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TECHNICAL SHEET 21.08.01-EN



EUROTHERM EPS F Strong 031-Graphite

EPS made in a mold without a switch

1. Product description

Thermal insulation boards made of expanded polystyrene with graphite for improved thermal insulation, manufactured in a mould. Without overlap.

2. Technical data

Board dimension: 1000 x 500 mm
Thickness: 30 mm to 200 mm

3. Resistance

Temperature resistance: 70°C on a long-term basis.

4. Standard

EN 13163:2012+A1:2015

5. Quality

The quality characteristics of the product are determined by European standards. Achieving the declared or prescribed level of quality is ensured by the ISO 9001 quality control system, which includes daily product quality checks in our own laboratories. In manufacturing process, we strictly comply with European standards in the field of energy saving, environmental protection and ensuring safety and health at work, which is confirmed by ISO 50001, ISO 14001 and ISO 45001 certificates.

6. Field of use

• Strong GRAPHITE boards, made in a mold, have very low water absorption due to the closed structure of

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expanded granules and perform the function of mechanical protection of waterproofing and thermal protection of the building;
• particularly suitable for production of sub-walls of the facade, for the insulation of buildings up to 0.5 m below the backfill level, for the insulation of slats, edges of AB panels, lintels, balconies;

7. Application

Thermal insulation boards are applied according to the instructions by manufacturers of facade systems

8. Packaging

Thermal insulation boards are in a package of 0.25 m3, wrapped in an opaque PE-foil. Each package contains a declaration sheet in accordance with the SIST EN 13172 standard.

9. Storage

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

10. Waste management

The manufacturer guarantees that all its packaging is included in the waste packaging management system (Ur.l.RS, No. 54/21 with all amendments and additions).

11. Technical specifications - 1

CE- technical code EPS-EN 13163-L2-W2-T1-S2-P3-DS(N)2-DS(70,-)1-BS150-TR200-CS(10)100-WL(T)2

Essential characteristic	Mark	Performance	Unit	Declared	Standard
Length	L	1000	mm	L2	EN 822
Width	W	500	mm	W2	EN 822
Thickness	T	30-250	mm	T1	EN 823
Squerness	S	1000/500	mm	S2	EN 824
Flatness	P	1000/500	mm	P3	EN 825
Dimensional stability	DS(N)	1000/500	%	DS(N)2	EN 1603
Dim. stability under spec. temp.	DS(70)	1000/500	%	DS(70,-)1	EN 1604
Compressive stress at 10% def.	CS	≥100	kPa	CS(10)100	EN 826
Bending strength	BS	≥150	kPa	BS150	EN 12089
Transverse tensile strength	TR	≥200	kPa	TR200	EN 1607
Compressive creep	CC	NPD	kPa	NPD	EN 1606
Water absorption by total immersion	WL(T)	≤2	%	≤2	EN 12087
Water absorption – LT by diffusion	WD(V)	NPD	%	NPD	EN 12088
Water vapour diffusion resistance	μ	NPD	-	NPD	EN 12086
Thermal conductivity	λD	0,031	W/mK	0,031	EN 12667
Fire resistance (Euroclass)	-	E	-	E	EN 13501-1

12. Technical specifications - 2

Essential characteristic	Mark	Performance											
Thickness (mm)	d	10	20	30	40	50	60	70	80	90	100	120	130
Thermal resistance (m²K/W)	RD	-	-	0,95	1,25	1,6	1,9	2,25	2,55	2,9	3,2	3,85	4,15
Thermal transmittance (W/m²K)	U	-	-	1,033	0,775	0,62	0,517	0.443	0,388	0,344	0,31	0,258	0,238
Thickness (mm)	d	135	140	150	160	180	200	220	240	250	260	280	300

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Thermal resistance (m²K/W)	RD	4,35	4,5	4,8	5,15	5,8	6,45	7,05	7,7	8,05	-	-	-
Thermal transmittance (W/m²K)	U	0,229	0,221	0,207	0,194	0,172	0,155	0,141	0,129	0,124	-	-	-

13. Certificate

Declaration of properties, in accordance with the European construction products regulation CPR and with the European standard EN 13163:2012+A1:2015.

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