

FOAMED POLYSTYRENE BOARDS WITH REDUCED WATER ABSORPTION AQUA EPS-P 150

CHARAKTERISTIC

Foamed polystyrene boards AQUA EPS-P 150 are marked with code **EPS-EN 13163-T2-L1-W2-S1-P4-BS250-CS(10)150-DS(N)2-DS(70,90)1-DLT(2)5-WL(T)1-WD(V)3**, which confirms compliance with the Standard PN-EN 13163:2009.

These boards are produced with a modern automated method. AQUA boards are used for thermal insulation of building components, which are especially exposed to high moisture conditions.

Available dimensions of boards: 1230x615 [mm].

Board thickness: 50,60,70,80,100,110,120,130,140,150,160,170,180,190,200.

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

APPLICATION

- foundation walls and plinths,
- underground parts of buildings, e.g.: cellar walls,
- rooms with high moisture, e.g.: cold stores, washing rooms, mushroom-growing cellars.

Foamed polystyrene boards AQUA EPS-P 150 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]															
50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
thermal resistance (RD) [m ² K/W]															
1,45	1,75	2,05	2,35	2,65	2,90	3,20	3,50	3,80	4,10	4,40	4,70	5,00	5,25	5,55	5,85

Dimensions and packaging way

Description	milled edge - dimensions of boards:1230 x615 [mm] , coverage area of a board – 0,729 [m ²]															
	volume of packet, coverage area of a packet and number of boards in a packet according to board thickness															
Thickness [mm]	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Number of boards in a packet [pcs.]	10	8	7	6	5	5	4	4	3	3	3	3	2	2	2	2
Volume of a packet [m ³]	0,364	0,349	0,357	0,349	0,328	0,364	0,320	0,349	0,284	0,306	0,328	0,349	0,247	0,262	0,277	0,291
Coverage area of a packet [m ²]	7,29	5,83	5,10	4,37	3,65	3,65	2,92	2,92	2,19	2,19	2,19	2,19	1,46	1,46	1,46	1,46

Properties

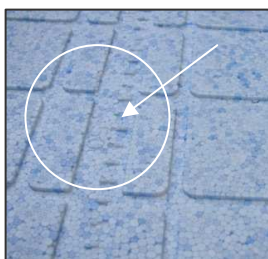
Types of foamed polystyrene boards		AQUA EPS-P 150	
Product code ((indicates declared levels or classes of product properties)		EPS-EN 13163-T2-L1-W2-S2-P4-BS250-CS(10)150-DS(N)2-DS (70,90)1-DLT(2)5-WL(T)1-WD(V)3	
Declared properties of the product according to PN-EN 13163:2009	Unit of measurement	Requirements or tolerances	
		Codes of classes or levels	Values
Thickness (dimensional tolerance class)	[mm]	T2	± 1
Length (dimensional tolerance class)	[mm]	L1	± 3
Width (dimensional tolerance class)	[mm]	W2	± 2
Rectangularity over the length and width (dimensional tolerance class)	[mm/mm]	S2	± 2/1000
Flatness (dimensional tolerance class)	[mm]	P4	± 5
Levels of bending strength	[kPa]	BS250	≥ 250
Compressive stress levels at 10% relative deformation	[kPa]	CS(10)150	≥ 150
Classes of dimensional stability under constant laboratory conditions ¹	[%]	DS(N)2	± 0,2
Levels of dimensional stability under specific conditions of temperature and humidity ²	[%]	DS(70,90)1	≤ 1
Deformation level under conditions of stress load and temperature ³	[%]	DLT(2)5	≤ 5
Long-term water absorption by total immersion	[%]	WL(T)1	≤ 1
Long-term water absorption by diffusion	[%]	WD(V)3	≤ 3
Declared thermal conductivity coefficient	[W/(m·K)]	[-]	≤ 0,034
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

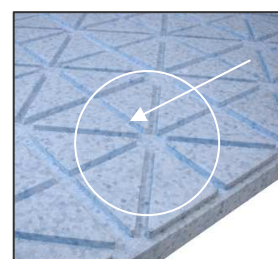
HALLMARKS



- AQUA boards are formed in the mould, which makes them identical and the boards fit perfectly



- The AQUA boards are equipped with the gauge. This makes it easy to cut the board to the required dimensions



- The AQUA boards are equipped with dense network of tiny canals on their surfaces, which allows for fast and natural water flow and drainage

ADMISSION

Declaration of compliance WE NR 109/2011 with Standard PN-EN 13163:2009.

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