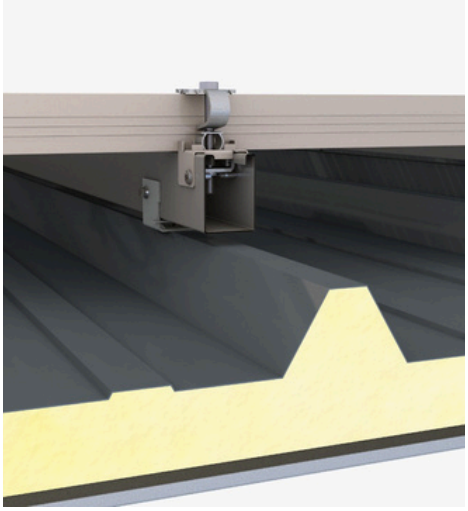
ADIWATT
Le photovoltaïque, une histoire d'experts

Technical datasheet | Optima sandwich panels

Process under ETN



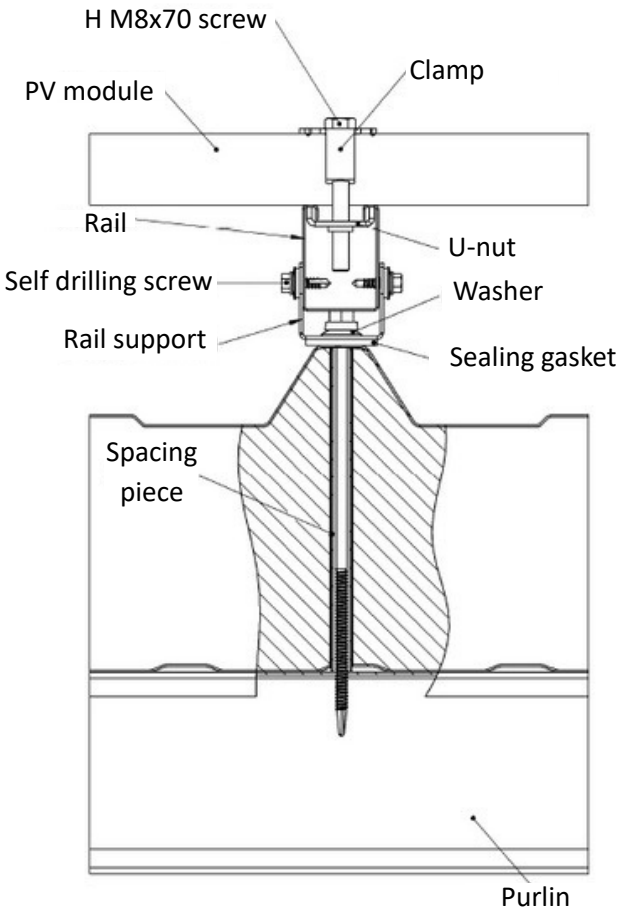
The AdiWatt OPTIMA process combines framed photovoltaic modules with a specific mounting system that allows them to be installed on roofs equipped with trapezoidal wave sandwich panels, for landscape installation.

Metal	Steel + ZM310 according to EN 10346
Field of application	New or existing roofing of the trapezoidal corrugated sandwich panel type
Installation areas	Low and medium humidity premises - excluding overseas departments and regions
Maximum installation altitude	900 m
Minimum and maximum slope	2.8° to 45° (between 31° and 45°, consult AdiWatt)
System weight/m2	3,5 kg/m² approximately
Modules	Framed - Landscape mode
Type of purlin	Steel - Wood - Concrete
Purlin spaces	<2m = 2 rails/column of modules 2m to 2m30 = 3 rails/column of modules*
Maximum roof lenght	40 m maxi

*Subject to feasibility, sizing carried out by AdiWatt

System parts

Clamp + U-nut + sealing gasket
Support plate
Rail A52: lenght 1750 mm lenght 2100 mm lenght 3500 mm
Inner rail fishplate
OPTIMA rail stop
A52 rail support U
Spacer
Washer VA Ø 25



Compatibility conditions

Thickness of sandwich panel insulation	70mm to 250mm
Insulation material: PUR or PIR	Fire rating: B-S1, d0 or B-S2, d0
Wave height: 35 mm to 45 mm	Wave centre distance: 250 or 330 mm
Wave crest width: approximately 24 mm	Wave trough width: approximately 73 mm
Maximum module area	2m²
Fixing to the roof structure	Self-drilling screw Ø 6.5 mm (wooden purlins) or Ø 5.5 mm (steel purlins)
Thickness of pre-coated galvanised steel cladding for fixing on 3 supports	0.4 mm to 0.6 mm