

EPS 100 Extra Plus



1.Designation:

EPS 100 Extra Plus

2. Raw material

Expanded polystyrene
HBCD free

3. Format:

1000 x 500 mm

4. Packing:

to the PE foil in packaging/non-standard dimensions are hand-wrapped.

5. Use according to

ČSN 72 7221-1

Insulation boards are intended for construction without major requirements on load pressure. Are dimensionally stabilized and are used primarily as a layer of insulation of roofs and insulation of the walls with the exception of ETICS.

6.Colour: Grey with graphite

7. Technical data:

General attributes/standards	Symbol	Units	Values
Thermal conductivity / EN 12667 or EN 12939	λ_D	[W/mK]	0,030
Reaction to fire class / EN13501-1 Reaction to fire class / DIN 4102-1 Basic mounting and fixing / EN15715	RtF		(E) B1
The type of EPS			EPS 100 Extra Plus
Thickness / EN 823	d	[mm]	T(1) / ± 1
Length / EN 822	l	[mm]	L(2) / ± 2
Width / EN 822	b	[mm]	W(2) / ± 2
Squareness on length and width / EN 824	S	[mm/m]	S(2) / ± 2
Flatness / EN 825	P	[mm]	P(3) / max. 3
Bending strength / EN 12089	σ_b	[kPa]	BS150 min. 150
Compressive stress at 10% deformation / EN 826	σ_{10}	[kPa]	CS(10)100 min. 100
Dimensional stability / EN 1603 EN 1604	$\Delta\epsilon$	[%]	DS(N)2 max. 0,2
Tensile strength perpendicular to faces / EN 1607	σ_{mt}	[kPa]	TR150 min. 150
The shear strength	τ/G	[kPa]	SS50/GM1000 min. 50/1000
Colour marking (front, three color bars)			■ ■ ■

7. Packaging and insulation: Panels 1000 x 500 mm

The thickness in mm	The quantity in pcs	Packaging m ² /package	Packaging m ³ /package	R _(D) (m ² K) in/W	U W/(m ² K)
10	50	25	0.25	0.33	3.20
20	25	12.5	0.25	0.67	1.60
30	16	8	0.24	1.00	1.07
40	12	6	0.24	1.33	0.80
50	10	5	0.25	1.67	0.64
60	8	4	0.24	2.00	0.53
70	7	3.5	0.245	2.33	0.46
80	6	3	0.24	2.67	0.40
90	5	2.5	0.225	3.00	0.36
100	5	2.5	0.25	3.33	0.32
110	4	2	0.22	3.67	0.29
120	4	2	0.24	4.00	0.27
130	3	1.5	0.195	4.33	0.25
140	3	1.5	0.21	4.67	0.23
150	3	1.5	0.225	5.00	0.215
160	3	1.5	0.24	5.33	0.20
180	2	1	0.18	6.00	0.18
200	2	1	0.20	6.67	0.16
220	2	1	0.22	7.33	0.18
240	2	1	0.24	8.00	0.145
250	2	1	0.25	8.33	0.135
260	1	0.5	0.13	8.67	0.125
280	1	0.5	0.14	9.33	0.115
300	1	0.5	0.15	10.00	0.11

The data given in the table are applied only to the values of the insulation material and contain no additional layers.

8. The EN code marking:

EPS-EN 13163 T(1)-L(2)-W(2)-S(2)-P(3)-BS115-CS(10)70-DS(N)2-DS(70,-)1-TR100-SS50-GM1000-MU40-WL(T)5



9. Handling and storage:

1. Protect against UV radiation and direct sunlight.
2. Store in a dry and ventilated environment.

3. Store separately from the solvents and volatile substances.
4. Handle and store so as to avoid mechanical damage of the product.