

# Technical data sheet 01-05/23

## FRAGMAT NEO SUPER F

### Thermal insulation product

#### Product description

**FRAGMAT NEO SUPER F** 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-L(2)-W(2)-T(1)-S(5)-P(3)-BS135-DS(N)2-DS(70,-)1-TR150**

Characteristic	EN Method	unit	Declaration
			SIST EN 13163:2013+ A1:2015
Lenght	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 strenght	EN 12089	kPa	≥ 135
Tensile strenght	EN 1607	kPa	≥ 150
Compressive stress (at 10% defformation)	EN 826	kPa	≥ 80
Dimensional stability under constant laboratory conditions	EN 1603	%	± 0,2
Dimensional stability at 70° C	EN 1604	%	≤ 1
Deformation under pressure and temperature load	EN 1605	%	/
Water absorption	EN12087	%	/
Reaction to fire	EN 13501-1	/	E
Thermal conductivity	EN 12667	W/m.K	0.031

\* 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 <sup>2</sup> K/W)	0,30	0,45	0,60	0,80	0,95	1,25	1,60	1,90	2,05	2,25	2,55	2,90	3,20	3,50	3,85
λ/d (W/m <sup>2</sup> .K)	3,10	2,07	1,55	1,24	1,03	0,78	0,62	0,52	0,48	0,44	0,39	0,34	0,31	0,28	0,26

Thickness (mm)	125	130	135	140	150	155	160	170	175	180	190	195	200	210	220
R (m <sup>2</sup> K/W)	4,00	4,15	4,35	4,50	4,80	5,00	5,15	5,45	5,60	5,80	6,10	6,25	6,45	6,75	7,05
λ/d (W/m <sup>2</sup> .K)	0,25	0,24	0,23	0,22	0,21	0,20	0,19	0,18	0,18	0,17	0,16	0,16	0,16	0,15	0,14

Thickness (mm)	230	240	250	260	270	280	290	300
R (m <sup>2</sup> K/W)	7,40	7,70	8,05	8,35	8,70	9,00	9,35	9,65
λ/d (W/m <sup>2</sup> .K)	0,13	0,13	0,12	0,12	0,11	0,11	0,11	0,10

<b>Intended use</b>	The product <b>FRAGMAT NEO SUPER F</b> is used as thermal insulation in facade thermal protection systems in accordance with ETAG 004
<b>Installation method</b>	<b>FRAGMAT NEO SUPER F</b> thermal insulation panels are installed with gluing and mechanical anchoring. <b>Line-point application:</b> 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%. <b>Application linearly on the edges and in the middle:</b> 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 <b>should not be a subject of direct sunbeam</b> (obligatory use of protective nets/curtains)
<b>Packaging/Storing</b>	Wrapped with PE foil, aprox. 0.25m <sup>3</sup> 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
<b>Waste management</b>	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),
<b>Certification body</b>	(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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