

TECHNICAL DATA SHEET OF BASALT FIBER PANEL

Property	Value		Measure unit	Norm
Filament				
Density	2.62 - 2.65		kg/dm ³	
Moisture content	0.1		%	
Melting point	1355		°C	
Diameter	13		micron	
Length	90		mm	
Panel				
Thickness	9 ±1		mm	UNI EN 823
Dimensions	120 (±0,3) x 60 (±0,8)		cm	UNI EN 822
Squaring Tolerance	<1		%	UNI EN 824
Evenness Tolerance	<1		%	UNI EN 825
Density	2.09		kJ/kg·K	UNI EN 12524
Specific heat (at 20°C)	165 ± 10	187 ± 10	kg/dm ³	UNI EN 1602
Compression resistance with 10% crushing	>33	>37	kPa	UNI EN 826
Point load resistance with 20% crushing	410	467	N	UNI EN 12430
Tensile strength parallel to surfaces: longitudinal direction	750	1478	kPa	UNI EN 1608
Tensile strength parallel to surfaces: transverse direction	1904	1735	kPa	UNI EN 1608
Thermal conductivity λ	0.0312	0.0321	W/m·K	UNI EN 13162
Thermal resistance Rd	0.2889	0.2994	m ² ·K/W	UNI EN 13162
Vapour permeability	1		μ	UNI EN 12086
Short term water absorption	<5.0		Kg/m ²	UNI EN 1609
Long term water absorption (7d)	<6.0		Kg/m ²	UNI EN 12087
Long term water absorption (28d)	<6.0		Kg/m ²	UNI EN 12087
Dimensional stability in specific conditions of temperature and moisture – DS(TH) 48h, 70°C, 90%Rh	<1			UNI EN 1604
	Tolerance class DS (70, 90) 1		%	UNI EN 1604
Reaction to fire (Euroclass)	A1			UNI EN ISO 1182 UNI EN 13501-1