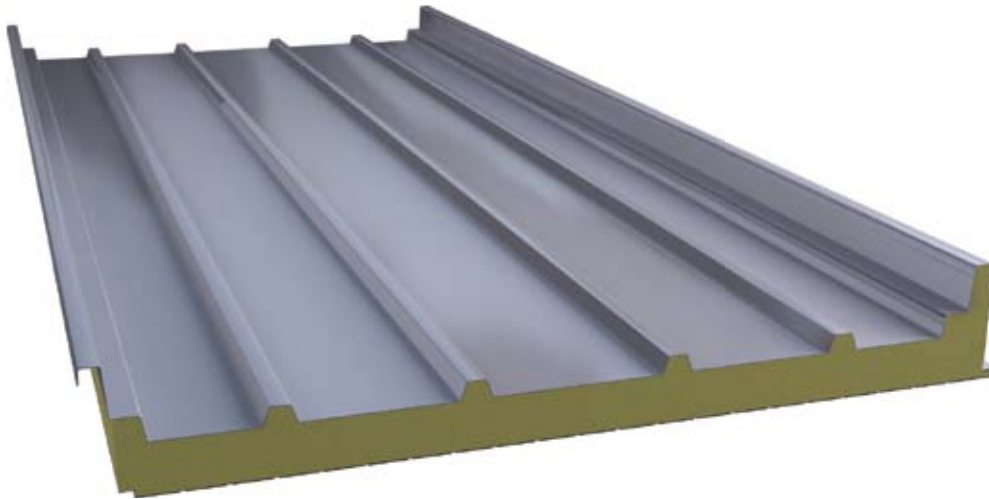
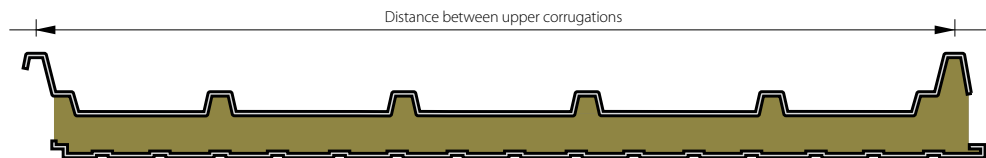


ecOPAN 1000 LR



ECO PAN 1000 LR - Roof panel, sandwich design consisting of two pre-painted galvanised sheets enclosing a layer of mineral wool with oriented fibres, density 90-100 kg/m³. The whole unit assembled with polyurethane glue.



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 ²]	11.50	13.30	15.10	
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

Adhesive

- Polyurethane glue suitable for bonding the layers of the sandwich, able to withstand temperatures of between -50° and +200°, sprayed on by means of the special "shower" unit on both sides of the insulating material which then bond with the metal supports that make up the panel.

Insulating component

- Mineral wool with oriented fibres, density 90-100 kg/m³
- Insulating material thickness 39/59/79 mm (plus filling for the corrugations)
- Fire reaction certification A₂s₁d₀

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:

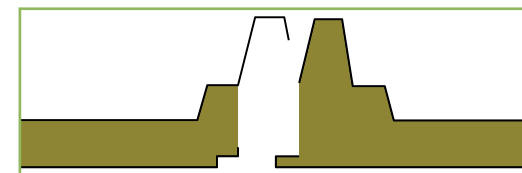
- The panel is assembled by overlapping the shaped steel sheet.

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 ² of material of thickness "S" in one hour)		
Conversion formula: KCal/m ² h °C 1/R		
	Kcal/m ² h °C	W/m ² K
sp./t 40	0.82	1
sp./t 50	0.66	0.8
sp./t 60	0.55	0.66
sp./t 70	0.47	0.57
sp./t 80	0.41	0.5
sp./t 90	0.37	0.45
sp./t 100	0.33	0.4
sp./t 110	0.30	0.37
sp./t 120	0.27	0.33

Certifications:

- European certification for reaction to fire obtained for our panel in compliance with the standard EN 13501-1.
- Classification: Euroclass A₂s₁d₀
- Test report from certification body CSI no. 0642/DC/REA/09_8 dated 27.10.10