



Description

R981B preformed flat insulation panel for radiant floor systems. Made with expanded sinterized polystyrene (EPS), high density and self-extinguishing, combined to a protection layer made with shock-proof thermo-formed polyethylene. Pipe pitch preformed grid: 50x50 mm and 100x100 mm.

Versions and product codes

Product code	Panel total height [mm]	Package	
		N. of panels per sack	Useful surface per sack [m ²]
R981BY003	30	10	9,6
R981BY004	40	8	7,68
R981BY005	50	6	5,76
R981BY006	60	5	4,8



Warning.
Store in covered place, not expose to direct sunlight also after the installation, until laying the screed.

Technical data

- Dimensions: 1200x800 mm
- Useful surface: 0,96 m²
- Total height: 30, 40, 50 or 60 mm according to version
- Dimensions of preformed grid: 50x50 mm and 100x100 mm
- Density: > 30 kg/m³
- Thermal conductivity λ: 0,033 W/(m K)
- Thermal resistance:
 - R981Y003: 0,91 m² K/W
 - R981Y004: 1,21 m² K/W
 - R981Y005: 1,52 m² K/W
 - R981Y006: 1,82 m² K/W
- Min. compression resistance to 10 % crushing: ≥ 200 kPa
- Dynamic stiffness: SD40
- Reaction to fire: class E
- EPS-EN13163-L(3)-W(3)-T(2)-CS(10)200-WL(T)2-Z 40-100

Materials

- Panel: EPS200
- Protection layer: shock-proof thermo-formed polyethylene, thickness 0,15 mm

Installation

The panels are to be installed side by side using the side grooves to fit them. The pipes are fitted to the insulation panel to create the radiant floor circuits by using the K389 or K389W pipe-fitting rails or the R983Y001, R983Y500 fitting clips together with the R863 clip-fitting pistol.

Reference standards

- UNI EN 1264 Floor heating systems
- EN 13163 Thermal insulation products for buildings – Factory made products of expanded polystyrene (EPS) – Specification
- UNI EN 12354-2 Construction acoustics – Evaluation of building acoustic performance based on the product performance – Trampling acoustic insulation

Product specifications

R981BY003

Preformed flat insulation panel for radiant floor systems. Made with expanded sinterized polystyrene (EPS200), high density and self-extinguishing, combined to a protection layer made with shock-proof thermo-formed polyethylene. Pipe pitch preformed grid: 50x50 mm and 100x100 mm. Dimensions: 1200x800 mm. Useful surface: 0,96 m². Total height: 30 mm. Density: > 30 kg/m³. Thermal conductivity: 0,033 W/(m K). Thermal resistance: 0,91 m² K/W. Min. compression resistance to 10 % crushing: ≥ 200 kPa. Dynamic stiffness: SD40.

