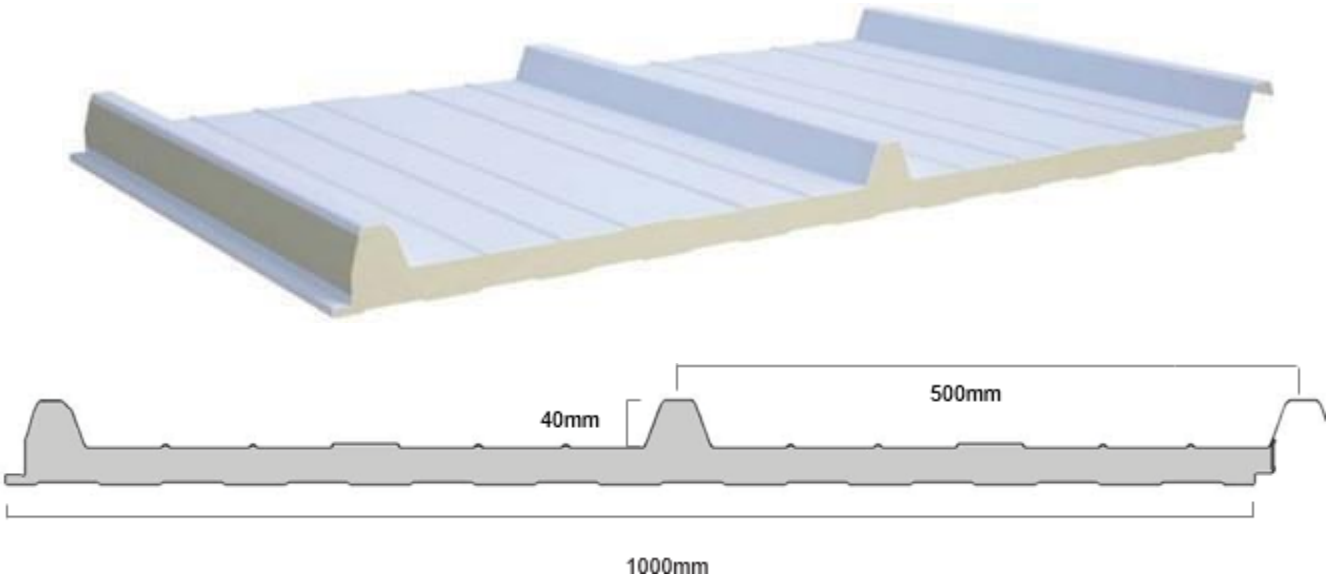
Product Data Sheet

3-wave roof panel - PC3 1000



This product meets the requirements of Regulation (EU) No 305/2011 of the European Parliament and of the Council laying down harmonized conditions for the marketing of construction products and complies with Annex ZA of Standard EN 14509:2013.

THICKNESSES: 30-40-50-60-80-100

Designation

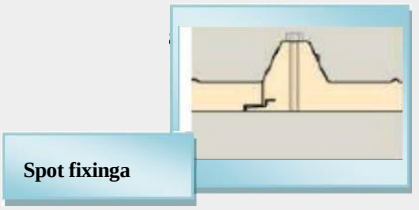
Isothermal panel for roof cladding with 3 waves.

Description:

It consists of two profiled steel sheets interconnected by rigid polyurethane foam insulation (PUR B3, PUR B2) or polyisocyanurate (PIR) to form a panel with a useful width of 1000 mm. It fits laterally with other panels to cover a surface.

It is easy to apply and highly resistant at an economical cost.

It is fixed with a self-tapping screw in the fitting area.



Dimensions

Thickness: 30, 40, 50, 60, 80 e 100 mm
Measurements according to reference. A tolerance of +/-2mm

Useful width: 1000 mm

A tolerance of ±2 mm.

Length: According to the customer's request and subject to the following limits:

Minimum: 4.000mm

Maximum: 15,000 mm (Except for foam panels PIR**)

** Panels in PIR:

Thickness (mm)	30	40	50	60 e 100
Length Maximum (mm)	9.000	10.000	11.000	12.000

A tolerance of ±10 mm.

Base materials

Metal support

- Rolled steel (minimum S220GD (EN 508; EN 10143)), galvanized (EN 10346) and pre-painted (EN 10169)

- Rolled, pre-treated and lacquered aluminum alloy. On request
  Note: sheet thickness subject to consultation.

