

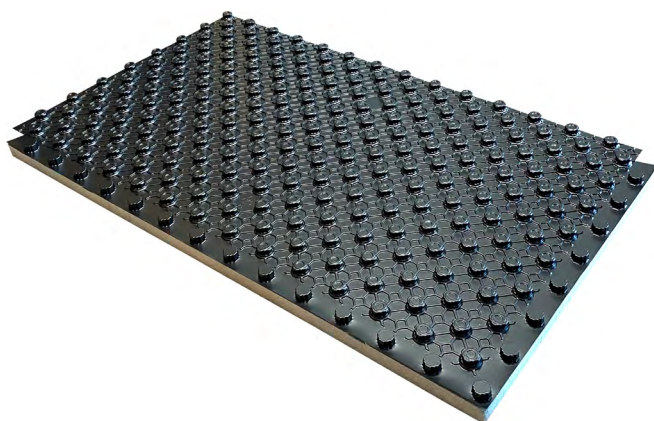
# R979GY903/904/905/906/907



Radiant  
Systems

## Thermoformed insulation panel made of EPS with graphite, for radiant floor systems

Datasheet  
1095EN 09/2022



Thermoformed insulation panel R979G for radiant floor systems. Consisting of expanded polystyrene foam (EPS) with graphite and black thermoformed polystyrene protection layer. The combination of these two elements and their intrinsic characteristics provide a panel with a resistance to trampling deformation much greater than traditional thermoformed insulation panels.

### ➤ Versions and product codes

PRODUCT CODE	SIZE [mm] T=pitch - h=height	N. OF SHEETS	TOTAL USEFUL SURFACE [m²]
R979GY903	T50 - h31	24	26,88
R979GY904	T50 - h41	16	17,92
R979GY905	T50 - h51	12	13,44
R979GY906	T50 - h61	10	11,2
R979GY907	T50 - h71	8	8,96

## 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.

### R979GY903

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m <sup>2</sup>
Panel dimensions	1450 x 850 mm
Panel surface	1,23 m <sup>2</sup>
Total thickness	31 mm sheet: 10 mm + protrusion: 21 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Expanded polystyrene EPS200 with graphite
Thermal conductivity, $\lambda_D$	0,03 W/(m K)
Thermal resistance, $R_\lambda$ Complyng EN1264-3 ( $R_{150} = s_{50}/\lambda_{150}$ )	0,33 m <sup>2</sup> K/W
Min. resistance to 10% crushing	200 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-L(3)-W(3)-T(2)-CS(10)200-WL(T)2-Z40-100
PROTECTION LAYER	
Material	Thermo-formed polystyrene
Thickness	0,6 mm
Film color	Black

### R979GY904

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m <sup>2</sup>
Panel dimensions	1450 x 850 mm
Panel surface	1,23 m <sup>2</sup>
Total thickness	41 mm sheet: 20 mm + protrusion: 21 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Expanded polystyrene EPS150 with graphite
Thermal conductivity, $\lambda_D$	0,03 W/(m K)
Thermal resistance, $R_\lambda$ Complyng EN1264-3 ( $R_{150} = s_{50}/\lambda_{150}$ )	0,67 m <sup>2</sup> K/W
Min. resistance to 10% crushing	150 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-L(3)-W(3)-T(2)-CS(10)150-WL(T)2-Z40-100
PROTECTION LAYER	
Material	Thermo-formed polystyrene
Thickness	0,6 mm
Film color	Black

**R979GY905**

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m²
Panel dimensions	1450 x 850 mm
Panel surface	1,23 m²
Total thickness	51 mm sheet: 30 mm + protrusion: 21 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Expanded polystyrene EPS150 with graphite
Thermal conductivity, $\lambda_D$	0,03 W/(m K)
Thermal resistance, $R_\lambda$ Complyng EN1264-3 ( $R_{\lambda_{iso}} = s_{so}/\lambda_{iso}$ )	1,00 m²K/W
Min. resistance to 10% crushing	150 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-L(3)-W(3)-T(2)-CS(10)150-WL(T)2-Z40-100
PROTECTION LAYER	
Material	Thermo-formed polystyrene
Thickness	0,6 mm
Film color	Black

