

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



THIS PRODUCT MEETS THE REQUIREMENTS OF REGULATION (EU) N.º 305/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL LAYING DOWN HARMONISED CONDITIONS FOR THE MARKETING OF THE CONSTRUCTION PRODUCTS AND ARE IN ACCORDANCE WITH ANNEX ZA of EN 14509:2013

Designation:

Insulating Panel roof covering with 5 waves

Description:

It consists of an assembly of two profiled steel sheets interconnected by isolation of rigid polyurethane foam (PUR or PIR) to form a panel with width of 1000 mm. Fits laterally with other panels so as to cover a surface.

The fixation screw is made self-piercing zone fitting (concealed fixing)



Dimensions:

thickness:

30, 40, 50, 60, 80 e 100 mm
With a tolerance of ± 2 mm.

Width:

1000 mm
With a tolerance of ± 2 mm

Length:

According to customer request and subject to the following limits
Minimum: 4.000 mm*

Maximum: 15.000 mm* (Except in PIR foam panel **)

** PIR foam Panel:

thickness (mm)	30	40	50	60 a 100
Maximum length (mm)	9.000	10.000	11.000	12.000

With a tolerance of ± 10 mm.

* On request for other measures

Materials

METAL FACING - Galvanized steel (EN 508; EN 10143), galvanized (EN 10346) and pre-painted (EN 10169)

Note: Thickness subject to consultation

COATING - Standard: primary 5 µm + polyester 20 µm
- For special application: PVDF, HDX⁽¹⁾

INSULATING CORE

- Rigid polyurethane – PUR B3, without fire reaction class: PND⁽²⁾
- Rigid polyurethane – PUR B2, with fire reaction class: B s₂ d₀⁽³⁾
- Rigid polysocianurate foam – PIR, with fire reaction class: B s₁ d₀⁽³⁾
 - Foam CFC and HCFC free
 - thermal Conductivity λ=0.025 W/mK
 - Density = 40 kg/m³ ±10%
- mechanical characteristics:
 - tensile strength > 0.018 MPa
 - compressive strength > 0.100 MPa

⁽¹⁾ Subject to consultation

⁽²⁾ PND – Parameter not determined

⁽³⁾ Steel plates with a minimum thickness of 0.40 mm

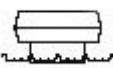
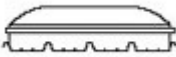
Characteristics:

Thickness of sheet steel 0,4 mm													
Panel Thickness (mm)	Thermal Conductivity (W/m²K)	Panel weight (Kg/m²)	Flexion máx. = 1/200L Uniformly distributed charge										
													
			Kg/m²	80	100	150	200	250	80	100	150	200	250
30	0.75	7.80	Maximum distance (cm)	285	257	213	186	167	380	344	285	248	223
40	0.57	8.20		321	290	240	210	188	429	388	321	280	252
50	0.46	8.60		356	322	267	233	209	475	430	356	311	279
60	0.39	8.90		389	352	292	255	229	520	470	390	340	306
80	0.30	9.71		449	407	338	295	265	601	544	452	394	355
100	0.24	10.49		504	457	380	332	298	674	611	508	444	399

Thickness of sheet steel 0,5 mm													
Panel Thickness (mm)	Panel Thickness (mm)	Panel Thickness (mm)	Flexion máx. = 1/200L Uniformly distributed charge										
													
			Kg/m²	80	100	150	200	250	80	100	150	200	250
30	0.75	9.98	Distância máxima (cm)	314	288	265	239	208	187	426	386	354	319
40	0.57	10.38		356	325	299	270	235	211	481	435	400	360
50	0.46	10.78		396	361	332	299	261	235	534	483	444	400
60	0.39	11.18		436	395	363	327	286	257	583	528	485	438
80	0.30	11.88		505	457	421	379	331	298	674	611	562	507
100	0.24	12.67		566	513	472	426	373	335	757	686	631	570

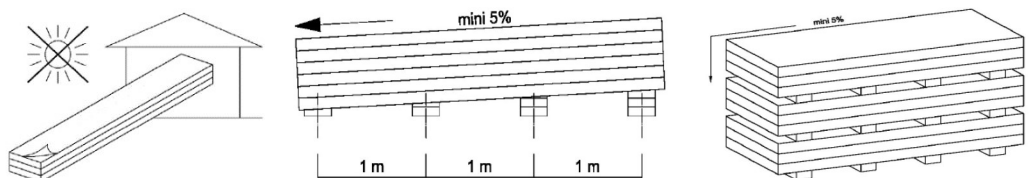
Panel for ROOF PC5 1000

Recommended Accessories:

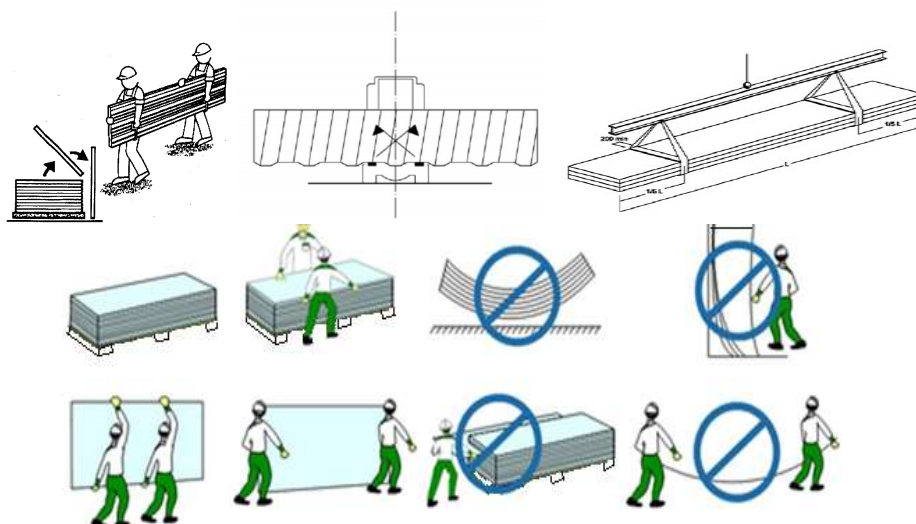
	PPA 1000 Painel Policarbonato 1000x30		VED.004 Topo
	AC.005 Tapa-juntas para Thermopainel		VNT.003 Claraboia Ventilação
	AC.006 Tapa-juntas para Thermopainel		VNT.006 Claraboia Ventilação c/ Motor
	CR.003 Cume Recortado		VNT.009 Claraboia c/ Abertura p/ Termofusível
	VED.006 Junta Vedação p/ Cume		

Other recommendations

1. Storage:



2. Panel handling



Environmental Recommendations

The insulated panel is a product composed of two distinct materials: metal and polyurethane foam.

Due to the absence of truly hazardous or toxic additives encapsulated in the polyurethane polymer, the foam is considered an inert material, posing no risk to the environment.

At the end of the product's life cycle, its components should be separated and disposed of as construction and demolition waste:

- The sheet metal should be disposed of as steel waste.
- The polyurethane should be disposed of as insulation material waste.

The packaging used to hold the panel and the batch of panels is made entirely of plastic materials:

- Primary packaging: self-adhesive protective plastic film that protects the panel during handling;
- Secondary packaging: stretch plastic film, Styrofoam, and polyurethane sheets that enclose the batch of panels and facilitate bulk handling of the panels.

Illustrative images of the PC5 1000 panel

