

# FIBRANgeo TB-080

## Semi-rigid stonewool technical insulation boards

Technical Data Sheet / June 2022



0751



### Description

**FIBRANgeo TB-080** semi-rigid 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).

### 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.

- HVAC systems (cold & hot air)
- Tank walls/roofs (cylindrical/flat)
- Containers
- Refinery columns
- Heat exchanger / silencer equipment
- Max. Service Temperature 650 °C

### Packaging

Thickness [mm]	Width [mm]	Length [mm]	Boards per package [pcs.]	Quantity per package [m <sup>2</sup> ]	Packages per pallet [pcs.]	Quantity per pallet [m <sup>2</sup> ]
30	600	1200	13	9,36	10	112,32
40	600	1200	10	7,20	10	86,40
50	600	1200	8	5,76	10	69,12
60	600	1200	7	5,04	10	60,48
70	600	1200	6	4,32	10	51,84
80	600	1200	5	3,60	10	43,20
100	600	1200	4	2,88	10	34,56
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 honeycomb 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

# FIBRAN<sup>geo</sup> TB-080

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### Technical characteristics

Designation Code:

**MW (Mineral Wool) - EN 14303 - T4 - ST(+/250) 650 - WS1 - AW1 - CL10 - F10 - PH10,5**

Technical Characteristics	Symbol EN 14303	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	$\lambda_D$	W/(mK)	0,033	EN 12667 EN 13787
Maximum Service Temperature	ST(+/250)	°C	650	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 <sup>2</sup>	<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, $\alpha_w$	AW	-	1 (Class A)	EN ISO 11654 EN ISO 354
Density, $\rho$	-	kg/m <sup>3</sup>	80	EN 1602

### Declared thermal conductivity $\lambda_D$

Mean Temperature	$\theta_M$	°C	50	100	150	200	250	300	350	400	500	600	650	EN 14303
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#### Declared Thermal Conductivity

$\lambda_{N,P}$  W/mK 0,040 0,046 0,053 0,061 0,072 0,080 0,095 0,105 0,136 0,172 0,195 EN 12667  
EN 13787



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