

Technical sheet

EPS 50

Expanded polystyrene EPS 50

Use:

Thermo insulating wallboards made from expanded polystyrene beads for buildings, made from raw fireproofed material from the ADEPLAST EPS 50 range for spaces without special static load, insulation of gaps, insulation inside buildings and at the soffit of ceilings, filling material in the wood industry and other similar.



Technical data:

Item no.:	EPS 50		
Labeling according to EN 13163:2012:	EPSS50-EN 13163-T2-L3-W3-Sb2-P5-BS75-CS(10)50-DS(N)2- DLT(1)5-TR50-WL(T)2		
Reaction to fire	E		SREN 13501-1
Long-lasting water absorption by immersion, (%)	WL(T)2	≤2	SREN 12087
Dangerous substances emission		NPD	SREN 13163
Dynamic rigidity		NPD	SREN 29052-1
Thermal resistance, (m ² K/W)		0,50 for a thickness of 20mm 1,25 for a thickness of 50mm 2,50 for a thickness of 100mm 3,75 for a thickness of 150mm 5,00 for a thickness of 200mm	SREN 12667
Heat conductivity, (W/Mk)		0.040	SREN 12939
Thickness, (mm)	T2	+/- 2	SREN 823
Compressive stress at a deformation of 10%, (kPa)	CS(10)50	CS≥50	SREN 826
Determination of deformation under specified load conditions to compression and temperature, (%)	DLT(1)5	≤5	SREN 1605
Tensile strength, (kPa)	BS75	BS≥75	SREN 12089
Stretch resistance perpendicular to the fronts, (kPa)	TR50	TR≥50	SREN 1607
Length, (mm)	L3	1000 +/- 3	SREN 822
Width, (mm)	W3	500 +/- 3	SREN 822
Perpendicularity to length and width, (mm/m)	S _b 2	+/- 2	SREN 824
Perpendicularity to thickness, (mm/m)	S _d 2	+/- 2	SREN 824
Smoothness, (mm)	P5	+/- 5	
Dimensional stability under normal laboratory conditions, (%)	DS(N)2	+/- 0.2	SREN 1603
Dimensional stability under specified temperature and humidity conditions, (%)	DS(70,90)1	1	SREN 1604
Shear resistance-T, (kPa)	SS35	≥35	SREN 13163 (table F.1)
Water vapor diffusion strength μ		20-40	SREN 13163 (table F.2)
Water vapor permeability- δ, (mg/(Pa.h.m))		0,015-0,030	SREN 13163 (table F.2)
Storage / Validity: 24 months from date of fabrication on the packaging. Store in dry spaces on wooden pallets, away from direct sunlight exposure, high temperatures and open fire.			
Technical data are determined under standard conditions, according to SR EN 13163+A1:2015			

Important:

- During storage and processing, wallboards should not be exposed to direct sunlight, high heat and open fire;
- **Wallboards should not be exposed to fire, aliphatic hydrocarbons, liquid hydrocarbons, acid anhydride, organic solvents and generally corrosive materials or potentially inflammable;**
- This technical sheet replaces all previous versions. Information in this technical sheet represent our experience with this product up to this day. This technical sheet does not clear the user of the product from making his own decision and evaluation including by samples, regarding the appropriateness of using the product. ADEPLAST products as well as their aggregate raw materials are continuously monitored in our own laboratories for consistent quality. Our advisory service is available for questions regarding product application and demonstrations. Comply with the information in the security technical sheet.

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