

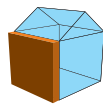
$\lambda=0,035 \text{ W/mK}$



Technical Data Sheet

May 2016

## FKD-S Thermal



Insulation slab for contact façade

### Product description

FKD-S Thermal is a compact rock mineral wool slab of stable density, belongs to the group of hard products. The product has improved thermal characteristics, lower coefficient of thermal conductivity, which provides better thermal protection of the building. The product is non-combustible, resistant to high temperatures, water-repellent, resistant to aging, chemically neutral and extremely vapour permeable. The dimensions do not change due to large temperature changes.

### Dimensions and packaging

Thickness (mm)	Width (mm)	Length (mm)	pcs / package	m <sup>2</sup> / package	m <sup>3</sup> / package
30	600	1000	10	6,0	0,18
40	600	1000	8	4,8	0,19
50	600	1000	7	4,2	0,21
60	600	1000	5	3,0	0,18
70	600	1000	4	2,4	0,17
80	600	1000	4	2,4	0,19
90	600	1000	3	1,8	0,16
100	600	1000	3	1,8	0,18
120	600	1000	2	1,2	0,14
130	600	1000	2	1,2	0,16
140	600	1000	2	1,2	0,17
150	600	1000	2	1,2	0,18
160	600	1000	2	1,2	0,19
180	600	1000	2	1,2	0,22
200	600	1000	2	1,2	0,24

### Basic Properties

#### Thermal conductivity

Low value of thermal conductivity  
 $\lambda_0=0.035 \text{ W/mK}$

#### Reaction to fire

Non-combustible material A1

#### Sound insulation

Excellent sound absorption due to dense fibre structure.

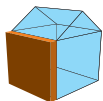
### Advantages

- Stable and compact material
- Vapour permeable
- Increased safety in case of fire
- Resistance to aging
- The material meets health, safety and environmental requirements
- Simple and quick installation

## FKD-S Thermal

### Technical characteristics

Characteristics	Symbol	Value
Dedared coefficient of thermal conductivity $\lambda_0$	W/mk	0,035
Reaction to fire	-	A1 - non-combustible material
Water vapour diffusion resistance factor $\mu$	-	~1
Delamination	kPa	> 10
Stress at 10% compacting	kPa	> 30



### Application

The product is intended for thermal and sound insulation, as well as for fire protection of external walls in ETICS system.

FKD-S Thermal slabs enable high vapour permeability of this system. The slabs can be used within a system of thin-layer or thick-layer contact façade. The insulation slabs are placed on the base wall by gluing with polymer-cement glue which is applied on the slabs in lines along the slab edges and in spots on the slab surface, and then mechanically fastened as well (6 - 8 anchors/m<sup>2</sup>). After that, a layer of glue is added for placing the glass fibre mesh in it, as well as the rendering coat layer. The finishing layer of the façade must be vapour permeable.

This system can also be used for the insulation of walls between heated and unheated rooms, as well as for the insulation of horizontal structural elements (e.g. insulation of floor structures above unheated rooms).

### Packaging

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



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