

Panel with hollow reliefs

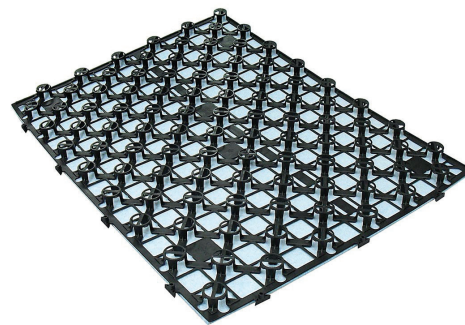
P107-P107A

Description

Panel with hollow reliefs in recycled plastic including elastic EPS of blue colour, in compliance with Standard EN 13163.

The hollow reliefs allow the surface screed to wrap the panel, thus calculating the thickness of the screed from the base of the insulating panel and making it sufficient a height above the panel of only 10 mm.

Created to meet the growing demand for reduced thickness underfloor heating systems.



Component coupling

The panel is made with the coupling of the following components:

1. Mesh printed in regenerated and loaded polypropylene - Size: 1200x800 mm – step of laying: 50 mm

Characteristics	Unit	Value	Technical regulation
Melt Index (MFR)	g/10'	8	ISO 1133
Density at 23°C	g/cm ³	1.1	ISO 1183
Flexural modulus	MPa	1200	ISO 178
Izod impact strength at 23°C	kJ/m ²	6	ISO 180
Vicat Softening Temperature	°C	>50°C	ISO 306

2. Sintered EPS 250 expanded polystyrene sheet in blue color

Physical properties

Characteristics	Code EN 13163	Technical regulation	Unit	Value
Insulating base thickness	-	-	mm.	10
Knob height	-	-	mm.	22
Total panel height	-	-	mm.	32
Pipe laying pitch	-	-	mm.	50
Thermal conductivity	λ_D	EN 12667	W/mK	0,032
Weighted thermal resistance	R_D	EN 12667	m ² K/W	0,31
Compressive strength for a deformation of 10%	CS(10)200	UNI EN 826	kPa	250
Reaction to fire	-	ISO 11925-2	EUROCLASSE	E
Water vapor transmission	-	UNI EN 13163:2013	μ	30-70

Dimensions

Panel dimensions	mm.	1200x800
Net panel surface		0,96 m ²
Pieces per package		8
m ² per package		7,68

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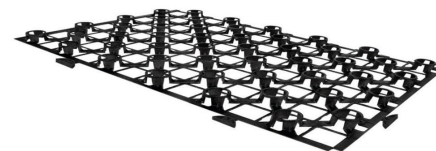
P107-P107A

/ Description

Lowered panel with hollow reliefs in recycled plastic, no insulation, including an adhesive film for application on existing floor.

The hollow reliefs allow the surface screed to wrap the panel, thus calculating the thickness of the screed from the base of the insulating panel and making it sufficient a height above the panel of only 10 mm.

Created to meet the growing demand for reduced thickness underfloor heating systems.



/ Technical features

Mesh printed in regenerated and loaded polypropylene - Size: 1200x600 mm – step of laying: 50 mm

Characteristics	Unit	Value	Technical regulation
Melt Index (MFR)	g/10'	8	ISO 1133
Density at 23°C	g/cm ³	1.1	ISO 1183
Flexural modulus	MPa	1200	ISO 178
Izod impact strength at 23°C	kJ/m ²	6	ISO 180
Vicat Softening Temperature	°C	>50°C	ISO 306

Physical properties

Characteristics	Code EN 13163	Technical regulation	Unit	Value
No insulation	-	-	-	Adhesive base
Knob height	-	-	mm.	15
Pipe laying pitch	-	-	mm.	50

Dimensions

Panel dimensions	mm.	600x1200
Net panel surface		0,72 m ²
Pieces per package		22
m ² per package		15,84

/ Storage conditions

- Do not expose the panels to direct sunlight
- Store the panels in a dry and sheltered area at temperatures between 5 °C and 50 °C
- Keep the panels away from chemical agents
- Keep the panels away from open flames and heat sources

/ Installation

WARNING! Do not lay the product when worksite temperature is below -5 °C

1. Remove any dirt or liquid residues from the foundation.
2. Lay the wall edge strip
3. Lay the P107/P107A panel:
 - for P107 fit the panel to the smooth insulation previously laid by overlapping the panels for proper connection (use clips to fit the insulation panel if necessary).
 - for P107A remove the back film from the bottom plate, glue the panel to the foundation or existing floor by overlapping the side hooks to connect the panels.
4. Lay the pipes (ø16/17 for P107 and ø12 for P107A)
5. Carry out a pressure test.
6. Cast the self-leveling screed or sand and concrete based screed with the system pressurized
7. Complete the installation with the surface finish.

NOTE: Follow the supplier's instructions for self-leveling screeds.

/ Certifications

ATTENTION: The P105 panel is not certified CAM (Minimum Environmental Criteria).

To request the CAM certified panel, contact us at the following e-mail address: utecom@icmaspa.it