

TECHNICAL SHEET 23.01.01-06-eng



EUROTHERM EPS F – G1

1. Product description

Thermal insulation boards from expanded polystyrene with added **GRAPHITE** for improved thermal insulation, with rabbet (CFC free)

2. Technical characteristics

Board format: 1000 x 500 mm

Thicknesses: EUROTHERM EPS F G – 1 (façade with rabbet from 50 mm to 300 mm)

3. Resistance

Thermal resistance: 80 °C – long-term

4. Conformity

The SIST EN 13163 standard

5. Quality

Quality characteristics of the product are determined by the European standards. For several years, JUB has ensured the achievement of the declared or prescribed level of quality by introducing a system of comprehensive management and quality control ISO 9001, which includes a daily check of quality in our laboratories. In manufacturing the product, we strictly adhere to the European standards in the field of environmental protection and health and safety at work, which is certified by ISO 14001 and OHSAS 18001 certificates.

6. Technical characteristics

CE technical code: **EPS-EN 13163-L1-W2-T2-S2-P4-DS(N)2-DS(70,-)1-TR150-BS100**

Characteristics	Marking	Description/data	Unit	Declared	Tolerance	Standard
Length	L	1000	mm	L1	±3	EN 822
Width	W	500	mm	W2	±2	EN 822
Thickness	T	10-300	mm	T2	±1	EN 823
Perpendicularity	S	1000/500	mm	S2	±2	EN 824
Evenness	P	1000/500	mm	P4	±5	EN 825
Dimensional stability	DS	1000/500	%	DS(N)2	±0,2	EN 1603
Pressure strength at 10% def.	CS	-	kPa	-	-	EN 826
Flexural strength	BS	-	kPa	BS100	≥100	EN 12089
Tensile strength perpendicular to the surface	TR	-	kPa	TR150	≥150	EN 1607
Diffusion resistance coefficient	μ	20 - 40	-	-	-	EN 12086
Thermal conductivity coefficient	λ _D	0,032	W/mK	0,032	-	EN 12667
Fire resistance (CE)	-	Euroclass E	-	Euroclass E	-	EN 13501-1
Fire resistance	-	B1	-	B1	-	DIN 4102-1
Density	ρ _a	15-18	kg/m ³	15-18	-	EN 1602

Declared thermal resistance R_D

Characteristic	Marking	Description/data											
Board thickness (mm)	d	10	20	30	40	50	60	70	80	90	100	110	120
Declared thermal resistance (m^2K/W)	R_D	0,30	0,60	0,90	1,25	1,55	1,85	2,20	2,50	2,80	3,10	3,40	3,75
Lambda/thickness ratio (W/m^2K)	$\lambda_{D/d}$	3,20	1,60	1,07	0,80	0,64	0,53	0,46	0,40	0,36	0,32	0,29	0,27
Board thickness (mm)	d	130	140	150	160	180	200	220	240	250	260	280	300
Declared thermal resistance	R_D	4,05	4,35	4,65	5,00	5,60	6,25	6,85	7,50	7,80	8,10	8,75	9,40
Lambda/thickness ratio (W/m^2K)	$\lambda_{D/d}$	0,25	0,23	0,21	0,20	0,18	0,16	0,15	0,13	0,13	0,12	0,11	0,11

7. Areas of application

- For thermal insulation of thin-coat contact facades and façade systems;
- Suitable for new constructions as well as for renovation of buildings;
- Rabbet prevents façade adhesive to leak out to contacts between boards;

8. Application

Thermal insulation boards are built in according to the instructions by manufacturer of façade systems.

9. Packaging

Thermal insulation boards are in packages of the size $0.25 m^3$, wrapped up in non-transparent PE-foil. Each package contains a declaration sheet in accordance with the SIST EN 13172 standard.

10. Storage

Store in covered areas, away from sources of heat and fire; do not expose to UV rays; prevent contact with incompatible materials/chemicals.

11. Waste management

The manufacturer guarantees that all of its packaging is included into the waste management system (Official Gazette of the RS, No. 84/06 with all changes and amendments).

12. Certificates

Slovenian National Building and Civil Engineering Institute, Dimičeva12, 1000 Ljubljana
 EC Declaration of Conformity with the requirements from the European directive on construction products, which is in line with the European standard EN 13163.
 EC certificate of manufacturing control 1771-CPD-980

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