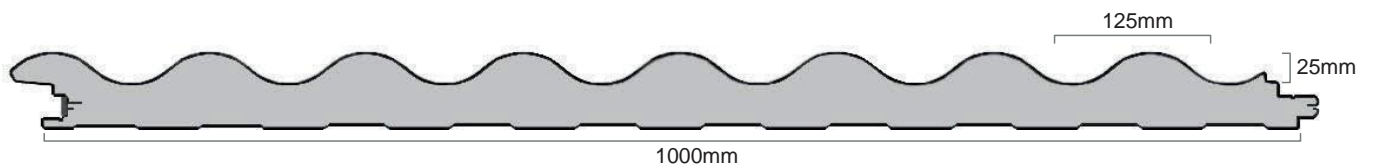


Product Data Sheet

Corrugated Facade Panel – PO 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: 65 - 100

Designation

PO 1000 Isothermal corrugated facade panel with concealed fixing

Application

Panel designed for cladding exterior facades. Can be applied vertically or horizontally. Its hidden fastening system protects the fasteners and gives it an aesthetically pleasing visual appearance.

Description

It consists of two profiled steel sheets interconnected by rigid polyurethane foam insulation (PUR B3, PUR B2) or polyisocyanurate (PIR), providing excellent mechanical behavior and the highest thermal insulation. The wavy surface design provides an innovative solution for architectural façades.

It is produced with a useful width of 1000 mm and a corrugated outer surface. It fits laterally with other panels to cover an area.

Fastening is done with a self-tapping screw in the recess area



Dimensions

- Thickness:** 65 e 100mm
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: 4.000 mm
 Maximum: 12.500 mm (Exceto em painel com espuma PIR**)
 ** PIR panels: Maximum: 7.000 mm
 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).
 Note: sheet thickness subject to consultation.

- Coating:** - *Standard:* primer 5 µm + polyester paint 20 µm
 - For special applications: PVDF, HDX 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 support) > 0.018 MPa Compressive strength at 10% deformation > 0.100 MPa

Characteristics:

Sheet thickness 0,40 mm													
Nominal panel thickness (mm)	Thermal conductivity (W/m ² K)	Panel weight (Kg/m ²)	Kg/m ²	Maximum flexion = 1/200L Uniformly distributed load									
				▲ ▲					▲ ▲ ▲				
				80	100	150	200	250	80	100	150	200	250
65	0.50	8.89	Distance maximum (cm)	403	377	313	273	345	547	504	418	365	328
100	0.29	10.40		532	482	400	350	315	711	644	535	468	421

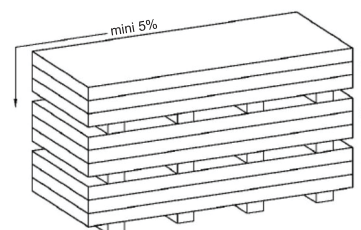
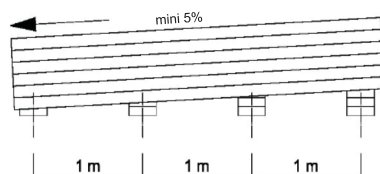
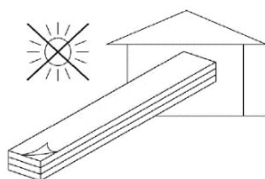
Sheet thickness 0,50 mm													
Nominal panel thickness (mm)	Thermal conductivity (W/m ² K)	Panel weight (Kg/m ²)	Kg/m ²	Maximum flexion = 1/200L Uniformly distributed load									
				▲ ▲					▲ ▲ ▲				
				80	100	150	200	250	80	100	150	200	250
65	0.55	10.70	Distance maximum (cm)	435	407	351	306	275	591	553	469	410	368
100	0.29	12.21		582	541	450	393	353	790	723	601	525	472

Accessories recommended:

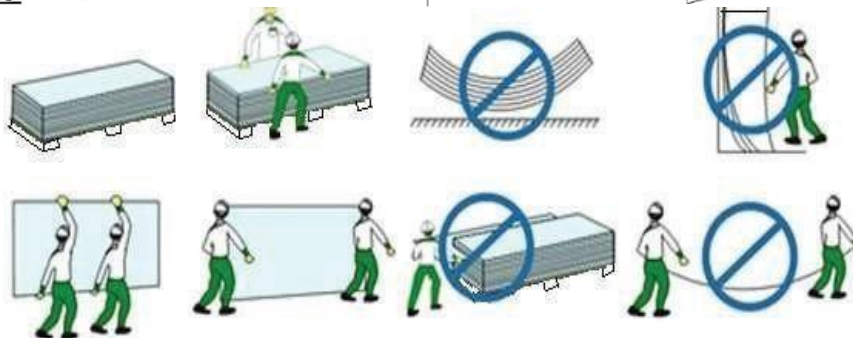
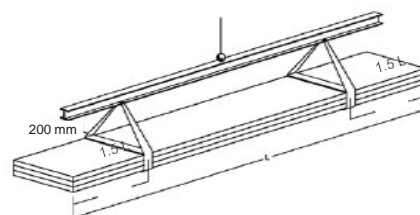
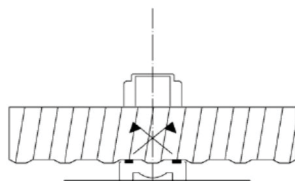
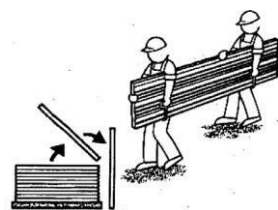
	P.005 Initial support piece
	AC.007 Middle profile 60mm
	AC.008 Corner profile 60mm
	VED.007 Side seal

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**.