

FKD-N Thermal 2

February 2024



APPLICATIONS



PRODUCT DESCRIPTION

FKD-N Thermal 2 is a compact rock mineral wool slab of dual density. The product has improved thermal characteristics with low 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. Its dimensions do not change due to large temperature changes.

TECHNICAL CHARACTERISTICS

Declared coefficient of thermal conductivity λ_D	0.035 W/mK
Reaction to fire	A1 - non-combustible material
Dimensional stability	DS(70,-) {c}
Short term water absorption W_p	$\leq 1 \text{ kg/m}^2$
Long term water absorption W_{lp}	$\leq 3 \text{ kg/m}^2$
Tensile strength perpendicular to the faces TR	$> 10 \text{ kPa}$
Compressive Strength (at 10% deformation) CS(10)	$> 20 \text{ kPa}$
Declaration of Performance (DoP)	www.dopki.com/R4224LPCPR

DESIGNATION CODE: MW- EN 13162-A1-T5-DS(70)-CS(10)20-TR10-WS-WL(P)-AFr5

BENEFITS

- Very good thermal insulation properties
- High fire resistance
- Excellent sound absorption due to 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 ² / packaging	packages / pallet	m ² / pallet	R Thermal resistance (m ² K/W)
80	600	1000	5	3.00	24	72.00	2.25
100	600	1000	4	2.40	24	57.60	2.85
120	600	1000	3	1.80	28	50.40	3.40
150	600	1000	2	1.20	36	43.20	4.25
160	600	1000	2	1.20	32	38.40	4.55
200	600	1000	2	1.20	24	28.80	5.70

CERTIFICATES



ADDITIONAL INFORMATION

Application

The product is intended for thermal and sound insulation, as well as for fire protection of external walls in ETICS and Ventilated Façade systems. FKD-N Thermal 2 slabs enable high vapour permeability of this system. The slabs can be used within a system of thin-layer or thick-layer contact and ventilated façade. In the case of ETICS, 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/m²). 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 2 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 2 is certified to comply with standard EN 13162 as well as with the EUCB certificate which ensures that the product is biosoluble and not dangerous for health in accordance with European Directive 97\69\EC.

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