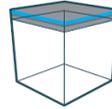


SmartRoof Thermal

March 2021



APPLICATIONS



PRODUCT DESCRIPTION

Insulation slab for flat roofs

SmartRoof Thermal is a compact rock mineral wool slab of equally distributed density across the slab thickness. It belongs to the group of very hard products. The product is non-combustible, resistant to high temperatures, resistant to aging and chemically neutral. Its dimensions do not change due to large temperature changes.

TECHNICAL CHARACTERISTICS

Declared coefficient of thermal conductivity λ_D	0.036 W/mK
Reaction to fire	A1 - non-combustible material
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)	$> 50 \text{ kPa}$
Point load F_p	$> 500 \text{ N}$
Air flow resistivity	$> 5 \text{ kPa.s/m}^2$

DESIGNATION CODE: MW - EN 13162 -A1-T5-CS(10)50-TR 10-PL(5)500-WS-WL(P)-AF 5

BENEFITS

- Very good thermal insulation properties
- Increased safety in case of fire
- Excellent sound absorption due to dense fibre structure.
- Vapour permeable
- Stable and compact material
- Resistance to aging
- Simple and quick installation

DIMENSIONS AND PACKAGING

Thickness (mm)	Width (mm)	Length (mm)	pcs / board	m ² / board	pcs / pallet	m ² / pallet	R Thermal resistance (m ² K/W)
40	1200	2000	1	2,40	32	76,80	1,11
50	1200	2000	1	2,40	26	62,40	1,39
60	1200	2000	1	2,40	22	52,80	1,67
70	1200	2000	1	2,40	19	45,60	1,94
80	1200	2000	1	2,40	16	38,40	2,22
90	1200	2000	1	2,40	14	33,60	2,50
100	1200	2000	1	2,40	13	31,20	2,78
120	1200	2000	1	2,40	11	26,40	3,33
140	1200	2000	1	2,40	9	21,60	3,89
150	1200	2000	1	2,40	8	19,20	4,17

CERTIFICATES



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ADDITIONAL INFORMATION

Application

The product is intended for thermal and sound insulation, as well as for fire protection in flat roofs. It is adequate for application under all types of waterproofing foils for walkable and non-walkable roofs - terrace. It is easily installed on a concrete base and on profiled steel structures.

Packaging

The product SmartRoof 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 SmartRoofThermal 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.

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