

Guidelines for Installation

Accro'sun Composite Integration System® for photovoltaic systems on rooftop photovoltaic system



Guidelines for installation Ecogelec ecogelec@free.fr Tel: 06-21-90-20-89 Les Bartaneix 19290 St Remy





 \geq

 \geq

ACCRO'SUN **Integrated Building System**

Steps to install the Accro'Sun integration system

Text on image : Existing battens, existing rafters

Step 1 : Structure of the existing frame

The system can be adapted to conventional rooftops based on rafters and battens, upon which tiles are placed.

Step 2 : Placing the below-roof screen



Step 3 :Placing the battens

A below-roof screen (with a 10-year guarantee is required and must be placed in accordance with the state of the art on the rafters.

Note : The rest of the assembly will be explained without this below-roof screen for ease of comprehension.

Text : SMP-type below-roof screen



Adding the horizontal battens. These battens serve multiple functions:

- They structurally reinforce the roof.
- They are placed at the vertical centre-line of the panels

Text : removing tiles, existing battens, existing rafters





Step 4 : Putting in place the eaves flashing.



Drainage strip edges or eaves flashing : This ensures the waterproof sealing between the lower panels and the gutter. In case of partial cover, the verge flashing rests below the tiles.

Step 5 : Placing the Onduline polycarbonate rails



These will be installed along the centre-line of the panels used and will rest on the drip edge.

Step 6 : Mounting the panels



Placing the polyethylene hooks: We can mount the columns of panels starting from the left, from the right or even from the middle. The system may, to a certain extent, compensate for any problems with the squareness or non-linearity of the roof. The placement of the hooks ensures that the upper panel overlaps the lover panel (there is no gap between panels). An EPDM joint sealant foam is applied to the polycarbonate gutter at the point of overlap in order to ensure perfect sealing against powdery snow.

<u>Placing the photovoltaic panels</u> on the Ondulin polycarbonate rails.

Note : The hooks on the lower installation panels are fixed to the drip edge and the Ondulin polycarbonate rails.

Guidelines for installation Ecogelec ecogelec@free.fr Tel: 06-21-90-20-89 Les Bartaneix 19290 St Remy





Step 7 : Placing the lateral flashing



Step 8 : Placing the upper flashing

Step 9 : Placing the tiles



<u>Lateral flashing sheet:</u> This acts as a bridge between the polycarbonate rail and the lateral tile. Its profile is compliant with the state of the art.

Upper corner flashing sheet: This ensures the waterproof sealing between the upper flashing and the lateral flashing.

Single sheet or Ubiflex waterproofing strip covering the panels.

The tiles cover the lateral flashing and the upper integration sheet. They are placed on the battens and come up to the same level as the photovoltaic panels, strictly complying with CEIAB recommandations.

Tiles Upper integration sheet Photovoltaic module Drainage strip





Examples of installations

Detail of a photovoltaic installation in Cantal







ecogelec@free.fr Tél : 06-21-90-20-89 Les Bartaneix 19290 St Remy





Installation in Cantal using the Accro'sun Composite system :

⇒ Slate roof



⇒ Photovoltaic rooftop



> Felletin railway station (Cantal, France)







Felletin railway station (Cantal, France)







Principe de pose Ecogelec ecogelec@free.fr Tél : 06-21-90-20-89 Les Bartaneix 19290 St Remy

