

PRODUCT DATA SHEET FOR DOP 15/21
EPS 70 38 FACADE/ROOF/FLOOR

ENERPOR

1. Product description:

EPS 70 038 FACADE/ROOF/FLOOR 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 10 to 300 mm in 10 mm increments.

2. Application:

EPS 70 038 FACADE/ROOF/FLOOR polystyrene panels are intended for thermal insulation in the building industry, mainly for facades, roofs and floors. These products are specifically intended for:

- *thermal insulation in prefabricated external sandwich panels*
- *thermal insulation of the underside of ceilings in external composite insulating systems*
- *thermal insulation and stay-in-place formwork for reinforced concrete ceilings*
- *thermal insulation under load-bearing structures*
- *thermal insulation of flat roofs*
- *thermal insulation of below-ground walls with waterproofing with low load*
- *thermal insulation of floors under subfloors with low load*
- *thermal insulation of ground slabs with subfloor with low load*
- *thermal insulation of walls including BSO, ETICS (light - wet) or (light - dry)*
- *thermal insulation of tie beams as stay-in-place formwork under plaster*
- *thermal insulation of floors in residential buildings with a service load up to 2 tonnes/m²*

3. Technical specifications:

Code of designation: EPS-EN 13163-T2-L2-W2-S_b5-P5-BS115-CS(10)70-DS(N)2-DS(70,-)2-TR100

Property	Class/level	Tolerance/Requirements
Thickness	T2	± 2 mm
Length	L2	± 2 mm
Width	W2	± 2 mm
Rectangular shape	S _b 5	± 5 mm
Flatness	P5	5 mm
Flexural strength	BS115	≥ 115 kPa
Compressive stress at 10 % deformation	CS(10)70	≥ 70 kPa
Dimensional stability under laboratory conditions	DS(N)2	± 0,2%
Dimensional stability under specified temperature and humidity conditions	DS(70,-)2	± 2%
Tensile strength perpendicular to faces	TR100	≥ 100 kPa
Declared thermal conductivity coefficient W/(m·K)	-	0,038 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	0,25	0,50	0,75	1,05	1,30	1,55	1,80	2,10	2,35	2,60	2,85	3,15	3,40	3,65	3,90
d [mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
R_d	4,20	4,45	4,70	5,00	5,25	5,50	5,75	6,05	6,30	6,55	6,80	7,10	7,35	7,60	7,85

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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