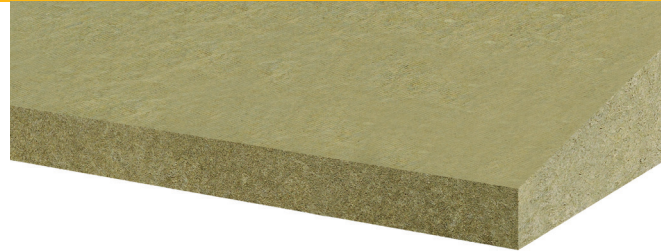


FIBRANgeo INCLINE

Stonewool insulation board with knit fibres and inclination

Technical Data Sheet / August 2024



Description

FIBRANgeo INCLINE rigid stonewool board with knit fibres and factory made inclination is a natural inorganic fibrous product that is industrially produced from molten rock spun into fibres, in accordance with European Standard EN 13162 (Thermal insulation products for buildings - Factory made mineral wool (MW) products).

Applications



Boards designed for thermal insulation, fire resistance and sound insulation applications where inclination is required.

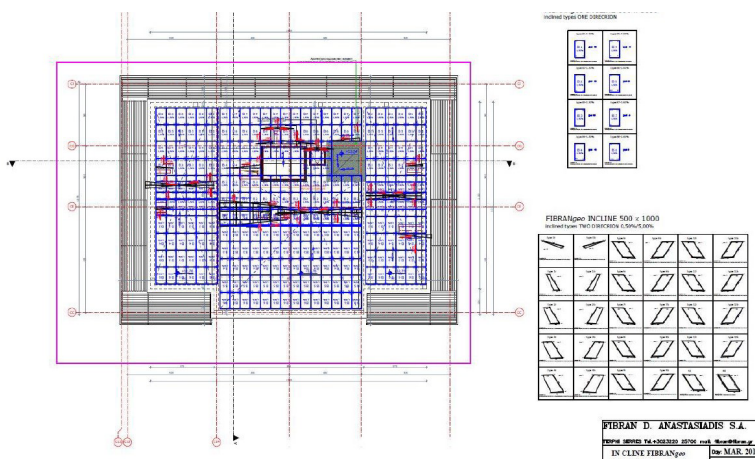
On **roofs** such as:

- Concrete roof/Steel deck with polymer waterproofing membrane on insulation
- Roof deck with floating concrete screed
- Metal stonewool composite roof panel

Dimensions

FIBRANgeo INCLINE boards are designed and manufactured based on **FIBRANgeo BP-50**, in specific dimensions according to the desired inclination of each roof. Each project is accompanied by its own design drawing(s), where the positioning of the boards are clearly indicated. The boards are offered in packs.

Example of roof project with FIBRANgeo INCLINE boards:



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 vapour 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, odourless, chemically inert (practically neutral PH)
- Recyclable, friendly to the environment and to the end user
- Fast and easy creation of roof's inclinations

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Technical characteristics

Designation Code:

MW (Mineral Wool) - EN 13162 – T5 – WS – WL(P) – MU1

Technical Characteristics	Symbol EN 13162	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	λ_D	W/(mK)	0,037	EN 13162 EN 12667 EN 12939
Fire classification	-	Class	A1 (Non-combustible)	EN 13501-1
Melting temperature	-	°C	>1000	DIN 4102-17
Specific heat capacity	c	kJ/kgK	1,03	ISO 10456
Thickness tolerance	T	Class	T5 (<100mm: -1 , +3 mm) (≥ 100mm: +1% , +3 mm)	EN 12431
Short term water absorption for 24 hours	WS	kg/m ²	<1	EN 1609
Long term water absorption for 28 days	WL(P)	kg/m ²	<3	EN 12087
Water vapor diffusion resistance factor, μ	MU	-	1	EN 12086

Note: **FIBRANgeo INCLINE** products are manufactured by processing of **FIBRANgeo BP-50** products.

Thermal resistance R (valid at specific thicknesses. The thickness of the board varies according to project design, thus the values below are only indicative of specific sections of equal thickness, not of the whole inclined board. In order to use the values below to calculate the thermal resistance of whole incline boards, the variation of thickness and shape of board must be taken into consideration.)

Nominal thickness	d_N	mm	30	40	50	60	70	80	100	120	140	160	180	200	EN 823
Declared thermal resistance	R_D	m ² K/W	0,80	1,05	1,35	1,60	1,85	2,15	2,70	3,20	3,75	4,30	4,85	5,40	EN 13162

Storage

FIBRANgeo 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.

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Certification

FIBRAN^{geo} INCLINE stonewool insulation products have been certified according to European Norms EN 13162 και EN 13172 and hold the CE marking that derives from the Declaration of Performance **DoP**.

All **FIBRAN^{geo}** stonewool insulation products meet the quality and safety requirements of the European Standards and comply with the European Regulations 305/2011 (CPR).

Furthermore, all **FIBRAN^{geo}** stonewool products, carry the certification mark EUCEB (European Certification Board for Mineral Wool Products), whose procedures ensure compliance of mineral wool insulation products with the "Note Q" of Directive 97/69/EC, regarding their fibres biosolubility and their non-classification as dangerous materials.

Moreover, according to EC Regulation 790/2009 they are not classified as products that cause skin irritation (R38).

FIBRAN S.A. implements a system of quality management according to ISO 9001:2015 and environmental management according to ISO 14001:2015.

Application

FIBRAN^{geo} products must be protected from getting wet before and on their application. If part of the product gets wet, it must be dried before installation. Stonewool dries quickly and its insulating properties remain unchanged after drying. Packaging should be removed carefully just before the installation.

Working areas should be kept clean. Unnecessary or extensive contact of the skin and eyes with product's off-cuts, fibres and dust should be avoided, and protective wear should be used (gloves, goggles, hats).

Products with facing AL, AX, YM ή YA are not suggested for application with service temperature on the surface more than 90°C while those with surface XA are not suggested for more than 66°C.

Sufficient ventilation of the working areas should be ensured, whilst power cutting tools should always be equipped or supplemented with a mechanical system of dust intake.

Stonewool products are not dangerous materials for disposal. They are covered by code 17.06.04 of the waste list, of Decision 2000/532 / EC and are disposed of in accordance with applicable environmental regulations.

More informations on the [Safety Data Sheet](#) of product.



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