



STANDARD FOAMED POLYSTYRENE BOARDS FOR THERMAL INSULATION EPS 200

CHARAKTERISTIC

Foamed polystyrene boards EPS 036 PODŁOGA, PARKING (FLOOR, CAR PARK) are marked with code **EPS-EN 13163-T1-L1-W1-S1-P3-BS250-CS(10)200-DS(N)5-DS(70,-)2-DLT(1)5**, which confirms compliance with the Standard PN-EN 13163:2004.

These boards are produced by cutting expanded foam blocks.

Available dimensions of boards: 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 heavy mechanic loads:

- insulation of floors under tiled backing with heavy loads (industrial and storage parlours, garages and parking lots)
- insulation of floors on the ground with tiled floor backing with heavy load
- insulation of walls below the ground level with waterproof insulation under heavy load
- insulation of plinths in the Jointless Warming Systems [BSO]
- insulation of plinths laid on bearing structures under cladding with roof tiles
- layers insulating against frost penetration in road constructions
- filling of road and railways embankment constructions, bridge abutments and other civil engineering constructions

Foamed polystyrene boards EPS 200 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	0,55	0,80	1,10	1,35	1,65	1,90	2,20	2,50	2,75	3,05	3,30	3,60	3,85	4,15	4,40	4,70	5,00	5,25	5,55

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 200	
Product code ((indicates declared levels or classes of product properties)		EPS - EN 13163-T1-L1-W1-S1-P3-BS250-CS(10)200-DS(N)5-DS(70,-)2-DLT(1)5	
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]	T1	± 2
Length (dimensional tolerance class)	[mm]	L1	± 6
Width (dimensional tolerance class)	[mm]	W1	± 3
Rectangularity over the length and width (dimensional tolerance class)	[mm/mm]	S1	$\pm 5/1000$
Flatness (dimensional tolerance class)	[mm]	P3	± 10
Levels of bending strength	[kPa]	BS250	≥ 250
Compressive stress levels at 10% relative deformation	[kPa]	CS(10)200	≥ 200
Classes of dimensional stability under constant laboratory conditions ¹	[%]	DS(N)5	$\pm 0,5$
Levels of dimensional stability under specific conditions of temperature and humidity ²	[%]	DS(70,-)2	≤ 2
Deformation level under conditions of stress load and temperature ³	[%]	DLT(1)5	≤ 5
Levels of tensile strength perpendicular to frontal planes	[kPa]	not applicable	
Declared thermal conductivity coefficient	[W/(m·K)]	[-]	$\leq 0,036$
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 93/2010, 100/2010 and 107/2010 (with Standard PN-EN 13163:2009).

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