



dupré Micalite™

FIRE RESISTANT BOARD



DESCRIPTION

Micalite is a non-combustible, fire-resistant vermiculite board with excellent thermal insulation properties and minimal shrinkage at high temperature. Micalite boards can be easily cut to shape and are ideal for use in the construction of wood burning stoves and other applications. Micalite boards are available in a number of different thicknesses and with a number of different surface designs including 'Reeded', 'Herringbone' and 'Brick-effect'.

APPLICATIONS

Wood burning stoves, Insulation panels for walls and Inglenooks, fire-resistant panels.

TYPICAL PROPERTIES

PROPERTY		DMS600 (600 Density Board)	DMS750 (750 Density Board)	DMS1200 (High Density Board)
Classification Temperature / °C		1100	1100	1150
Bulk Density / kg m ⁻³		575 – 650	675 – 750	1150 – 1250
Cold Compression Strength / N mm ⁻²		3.2	4.3	8.0
Cold Modulus of Rupture / N mm ⁻²		2.3	3.1	5.5
Thermal Conductivity / W m ⁻¹ K ⁻¹	200°C	0.20	0.21	0.31
	400°C	0.22	0.23	0.32
	600°C	0.22	0.24	0.33
% Shrinkage after 12 hours		<2.0 @ 1100 °C	<2.0 @ 1100 °C	<2.0 @ 1150 °C
% Thermal Expansion (20 – 700 °C)		0.9	0.9	0.6
Specific Heat Capacity / kJ kg ⁻¹ K ⁻¹		1.15	1.15	-
± Plane Parallelism / mm		0.2	0.2	-
Standard Board Sizes / mm		1020 x 620 1250 x 1000	1020 x 620 1250 x 1000	1000 x 610
Available Board Thicknesses / mm		50	10, 12, 15, 20, 25, 30, 40, 45	20 to 80



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Information presented above is given in good faith as accurate and reliable but is not to be taken as a guarantee. The figures provided are intended to be a guide to expected average values and should not be interpreted as a specification. Any potential applications referred to are not to be construed as recommendations. It is the responsibility of the user to determine suitability for any specific purpose.

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