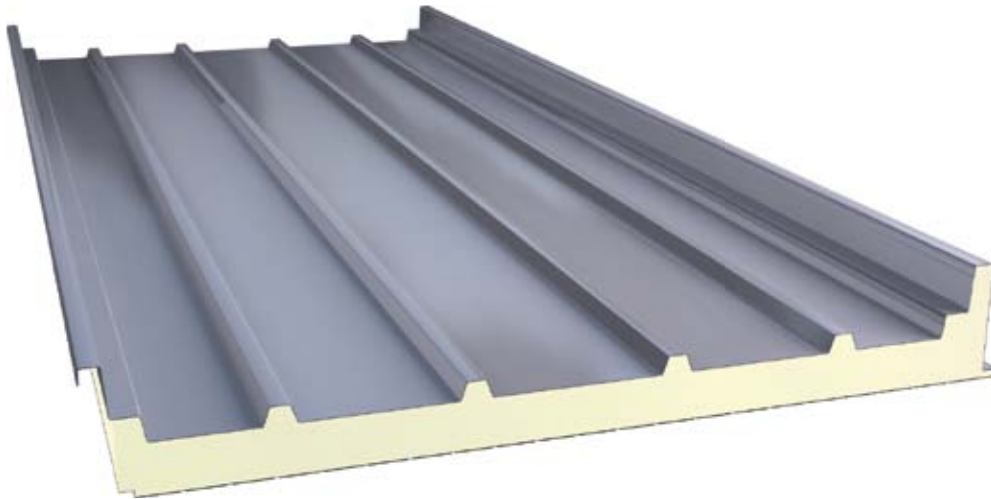
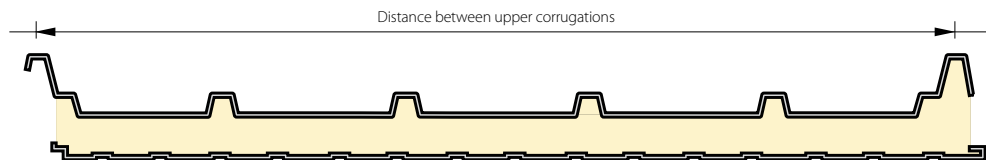


# ecOPAN 1000 PU



**ECO PAN 1000 PU** - Roof panel, sandwich design consisting of two pre-painted galvanised sheets enclosing a layer of polyurethane foam, density 40 kg/m<sup>3</sup>.

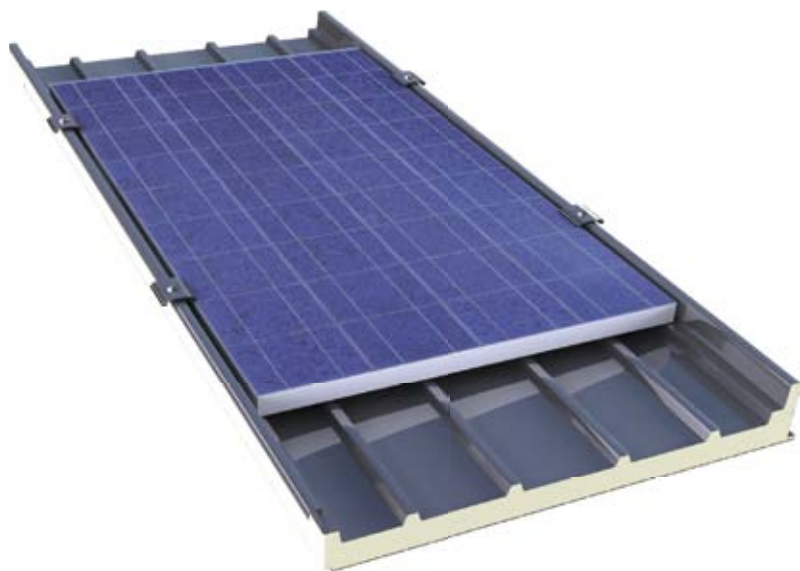


The measurement tables given should be considered to apply to corrugated panels subject to loads perpendicular to the section. The values given in the tables have been obtained from experimental trials conducted according to the requirements of the standard UNI EN 1993-1-3:2007 (Appendix A – section A2.2).

The values given in the tables do not place limitations on deflection. All panels have passed concentrated load tests (footprint) applied centrally and conducted according to the requirements of the standard UNI EN 14782:2006 (Appendix B).

Technical data				
Thickness [mm]	40	60	80	+ corrugation (0,6 mm + 39/59/79 mm + corrugation + 0,4 mm)
Sandwich panel weight [kg/m <sup>2</sup> ]	9.60	10.40	11.20	
Distance between upper corrugations [mm]	1042	1052	1062	Overall photovoltaic module width 980 mm e 1000 mm

Non-standard thicknesses and widths subject to technical evaluation at the design stage.



### Description of components:

#### Exterior side

- Pre-painted galvanised steel support
- Thickness 0.6 mm

#### Insulating component

- Polyurethane foam, density 40 kg/m<sup>3</sup>
- Insulating material thickness 39/59/79mm (plus filling for the corrugations)
- Fire reaction certification, class Cs3d0
- Other foams can be used (Bs<sub>3</sub>d<sub>0</sub> -Bs<sub>2</sub>d<sub>0</sub>)

#### Interior side

- Galvanised steel support pre-painted in standard cycle
- BG standard colour similar to RAL 9002
- Thickness 0.4 mm / 0.5 mm
- Support protected with special film
- Micro-ribbed support – Micro GP

### Technical data:

#### Fitting:

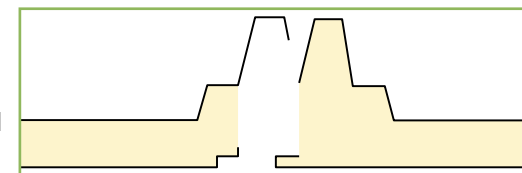
- The panel is assembled by overlapping the shaped steel sheet.

#### Panel slope:

- Unless otherwise designed, the slope of the metal covering must not be less than 7%.

#### Panel tolerances

- Panel thickness ± 2 mm
- Panel length ± 5 mm
- Panel module ± 1.5 mm
- Off-square max ± 3 mm



#### Panel length :

- Up to 13000 mm.

#### Transmission factor:

The theoretical transmission values for standard sandwich panels are given below. Tests on any non-standard panels can be performed on specific request of the customer.

Transmission factor "K"		
(Quantity of heat passing through 1m <sup>2</sup> of material of thickness "S" in one hour)		
Conversion formula: KCal/m <sup>2</sup> h °C 1/R		
	Kcal/m <sup>2</sup> h °C	W/m <sup>2</sup> K
sp./t 30	0.66	0.76
sp./t 40	0.5	0.57
sp./t 50	0.4	0.46
sp./t 60	0.33	0.38
sp./t 80	0.25	0.29
sp./t 100	0.19	0.23
sp./t 120	0.16	0.19

#### Certifications:

- European certification for reaction to fire obtained for our panel in compliance with the standard EN 13501-1.
- Classification: Euroclass C<sub>s</sub>3d<sub>0</sub>
- Test report from certification body CSI no. 0110/04 dated 01.10.04