

PRODUCT DATA SHEET FOR DOP 1/21
EPS S 045 FACADE

ENERPOR

1. Product description:

EPS S 045 FACADE 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 20 to 300 mm in 10 mm increments.

2. Application:

EPS S 045 FACADE polystyrene panels are intended for thermal insulation in the building industry, mainly for walls. These products are specifically intended for:

- *thermal insulation of diaphragm walls with ventilated and non-ventilated air gap*
- *expansion joint insulation*
- *thermal insulation in internal partition structures*
- *thermal insulation of the underside of ceilings with cladding*
- *thermal insulation of floors between joists*
- *thermal insulation in lightweight frame ceilings with cladding*
- *thermal insulation between rafters (attic)*
- *thermal insulation in ventilated flat roofs*
- *thermal insulation of walls including BSO, ETICS (light - wet) or (light - dry)-if complies with system requirements*

3. Technical specifications:

Code of designation: EPS-EN 13163-T2-L3-W3-S_b5-P10-BS50-DS(N)5-DS(70,-)3-TR50

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 _b 5	± 5 mm/m
Flatness	P10	10 mm
Flexural strength	BS50	≥ 50 kPa
Dimensional stability under laboratory conditions	DS(N)5	± 0,5%
Dimensional stability under specified temperature and humidity conditions	DS(70,-)3	± 3%
Tensile strength perpendicular to faces	TR50	≥ 50 kPa
Declared thermal conductivity coefficient W/(m·K)	-	0,045 W/(m·K)
Class of reaction to fire	E	-

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

d [mm]	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
R_D	-	0,40	0,65	0,85	1,10	1,30	1,55	1,75	2,00	2,20	2,40	2,65	2,85	3,10	3,30
d [mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
R_D	3,55	3,75	4,00	4,20	4,40	4,65	4,85	5,10	5,30	5,55	5,75	6,00	6,20	6,40	6,65

4. Packaging:

Thickness (mm)		20	30	40	50	60	70	80	90	100	110	120	130	140	150
Quantity (pieces)		30	20	15	12	10	8	7	6	6	5	5	4	4	4
Volume (m ³)		0,3	0,3	0,3	0,3	0,3	0,28	0,28	0,27	0,3	0,28	0,3	0,26	0,28	0,3
Panel surface (m ²)		15	10	7,5	6	5	4	3,5	3	3	2,5	2,5	2	2	2
Thickness (mm)	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Quantity (pieces)	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2
Volume (m ³)	0,24	0,26	0,27	0,29	0,3	0,21	0,22	0,23	0,24	0,25	0,26	0,27	0,28	0,29	0,3
Panel surface (m ²)	1,5	1,5	1,5	1,5	1,5	1	1	1	1	1	1	1	1	1	1

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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