



STANDARD FOAMED POLYSTYRENE BOARDS FOR THERMAL INSULATION EPS 70

CHARAKTERISTIC

Foamed polystyrene boards EPS 70 are marked with code **EPS-EN 13163-T2-L2-W2-S2-P4-BS115-CS(10)70-DS(N)2-DS(70.-)2-TR100** which confirms compliance with the Standard PN-EN 13163:2009.

These boards are produced by cutting expanded foam blocks.

Available dimensions of board: 1000x500 [mm]. **Board thickness:** from 10 [mm], with every 10 [mm] grading.

Edge treatment: square or milled edge (milled edge depth – 15 [mm]).

APPLICATION

Thermal insulation subject to low mechanic loads:

- thermal insulation of walls and ceilings from the bottom in Jointless Warming Systems [BSO], i.e. insulation performed in a light-wet method
- insulation of walls with cladding, ventilated by air slots
- thermal crown insulation made under the plaster as insulation of lintels and door frames
- insulation of ceilings made of reinforced concrete as lost planking
- insulation of steep roofs laid under the bearing structure

Foamed polystyrene boards EPS 070 cannot be applied in direct contact with substances, having deteriorating effect on the polystyrene, e.g.: organic solvents such as propanone, benzene, spirits of turpentine, benzene.

TECHNICAL DATA

Declared thermal resistance (RD) for board thickness

Thickness [mm]																			
10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Thermal resistance (RD) [m ² K/W]																			
0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00

Dimensions and packaging way

Description	Volume of a packet, coverage area of boards and number of boards in a packet (according to boards thickness)																			
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Thickness [mm]	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Number of boards in a packet [pcs.]	60	30	20	15	12	10	8	7	6	6	5	5	4	4	4	3	3	3	3	3
Volume of a packet (square edges) [m ³]	0,30	0,30	0,30	0,30	0,30	0,30	0,28	0,28	0,27	0,30	0,28	0,30	0,26	0,28	0,30	0,24	0,26	0,27	0,29	0,30
Volume of a packet (milled edges) [m ³]	x	x	x	x	0,29	0,29	0,27	0,27	0,26	0,29	x	0,29	x	0,27	0,29	x	x	x	x	x
Coverage area of boards (square edges) [m ²]	30,00	15,00	10,00	7,50	6,00	5,00	4,00	3,50	3,00	3,00	2,50	2,50	2,00	2,00	2,00	1,50	1,50	1,50	1,50	1,50
Coverage area of boards (milled edges) [m ²]	x	x	x	x	5,73	4,78	3,82	3,34	2,87	2,87	x	2,39	x	1,91	1,91	x	x	x	x	x

Properties

Types of foamed polystyrene boards		EPS 70	
Product code ((indicates declared levels or classes of product properties))		EPS-EN 13163-T2-L2-W2-S2-P4-BS115-CS(10)70-DS(N)2-DS(70,-)2-TR100	
Declared properties of the product according to PN-EN 13163:2009	Unit of measurement	Requirements or tolerances	
		Codes of classes or levels	Values
Thickness (dimensional tolerance class)	[mm]	T2	± 1
Length (dimensional tolerance class)	[mm]	L2	± 2
Width (dimensional tolerance class)	[mm]	W2	± 2
Rectangularity over the length and width (dimensional tolerance class)	[mm/mm]	S2	$\pm 2/1000$
Flatness (dimensional tolerance class)	[mm]	P4	± 5
Levels of bending strength	[kPa]	BS75	≥ 75
Compressive stress levels at 10% relative deformation	[kPa]	CS(10)70	≥ 70
Classes of dimensional stability under constant laboratory conditions ¹	[%]	DS(N)2	$\pm 0,2$
Levels of dimensional stability under specific conditions of temperature and humidity ²	[%]	DS(70,-)2	≤ 2
Levels of tensile strength perpendicular to frontal planes	[kPa]	TR 100	≥ 100
Deformation level under conditions of stress load and temperature ³	[%]	not applicable	
Declared thermal conductivity coefficient	[W/(m·K)]	[-]	$\leq 0,040$
Declared thermal resistance (thickness-dependent)	[m ² ·K/W]	marked on the package	
Reaction to fire	from A to F	Euroclass	E

1 - test performed at 23°C, 50% relative moisture, 2 - test performed at 70°C for 48 hours, 3 - test performed at 80°C for 48 hours under a load of 20 kPa

ADMISSION

Declaration of compliance WE NR 89/2010, 96/2010 and 103/2010 (with Standard PN-EN 13163:2009).

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