

SLENTEX® 100/1 High Performance Insulation Material

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Date of issue 14.10.2020

Application:

Non-burning, flexible High Performance Insulation based on Silica-Aerogel.

Exterior and interior for minimizing of thermal bridges around the window such as: window reveal or roller shutter cases.

Exterior and interior for optimization thermal performance within the facade such as: thermal decoupling of ventilated facade elements, ventilated facade insulation boards and insulation for exterior insulation finishing systems (EIFS).

Performance Characteristic:

- Non-burning
- Excellent thermal insulation
- Water vapor diffusion open
- Flexible
- CE-Certification available: ETA-18/0011. Additional application specific construction certification will be available soon

Supply:

- Roll as fiber-reinforced blanket
- Thickness 10 mm, Width 150 cm, Length approx. 45 m
- Packaging: Standard materials are polyethylene stretch film (outer-wrap), two paperboard end-caps

Storage, Preparation :

- Long term storage: store in dry areas, protected against direct sun light
- Avoid contact with organic solvents

Reaction-to-Fire Classification

Characteristic / Test Method / Value, Note

Characteristic	Test Method	Value
Euroclass	DIN EN 13501-1:2010	A2-s1, d0

The classification applies to the following end-use conditions:

- The building product may be used on all wooden substrates of Euroclass D-s2, d0 with a thickness of at least 10 mm and a density of at least 510 kg/m³, on substrates of Euroclass A1 and A2-s1, d0 with a thickness of at least 12 mm and a density of at least 525 kg/m³ and on metal like substrates with a thickness of at least 0,8 mm, a density of at least 2025 kg/m³ and a melting point of at least 500 °C.
- The building product must be fixed mechanically to the substrate.
- The building product may be used with vertical and horizontal joints.
- The building product must be protected from soaking and weathering influences.
- Certificates / Reports: Available on request.

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Typical Physical Properties:

Characteristic / Test Method / Value, Note

Characteristic	Test Method	Value
Colour		white
Thermal Conductivity (λ_D)	DIN EN 13162	0,019 W/(m·K)
Density	DIN EN 1602	190-200 kg/m ³
Thickness	DIN EN 823	10 mm
Dimensional Stability at def. Temperature (70°C, 48h)	DIN EN 1604	$\Delta < 0,6\%$
Compressive Strength at 10% Compression	DIN EN 826	30 kPa
Tensile Strength Perpendicular to Faces	DIN EN 1607	16 kPa
Tensile Strength parallel to Faces	DIN EN 1608	1085 kPa
Short Term Water Absorption by Partial Immersion (24h)	DIN EN 1609 (A)	0,04 kg/m ²
Long Term Water Absorption by Immersion (48)	DIN EN 12087 (1A)	0,10 kg/m ²
Water Vapour Permeability, μ -Value	DIN EN 12086	5
Organic Content of SLENTEX	DIN EN 13820	3,8 Gew.-%

Values given for characteristics are average values.

Thickness Dependent Thermal Performance

Number of layers of 10 mm each	R-Value [m ² ·K/W]	U-Value [W/m ² ·K]
1	0,53	1,90
2	1,05	0,95
3	1,58	0,63
4	2,10	0,47
5	2,63	0,38
6	3,13	0,32
7	3,70	0,27
8	4,35	0,23
9	4,74	0,21
10	5,26	0,19

Values given for characteristics are average values based on the declared thermal conductivity of 19 mW/m²·K.

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Material Marking:

Product group: Insulation material
GISCODE: No data available
Safety : Safety data sheet in preparation

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