

# FIBRANgeo TBP-50

## Ridig Stonewool technical insulation boards with knit fibres

Technical Data Sheet / June 2022



### Description

**FIBRANgeo TBP-50** 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.

- Tank roofs
- Containers
- Electrostatic smoke filters
- Refinery columns
- 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	8	5,76	20	115,20
40	600	1200	6	4,32	20	86,40
50	600	1200	5	3,60	20	72,00
60	600	1200	4	2,88	20	57,60
70	600	1200	3	2,16	24	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
160	600	1200	2	1,44	14	20,16



### 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 - T7 - ST(+)-650 - CS(10)50 - TR15 - PL(5)600 - WS1 - AW0,95 - CL10 - F10 - PH10,5**

Technical Characteristics	Symbol EN 14303	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	$\lambda_D$	W/(mK)	0,037	EN 12667 EN 13787
Maximum Service Temperature	ST(+)	°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	T7 (0, +10%)	EN 13162
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
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	-	0,95 (Class A)	EN ISO 11654 EN ISO 354
Density, $\rho$	-	kg/m <sup>3</sup>	130 - 170	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	0,044	0,049	0,056	0,063	0,073	0,083	0,094	0,108	0,137	0,173	0,192	EN 12667 EN 13787
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**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

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