

## TECHNICAL DATA SHEET

### Description

The boards **FIBRANGEO BP-021** are a natural fibrous material produced by minerals like Basalt, Limestone, Dolomite, and Bauxite. FIBRANGEO boards have dimension stability, are chemical inert, their attributes are maintained constant in time and do not allow the growth of parasites.

### Certification

Production according to standard:

- EN 13162
- EN 13501-1
- ETAG 004

Notified Bodies:

- Forschungsinstitut für Wärmeschutz e.V. München (FIW)
- Identification Number: 0751
- Materialprüfanstalt für das Bauwesen Hannover (MPA BAU)
- Identification Number: 0764



### Technical Characteristics

#### MW-EN 13162-T7-CS(10)30-TR10-WS-WL(P)-MU1-SD20-AW0,95-AF91

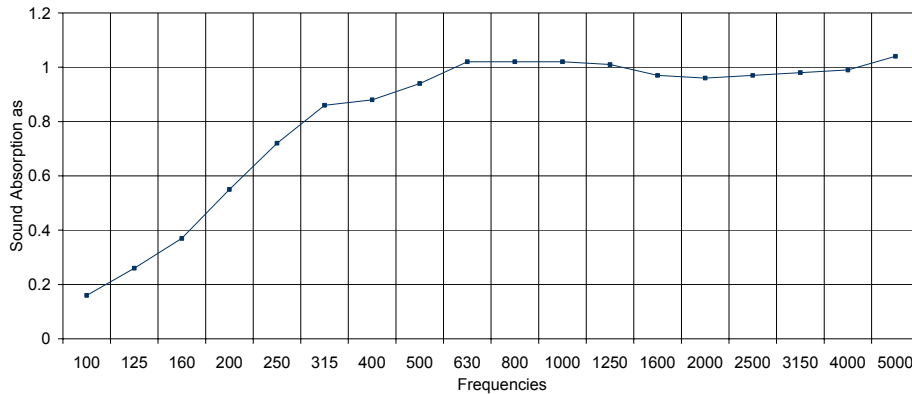
Properties	EN / DIN	Values
Density (kg/m <sup>3</sup> )		120
Thermal conductivity at 10 °C (W/(m*K))	EN 12667	0,040
Fire classification	EN 13501-1	A1
Short Term Water Absorption (kg/m <sup>2</sup> )	EN 1609	<1
Long Term Water Absorption (kg/m <sup>2</sup> )	EN 12087	<3
Compression strength (kPa)	EN 826	30
Tensile Strength Parallel to faces	EN 1608	10
Tensile strength perpendicular to faces (kPa)	EN 1607	10
Shear Strength $\tau$ (N/mm <sup>2</sup> )	EN 12090	0,023
Shear Modulus G (N/mm <sup>2</sup> )	EN 12090	1,3
Dynamic stiffness (MN/m <sup>3</sup> )	EN 29052-1	20
Air flow resistance (kPa s/m <sup>3</sup> )	EN 29053	91

### Explanation EN 13162 designation code

- MW – Mineral wool – Stonewool
- EN 13162 – The European Standard number
- Ti – Thickness Tolerances (T4: - 3mm + 5mm)
- CS(Y10) – Compressive strength at 10% deformation (kPa)
- TRi – Tensile strength perpendicular to faces (kPa)
- SD – Dynamic Stiffness (MN/m<sup>3</sup>)
- PL (5)i – Point Load (N)
- MU<sub>i</sub> – Water Vapor Transmission
- WS – Short Term Water Absorption (< 1kg/m<sup>2</sup>)
- WL(P) – Long Term Water Absorption with partial immersion (< 3kg/m<sup>2</sup>)
- AW<sub>i</sub> - Weighted sound Absorption Coefficient
- AF<sub>i</sub> – Air flow resistivity (kPa s/m<sup>3</sup>)



### Sound Absorption



### Packaging

thickness [mm]	width [mm]	length [mm]	boards in package [pieces]	quantity in package [m <sup>2</sup> ]	Packages on pallet [pieces]	Quantity on pallet [m <sup>2</sup> ]
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	14	40,32
80	600	1200	3	2,16	16	34,56
100	600	1200	2	1,44	20	28,80
120	600	1200	2	1,44	18	25,92
140	600	1200	2	1,44	16	23,04
160	600	1200	2	1,44	14	20,16

### Instructions for use

#### HANDLING AND STORAGE

FIBRANgeo B products should be stored indoors. If stored outdoors, they must be protected from impregnation. Pallets shrink-wrapped weather tightly in PE film may be stored outside. Separate packages should be placed on a flat pallet, not in direct contact with the ground. If part of the product gets wet, it must be dried before installation. Stonewool dries quickly and its insulating properties remain unchanged after drying. FIBRANgeo B products are chemically inert and do not allow the growth of micro-organisms, insects or rodents. Handling, loading and unloading of the products should be carried out with care, to avoid damage both of the packaging and the boards' edges.

#### APPLICATION AND PERSONAL PROTECTION

For the selection and application of FIBRANgeo B products all design requirements should be taken into consideration. FIBRANgeo B products should be protected from impregnation, prior to and during application. The packaging film should be removed with care just before installation. Working areas should be kept clean. Unnecessary or extensive contact of the skin and eyes with product off-cuts, fibres and dust should be avoided, and protective wear should be used (gloves, goggles, hats). Sufficient ventilation of the working areas should be ensured, whilst power cutting tools should always be provided with a mechanical system of dust intake. Stone wool products are not considered hazardous waste. Waste disposal should be carried out according to State and Local regulations.

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 users' responsibility to check with the company the validity of the information prior to materials use.