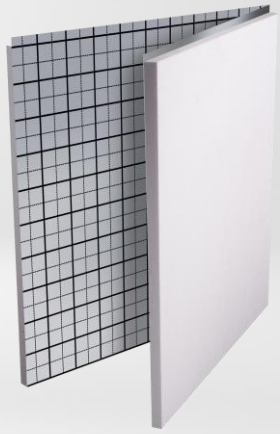
TWIN ACUSTIC EPS T/045 PP

Acustic EPS boards for underfloor heating systems



λ 0,045 W/mK

underfloor heating systems insulation

easy assembly

reducing shock noises

DESCRIPTION

TWIN ACUSTIC EPS T/045 PP polystyrene boards comply with the following standard code: EN 13163:2012
For thickness: 22/20 code: **EPS-EN 13163-T1-L3-W3- Sb5-P10-BS50-DS(N)5-SD20-CP2**
For thickness: 33/30 code: **EPS-EN 13163-T1-L3-W3- Sb5-P10-BS50-DS(N)5-SD15-CP3**
For thickness: 43/40 code: **EPS-EN 13163-T1-L3-W3- Sb5-P10-BS50-DS(N)5-SD10-CP3**

Boards produced by method of expanding (foaming) polystyrene. Dedicated for thermal and sound insulation in water-based underfloor heating systems, particularly when tight anchoring of pipes is required. The external layer of boards is covered with polypropylene foil with black imprint to facilitate the distribution of heating pipes. The boards are equipped with foil overlaps for covering joints upon installation.

Accessible sizes: 2000 x 1000 [mm]

Board thickness: 22/20, 33/30, 43/40 [mm]

Edges' trim: smooth edges

ATTENTION

- The polystyrene boards should not come into direct contact with substances harmful to polystyrene, e.g. organic solvents such as acetone, benzene, turpentine or gasoline.
- The polystyrene boards should be stored protected from damages and exterior conditions.

SALES TO DISTRIBUTORS
Contact for distributors of building materials. Information about where to buy products.

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SALES TO INVESTORS
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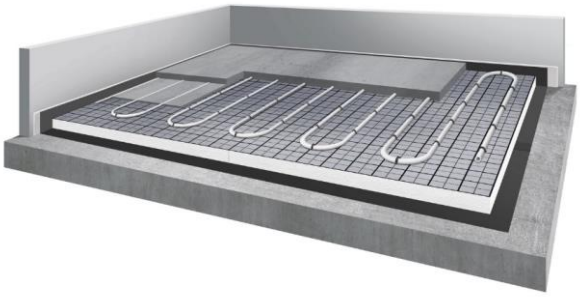
BASIC USES

- Thermal insulation in water-based underfloor heating systems in one-family, multi-family and public utility development
- Sound insulation of all floors in floating floor systems under operational load below 4,0 kN/m^2



DOCUMENTS

- Declaration of performance no. 19-DoP-2018 with the standard code EN 13163:2012.
- Hygienic approval EPS no. HK/B/0921/02/2015.

THERMAL RESISTANCE – dependent on product thickness

22/20 [mm]	**33/30 [mm]**	**43/40 [mm]**
Thermal resistance RD [m^{2}K/W]	**Thermal resistance RD [m^{2}K/W]**	**Thermal resistance RD [m^{2}K/W]**
0,45	0,70	0,95

PACKAGING METHOD

Specification	**Volume of packages, size of boards and number of items per package depend on board thickness**		
Thickness without load [mm]	22	33	43
Thickness with load [mm]	20	30	40
Board size - length x width [mm]	2000 x 1000	2000 x 1000	2000 x 1000
Covering area of package [m^2]	2	2	2
Items per package	5	5	5
Covering area of collective package [m^2]	10	10	10

PARAMETERS

Board type		TWIN ACUSTIC EPS T/045PP	
Product code (declared level or class properties of products)	**Thickness: 22/20 Thickness: 33/30 Thickness: 43/40**	**EPS-EN 13163-T1-L3-W3- S_b5-P10-BS50-DS(N)5-SD20-CP2 EPS-EN 13163-T1-L3-W3- S_b5-P10-BS50-DS(N)5-SD15-CP3 EPS-EN 13163-T1-L3-W3- S_b5-P10-BS50-DS(N)5-SD10-CP3**	
Declared product properties conform to EN 13163:2012 standard	**Measuring unit**	**Requirements or tolerances**	
		Class or level codes	**Values**
Thickness (dimensional tolerance class)	[%] lub [mm]	T1	- 5% lub - 1 mm +15% lub + 3 mm
Length (dimensional tolerance class)	[mm]	L3	3
Width (dimensional tolerance class)	[mm]	W3	3
Rectangularity over the length and width (dimensional tolerance class)	[mm/mm]	S_b5	5/1000
Flatness (dimensional tolerance class)	[mm]	P10	10
Flexural strength levels	[kPa]	BS50	50
Classes of dimensional stability under constant laboratory conditions[1]	[%]	DS(N)5	0,5
Dynamic stiffness (dependent on thickness)	[MN/m^3]	SD20 SD15 SD10	20 15 10
Compressibility (dependent on thickness)	[mm]	CP2 CP3	2 3
Declared thermal conductivity rate λ_D	[W/(m·K)]	[-]	0,045
Reaction to fire	From A to F	Euroclass	E

[1] measured in 23°C, 50% relative moisture

Approximate rate of pressure level reduction ΔLw [dB] and floor acoustic class related to board thickness

board thickness [mm] [without load/with load]	approximate rate of pressure level reduction Lw [dB]	floor operational load [KN/m2]	poziom sztywności dynamicznej SD [MN/m3]
22/20*	**28**	4,0	SD 20
33/30*	**32**	4,0	SD 15
43/40*	**32**	4,0	SD 10

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