

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 3 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

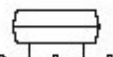
Characteristics:

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	0.79	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

Thickness of sheet steel 0,5 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	0.79	7.55	Maximum distance (cm)	280	253	210	183	164	375	338	280	244	220
40	0.60	7.95		324	293	242	211	190	433	391	324	283	254
50	0.48	8.35		365	330	273	239	214	487	441	365	319	287
60	0.41	8.75		403	365	303	264	237	539	488	404	353	317
80	0.31	9.55		474	429	356	311	280	633	573	476	416	374
100	0.25	10.35		478	433	360	314	283	638	578	481	420	378

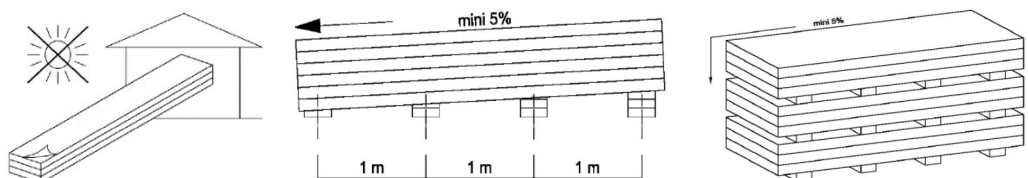
Panel for ROOF PC3 1000

Recommended Accessories:

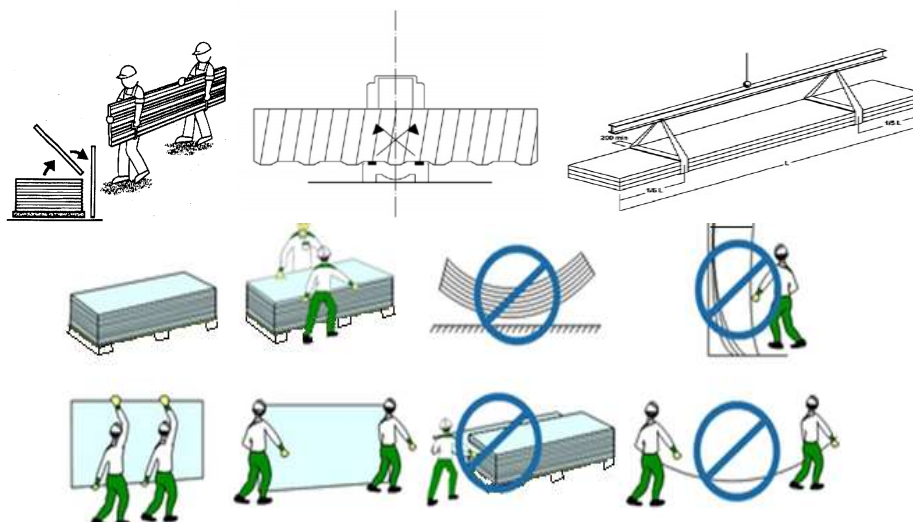
	PPA 1000 Painel Policarbonato 1000x30		VED.003 Topo
	AC.005 Tapa-juntas para Thermopainel		VNT.002 Claraboia Ventilação
	AC.006 Tapa-juntas para Thermopainel		VNT.005 Claraboia Ventilação c/ Motor
	CR.003 Cume Recortado		VNT.008 Claraboia c/ Abertura p/ Termofusível
	VED.005 Junta Vedação p/ Cume		

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 PC3 1000 panel