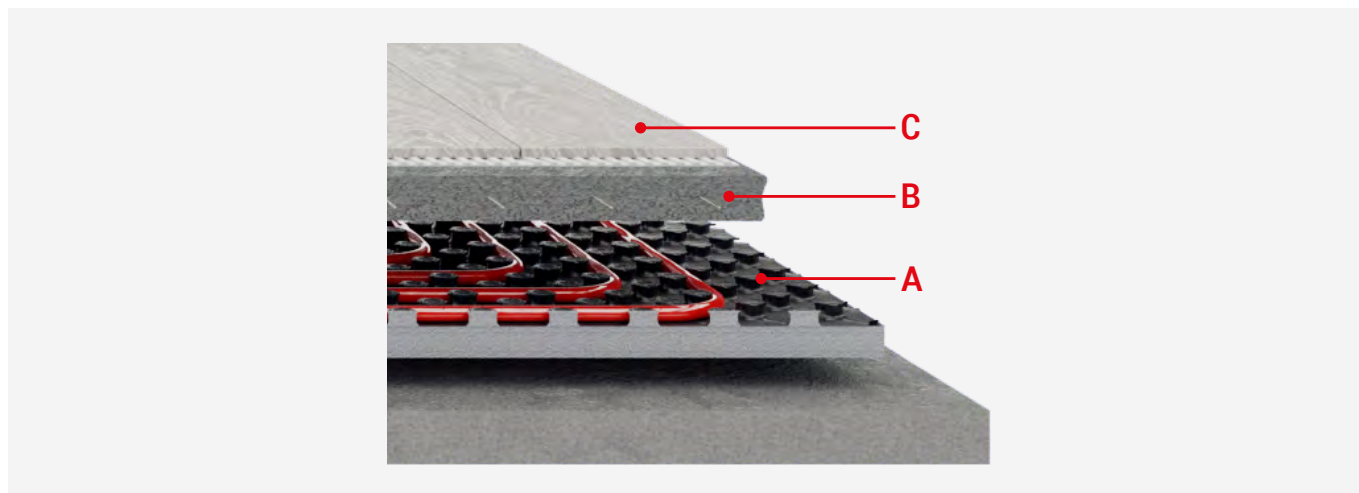
**R979GY906**

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m²
Panel dimensions	1450 x 850 mm
Panel surface	1,23 m²
Total thickness	61 mm sheet: 40 mm + protrusion: 21 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Expanded polystyrene EPS150 with graphite
Thermal conductivity, $\lambda_D$	0,03 W/(m K)
Thermal resistance, $R_\lambda$ Complyng EN1264-3 ( $R_{\lambda_{iso}} = s_{so}/\lambda_{iso}$ )	1,33 m²K/W
Min. resistance to 10% crushing	150 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-L(3)-W(3)-T(2)-CS(10)150-WL(T)2-Z40-100
PROTECTION LAYER	
Material	Thermo-formed polystyrene
Thickness	0,6 mm
Film color	Black

## R979GY907

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m²
Panel dimensions	1450 x 850 mm
Panel surface	1,23 m²
Total thickness	71 mm sheet: 50 mm + protrusion: 21 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Expanded polystyrene EPS150 with graphite
Thermal conductivity, $\lambda_D$	0,03 W/(m K)
Thermal resistance, $R_\lambda$ Complyng EN1264-3 ( $R_{\lambda} = s_{90} / \lambda_{90}$ )	1,65 m²K/W
Min. resistance to 10% crushing	150 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-L(3)-W(3)-T(2)-CS(10)150-WL(T)2-Z40-100
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]
R979GY903	31	10/21	30	61
R979GY904	41	20/21	30	71
R979GY905	51	30/21	30	81
R979GY906	61	40/21	30	91
R979GY907	71	50/21	30	101

## ➤ Reference standards

- EN 1264: Floor heating – Systems and components.
- EN 13163: Thermal insulation products for buildings – Factory made products of expanded polystyrene (EPS).
- EN 12354-2: Construction soundproofing – Evaluation of building soundproofing performance starting from performance of employed products - Trampling soundproofing between rooms.

