

Stone Wool Rock ROOF-50

Description:

Rock ROOF-50 stone wool board is a natural inorganic fibrous product that is industrially produced from molten rock spun into fibers, in accordance with European Standard EN 13162 (Thermal insulation products for buildings - Factory made mineral wool (MW) products).



Standard Classification:

In compliance with **EN 13162:2012 + A1:2015**

Specification Code: **MW-EN 13162-T7-CS(10)50-TR15-PL(5)600-WS-WL(P)-MU1-SD33-CP2-AW0,95-AFr50**



Advantages:



- ✓ Excellent thermal insulation
- ✓ Non-combustible material with excellent fire resistance
- ✓ Excellent sound absorption and sound reduction
- ✓ Open hive structure material with very low water vapor diffusion resistance that enhances the building element's breathability
- ✓ Excellent dimensional stability and durability
- ✓ Water repellent and non-hygroscopic
- ✓ Easy to handle, cut and install
- ✓ Natural, inorganic, odorless, chemically inert (practically neutral PH)
- ✓ Recyclable, friendly to the environment and to the end user

Applications



Boards designed for thermal insulation, fire resistance and sound insulation applications where increased mechanical properties and resistance to compressive stress is required.

- ✓ Insulation on **floors**, such as:
 - Floating floor of concrete screed and final surface, e.g., marble/ceramic tiles, industrial flooring
 - Floating floor of dry construction and final surface, e.g., timber, ceramic tiles
- ✓ Insulation on **flat roofs**, such as:
 - External thermal and sound insulation of flat roofs, with stone wool that is covered by screed and water-insulation layer

Packaging and Storage:

- ✓ Rock ROOF-50 products should be stored indoors. If stored outdoors, they must be protected from impregnation. Handling, loading and unloading of the products should be carried out with care to avoid damage to both the packaging and the board's edges.

Thickness [mm]	Width [mm]	Length [mm]	Quantity in pallet [m ²]
50	1200	1200	34,56
60	1200	1200	28,80
80	1200	1200	21,60
100	1200	1200	17,28
120	1200	1200	14,40
140	1200	1200	11,52
150	1200	1200	-

Technical Data:

Technical Characteristics	Symbol EN 13162	Unit	Value
Declared thermal conductivity at 10°C	λ_D	W/mK	0,037
Nominal thickness	d_N	mm	80 - 150
Fire classification	-	Class	A1
Melting temperature	-	°C	> 1000
Specific heat capacity	C	kJ/kgK	1,03
Thickness tolerance	T	Class	T7
Compressive Stress at 10% thickness deformation	CS (10)	kPa	50
Tensile strength perpendicular to faces	TR	kPa	15
Point Load	PL (5)	N	600
Compressibility	CP	mm	2
Short term water absorption for 24 hours	WS	kg/m ²	< 1
Long term water absorption for 28 days	WL(P)	kg/m ²	< 3
Water vapor diffusion resistance factor, μ	MU	-	1
Dynamic stiffness	SD	MN/m ³	33
Air flow resistivity	AFr	kPa s/m ²	> 50
Weighted sound absorption coefficient on boards with thickness 50mm, α_w	AW NRC	-	0,95 Class A 0,90

Table A

Thickness	d_N	mm	50	60	80	100	120	140	150
Thermal resistance	R_D	m ² K/W	1,35	1,60	2,15	2,70	3,20	3,75	4,05

Safety recommendations:

- ✓ Product not classified as hazardous.
- ✓ The use of safety gloves, safety mask and safety goggles are strongly advisable when working with this product, in prevention from possible temporary itching after contact with the skin.

Additional Information:

Technogips Pro provides a wide range of construction products for various applications divided into the following product categories:

- ✓ Drywall System Solutions
- ✓ Lightweight Facade Systems
- ✓ Systems for fire protection and sound insulation
- ✓ Gypsum-based plasters and finishes

Technogips Pro also provides various technical information such as CAD details, detailed method statements, specification clauses, application manuals and technical support both in contractors and consultants offices as well as construction sites. For further information on these products and systems kindly check our website or contact your local Technogips Pro representative.

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