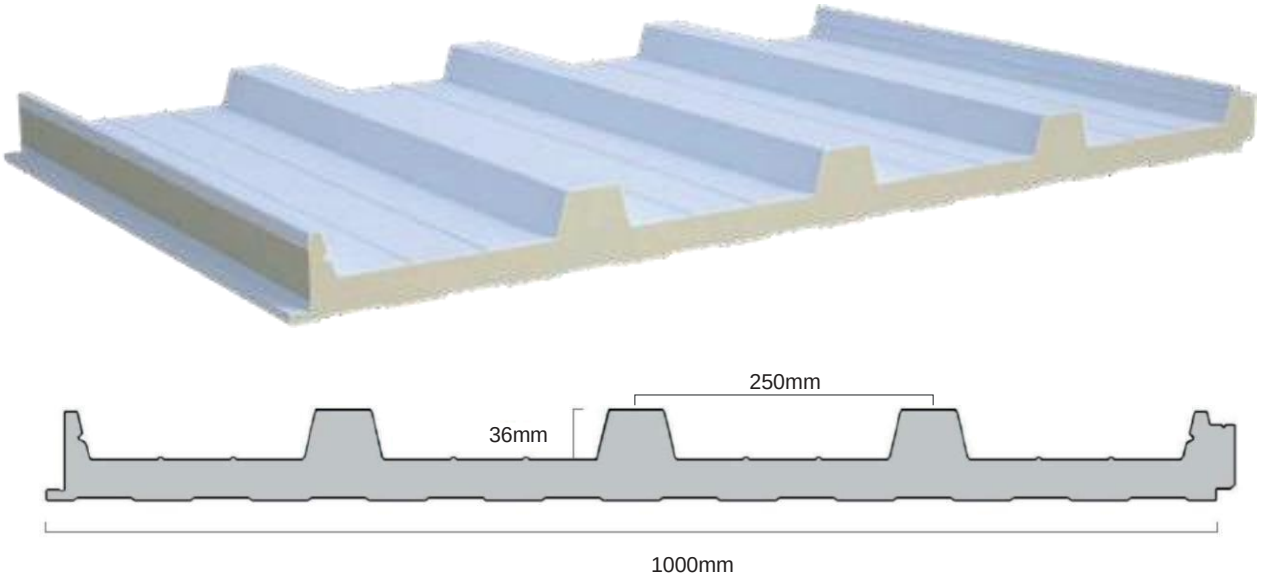
Product Data Sheet

Roof Panel with Joint Cover - TJ5 1000



CE

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

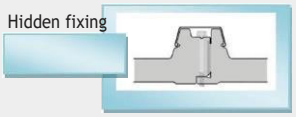
Designation: Isothermal panel for covering roofs with 5 waves and with joint cover (hidden fixing).

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. Guarantees absolute watertightness and protection of the fasteners.

Fixing is done with a self-tapping screw in the recess area (hidden fixing)

Dimensions



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

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 on foam panels PIR**)

** Panels in PIR:

Thickness (mm)	30	40	50	60 e 100
Maximum length (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 0169)
- 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
- 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

  • 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 transmission (W/m² K)	Panel weight (Kg/m²)	Maximum flexion = 1/200L Uniformly distributed load												
			Kg/m²	▲ ▲					▲ ▲ ▲						
				80	100	150	200	250	80	100	150	200	250		
30	0.75	7.78	Maximum distance (cm)	294	266	220	192	172	393	356	294	257	231		
40	0.57	8.18		330	299	247	216	194	442	399	331	289	259		
50	0.46	8.68		365	330	274	239	215	488	441	366	319	287		
60	0.39	8.98		398	360	299	261	234	532	481	399	348	313		
80	0.30	9.78		458	415	344	301	270	612	555	460	402	362		
100	0.24	10.58		513	464	386	337	303	685	621	516	451	405		

