

### 1. Name

Insulation for surface heating Capricorn **EPS-100**

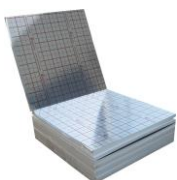
### 2. Product characteristics and intended use

Insulation for floor heating **EPS-100** is ready to install insulation boards intended for under-screed floor heating installations. EPS-100 ensures perfect thermal insulation and minimizes heat loss. High performance of EPS-100 optimizes load acting on floor of households and public buildings without compromising interior design.

### 3. Codes

Code	Type	Insulation thickness [mm]
<b>9-1610-020-61-21-00</b>	Insulation for surface heating <b>EPS-100 Duo</b>	20
<b>9-1610-025-61-21-00</b>		25
<b>9-1610-030-61-21-00</b>		30
<b>9-1610-050-61-21-00</b>		50
<b>9-1610-020-62-21-00</b>	Insulation for surface heating <b>EPS-100 Cube</b>	20
<b>9-1610-025-62-21-00</b>		25
<b>9-1610-030-62-21-00</b>		30

### 4. Packaging



Insulation for floor heating **EPS-100 Duo** is offered in the form of 21nm x 11nm boards, double folded, combined foil, bulk packaging of 10 m<sup>2</sup> (5 boards 2 m<sup>2</sup> each).



Insulation for floor heating **EPS-100 Cube** is offered in the form of 51nm x 11nm boards, folded into a quadratic prism for easier transportation, bulk packaging of 10 m<sup>2</sup> (2 boards 5 m<sup>2</sup> each, connected with foil).

## 5. Logistic Data

Product Code	Unit packaging		Cargo for vehicle of capacity of 120m <sup>3</sup>			Cargo for vehicle of capacity of 40m <sup>3</sup>			Cargo for vehicle of capacity of 20m <sup>3</sup>		
	Number of boards per package	Number of m <sup>2</sup> per package	Number of packages	Number of m <sup>2</sup>	Number of m <sup>3</sup>	Number of packages	Number of m <sup>2</sup>	Number of m <sup>3</sup>	Number of packages	Number of m <sup>2</sup>	Number of m <sup>3</sup>
9-1610-020-61-21-00	5	10	390	3900	100	144	1440	36	64	640	16
9-1610-025-61-21-00	5	10	390	3900	100	144	1440	36	64	640	16
9-1610-030-61-21-00	5	10	330	3300	100	120	1200	36	53	533	16
9-1610-050-61-21-00	5	10	180	1800	100	72	720	36	32	320	16
9-1610-020-62-21-00	2	10	375	338	105	129	1286	36	57	571	16
9-1610-025-62-21-00	2	10	375	3380	105	129	1286	36	57	571	16
9-1610-030-62-21-00	2	10	318	2900	105	109	1091	36	48	485	16

## 6. Structure and Materials Used

Insulation for surface heating **EPS-100** is composed of expanded polystyrene; it is also composed of a 0.07-mm thick vapour insulation metallised foil, being an advanced double-layer laminate made of BOPP20 (metallised biaxial oriented polypropylene) and of LDPE80 (low-density polyethylene) and bearing an interlayer overprint in the form of solid and broken lines forming 10-cm side squares, which facilitates the heating system installation. BOPP and LDPE are combined with a very mechanically resilient two-constituent polyurethane adhesive.

## 7. Technical Specification

Type	Board dimensions thickness x width x length [mm]	Board surface [m <sup>2</sup> ]	Thermal conductivity declared [W/(m·K)]	Heat resistance [(m <sup>2</sup> · K)/W]	Value of the compressive stress at 10% deformation [kPa]	Level of bending properties [kPa]	Reaction to fire [Euroclass]
Duo	20X1000X2000	2,0	≤0,036	0,55	≥100	≥150	E
	25x1000x2000			0,65			
	30x1000x2000			0,80			
	50x1000x2000			1,35			
Cube	20X1000X5000	5,0	≤0,036	0,55	≥100	≥150	E
	25x1000x5000			0,65			
	30x1000x5000			0,80			

## 8. Standards

- **PN-EN 13163:2012** Thermal insulating construction products. Factory made products of expanded polystyrene (EPS).

## 9. Advantages

- efficient thermal insulation, heat losses reduced,
- insulation boards are ready-to-install, which considerably speeds up installation of surface cooling and heating systems,
- efficient thermal insulation minimises heat losses through floor and provides high heating comfort,
- insulation layer is wrapped with vapour insulation metallised foil with raster bitmap overprint facilitating arrangement of heating pipes,
- 5-cm wide foil overlaps ensure sealing protection against penetration of jointless floor make-up water and humidity into foamed polystyrene,
- use of very resilient adhesive ensures simple, fast and trouble-free installation.

## 10. Warranty and responsibilities

During the installation it is required to observe OHS rules included in building regulations and norms. Capricorn S.A. More information about warranty and extent of liability on [www.capricorn.pl/en](http://www.capricorn.pl/en)

## 11. Manufacturer

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