Coating

- *Standard*: primer 5 µm + polyester paint 20 µm
- For special applications: PVDF, HDX, PVC (suitable for the food industry)) On request

Insulating core

Rigid polyurethane foam - PUR B3, without reaction to fire class PND*
- Rigid polyurethane foam - PUR B2, with a reaction to fire class of B s2 d0
- Rigid polyisocyanurate foam - PIR, with a reaction to fire class of B s1 d0
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  - Medium density: 40 kg/m³ ± 10%
  - Thermal conductivity λ= 0.025 W/m.K
  - Foam free of CFC's

Mechanical characteristics

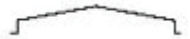
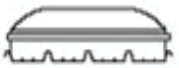
Adhesion (tensile strength on the support) > 0.018 MPa
Compressive strength for 10% deformation > 0.100 MPa

Characteristics

Sheet thickness 0,4 mm															
Nominal panel thickness (mm)	Thermal transmissio (W/m²K)	Panel weight (Kg/m²)	Maximum flexion = 1/200L Uniformly distributed load												
			Kg/m²	▲ ▲					▲ ▲ ▲						
				80	100	150	200	250	80	100	150	200	250		
30	0.79	7.55	Maximum distance (cm)	250	226	187	163	146	334	302	250	218	196		
40	0.60	7.95		288	261	216	188	169	386	349	289	252	226		
50	0.48	8.35		325	294	244	213	191	434	393	326	284	255		
60	0.41	8.75		359	325	270	235	211	480	435	360	315	283		
80	0.31	9.55		422	382	317	277	249	564	511	424	370	333		
100	0.25	10.35		478	433	360	314	283	638	578	481	420	378		

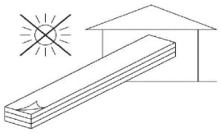
Sheet thickness 0,5 mm															
Nominal panel thickness (mm)	Thermal transmissio (W/m²K)	Panel weight (Kg/m²)	Maximum flexion = 1/200L Uniformly distributed load												
			Kg/m²	▲ ▲					▲ ▲ ▲						
				80	100	150	200	250	80	100	150	200	250		
30	0.79	9.51	Maximum distance (cm)	280	253	210	183	164	375	338	280	244	220		
40	0.60	9.91		324	293	242	211	190	433	391	324	283	254		
50	0.48	10.31		365	330	273	239	214	487	441	365	319	287		
60	0.41	10.71		403	365	303	264	237	539	488	404	353	317		
80	0.31	11.43		474	429	356	311	280	633	573	476	416	374		
100	0.25	12.21		536	486	404	353	317	717	649	540	472	424		

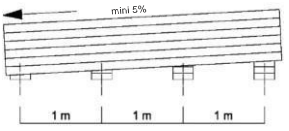
Accessories recommended:

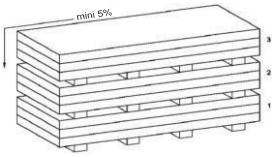
	PPA 1000 Polycarbonate panel 1000x30		VED.004 Top
	AC.005 Thermopanel gaskets		VNT.003 Skylight Ventilation
	AC.006 Thermopanel gaskets		VNT.006 Ventilation Skylight with Motor
	CR.003 Jagged Ridge		VNT.009 Skylight with opening for hot water heater
	VED.006 Sealing gasket for ridge		

Other recommendation:

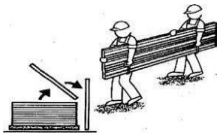
1. Storage:

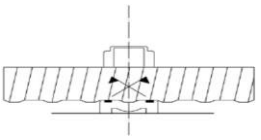


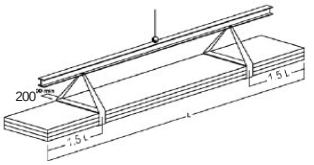


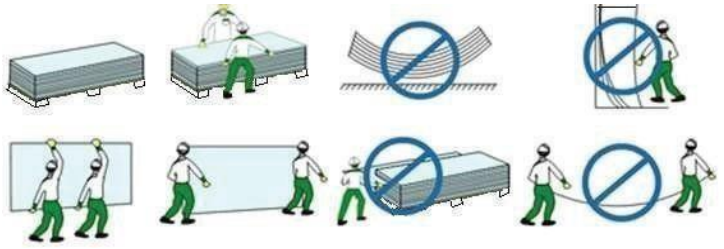


2. Panel application









3. Environmental recommendations

The isothermal panel is a product made up of two different materials: metal and polyurethane foam.

Due to the absence of really dangerous or toxic additives encapsulated in the polyurethane polymer, the foam is considered an inert material, presenting no risk to the environment.

At the end of the product's life, its components must be separated:

- The **plate** should be sent as scrap with the corresponding code **LER 20 01 40**.
- The **polyurethane** must be disposed of as waste insulation material whose code **LER 12 01 99**.
- The **packaging** used to pack the batch of Panels is all made of plastic materials such as stretch film and styrofoam, this packaging waste should be sent with the code **LER 15 01 02**.