Sheet thickness 0,5 mm															
Nominal panel thickness (mm)	Thermal transmission (W/m^2K)	Panel weight (Kg/m^2)	Maximum flexion = 1/200L Uniformly distributed load												
			Kg/m²												
				80	100	150	200	250	80	100	150	200	250
30	0.75	9.98	Maximum distance (cm)	317	296	274	247	215	430	399	367	330	288
40	0.57	10.38		359	335	308	278	342	487	448	412	371	324
50	0.46	10.78		400	370	341	307	268	543	495	455	411	358
60	0.39	11.18		439	404	372	335	292	596	540	497	448	391
80	0.30	11.89		514	466	429	387	338	688	623	573	517	451
100	0.24	12.67		576	521	480	433	379	769	697	642	579	506

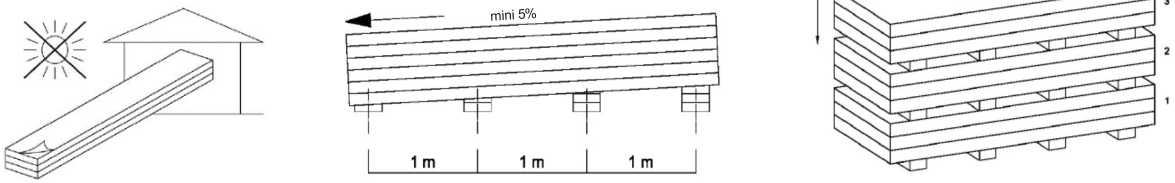
Sheet thickness 0,5/0,4 mm															
Nominal panel thickness (mm)	Thermal transmission (W/m^2K)	Panel weight (Kg/m^2)	Maximum flexion = 1/200L Uniformly distributed load												
			Kg/m²												
				80	100	150	200	250	80	100	150	200	250
30	0.75	9.15	Maximum distance (cm)	306	281	247	220	194	412	378	331	294	260
40	0.57	9.55		345	317	278	247	218	465	424	372	330	292
50	0.46	9.95		383	350	308	273	242	516	468	411	365	323
60	0.39	10.35		419	382	336	298	263	564	511	448	398	352
80	0.30	11.06		486	441	387	344	304	650	589	517	460	407
100	0.24	11.84		545	493	433	385	341	727	659	579	515	456

Recommended accessories:

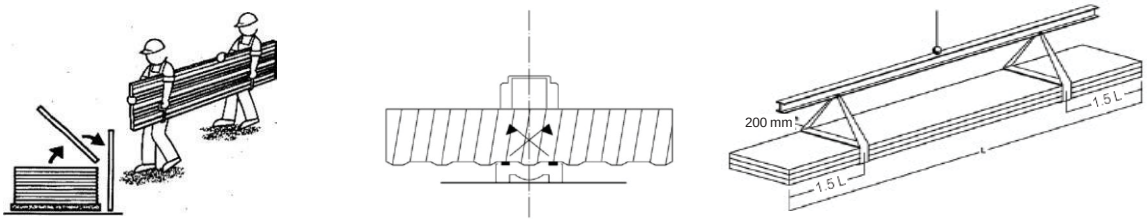
	PPA 1000 Polycarbonate panel 1000x30		AC.004 Thermopanel gaskets
	Cut-out ridge		Top

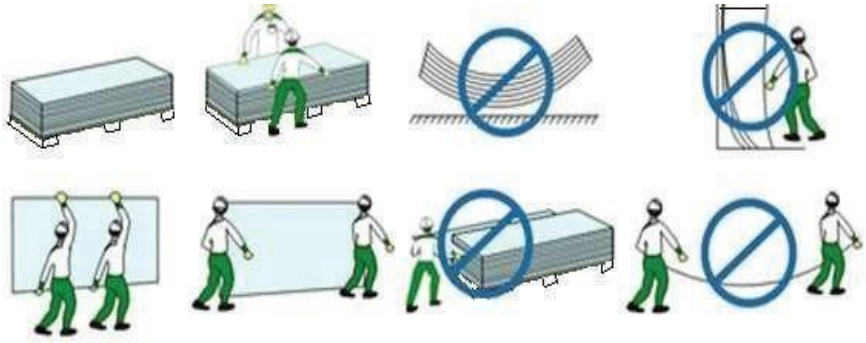
Other recommendations:

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**.