

# EPS 100 F Extra Plus



**1. Designation:**

EPS 100 F 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. They are dimensionally stabilized and are used primarily as a layer of insulation of flat 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	$\lambda_D$	[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 F Extra Plus
Thickness / EN 823	d	[mm]	T(1) / $\pm 1$
Length / EN 822	l	[mm]	L(2) / $\pm 2$
Width / EN 822	b	[mm]	W(2) / $\pm 2$
Squareness on length and width / EN 824	S	[mm/m]	S(2) / $\pm 2$
Flatness / EN 825	P	[mm]	P(3) / max. 3
Bending strength / EN 12089	$\sigma_b$	[kPa]	BS150 min. 150
Compressive stress at 10% deformation / EN 826	$\sigma_{10}$	[kPa]	CS(10)100 min. 100
Dimensional stability / EN 1603 EN 1604	$\Delta\epsilon$	[%]	DS(N)2 max. 0,2
Long term water absorption by immersion / EN 12087	WIT	[%]	WL(T)5 max. 5(3,39)
Tensile strength perpendicular to faces / EN 1607	$\sigma_{mt}$	[kPa]	TR150 min. 150
The shear strength	$\tau/G$	[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 <sup>2</sup> /package	Packaging m <sup>3</sup> /package	R <sub>(D)</sub> (m <sup>2</sup> K) in/W	U W/(m <sup>2</sup> 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.