

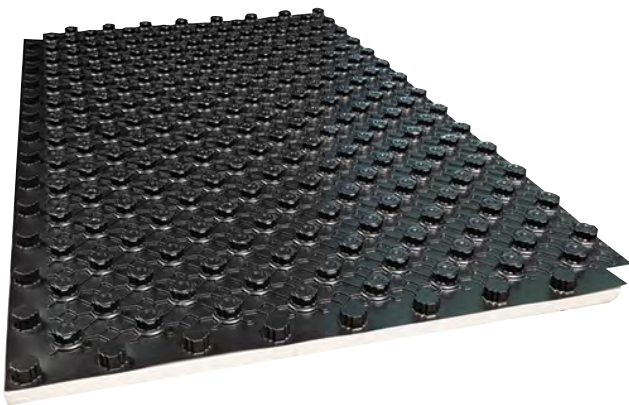
R979BY923/925



Radiant
Systems

Thermoformed insulation panel made of EPS, for radiant floor systems

Datasheet
1098EN 07/2022



Thermoformed insulation panel R979B for radiant floor systems. Consisting of expanded polystyrene foam (EPS) with black thermoformed polystyrene protection layer.

➤ Versions and product codes

PRODUCT CODE	SIZE [mm] T=pitch - h=height	N. OF SHEETS	TOTAL USEFUL SURFACE [m ²]
R979BY923	T50 - h33	13	14,56
R979BY925	T50 - h52	7	14,8

Technical data

Stocking conditions

- The panels must not be exposed to direct sunlight
- Stocking must be carried out in a dry and protected area, at temperatures above 5 °C and below 50 °C
- Keep the panels away from chemical agents
- Keep the panels away from open flames and heat sources

▲ WARNING. Do not expose to direct sunlight, even after installation, up to screed casting.

