

ETERPAN® MD is manufactured from a homogeneous mixture of cement, organic cellulose fibres and selected mineral fillers. The asbestos-free board is autoclaved to form a highly dimensional stable board ideal for wet areas and exterior dry construction applications such as façade cladding, roof underlay, high impact partitions and ceilings, lightweight flooring, ceramic/stone tile backerboard, etc. ETERPAN® MD comes in thicknesses ranging from 6 to 20mm.

<b>Test Method:</b> ASTM C1185 :	Standard Test Methods for Sampling and Testing Non- Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards
ASTM C1186 :	Standard Specification for Flat Fiber Cement Sheets Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards
BS 476 Part 4 :	Fire Tests on Building Materials and Structures Part 4: Non-combustibility tests for materials
BS 476 Part 7 :	Part 7: Method of test to determine the classification of the surface spread of flames of products
ASTM C518 :	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

### Physical Properties

Property	Value	Unit	Standard
Density	1300	kg/m <sup>3</sup>	ASTM C1185
Moisture Content (at EMC)	10% by Weight	%	ASTM C1185
Water Absorption	33 ± 2 %	%	ASTM C1186
Moisture Movement			
- Normal to Oven Dry	0.80	mm/m	ASTM C1185
- Normal to Saturated	0.45	mm/m	
Thermal Expansion	5 x 10 <sup>-6</sup>	m/mK	-
Thermal Conductivity	0.28	W/mK	ASTM C518
Thermal Shrinkage (4ht/ 500°C)			
- Length	0.56	%	-
- Thickness	0.78	%	
- Weight loss	10.50	%	
Resistance to Continuous Freezing	-30	°C	-
Resistance to Continuous Heating	150	°C	-

This document serves as a Certificate of Physical Properties

### Mechanical Properties

Property	Value	Unit	Standard
Modulus of Rupture			
- Longitudinal (Oven-Dry)	12.0	N/mm <sup>2</sup>	ASTM C1185
- Transverse (Oven-Dry)	9.0	N/mm <sup>2</sup>	
Modulus of Elasticity			
- Longitudinal (Oven-Dry)	7500	N/mm <sup>2</sup>	ASTM C1185
- Transverse (Oven-Dry)	9500	N/mm <sup>2</sup>	
Delamination Strength (Air-Dry)	1.0	N/mm <sup>2</sup>	-

### Reaction to Fire

Property	Value	Unit	Standard
Non-combustibility	Non-combustible	-	BS 476 Part 4
Surface Spread of Flame	Class 1	-	BS 476 Part 7
Building Regulation Classification	Class 0	-	-

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