R981BY004

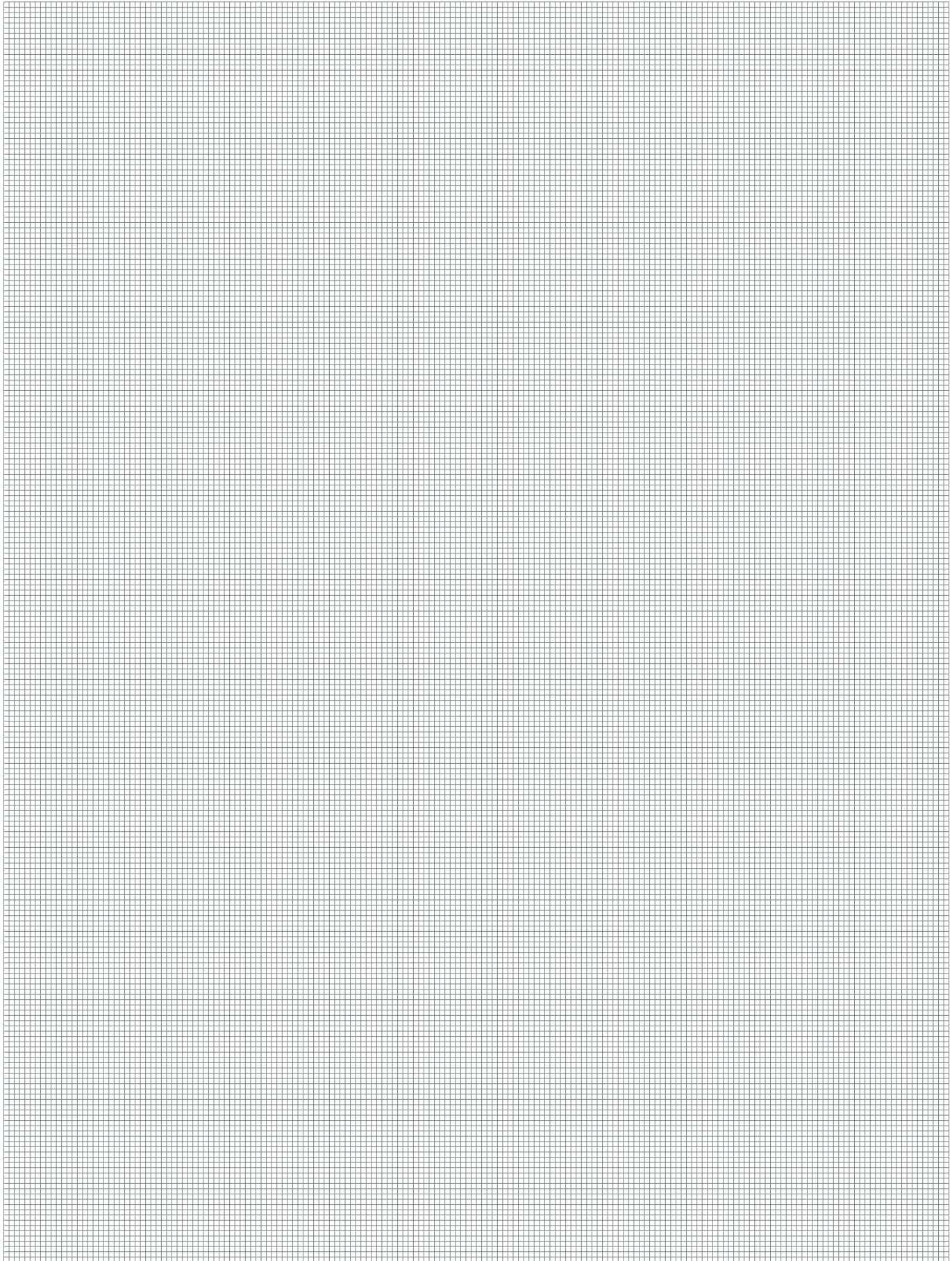
Preformed flat insulation panel for radiant floor systems. Made with expanded sinterized polystyrene (EPS200), high density and self-extinguishing, combined to a protection layer made with shock-proof thermo-formed polyethylene. Pipe pitch preformed grid: 50x50 mm and 100x100 mm. Dimensions: 1200x800 mm. Useful surface: 0,96 m². Total height: 40 mm. Density: > 30 kg/m³. Thermal conductivity: 0,033 W/(m K). Thermal resistance: 1,21 m² K/W. Min. compression resistance to 10 % crushing: ≥ 200 kPa. Dynamic stiffness: SD40.

R981BY005

Preformed flat insulation panel for radiant floor systems. Made with expanded sinterized polystyrene (EPS200), high density and self-extinguishing, combined to a protection layer made with shock-proof thermo-formed polyethylene. Pipe pitch preformed grid: 50x50 mm and 100x100 mm. Dimensions: 1200x800 mm. Useful surface: 0,96 m². Total height: 50 mm. Density: > 30 kg/m³. Thermal conductivity: 0,033 W/(m K). Thermal resistance: 1,52 m² K/W. Min. compression resistance to 10 % crushing: ≥ 200 kPa. Dynamic stiffness: SD40.

R981BY006

Preformed flat insulation panel for radiant floor systems. Made with expanded sinterized polystyrene (EPS200), high density and self-extinguishing, combined to a protection layer made with shock-proof thermo-formed polyethylene. Pipe pitch preformed grid: 50x50 mm and 100x100 mm. Dimensions: 1200x800 mm. Useful surface: 0,96 m². Total height: 60 mm. Density: > 30 kg/m³. Thermal conductivity: 0,033 W/(m K). Thermal resistance: 1,82 m² K/W. Min. compression resistance to 10 % crushing: ≥ 200 kPa. Dynamic stiffness: SD40.



Additional information

For additional information please check the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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