

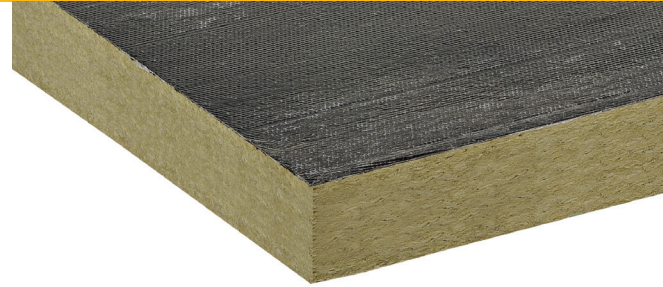
FIBRANgeo BP-50-BIT

Stonewool insulation board with knit fibres and bituminous layer

Technical Data Sheet / April 2022



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Description

FIBRANgeo BP-50-BIT rigid stonewool board with bituminous layer 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 with easy installation of bituminous membrane where increased mechanical properties and resistance to compressive stress is required.

On **roofs** such as:

- Concrete roof with bituminous waterproofing membrane for hydro insulation
- Steel deck with bituminous waterproofing membrane for hydro insulation



Advantages

- Excellent thermal insulation
- 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
- Easy application of bituminous membrane on top of boards

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Technical characteristics

Designation Code:

MW (Mineral Wool) - EN 13162 - T7 - CS(10)50 - TR15 - PL(5)600 - WS - WL(P) - SD33 - CP2

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
Nominal thickness	d_N	mm	40 - 160	EN 823
Fire classification	-	Class	F	EN 13501-1
Melting temperature	-	°C	>1000	DIN 4102-17
Specific heat capacity	c	kJ/kgK	1,03	ISO 10456
Thickness tolerance	T	Class	T7 (0, +10%)	EN 12431
Compressive Stress at 10% thickness deformation	CS(10)	kPa	≥ 50	EN 826
Tensile strength perpendicular to faces	TR	kPa	≥ 15	EN 1607
Point Load at 5mm thickness deformation	PL(5)	N	≥ 600	EN 12430
Recommended design load of board	-	kN/m ²	13	EN 1991-1 EN 13162
Thickness Compressibility (Cp = dL - dB)	CP	mm	2	EN 12431 EN 13162
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 resistance	Z	m ² hPa/mg	>50	EN 12086 EN 10456
Dynamic Stiffness, s', on boards' thickness 50mm	SD	MN/m ³	33	EN 29052-1

*dL = thickness under load of 0,25 kPa, dB = thickness under load of 2 kPa and preload +/- 48 kPa
Technical characteristics and DoP refer to the product without facings.

Thermal resistance R

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

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Certification

FIBRAN_{geo} BP-50-BIT 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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Storage

FIBRAN^{geo} 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.

Packaging

Thickness [mm]	Width [mm]	Length [mm]	Pieces per pallet [pc.]	Quantity per pallet [m ²]
40	1000	1200	29	34,80
50	1000	1200	24	28,80
60	1000	1200	20	24,00
70	1000	1200	17	20,40
80	1000	1200	15	18,00
100	1000	1200	12	14,40
120	1000	1200	10	12,00
140	1000	1200	8	9,60
160	1000	1200	7	8,40



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