

FIBRANgeo TB-050

Stonewool technical insulation boards

Technical Data Sheet / June 2022



0751



Description

FIBRANgeo TB-050 stonewool technical insulation board is a natural inorganic fibrous product that is industrially produced from molten rock spun into fibres, in accordance with European Standard EN 14303 (MW – Factory made Mineral Wool Insulation products).

FIBRANgeo TB-050 boards can be produced with the following facings on one surface:

- **AL** (Aluminum foil reinforced with fibreglass net)

Applications

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

- Tank walls/roofs (cylindrical/flat)
- Containers
- Refinery columns
- Heat exchanger / silencer equipment
- Max. Service Temperature 650 °C
- Max. Service Temperature of AL surface: 90 °C

Packaging

Thickness [mm]	Width [mm]	Length [mm]	Boards per package [pcs.]	Quantity per package [m ²]	Packages per pallet [pcs.]	Quantity per pallet [m ²]
30	600	1200	16	11,52	10	115,20
40	600	1200	12	8,64	10	86,40
50	600	1200	10	7,20	10	72,00
60	600	1200	8	5,76	10	57,60
70	600	1200	7	5,04	10	50,40
80	600	1200	6	4,32	10	43,20
100	600	1200	5	3,60	10	36,00
120	600	1200	4	2,88	10	28,80
140	600	1200	3	2,16	12	25,92
160	600	1200	3	2,16	10	21,60



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
- Recyclable, friendly to the environment and to the end user

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Technical characteristics

Designation Code:

MW (Mineral Wool) - EN 14303 - T4 - ST(+/100) 600 - WS1 - AW1 - CL10 - F10 - PH10,5

Technical Characteristics	Symbol EN 14303	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	λ_D	W/(mK)	0,035	EN 12667 EN 13787
Maximum Service Temperature	ST(+/100)	°C	600 Surface AL up to 90 °C	EN 14706
Nominal thickness	d_N	mm	30 - 160	EN 823
Fire classification	-	Class	A1 (Non-combustible)	EN 13501-1
Melting temperature	-	°C	>1000	DIN 4102-17
Specific heat capacity	c	kJ/kg*K	1,03	ISO 10456
Thickness tolerance	T	Class	T4 (-3%, +5%)	EN 14303
Short term water absorption for 24 hours	WS	kg/m ²	<1	EN 1609
Content in water-dissolved chlorine, fluorine ions and PH value	CL, F, PH	mg/kg	<10 AS-quality for use over stainless steel. PH-value neutral to slightly alkaline	EN 13468
Weighted sound absorption coefficient on boards with thickness 50mm, α_w	AW	-	1 (Class A)	EN ISO 11654 EN ISO 354
Density, ρ	-	kg/m ³	50	EN 1602

Declared thermal conductivity λ_D

Mean Temperature	θ_M	°C	50	100	200	300	400	500	600	EN 14303
Declared Thermal Conductivity	λ_{NP}	W/mK	0,039	0,047	0,068	0,099	0,140	0,188	0,247	EN 12667 EN 13787



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