

## FKL Thermal

July 2017



### APPLICATION



### PRODUCT DESCRIPTION

Insulation lamella for contact façade.

FKL Thermal is non-combustible, water-resistant, resistant to high temperatures and ageing and chemically neutral. Lamellas are made of so-called semi-finished products so the fibres are oriented perpendicular to the surface of the wall which together with lower density provides better mechanical properties.

### TECHNICAL CHARACTERISTICS

Declared coefficient of thermal conductivity $\lambda_D$	0.038 W/mK
Reaction to fire	A1 - non-combustible material
Diffusion resistance factor $\mu$	~1
Delamination	>80 kPa
Stress at 10% compacting	>40 kPa

### BENEFITS

- ✓ very good thermal insulation properties
- ✓ high fire resistance
- ✓ dimensional stability
- ✓ simple and easy handling
- ✓ odourless
- ✓ easy to cut

### DIMENSIONS AND PACKAGING

Thickness (mm)	Width (mm)	Length (mm)	pcs / packaging	m <sup>2</sup> / packaging	m <sup>2</sup> / packaging
50	200	1200	12	2.88	0.14
60	200	1200	10	2.40	0.14
80	200	1200	10	2.40	0.19
100	200	1200	6	1.44	0.14
120	200	1200	4	0.96	0.12
150	200	1200	4	0.96	0.14
200	200	1200	4	0.96	0.19
250	200	1200	2	0.48	0.12
300	200	1200	2	0.48	0.14

### CERTIFICATES



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### ADDITIONAL INFORMATION

#### Application

The product is intended for thermal and sound insulation, as well as for fire protection of external walls in ETICS system. Lamellas provide high vapour permeability to this system.

Lamellas are different from other materials in this system because they can be placed on the base wall only by bonding them with polymer-cementitious adhesive applied over the entire surface of lamellas, without the need for anchoring lamellas up to 20 cm wide and building height up to 22 m. It is recommended to mechanically attach lamellas on older buildings with the remaining façade. From the civil engineering physics point of view, they are an ideal solution for ETICS systems of external walls on low-energy (passive) buildings and they are also suitable for developing similar systems (garages, basements, loggias), as well as for mentioned wall insulation of unheated stairwells in buildings.

#### Packaging

The product FKL Thermal is delivered in PE heat-shrinking foil. The products must be stored indoors or under a roof. In exceptional circumstances, the packages stored outdoors should be protected by watertight foil. Packages must not be placed directly on the ground.

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