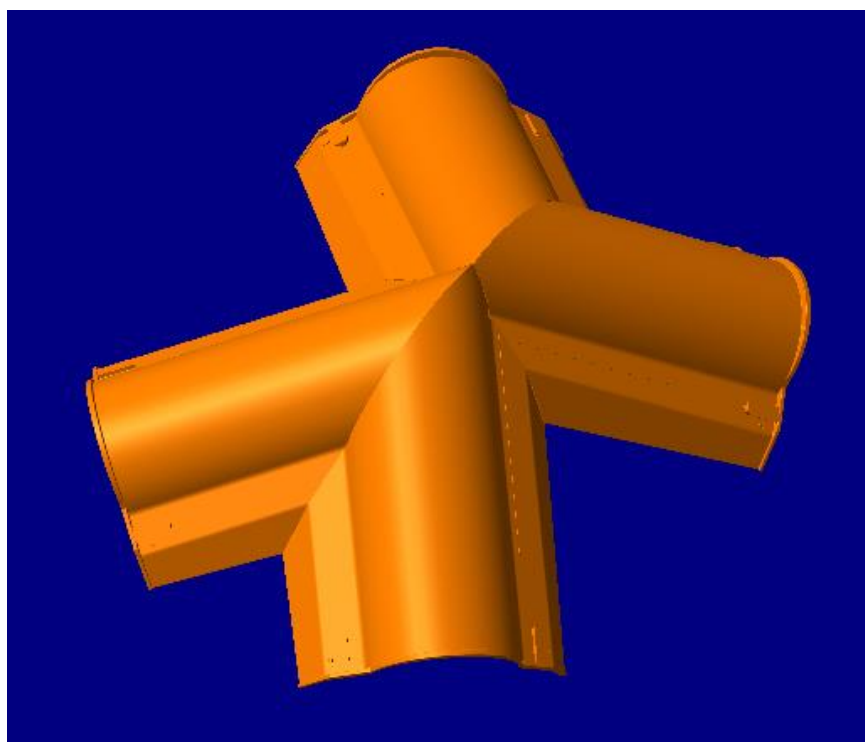
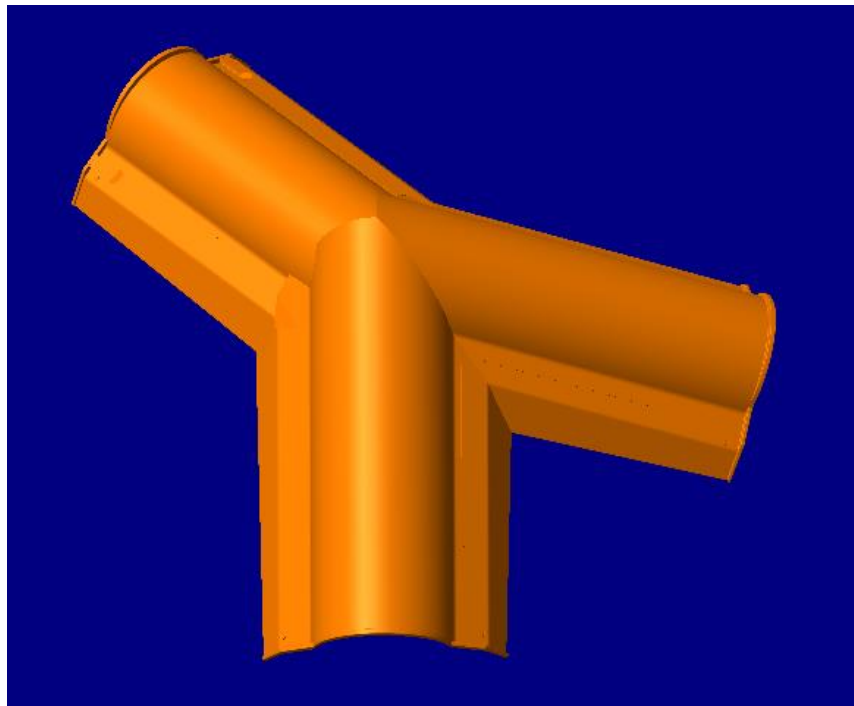
For the installation of the anti-bird closure on the end of the ridge, it is necessary to mount 2 closures in the following manner: 2 cm overlap, part 1 on top of part 2, and fasten (with 4 x 35 mm screw as described on page 5, item 4) so that the guides coincide.



Afterwards, the two parts of the previous figure, overlapped and fastened, are placed behind the front edge and said edge is fastened with two 4 x 35 mm screws (described on page 5, item 4), see example on the following picture.



9. Triple and Quadruple Union



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