

## FKD-N Thermal

April 2020



### APPLICATIONS



### PRODUCT DESCRIPTION

#### Insulation board for contact façade.

FKD-N Thermal is a compact rock mineral wool board for ETICS. It belongs to the group of very hard products. The product has improved thermal characteristics, lower coefficient of thermal conductivity, which provides better thermal protection of the building.

### TECHNICAL CHARACTERISTICS

Declared coefficient of thermal conductivity $\lambda_D$	0.034 W/mK
Reaction to fire	A1 - non-combustible material
Water vapour diffusion resistance factor $\mu$	~1
Air flow resistance AFR	>5 kPa·s/m <sup>2</sup>
Short term water absorption $W_p$	≤1 kg/m <sup>2</sup>
Long term water absorption $W_{lp}$	≤3 kg/m <sup>2</sup>
Tensile strength perpendicular to the faces TR	>7.5 kPa
Compressive Strength (at 10% deformation) CS(10)	>20 kPa

DESIGNATION CODE: MW - EN 13162 A1-T5-CS(10)20-TR7,5-WS-WL(P)-MU1-AFr5

### BENEFITS

- Very good thermal insulation properties
- High fire resistance
- Excellent sound absorption due to dense fibre structure.
- Vapour permeable
- Dimensional stability
- Simple, easy handling and easy to cut
- Simple and quick installation
- Resistance to aging

### DIMENSIONS AND PACKAGING

Thickness (mm)	Width (mm)	Length (mm)	pcs / packaging	m <sup>2</sup> / packaging	packages / pallet	m <sup>2</sup> / pallet	R Thermal resistance (m <sup>2</sup> K/W)
80	600	1000	5	3,00	24	72,00	2,35
100	600	1000	4	2,40	24	57,60	2,94
120	600	1000	3	1,80	28	50,40	3,53
140	600	1000	2	1,20	36	43,20	4,12
150	600	1000	2	1,20	36	43,20	4,41
160	600	1000	2	1,20	32	38,40	4,71
180	600	1000	2	1,20	28	33,60	5,29
200	600	1000	2	1,20	24	28,80	5,88

### 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.

FKD-N 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-N Thermal is delivered in PE heat-shrinking foil. The products must be stored in a dry place, 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.

#### Quality

The product FKD-N Thermal is certified to comply with standard EN 13162 as well as with the EUCEB certificate which ensures that the product is biosoluble and not dangerous for health in accordance with European Directive 97\69\EC.

#### Knauf Insulation SA

10 Evripidou str.

176 74 Kallithea

Greece

sales.gr@knaufinsulation.com

Tel.: +30 211 710 7007

Fax.: +30 211 740 9480