THERMAK

Rock Wool Panel

THERMAL INSULATING PANELS COUPLED WITH BITUMINOUS MEMBRANES

ROCK WOOL PANEL is an insulating system in panels, put together and heat joined to a bituminous waterproof membrane.
On demand is available a special selvedge for sealing the overlaps, 8 cm wide on polyester versions and 5 cm on fiberglass versions, composed of a strip self-adhesive protected by siliconized polyethylene.
The sealing of the side overlaps always occurs by self-adhesion while the head overlaps or however on the slate, they must be sealed with the help of bituminous mastic PRATIKO MASTIC or, when it is possible, they can be welded with hot air.
This special selvedge allows a fast and safe application (without using flame).
ROCK WOOL PANEL are recommended for the insulation and waterproofing of covers in general, with the great convenience of using a single product; in fact, they offer the good thermal insulation capacity of rock wool and the waterproofness of a bituminous membrane.
ROCK WOOL PANEL are made with preformed slabs of rock wool with semi-oriented high density fibers, treated with thermosetting incombustible resins.

Fields of use

ROCK WOOL PANEL fit any type of cover: flat, sloped and curved.
They are quick to apply and once installed, thanks to the overlapping flange, the cover is already waterproofed. After installing the ROCK WOOL PANEL, a second waterproofing membrane or the definitive roof covering can be applied.

Installation

ROCK WOOL PANEL should be anchored according to the nature and the slope of the application surface and local weather conditions (windy, cold weather etc.) using adequate mechanical fasteners.
ROCK WOOL PANEL offers good resistance to mechanical stress together with good thermal and acoustic insulation; the system's bituminous component is exclusively to protect the insulating element.
Laying of the next gripping layer must be carried out in total adhesion and on top of the underlying membrane.

MEMBRANE TECHNICAL CHARACTERISTICS	M.U.	REFERENCE NORM	P	P	PA	PA	PA	V	V	TOLERANCE
REINFORCEMENT TYPE			Single strand polyester					Fibreglass		
UPPER FACE FINISH			PE film		Mineral*			PE film		
LOWER FACE FINISH			PE film							
THICKNESS	mm	EN 1849-1	3	4				2	3	±5%
MASS	kg/m²	EN 1849-1			3,5	4,0	4,5			±10%
COLD FLEXIBILITY	°C	EN 1109	-10							
FLOW RESISTANCE	°C	EN 1110	120							
FLOW RESISTANCE AFTER AGEING	°C	EN 1296		110		110				-10°C
SHEAR RESISTANCE L / T	N / 5 cm	EN 12317-1	300/200							±20%
TENSILE STRENGTH L / T	N / 5 cm	EN 12311-1	400/300					300/200		±20%
ELONGATION AT BREAK L / T	%	EN 12311-1	35/35					2/2		±15 / ±2
TEAR RESISTANCE L / T	N	EN 12310-1	130/130					70/70		±30%
DIMENSIONAL STABILITY	%	EN 1107-1	-0,3					NPD		
LOSS OF MINERAL SLATE	%	EN 12039			30					
STATIC PUNCTURE RESISTANCE	kg	EN 12730	10							
DYNAMIC PUNCTURE RESISTANCE	mm	EN 12691	700							
FIRE RESISTANCE		EN 13501-5	F ROOF							
REACTION TO FIRE		EN 13501-1	F							
TENSILE STRENGTH AFTER AGEING L / T	N / 5 cm	EN 1296			NPD					±20%
IMPERMEABILITY AFTER ARTIFICIAL AGEING	kPa	EN 1296	60							
WATERTIGHTNESS	kPa	EN 1928	60							

* Mineral self-protected products may undergo color tone variations due to the time and length of storage. Exposure to atmospheric conditions, after application, will tend to uniform the color after a few months. The change in color tone cannot therefore be contested and / or complained of as it is a natural phenomenon that the slate manufacturer himself cannot guarantee.
NPD = No Performance Declared in accordance with the EU Construction Products Directive.

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ROCK WOOL technical specifications

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CHARACTERISTICS	U.M.	
Panel size	m	1,00 x 1,20
Available thicknesses	mm	40
	mm	50
	mm	60
	mm	80
	mm	100
	mm	120

CHARACTERISTICS	SYMBOL U.M.	VALUE	STANDARD
Reaction to fire	Euroclass	A1	EN 13501-1
Declared thermal conductivity	λ_D W/mK	0.037	EN 12667 EN 12939
Resistance to water vapor diffusion	μ	1	EN 12086
Specific heat capacity	KJ/kgK	1.03	EN 10456
Short-term water absorption	kg/m²	≤ 1	EN 1609
Resistivity to air flow	kPa·s/m²	50	EN 29053
Compressive strength at 10% deformation	kPa	50	EN 826
Compressive strength under concentrated load	N	500	EN 12430
Water absorption in the long term	kg/m²	≤ 3	EN 12087
Compressibility	mm	2	EN 13162 EN 12431
Tensile strength	kPa	15	EN 1607
Dynamic stiffness (for 50mm thickness)	SD	33	EN 29052-1
Acoustic absorption α_w (for thickness ≥ 50 mm)	AW NRC	0.95 (class A) 0.90	ISO 354 ISO 11654

The data reported in this table refer to a bare, uncoupled panel.

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