

1. Name

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

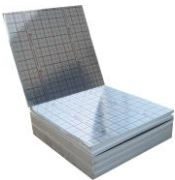
2. Product characteristics and intended use

Insulation for floor heating **EPS-T** is ready-to-install insulating boards intended for acoustic (noise silencing) interior insulation and for thermal insulation in case of surface heating systems. They may be used in all types of buildings – wherever it is necessary to silence noises between building storeys. They ensure a higher comfort reducing noise inside buildings and keeping thermal insulation characteristics. Impact sound reduction (ΔL_w) is of 32 dB (every 6 dB of acoustic insulation is perceived as a double reduction of noise in the room) to achieve the highest PP-28 acoustic class of the floating floor.

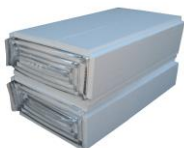
3. Codes

Code	Type	Insulation thickness [mm]
9-1632-030-61-21-00	Insulation for surface heating EPS-T Duo	30
9-1632-030-62-21-00	Insulation for surface heating EPS-T Cube	30

4. Packaging



Insulation for floor heating **EPS-T Duo** is offered in the form of 2 lnm x 1 lnm boards, double folded, combined foil, bulk packaging of 10 m² (5 boards 2 m² each).



Insulation for floor heating **EPS-T Cube** is offered in the form of 5 lnm x 1 lnm boards, folded into a quadratic prism for easier transportation, bulk packaging of 10 m² (2 boards 5 m² each, connected with foil).

5. Logistic Data

Product Code	Unit packaging		Cargo for vehicle of capacity of 120m ³			Cargo for vehicle of capacity of 40m ³			Cargo for vehicle of capacity of 20m ³		
	Number of boards per package	Number of m ² per package	Number of packages	Number of m ²	Number of m ³	Number of packages	Number of m ²	Number of m ³	Number of packages	Number of m ²	Number of m ³
9-1632-030-61-21-00	5	10	330	3300	100	120	1200	36	53	533	16
9-1632-030-62-21-00	2	10	318	2900	105	109	1091	36	48	485	16

6. Structure and Materials Used

Insulation for surface heating **EPS-T** is composed of a 30-mm layer of EPS-T expanded polystyrene of a special structure ensuring perfect impact sound silencing, as well as a very good protection against noise; 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

Packaging	Board Dimensions Thickness x Width x Length [mm]	Board surface [m ²]	Material	Thermal conductivity declared [W/(m·K)]	Heat resistance [(m ² ·K)/W]	Acoustic class acc. PN	Approximate reduction of impact sound ΔLw [dB]	Maximum operational load [kN/m ²]	Apparent density kg/m ³	Reaction to fire [Euroclass]
9-1632-030-61-21-00	30x1000x2000	2.0	EPS-T	≤0.045	0.70	PP-28	32	4	<11	E
9-1632-030-62-21-00	30x1000x5000	5.0	EPS-T	≤0.045	0.70	PP-28	32	4	<11	E

8. Standards

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

9. Advantages

- perfect acoustic characteristics providing efficient impact sound silencing, as well as very good protection against noise,
- 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

11. Manufacturer

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