

Preformed insulation panel made of EPS, for radiant floor systems

Datasheet
0498EN 02/2023



R982Q preformed insulating panel for radiant floor systems. Consisting of expanded polystyrene foam (EPS) with black thermoformed polystyrene protection layer (PS).

➤ Versions and product codes

PRODUCT CODE	SIZE [mm] T=pitch - h=height	N. OF SHEETS	TOTAL USEFUL SURFACE [m ²]	TYPE OF PACKAGING
R982QY043	T50 - h37	18	20,16	Packed in an open box
R982QY094	T50 - h48	13	14,56	
R982QY115	T50 - h50	12	13,44	
R982QY096	T50 - h65	9	10,08	
R982QY143	T50 - h37	18	20,16	Packed in plastic sack
R982QY194	T50 - h48	13	14,56	
R982QY196	T50 - h65	9	10,08	

Technical data

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

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

R982QY043, R982QY143

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m ²
Panel dimensions	1425 x 825 mm
Panel surface	1,18 m ²
Total thickness	37 mm sheet: 15 mm + protrusion: 22 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Sintered expanded polystyrene EPS150
Thermal conductivity, λ_D	0,034 W/(m K)
Thermal resistance, R_λ	0,44 m ² K/W
Min. resistance to 10% crushing	150 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-T2-L3-W3-CS(10)150-WL(T)0,5-Z30-70
PROTECTION LAYER	
Material	Polystyrene
Thickness	0,2 mm
Film color	Black

R982QY094, R982QY194

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m ²
Panel dimensions	1425 x 825 mm
Panel surface	1,18 m ²
Total thickness	48 mm sheet: 26 mm + protrusion: 22 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Sintered expanded polystyrene EPS150
Thermal conductivity, λ_D	0,034 W/(m K)
Thermal resistance, R_λ	0,76 m ² K/W
Min. resistance to 10% crushing	150 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-T2-L3-W3-CS(10)150-WL(T)0,5-Z30-70
PROTECTION LAYER	
Material	Polystyrene
Thickness	0,2 mm
Film color	Black

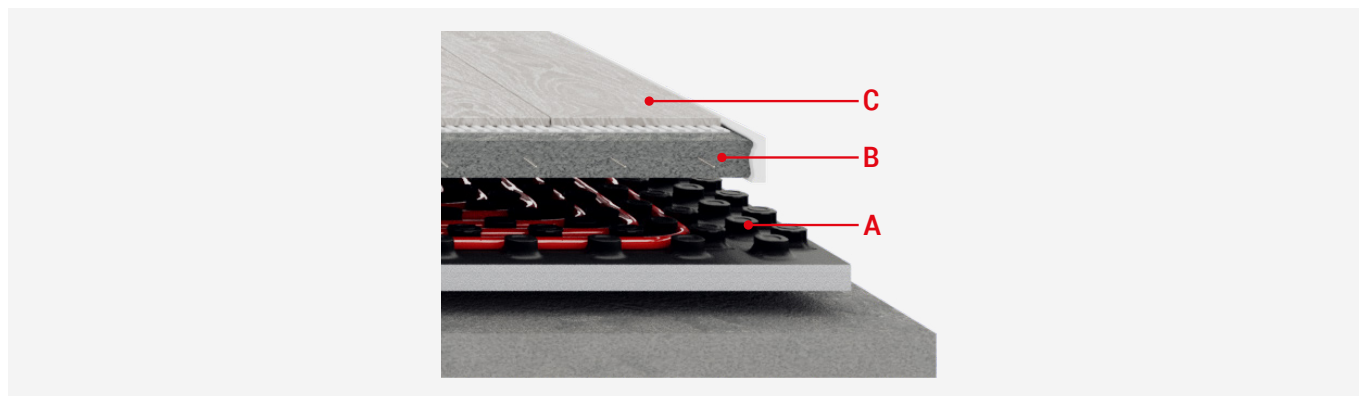
Rg82QY115

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m ²
Panel dimensions	1425 x 825 mm
Panel surface	1,18 m ²
Total thickness	50 mm sheet: 28 mm + protrusion: 22 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Sintered expanded polystyrene EPS120
Thermal conductivity, λ_0	0,035 W/(m K)
Thermal resistance, R_λ	0,80 m ² K/W
Min. resistance to 10% crushing	120 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-T4-L1-W1-S1-P3-S(N)5-BS100-SD30-CP2
PROTECTION LAYER	
Material	Polystyrene
Thickness	0,4 mm
Film color	Black