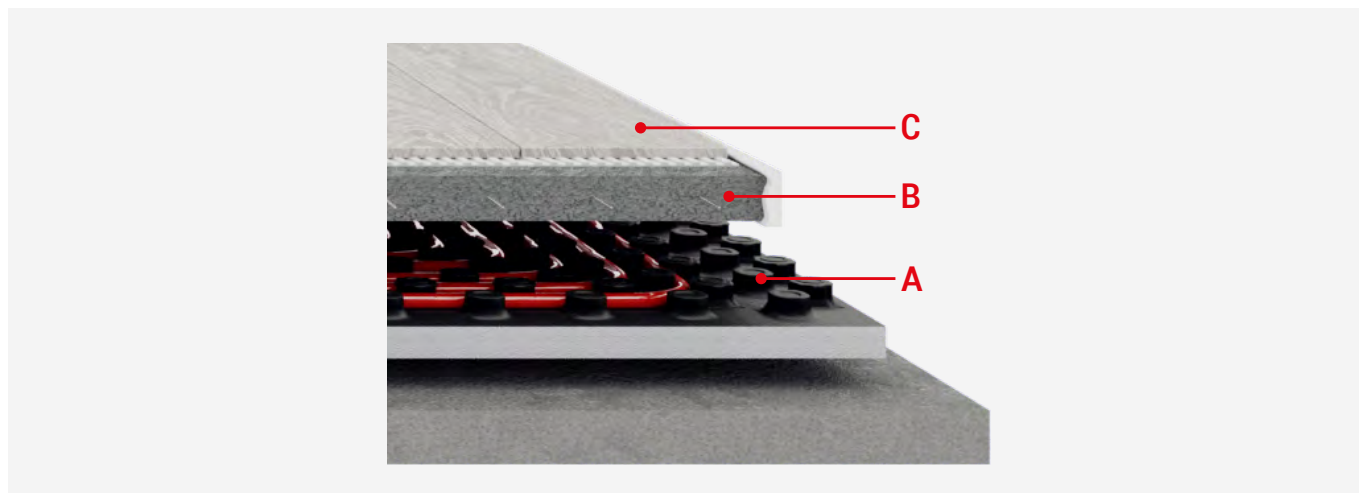
R979BY923

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m ²
Panel dimensions	1450 x 850 mm
Panel surface	1,23 m ²
Total thickness	33 mm sheet: 11 mm + protrusion: 22 mm
Pipe diameter	14÷18 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Expanded polystyrene EPS150
Thermal conductivity, λ_D	0,035 W/(m K)
Thermal resistance, R_λ Complyng EN1264-3 ($R_{ISO} = S_{SD}/\lambda_{ISO}$)	0,30 m ² K/W
Min. resistance to 10% crushing	150 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN 13163-L(3)-W(3)-T(2)-S(5)-P(10)-BS250-CS(10)150-DS(N)5
PROTECTION LAYER	
Material	Thermo-formed polystyrene
Thickness	0,6 mm
Film color	Black

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INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m ²
Panel dimensions	1450 x 850 mm
Panel surface	1,23 m ²
Total thickness	52 mm sheet: 30 mm + protrusion: 22 mm
Pipe diameter	14÷18 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Expanded polystyrene EPS120
Thermal conductivity, λ_D	0,036 W/(m K)
Thermal resistance, R_λ Complyng EN1264-3 ($R_{ISO} = S_{SD}/\lambda_{ISO}$)	0,80 m ² K/W
Min. resistance to 10% crushing	120 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN 13163-L(3)-W(3)-T(2)-S(5)-P(10)-BS250-CS(10)120-DS(N)5
PROTECTION LAYER	
Material	Thermo-formed polystyrene
Thickness	0,6 mm
Film color	Black

➤ Components and dimensions



PRODUCT CODE	PANEL "A" TOTAL HEIGHT [mm]	INSULATION/PROTRUSION HEIGHT [mm]	SCREED "B" MINIMUM HEIGHT [mm]	"A+B" MINIMUM HEIGHT COATING "C" EXCLUDED" [mm]
R979BY923	33	11/22	30	63
R979BY925	52	30/22	30	82

➤ Reference standards

- EN 1264: Floor heating – Systems and components.
- EN 13163: Thermal insulation products for buildings – Factory made products of expanded polystyrene (EPS).


Product specifications


R979BY923


Thermoformed insulation panel for radiant floor systems. Color black. Height 33 mm (insulation sheet 11 mm, protrusion 22 mm). Consisting of expanded polystyrene insulation sheet (EPS150) and 0,6 mm polystyrene protection layer. For Ø 14÷18 mm pipes. Laying center distance: multiples of 50 mm. Dimensions: 1450x850 mm (useful dimensions: 1400x800 mm). Panel useful surface 1,12 m². Thermal conductivity 0,035 W/(m K). Thermal resistance ($R = s/\lambda$) 0,30 m²K/W. Min. resistance to 10 % crushing, 150 kPa. Resistance to fire: class E.


R979BY925

Thermoformed insulation panel for radiant floor systems. Color black. Height 52 mm (insulation sheet 30 mm, protrusion 22 mm). Consisting of expanded polystyrene insulation sheet (EPS120) and 0,6 mm polystyrene protection layer. For Ø 14÷18 mm pipes. Laying center distance: multiples of 50 mm. Dimensions: 1450x850 mm (useful dimensions: 1400x800 mm). Panel useful surface 1,12 m². Thermal conductivity 0,036 W/(m K). Thermal resistance ($R = s/\lambda$) 0,80 m²K/W. Min. resistance to 10 % crushing, 120 kPa. Resistance to fire: class E.

 **Safety Warning.** Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

 **Package Disposal.** Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

 **Additional information.** For more information, go to giacomini.com or contact our technical assistance service. This document provides only general indications. Giacomini S.p.A. may change at any time, without notice and for technical or commercial reasons, the items included herewith. The information included in this technical sheet do not exempt the user from strictly complying with the rules and good practice standards in force.

 **Product Disposal.** Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.