



# PASSIVE PREMIUM PODŁOGA

EPS boards  
with graphite



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



working load  
below 3,0 t/m<sup>2</sup>



Roofs, floors, ceilings  
thermal insulation



up to 30% better  
thermal insulation



low-energy  
construction

## DESCRIPTION

PASSIVE PREMIUM PODŁOGA polystyrene boards comply with the following standard code: EN 13163:2012 **EPS-EN 13163-T1-L2-W2-Sb2-P5-BS150-CS(10)100-DS(N)2-DS(70,-)2-DLT(1)5**.

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 3,0 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. 20-DoP-2021 with the standard code EN 13163:2012+A1:2015
- Hygienic approval EPS-P no. B-BK-60211-0661/20

## 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 Podłoga  |                            |        |
|---|--|----------------------------|--------|
| Product code (declared level or class properties of products)                                   | EPS-EN 13163-T1-L2-W2-S <sub>b</sub> 2-P5-BS150-CS(10)100-DS(N)2-DS(70,-)2-DLT(1)5 |                            |        |
| Declared product properties conform to EN 13163:2012+A1:2015                                    | 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]  | BS150                      | 150    |
| 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,-)2                  | 2      |
| Deformation levels under specified compressive load and temperature <sup>3</sup>                | [%]  | DLT(1)5                    | 5      |
| Compressive strength at 10% deformation   | [kPa]  | CS(10)100                  | 100    |
| 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,

<sup>3</sup> measured in temperature of 80°C for the duration of 48 hours, under 20 kPa load





# PASSIVE PREMIUM PODŁOGA

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