



# PASSIVE PODŁOGA

EPS boards  
with graphite



$\lambda$   
**0,031**  
W/mK



working load  
below 1,8 t/m<sup>2</sup>



Roofs, floors, ceilings  
thermal insulation



up to 30% better  
thermal insulation



low-energy  
construction

## DESCRIPTION

PASSIVE PODŁOGA polystyrene boards comply with the following standard code: EN 13163:2012.  
**EPS-EN 13163-T1-L2-W2-Sb2-P5-BS100-CS(10)60-DS(N)2-DS(70,-)1.**

These boards are produced with a polystyrene foaming method, based on materials with graphite to improve their thermal insulation properties.

**Accessible sizes:** 1000 x 500 [mm]

**Board thickness:** from 10 [mm], in increments of 10 [mm]

**Edges' trim:** smooth or milled overlapping edges (trim size – 15 [mm])

## 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.
- Due to higher absorption of UV radiation graphic boards should be protected from direct exposure to the sun during transportation, as well as in storage within construction sites.

### SALES TO DISTRIBUTORS

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

[yetico.com/contact](http://yetico.com/contact)

### SALES TO INVESTORS

Contact for investors (business and individual),  
contractors, architects, and designers.

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## BASIC USES

- thermal insulation of floors and roofs under working load below 1,8 t/m<sup>2</sup>
- thermal insulation of floors on the ground in housing, public or industrial development, under little loads
- thermal insulation of floors in public utility development
- thermal insulation of full flat roofs
- thermal insulation of external and internal roofs
- thermal insulation of balconies and terraces
- thermal insulation of floors in underfloor heating systems



## DOCUMENTS

- Declaration of performance no. 01-DoP-2018 with the standard code EN 13163:2012.
- Hygienic approval EPS-P no. HK/B/0921/02/2015.

## THERMAL RESISTANCE – dependent on product 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 <sup>2</sup> K/W]																			
0,30	0,60	0,95	1,25	1,60	1,90	2,25	2,55	2,90	3,20	3,50	3,85	4,15	4,50	4,80	5,15	5,45	5,80	6,10	6,45



## PACKAGING METHOD

Specification	Volume of packages, size of boards and number of items per package depend on board thickness																			
Thickness [mm]	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Items per package	60	30	20	15	12	10	8	7	6	6	5	5	4	4	4	3	3	3	3	3
Package volume (smooth edges) [m <sup>3</sup> ]	0,300	0,300	0,300	0,300	0,300	0,300	0,280	0,280	0,270	0,300	0,275	0,300	0,260	0,280	0,300	0,240	0,255	0,270	0,285	0,300
Package volume (milled edges)[m <sup>3</sup> ]	x	x	x	x	x	x	x	0,268	0,258	0,287	0,263	0,287	0,248	0,268	0,287	0,229	0,244	0,258	0,272	0,287
Covering area of package (smooth edges) [m <sup>2</sup> ]	30,0	15,0	10,0	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
Covering area of package (milled edges) [m <sup>2</sup> ]	x	x	x	x	x	x	x	3,34	2,87	2,87	2,39	2,39	1,91	1,91	1,91	1,43	1,43	1,43	1,43	1,43

## PARAMETERS

Board type		Passive Podtoga	
Product code (declared level or class properties of products)		EPS-EN 13163-T1-L2-W2-S <sub>b</sub> 2-P5-BS100-CS(10)60-DS(N)2-DS(70,-)1	
Declared product properties conform to EN 13163:2012 standard	Measuring unit	Requirements or tolerances	
		Class or level codes	Values
Thickness (dimensional tolerance class)	[mm]	T1	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]	S <sub>b</sub> 2	2/1000
Flatness (dimensional tolerance class)	[mm]	P5	5
Flexural strength levels	[kPa]	BS100	100
Classes of dimensional stability under constant laboratory conditions <sup>1</sup>	[%]	DS(N)2	0,2
Levels of dimensional stability under constant temperature and humidity conditions <sup>2</sup>	[%]	DS(70,-)1	1
Compressive strength at 10 % deformation	[kPa]	CS(10)60	60
Declared thermal conductivity rate	[W/(m·K)]	[-]	0,031
Reaction to fire	from A to F	Euroclass	E

<sup>1</sup> measured in 23°C, 50% relative moisture,

<sup>2</sup> measured in temperature of 70°C for the duration of 48 hour





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