

The "Green Board"

prolite super™

High density, vermiculite boards



		Typical Value	Range
Bulk Density:	kg/m ³	1200	1160-1260
<i>DIN EN 1602</i>	 Lbs/cu.ft	75	72-79
Max. Service Temperature:	 °C	1150	
<i>DIN EN 1094-6</i>	 °F	2100	
Cold Crushing Strength:	 MPa	8.0	≥6
<i>DIN EN 826</i>	 psi	1160	≥870
Hot Crushing Strength:	@ 750°C MPa	10	
	@ 1382°F..... psi	1510	
Modulus of Rupture:	 MPa	5.5	≥ 4
<i>DIN EN 12089 (B)</i>	 psi	800	≥580
Apparent Porosity:	 %	53	
<i>DIN EN 993-5</i>			
Thermal Expansion:	@ 20 to 800°C (68 to 1472°F) K ⁻¹	9.0 x 10 ⁻⁶	
<i>DIN 51045</i>	@ 800°C (1472°F)..... %	0.7	
Linear Reheat Shrinkage:	12 H @ 1000°C (1832°F) %	< 1.0	
<i>DIN EN 1094-6</i>	12 H @ 1150°C (2102°F) %	< 2.0	
Thermal Conductivity:			
<i>ASTM C-201; C-202; C-182; C-417</i>	@ 200°C.....	0.20	
	@ 400°C.....	0.21	
W / m K	@ 600°C.....	0.22	
	@ 800°C.....	0.24	
	@ 392°F.....	1.37	
Btu / (sq.ft.h°F/in.)	@ 752°F.....	1.44	
	@ 1112°F.....	1.54	
	@ 1472°F.....	1.65	

Specific Heat:

..... kJ/kg K	0.9
..... Btu/(lb.°F)	0.22

Chemical Analysis:

EN ISO 12677

SiO ₂ (Silicium Dioxide)	%	73.2
Al ₂ O ₃ (Aluminium Oxide)	%	7.3
Fe ₂ O ₃ (Iron Oxide)	%	2.3
TiO ₂ (Titanium Dioxide)	%	0.3
MgO (Magnesium Oxide)	%	10.1
CaO (Calcium Oxide)	%	0.7
K ₂ O (Potassium Oxide)	%	5.9

Loss on Ignition:

DIN 51081

@ 1025°C (1877°F)	%	4.9
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Standard Sizes & Thicknesses:

Length & Width:

Thicknesses:

1000 x 610 mm }	20 – 80 mm
1000 x 305 mm }	
610 x 305 mm }	

Other sizes are available upon request.

Warpage:

.....	Max. 2 mm
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Dimensional Tolerances:

Length	mm	± 2.0
Width	mm	± 2.0
Thickness	mm	± 1.5

Storage:

Always store under dry conditions

HS Tariff Number:

(Harmonized Commodity Description and Coding System)

680620

Physical and thermal values are based upon regular, average test results.

No Warranty or guarantee is implied on the data, which are given in good faith.

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