Rg82QY096, Rg82QY196

INSULATION PANEL	
Useful dimensions	1400 x 800 mm
Useful surface	1,12 m ²
Panel dimensions	1425 x 825 mm
Panel surface	1,18 m ²
Total thickness	65 mm sheet: 43 mm + protrusion: 22 mm
Pipe diameter	16÷17 mm
Allowed pitches	Multiples of 50 mm
INSULATION SHEET	
Material	Sintered expanded polystyrene EPS150
Thermal conductivity, λ_0	0,034 W/(m K)
Thermal resistance, R_λ	1,26 m ² K/W
Min. resistance to 10% crushing	150 kPa
Reaction to fire	Class E
Classification according to EN13163	EPS-EN13163-T2-L3-W3-CS(10)150-WL(T)0,5-Z30-70
PROTECTION LAYER	
Material	Polystyrene
Thickness	0,2 mm
Film color	Black

➤ Components and dimensions



PRODUCT CODE	PANEL TOTAL HEIGHT "A" [mm]	INSULATION/PROTRUSION HEIGHT [mm]	SCREED MIN. HEIGHT "B" [mm]	MIN. HEIGHT "A+B" COATING "C" EXCLUDED [mm]
R982QY043, R982QY143	37	15/22	30	67
R982QY094, R982QY194	48	26/22	30	78
R982QY115	50	28/22	30	80
R982QY096, R982QY196	65	43/22	30	95

➤ Reference standards

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

Product specifications

R982QY043, R982QY143

Preformed insulation panel for radiant floor systems. Color black. Height 37 mm (insulation sheet 15 mm, protrusions 22 mm). Consisting of an insulation sheet made of sintered expanded polystyrene (EPS) and a 0,2 mm polystyrene (PS) protection layer. For Ø 16÷17 mm pipes. Center distance 50 mm. Dimensions: 1425x825 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m². Thermal conductivity 0,034 W/(m K). Thermal resistance 0,44 m²K/W. Min. resistance to 10 % crushing, 150 kPa. Reaction to fire: class E.

R982QY094, R982QY194


Preformed insulation panel for radiant floor systems. Color black. Height 48 mm (insulation sheet 26 mm, protrusions 22 mm). Consisting of an insulation sheet made of sintered expanded polystyrene (EPS) and a 0,2 mm polystyrene (PS) protection layer. For Ø 16÷17 mm pipes. Center distance 50 mm. Dimensions: 1425x825 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m². Thermal conductivity 0,034 W/(m K). Thermal resistance 0,76 m²K/W. Min. resistance to 10 % crushing, 150 kPa. Reaction to fire: class E.


R982QY115


Preformed insulation panel for radiant floor systems. Color black. Height 50 mm (insulation sheet 28 mm, protrusions 22 mm). Consisting of an insulation sheet made of sintered expanded polystyrene (EPS) and a 0,4 mm polystyrene (PS) protection layer. For Ø 16÷17 mm pipes. Center distance 50 mm. Dimensions: 1425x825 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m². Thermal conductivity 0,035 W/(m K). Thermal resistance 0,80 m²K/W. Min. resistance to 10 % crushing, 120 kPa. Reaction to fire: class E.

R982QY096, R982QY196

Preformed insulation panel for radiant floor systems. Color black. Height 65 mm (insulation sheet 43 mm, protrusions 22 mm). Consisting of an insulation sheet made of sintered expanded polystyrene (EPS) and a 0,2 mm polystyrene (PS) protection layer. For Ø 16÷17 mm pipes. Center distance 50 mm. Dimensions: 1425x825 mm (useful dimensions: 1400X800 mm). Panel useful surface 1,12 m². Thermal conductivity 0,034 W/(m K). Thermal resistance 1,26 m²K/W. Min. resistance to 10 % crushing, 150 kPa. Reaction 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.