

# TECHNICAL DATA SHEET

## FRAGMAT EPS 100 (W 20)

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: 2011

- 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(3)-W(3)-T(2)-S(5)-P(5)-BS150-CS(10)100-TR150-DS(N)5-DS(70,-)3-DLT(1)5

Key features	EN Standard	Unit	Declared (EN 13163:2012+ A1:2015)
Length	EN 822	mm	± 3
Width	EN 822	mm	± 3
Thickness	EN 823	mm	± 2
Squareness	EN 824	mm	± 5
Flatness	EN 825	mm	± 5
Bending strength	EN 12089	kPa	≥ 150
Tensile strength	EN 1607	kPa	≥ 150
Compressive strength	EN 826	kpa	≥ 100
Dimensional stability	EN 1603	%	± 0,5
Dimensional stability at 70°C	EN 1604	%	≤ 3
Def. under pressure and temp. load	EN 1605	%	≤ 5
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	0,036

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

Permissible pressure load: 0,02 N/mm<sup>2</sup>= 2 t/m<sup>2</sup>

Linear temperature expansion coefficient 0,05-0,07 mm/mK

Vapor permeability factor: 30-70

Modulus of elasticity: 6,0 N/mm<sup>2</sup>= 6000 kPa

Thickness (mm)	10	20	30	40	50	60	70	80	90	100	110	120
R (m <sup>2</sup> K/W)	0,25	0,55	0,80	1,10	1,35	1,65	1,90	2,20	2,50	2,75	3,05	3,30
λ/d (W/m <sup>2</sup> K)	3,60	1,80	1,20	0,90	0,72	0,60	0,51	0,45	0,40	0,36	0,33	0,30

Thickness (mm)	130	140	150	160	170	180	190	200	210	220	230	240
R (m <sup>2</sup> K/W)	3,60	3,85	4,15	4,40	4,70	5,00	5,25	5,55	5,80	6,10	6,35	6,65
λ/d (W/m <sup>2</sup> K)	0,28	0,26	0,24	0,23	0,21	0,20	0,19	0,18	0,17	0,16	0,16	0,15

Thickness (mm)	250	260	270	280	290	300
R (m <sup>2</sup> K/W)	6,90	7,20	7,50	7,75	8,05	8,30
λ/d (W/m <sup>2</sup> K)	0,14	0,14	0,13	0,13	0,12	0,12

<b>Field of use</b>	The product is used for thermal insulation of floors, under floor heating systems, non-walkable flat roofs, attics, etc.
<b>Application</b>	Depending on the purpose of use, thermal insulation boards are installed by gluing, mechanical fastening or they are freely laid. When applying, it is necessary to follow the application instructions legal regulations.
<b>Storage</b>	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.
<b>Packaging</b>	Product is packed in PE foil approx. 0.25 m <sup>3</sup> , palletized approx. 5 m <sup>3</sup> .
<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 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- 003 / 26 - 01

