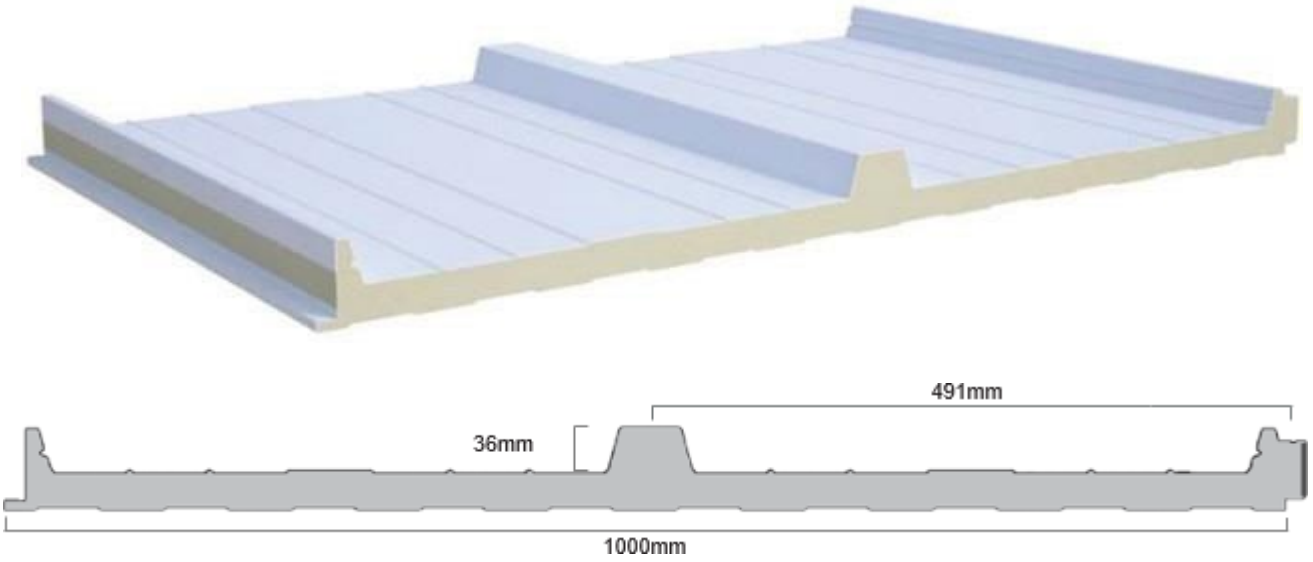
Product Data Sheet

Roof Panel with Joint Cover - TJ3



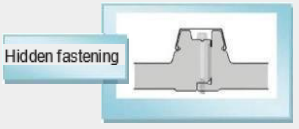
This product meets the requirements of Regulation (EU) No 305/2011 of the European Parliament and of the Council laying down harmonized conditions for the marketing of construction products and complies with Annex ZA of Standard EN 14509:2013.

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

Designation: Isothermal panel for covering roofs with 3 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 fixing elements.
Fixing is done with a self-drilling screw in the recess area (hidden fixing).

Dimensions



Thickness: 30, 40, 50, 60, 80 e 100 mm
Measurements according to 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 em 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 10169)
- Rolled, pre-treated and lacquered aluminum alloy. On request

Note: sheet thickness subject to consultation.

Revestimento:

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

Núcleo Isolante

- 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

• Average 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

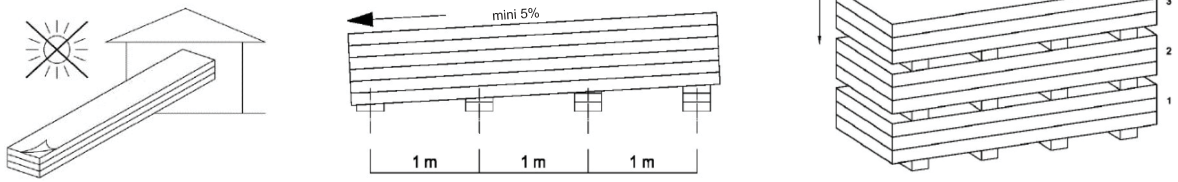
Sheet thickness 0,4 mm											
Nominal panel thickness (mm)	Thermal transmission (W/m²K)	Panel weight (Kg/m²)	Maximum flexion = 1/200L Uniformly distributed load									
			Kg/m²	▲ ▲					▲ ▲ ▲			
				80	100	150	200	250	80	100	150	200	250
30	0.79	7.55	Maximum distance (cm)	252	228	189	165	148	337	305	252	220	198
40	0.60	7.95		292	264	218	191	171	390	352	292	255	229
50	0.48	8.35		329	297	246	215	193	439	397	329	287	258
60	0.41	8.75		363	329	273	238	214	466	439	364	318	286
80	0.31	9.55		426	386	320	280	251	570	516	428	374	336
100	0.25	10.35		482	437	363	317	285	644	584	485	424	381

Recommended accessories:

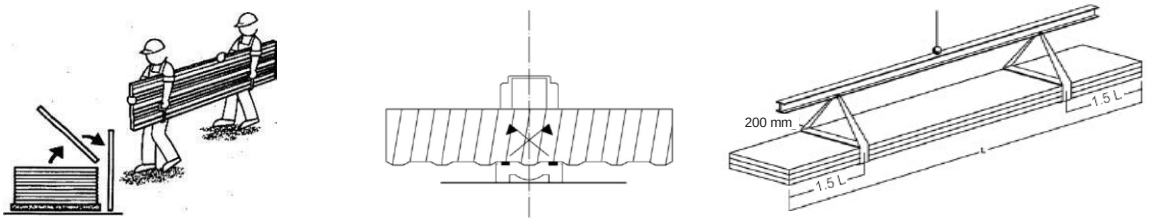
	PPA 1000 Polycarbonate panel 1000x30		Top
	AC.004 Thermopanel gaskets		Cut-out ridge

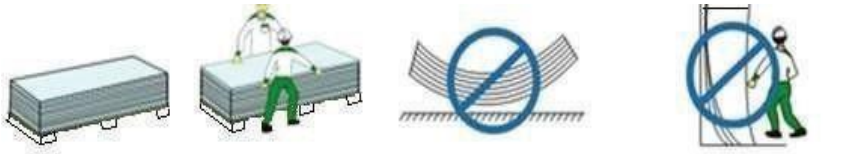
Other recommendations:

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**.