

Technical data sheet 16-05/23

FRAGMAT NEO SUPER 100

Thermal insulation product with improved properties

Product description

FRAGMAT NEO SUPER 100 is a thermal insulation board made of graphite expanded polystyrene (EPS). Does not contain freon (CFC free / FCKW frei) and does not contain HBCD.

Product features

The product meets the requirements of the SIST EN 13163:2013+ A1:2015 standard
 - Format: 1000 x 500 x dN [mm], 1000 x 1000 x dN [mm], 2000 x 1000 x dN [mm]
 - Description: gray boards*, straight edges

Code index by EN 13163:

EPS-EN 13163-T(1)-CS (10)100-WL(T)1,4-WL(P)0,1

Characteristic	EN Method	unit	Declaration
			SIST EN 13163:2013+ A1:2015
Thickness	EN 823	mm	± 1
Water absorption by partial immersion	EN 16535:2019	kg/m ²	0.07
Dimensional stability under constant laboratory conditions	EN 1603	%	± 0.2
Compressive stress (at 10% deformation)	EN 826	kPa	≥ 100
Dimensional stability at 70° C	EN 1604	%	≤ 1
Water absorption by total immersion	EN 16535:2019	%	1,37
Reaction to fire	EN 13501-1	/	E
Thermal conductivity	EN 12667	W/m.K	0.030

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

Thickness (mm)	10	15	20	25	30	40	50	60	65	70	80	90	100	110	120
R (m ² K/W)	0.33	0.50	0.67	0.83	1.00	1.33	1.67	2.00	2.17	2.33	2.67	3.00	3.33	3.67	4.00
λ/d (W/m ² .K)	3.00	2.00	1.50	1.20	1.00	0.75	0.60	0.50	0.46	0.43	0.38	0.33	0.30	0.27	0.25

Thickness (mm)	125	130	135	140	150	155	160	170	175	180	190	195	200	210	220
R (m ² K/W)	4.17	4.33	4.50	4.67	5.00	5.17	5.33	5.67	5.83	6.00	6.33	6.50	6.67	7.00	7.33
λ/d (W/m ² .K)	0.24	0.23	0.22	0.21	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.15	0.15	0.14	0.14

Thickness (mm)	230	240	250	260	270	280	290	300
R (m ² K/W)	7.67	8.00	8.33	8.67	9.00	9.33	9.67	10.0
λ/d (W/m ² .K)	0.13	0.13	0.12	0.12	0.11	0.11	0.10	0.10

Intended use	The product FRAGMAT NEO SUPER 100 is used as thermal insulation in facade thermal protection systems in accordance with ETAG 004 and thermal insulation of floors, flat roofs, attics, floor heating, cold stores
Installation method	FRAGMAT NEO SUPER 100 thermal insulation panels are installed with gluing and mechanical anchoring. Line-point application: Along all edges of the board with a trowel apply a continuous strip of glue with a width of approx. 5 cm, in the middle of the board, glue is applied pointwise in three places with diameter approx. 15 cm. The adhesive application and the required contact surface with the substrate should be at least 40%. Application linearly on the edges and in the middle: The glue is applied linearly along the edges and in the middle in the shape of the letter W. Necessary the contact surface of the adhesive with the base should be at least 40%. Due construction process the board should not be a subject of direct sunbeam (obligatory use of protective nets/curtains) in case of using for floors, flat roofs attics the installation is mechanical attachment, or by placing them freely.
Packaging/Storing	Wrapped with PE foil, approx. 0.25m ³ package. To be stored in stored on a dry surface and protected from direct sunlight, moisture, frost, snow, mechanical damage, dirt and flame. It is necessary to avoid contact with incompatible materials/chemicals
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 construction waste-plastic (17 02 03). Waste film belongs to waste plastic packaging (15 01 02),
Certification body	(ITT), ID 2032 The product complies with SIST EN 13163:2013+A1:2015 and Regulation (EU) no. 305/2011. Declaration of performance no. DoP-01-05/23



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