## ➤ Product specifications

### R979GY903

Thermoformed insulation panel for radiant floor systems. Color black. Height 31 mm (insulation sheet 10 mm, protrusion 21 mm). Consisting of an expanded polystyrene insulation sheet (EPS200) with graphite and a 0,6 mm polystyrene protection layer. For Ø 16÷17 mm pipes. Laying center distance: multiples of 50 mm. Dimensions: 1450x850 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m<sup>2</sup>. Thermal conductivity 0,03 W/(m K). Thermal resistance ( $R = s/\lambda$ ) 0,33 m<sup>2</sup>K/W. Min. resistance to 10 % crushing, 200 kPa. Resistance to fire: class E.

### R979GY904

Thermoformed insulation panel for radiant floor systems. Color black. Height 41 mm (insulation sheet 20 mm, protrusion 21 mm). Consisting of an expanded polystyrene insulation sheet (EPS150) with graphite and a 0,6 mm polystyrene protection layer. For Ø 16÷17 mm pipes. Laying center distance: multiples of 50 mm. Dimensions: 1450x850 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m<sup>2</sup>. Thermal conductivity 0,03 W/(m K). Thermal resistance ( $R = s/\lambda$ ) 0,67 m<sup>2</sup>K/W. Min. resistance to 10 % crushing, 150 kPa. Resistance to fire: class E.

### R979GY905

Thermoformed insulation panel for radiant floor systems. Color black. Height 51 mm (insulation sheet 30 mm, protrusion 21 mm). Consisting of an expanded polystyrene insulation sheet (EPS150) with graphite and a 0,6 mm polystyrene protection layer. For Ø 16÷17 mm pipes. Laying center distance: multiples of 50 mm. Dimensions: 1450x850 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m<sup>2</sup>. Thermal conductivity 0,03 W/(m K). Thermal resistance ( $R = s/\lambda$ ) 1,00 m<sup>2</sup>K/W. Min. resistance to 10 % crushing, 150 kPa. Resistance to fire: class E.

### R979GY906

Thermoformed insulation panel for radiant floor systems. Color black. Height 61 mm (insulation sheet 40 mm, protrusion 21 mm). Consisting of an expanded polystyrene insulation sheet (EPS150) with graphite and a 0,6 mm polystyrene protection layer. For Ø 16÷17 mm pipes. Laying center distance: multiples of 50 mm. Dimensions: 1450x850 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m<sup>2</sup>. Thermal conductivity 0,03 W/(m K). Thermal resistance ( $R = s/\lambda$ ) 1,33 m<sup>2</sup>K/W. Min. resistance to 10 % crushing, 150 kPa. Resistance to fire: class E.

### R979GY907

Thermoformed insulation panel for radiant floor systems. Color black. Height 71 mm (insulation sheet 50 mm, protrusion 21 mm). Consisting of an expanded polystyrene insulation sheet (EPS150) with graphite and a 0,6 mm polystyrene protection layer. For Ø 16÷17 mm pipes. Laying center distance: multiples of 50 mm. Dimensions: 1450x850 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m<sup>2</sup>. Thermal conductivity 0,03 W/(m K). Thermal resistance ( $R = s/\lambda$ ) 1,65 m<sup>2</sup>K/W. Min. resistance to 10 % crushing, 150 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.

**ℹ Additional information.** For more information, go to [giacomini.com](http://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.