

**PRODUCT DATA SHEET FOR DOP 12/21**  
**EPS P 100 036 FOUNDATIONS**

**ENERPOR**

**1. Product description:**

*EPS P 100 036 FOUNDATIONS polystyrene thermal insulation panels are manufactured from expanded polystyrene in accordance with EN 13163:2012+A1:2015 "Thermal insulation products for buildings. Factory made expanded polystyrene (EPS) products. Specification." These are rectangular panels with straight or milled edges. Standard panels are produced in the following dimensions: length 1000 mm, width 500 mm, thickness 50 to 200 mm.*

**2. Application:**

*EPS P 100 036 FOUNDATIONS polystyrene panels are intended for thermal insulation in the building industry, mainly for roofs and floors. These products are specifically intended for:*

- *thermal insulation of walls in external composite insulating systems*
- *normally loaded thermal insulation of walls below ground level with waterproofing*
- *heavily loaded thermal insulation of floors under a subfloor*
- *anti-freeze insulation layer in road structures*
- *normally loaded thermal insulation of floors on a ground with subfloor*
- *thermal insulation of flat roofs, without access*
- *thermal insulation of floors in residential buildings with a service load up to 3 tonnes/m<sup>2</sup>*

**3. Technical specifications:**

*Code of designation: EPS-EN 13163-T2-L3-W3-S<sub>b</sub>5-P10-BS150-CS(10)100-DS(N)5-DS(70,-)2-WL(T)4*

Property	Class/level	Tolerance/Requirements
Thickness	T2	± 2 mm
Length	L3	± 0,6 % or ± 3 mm
Width	W3	± 0,6 % or ± 3 mm
Rectangular shape	S <sub>b</sub> 5	± 5 mm
Flatness	P10	10 mm
Flexural strength	BS150	≥ 150 kPa
Compressive stress at 10 % deformation	CS(10)100	≥ 100 kPa
Dimensional stability under laboratory conditions	DS(N)5	± 0,5%
Dimensional stability under specified temperature and humidity conditions	DS(70,-)2	± 2%
Water absorbability at total long-lasting immersion	WL(T)4	≤ 4%
Declared thermal conductivity coefficient W/(m·K)	-	0,036 W/(m·K)
Class of reaction to fire	E	-

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Declared thermal resistance  $R_D [m_2 \cdot [K/W]$

<i>d [mm]</i>	<i>50</i>	<i>80</i>	<i>100</i>	<i>120</i>	<i>150</i>	<i>180</i>	<i>200</i>
<i>R<sub>D</sub></i>	1,35	2,20	2,75	3,30	4,15	5,00	5,55

**4. Packaging:**

Thickness (mm)	50	80	100	120	150	180	200
Quantity (pieces)	12	7	6	5	4	3	3
Volume (m <sup>3</sup> )	0,3	0,28	0,3	0,3	0,3	0,27	0,3
Panel surface (m <sup>2</sup> )	6	3,5	3	2,5	2	1,5	1,5

**5. Use/Storage/Transport:**

It is recommended that the product does not come into contact with any materials in the building that react with EPS causing them to dissolve or swell (with adhesives containing solvents, wood protection agents).

The panels should be transported and stored in a way that protects them from damage and weather conditions such as UV radiation, strong sunlight and rainfall (required drying of the panels before installation).

The product does not contain hazardous substances as defined in the REACH Regulation. No hazards when using the product correctly and following health and safety rules.

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