

SPECIFICATION SHEET

NOVEMBER 1ST 2023

PRODUCT REFERENCE

Insulated Roof Panel PIR 30mm







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GENERAL DATA

PRODUCT CODE

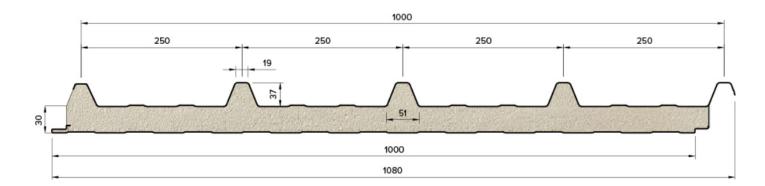
- Roof Panel: Insulated Roof Panel PIR 30mm
- Code: METPOLINS3003075, METPOLINS3004075, METPOLINS3005075, METPOLINS3006075, METPOLINS3007075

DETAILS OF CLASSIFIED PRODUCT

Nature and end use application

The product **INSULATED ROOF PANEL PIR 30MM** is defined as a <u>self-supporting double skin metal faced insulating</u> panel. Its classification is valid for the following end use application(s):

- Wall Without non combustible substrate
- Ceiling- Without non combustible substrate



TECHNICAL DATA	VALUE
Overall width	1080mm
Cover width	1000mm
Corrugation pitch	250mm
Depth of profile	37mm
Side lap	1 rib
Minimum end lap	75mm
Minimum roof pitch	4 Dg
Approx weight when installed	7.42 Kg/m ²
Maximum purlin spaces	1880mm
Cutback	75mm







CHARACTERISTICS

ELEMENT	THICKNESS	REFERENCE STANDARD
Topside metal facing	0.40mm	EN 14509
Insulation core	30mm	EN 14509
Underside liner	0.40mm	EN 14509

INSULATION TABLE

INSULATION THICKNESS	CORE TYPE	WEIGHT	DENSITY	U-VALUE	RW	THERMAL RESISTANCE R
30mm	Polyisocyanurate PIR	7.42 Kg/m ²	40±5 kg/m3	0.71 W/m ² K	23.0 dB	1.41 m ² K/W

CHARACTERISTICS TABLE

ELEMENT	VALUE
Density (with skin)	40 Kg/m ³
Density (without skin)	36-38 Kg/m ³
Thermal transmittance	0.71W/m ² K
Thermal conductivity	λ = 0.023 W/mK
Reaction to fire	B-s2,d0
Fire resistance	Broof T2-T3
Water permeability	NPD
Permeability to water vapour	Impermeabile
Air permeability	NPD
Noise insulation	NPD
Tensile strength	0.064 N/mm ²
Tensile elasticity	1.311 N/mm ²
Compressive strength	0.099 N/mm ²
Compressive elasticity	1.176 N/mm ²
Shear strength	0.086 N/mm ²
Shear module	2.961 N/mm ²
Tension of compression for profiled façade	238.5 N/mm ²
Tension of wrinkle for continuous panel	56.11 N/mm ²
Adhesion value	1 Kg/cm ²
Water absorption	≥ 95%
Operating temperature	from -40°C to +80°C







CLASSIFICATION AND DIRECT FIELD OF APPLICATION

REFERENCE AND DIRECT FIELD OF APPLICATION

This classification has been carried out in accordance with clause 8.2 of EN 13501-1:2009

CLASSIFICATION

- The Briarwood Insulated Panels with the 30mm and 80mm insulation core thickness in relation to its fire reaction behaviour is classified as B.
- The additional classification in relation to smoke production is s2.
- The additional classification in relation to flaming droplets/particles is **d0**.

The format of the reaction to fire classification for construction products except flooring is:

FIRE BEHAVIOUR		SMOKE PR	SMOKE PRODUCTION			FLAMING DROPLETS	
В	-	s	2	-	d	0	

FIELD OF APPLICATION

This classification is valid for the following end use conditions:

- Equal or more than 30mm thick
- Metal skin thickness from 0.4mm or more
- Cut edges protected or not protected with steel flashings
- With or without joints
- Fixing each 400mm or less
- Core density 40 kg/m3 ±15%







REFERENCE STANDARDS

FIRE CLASSIFICATIONS

- BS EN 13501-1: Fire classification of construction products and building elements
- EN ISO I 1925-2: Reaction to fire rests for building products
- **BS EN 13823**: Reaction to fire tests for building products excluding floorings exposed to the thermal attack by a single burning item

TOLERANCES AND CALCULATIONS

• BS EN 14509:Factory-made double skin metal faced insulating sandwich panels



