TECHNICAL DATA SHEET

FRAGMAT EPS F TR150

Thermal insulation product for buildings

Product description

Thermal insulation board made of expanded polystyrene (EPS). It does not contain CFCs (CFC free / FCKW frei) and does not contain HBCD.

Product features

The product meets the requirements of SIST EN 13163:2013+ A1:2015, ÖNORM B 6000: 2018

- Format: from 1000 x 500 x dN (mm) up to 4000 mm x 1600 mm x 1000 mm
- Description: white board*, straight edges
- Temperature stability: short-term 80°C, long-term 70°C

CE-marking:

EPS-EN 13163-L(2)-W(2)-T(1)-S(2)-P(3)-BS115-TR150-DS(N)2-DS(70,-)1

Key features	EN Standard	Unit	Declared (EN 13163:2012+ A1:2015)
Length	EN 822	mm	± 2
Width	EN 822	mm	± 2
Thickness	EN 823	mm	± 1
Squareness	EN 824	mm	± 2
Flatness	EN 825	mm	± 3
Bending strength	EN 12089	kPa	≥ 115
Tensile strength	EN 1607	kPa	≥ 150
Compressive strength	EN 826	kpa	-
Dimensional stability	EN 1603	%	± 0,2
Dimensional stability at 70°C	EN 1604	%	≤ 1
Def. under pressure and temp. load	EN 1605	%	-
Water vapour transmission	EN 12086	1	-
Water absorption by total immersion	EN ISO 16535	%	-
Reaction to fire	EN 13501-1	/	E
Thermal conductivity	EN 12667	W/m.K	0,039

* Due to production technology, up to 2% of the surface can be colored differently

Thickness (mm)	10	15	20	25	30	40	50	60	65	70	80	90
R (m²K/W)	0,25	0,35	0,50	0,60	0,75	1,00	1,25	1,50	1,65	1,75	2,05	2,30
λ/d (W/m²K)	3,90	2,60	1,95	1,56	1,30	0,98	0,78	0,65	0,60	0,56	0,49	0,43

Thickness (mm)	100	110	120	125	130	135	140	150	155	160	170	175
R (m²K/W)	2,55	2,80	3,05	3,20	3,30	3,45	3,55	3,80	3,95	4,10	4,35	4,45
λ/d (W/m²K)	0,39	0,35	0,33	0,31	0,30	0,29	0,28	0,26	0,25	0,24	0,23	0,22

Thickness (mm)	180	190	195	200	210	220	230	240	250	260	270	280
R (m²K/W)	4,60	4,85	5,00	5,10	5,35	5,60	5,85	6,15	6,40	6,65	6,90	7,15
λ/d (W/m²K)	0,22	0,21	0,20	0,20	0,19	0,18	0,17	0,16	0,16	0,15	0,14	0,14

Thickness (mm)	290	300
R (m²K/W)	7,40	7,65
λ/d (W/m²K)	0,13	0,13

Field of use

The product is used for thermal insulation in facade systems for the thermal protection of buildings in accordance with ETAG 004, EAD 040083-000404.

Application

Thermal insulation boards are installed according to the method of use by bonding or mechanical fastening (anchoring). Linear-point application: Along all edges of the board, a continuous strip of adhesive about 5 cm wide is applied with a trowel, and in the middle of the board, adhesive is applied in three spots with a diameter of about 15 cm. The adhesive application and the required contact surface with the substrate should be at least 40%. Linear application on the edges and middle: Adhesive is applied linearly along the edges and the middle in the shape of the letter W. The required contact surface of the adhesive with the substrate should be at least 40%

Storage

Product must be stored in a dry areas and protected from direct sunlight, moisture, frost and snow,mechanical damage, dirt and flame. Contact with incompatible materials/chemicals should be avoided.

Packaging

Product is packed in PE foil approx. 0.25 m3, palletized approx. 5 m³.

Waste management

The waste product must be handled in accordance with the Waste Regulation. The residue or waste of the product is classified as non-hazardous waste, namely as construction waste-plastic (17 02 03). Waste foil belongs to waste plastic packaging (15 01 02) and waste pallets to waste wooden packaging (15 01 03).

Certificates

PTD (ITT), FIW München

The product is in accordance with SIST EN 13163:2012+A1:2015 and Regulation (EU) No. 305/2011. The quality and environmental management system is in accordance with SIST EN ISO 9001 and SIST EN ISO 14001.

Declaration of performance No. DoP-00-TI- 030 / 26 - 01.

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