FIBRANgeo **BP-30**Stonewool insulation board with knit fibres











Description

FIBRANgeo BP-30 rigid stonewool board 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).

FIBRANgeo BP-30 (1200 x 600 mm) boards can be produced with the facing AL (Aluminum foil reinforced with fibreglass net) or **XA** (Kraft paper) on one surface.

Applications





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

On **floors** such as:

- Floating floor of concrete screed and final surface, e.g. marble/ceramic tiles, industrial flooring (thickness 30-60 mm)
- Floating floor of dry construction and final surface, e.g. timber, ceramic tiles (thickness 30-60 mm)

On **flat roofs** such as:

• External thermal and sound insulation of flat roofs, with stonewool that is covered by screed and water-insulation layer.















Advantages

- Excellent themal 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 enchances 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 neautral PH)
- Recyclable, friendly to the environment and to the end user

FIBRANgeo BP-30 Stonewool insulation board with knit fibres

Technical characteristics

Designation Code:

MW (Mineral Wool) - EN 13162 - T7 - CS(10)30 - TR10 - PL(5)400 - WS - WL(P) - MU1 - SD33 - CP2 - AW0,95 - AFr50

Technical Characteristics	Symbol EN 13162	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	$\lambda_{_{D}}$	W/(mK)	0,036	EN 13162 EN 12667 EN 12939
Nominal thickness	d_N	mm	30 – 300	EN 823
Fire classification	-	Class	A1 (Non-combustible)	EN 13501-1
Melting temperature	-	°C	>1000	DIN 4102-17
Specific heat capacity	С	kJ/kgK	1,03	ISO 10456
Thickness tolerance	Т	Class	T7 (0,+10%)	EN 12431
Compressive Stress at 10% thickness deformation	CS(10)	kPa	≥ 30	EN 826
Tensile strength perpendicular to faces	TR	kPa	≥ 10	EN 1607
Point Load at 5mm thickness deformation	PL(5)	N	≥ 400	EN 12430
Thickness Compressibility ($Cp = dL - dB$)	СР	mm	2	EN 12431 EN 13162
Recommented design load of board's with thickness 30 - 60mm	-	kN/m²	8 (Floors A, B, C1, C2, C3, C4, D1, D2, F)	EN 13162 EN 1991-1
Short term water absorption for 24 hours	WS	kg/m²	<1	EN 1609
Long term water absorption for 28 days	WL(P)	kg/m²	<3	EN 12087
Water vapor diffusion resistance factor, $\boldsymbol{\mu}$	MU	-	1	EN 12086
Dynamic Stiffness, s', on boards' thickness 50mm	SD	MN/m³	33	EN 29052-1
Air flow resistivity, r	AFr	kPa s/m²	≥ 50	EN 29053
Weighted sound absorption coefficient on boards with thickness 50mm, $\boldsymbol{\alpha}_{\!_{\boldsymbol{w}}}$	AW NRC	-	0,95 Class A 0,90	EN ISO 11654 EN ISO 354

^{*}dL = thickness under load of 0,25 kPa, dB = thickness under load of 2 kPa and preload +/- 48 kPa

Thermal resistance R

Nominal thickness	d_N	mm	30	40	50	60	70	80	100	120	140	150	160	180	200	EN 823
Declared thermal resistance	$R_{_{D}}$	m²K/ W	0,80	1,10	1,35	1,65	1,90	2,20	2,75	3,30	3,85	4,15	4,40	5,00	5,55	EN 13162

Technical characteristics and DoP reffer to the product without facings.

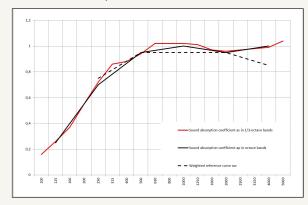
FIBRANgeo BP-30

Stonewool insulation board with knit fibres

Technical Data Sheet / April 2022

Acoustic properties

Sound absorption coefficient a (EN ISO 354) on boards with thickness 50mm



Frequency (Hz)	a_s	α _p	a _w
125	0,26	0,25	-
250	0,72	0,70	0,75
500	0,94	0,95	0,95
1000	1,02	1,00	0,95
2000	0,96	0,95	0,95
4000	0,99	1,00	0,85

Weighted sound absorption coefficient

 $\alpha_{\rm w} = 0.95 - {\sf Class A} \ ({\sf EN ISO 11654})$

Noise reduction coefficient

NRC = 0,90 (ASTM 423)

Certification

FIBRAN*geo* **BP-30** 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).

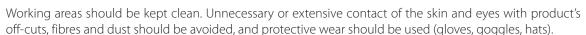
Furthermore, all **FIBRAN***geo* stonewool products, carry the certification mark EUCEB (European Certification Board for Mineral Wool Products), whose procedures ensure compliance of mineral wool insulation products with the "Note Q" of Directive 97/69/EC, regarding their fibres biosolubility and their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



Products with facing AL, AX, YM $\acute{\eta}$ 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.













FIBRANgeo **BP-30**Stonewool insulation board with knit fibres

Technical Data Sheet / April 2022

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.

Packaging

Thickness [mm]	Width [mm]	Length [mm]	Boards per package [pc.]	Quantity per package [m²]	Packages per pallet [pc.]	Quantity per pallet [m²]
30	600	1200	8	5,76	20	115,20
40	600	1200	6	4,32	20	86,40
50	600	1200	6	4,32	16	69,12
60	600	1200	5	3,60	16	57,60
70	600	1200	4	2,88	18	51,84
80	600	1200	3	2,16	20	43,20
100	600	1200	3	2,16	16	34,56
120	600	1200	2	1,44	20	28,80
140	600	1200	2	1,44	18	25,92
150	600	1200	2	1,44	16	23,04
160	600	1200	2	1,44	16	23,04
170	600	1200	2	1,44	14	20,16
180	600	1200	2	1,44	14	20,16
200	600	1200	1	0,72	24	17,28

Uppon request, it can be produced up to 300mm thickness.



FIBRAN S.A

6th km Thessaloniki - Oreokastro Rd. P.O. Box 40306, A.C. 564 10 Thessaloniki, Greece Tel. +30 2310 682 425. 692 700 Fax. +30 2310 683 131

info@fibran.gr www.fibran.gr

FIBRAN reserves the right to alter or amend product specifications without notice. The information included in this publication is correct to the best of our knowledge at the time of printing. Whilst FIBRAN will endeavour to ensure publications are up to date, it is the user's responsibility to check with the company the validity of the information prior to the material's use.