

Chorzów, 30.09.2022 r.

Technical data sheet

Polystyrene panels EPS ROOF FLOOR ECO

DESCRIPTION:

EPS 60 040 EPS ROOF FLOOR ECO

Code of designation: EPS EN 13163 T(1)-L(2)-W(2)-S_b(5)-P(5)-BS100-CS(10)60-DS(N)2-DS(70,-)1

The product complies with harmonised standard applicable for this product type: EN 13163:2012+A1:2015 Thermal insulation products for buildings – Factory made expanded polystyrene (EPS) products – Specification.

Panels made with use of polystyrene foaming method and designed for thermal insulation of floors, roofs and flat roofs.

Standard dimensions of panels: 1000 x 500 mm. Customised dimensions on request.

Panel thickness: 10 – 500 mm

Panels can be manufactured with even or finely-milled edges.



USE:

EPS ROOF FLOOR ECO polystyrene panels applied in insulations which require shifting of extensive mechanical load, among others:

- insulation of floors, attics, converted and unconverted lofts, in residential and public utility construction,
- insulation of floors in underfloor heating systems,
- insulations of steep roofs over, under and between transoms,
- insulation of ceilings over passages,
- insulation of terraces and balconies.

Polystyrene panels should be used according to the manufacturer's recommendations, guidelines defined in construction design and rules of the trade which means that investment should be implemented in accordance with any and all legal and technical regulations applicable in the construction industry, while maintaining due diligence and taking advantage of the best professional knowledge. Do not use panels in a direct contact with substances having a destructive effect on EPS polystyrene, e.g. organic solvents (acetone, benzene, nitro), etc.

PACKING, STORAGE, TRANSPORT:

EPS ROOF FLOOR ECO polystyrene panels are delivered only in original Manufacturer's packaging. Polystyrene panels should be stored in a manner preventing them against damage, and protected against direct effect of weather conditions (UV radiation) which destructively affect the surface of polystyrene.

Leaving polystyrene for a longer time with no cover can cause tarnish to appear over its surface. In such case before application of panels it is necessary to remove the tarnish by grinding.

Documentation

- Declaration of Performance no. 08/S040_60DP
- Information on EPS safety and operation

PERFORMANCE:

Essential characteristics for the intended use, for thermal insulation in the construction industry	Declared performance, class or level
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PaNELTECH Sp. z o.o.

ul. Michałkowska 24
41-508 CHORZÓW
tel: 32 245 91 41
info@paneltech.pl

NIP: 627 00 12 306
Kapitał zakładowy: 210 000 zł.
Sąd Rejonowy w Katowicach Wydział Gospodarczy KRS Nr: 0000105517
ING Bank Śląski S.A. Oddział Bytom: 10 1050 1230 1000 0002 0000 3721



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Dimensional tolerance class: thickness, length, width, rectangularity, flatness	T1 (± 1 mm) L2 (± 2 mm) W2 (± 2 mm) S _b 5 (± 5 mm/1m) P5 (5 mm)
Bending strength	BS 100 ≥ 100 kPa
Dimensional stability under constant normal laboratory conditions	DS(N)2 ± 0,2 %
Dimensional stability under specific conditions - temperature 70 °C, 48 h	DS(70,-)1 ≤ 1 %
Compressive stress with 10% relative deformation	CS(10)60 ≥ 60 kPa
Declared thermal conductivity coefficient λ _D	0,040 W/(m K)
Thermal resistance R _D	Table 2
Reaction-to-fire class	E

Table no. 2 Summary of thermal resistance as a function of thickness

Thickness, d _N [mm]	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
Thermal resistance R _D [m ² K/W]	0,25	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75
Thickness, d _N [mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
Thermal resistance R _D [m ² K/W]	4,00	4,25	4,50	4,75	5,00	5,25	5,50	5,75	6,00	6,25	6,50	6,75	7,00	7,25	7,50

Standard dimensions of panels: 1000 x 500 mm.

Table no. 3 Packaging

PANEL THICKNESS (m)	0,01	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,09	0,10	0,11	0,12	0,13	0,14	0,15
PACKAGE VOLUME (m ³) even edges	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
PACKAGE VOLUME (m ³) finely-milled edges	-	-	-	-	0,282	0,282	0,263	0,263	0,254	0,282	0,259	0,282	0,245	0,263	0,282
PANEL AREA (m ²) even edges	30,00	15,00	10,00	7,50	6,00	5,00	4,00	3,50	3,00	3,00	2,50	2,50	2,00	2,00	2,00
PANEL AREA (m ²) finely-milled edges	-	-	-	-	5,64	4,70	3,76	3,29	2,82	2,82	2,35	2,35	1,88	1,88	1,88
NUMBER OF PANELS IN PACKAGE (pcs)	60	30	20	15	12	10	8	7	6	6	5	5	4	4	4
PANEL THICKNESS (m)	0,16	0,17	0,18	0,19	0,20	0,21	0,22	0,23	0,24	0,25	0,26	0,27	0,28	0,29	0,30
PACKAGE VOLUME (m ³) even edges	0,320	0,255	0,270	0,290	0,300	0,315	0,220	0,230	0,240	0,250	0,260	0,270	0,280	0,290	0,300
PACKAGE VOLUME (m ³) finely-milled edges	0,301	0,240	0,254	0,273	0,282	0,296	0,207	0,216	0,226	0,235	0,245	0,254	0,263	0,273	0,282
PANEL AREA (m ²) even edges	2,00	1,50	1,50	1,50	1,50	1,50	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
PANEL AREA (m ²) finely-milled edges	1,88	1,41	1,41	1,41	1,41	1,41	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94	0,94
NUMBER OF PANELS IN PACKAGE (pcs)	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2

