CEMINTEL

TECHNICAL DATA SHEET | Barestone™ - Internal

PANEL DESCRIPTION / COMPOSITION

Barestone™ - Internal

APPLICATIONS	
	Result
Applications	Internal Linings
Type of Building Structure	Residential Housing Buildings within the scope of AS4055, Commercial & Other
Wet Areas	No

PANEL - DIMENSIONAL & GEOMETRICAL CHARACTERISTICS			
Dimensional/Geometrical Characteristic	Specification	Manufacturing Tolerance	Relevant Standard
Panel Width	1200mm	+0 -2 mm	
Panel Length	2400mm	+0 -2 mm	
Panel Thickness	gmm	+10% -0 mm	
Profile	Square Edge		
Perpendicularity/squareness of edges		1mm/linear meter	
Weight (typical)	17.8kg/m2		
Layout Options	Horizontal, Vertical		
Jointing	Expressed		

PANEL - STRENGTH & MOISTURE RELATED PROPERTIES		
Physical Property	Result	Relevant Standard
Modulus of Rupture (Wet)	>18MPa	AS2908.2
Modulus of Elasticity (Wet)	9-13GPa	AS2908.2
Density (Oven Dry)	1625 kg/m3	AS2908.2
Water Vapor Diffusion	Not Required	Not Required
Water Tightness (24hrs)	No water droplet	AS2908.2
Water Absorption (Saturated - 48hrs)	18 wt%	ASTM C 1186
Moisture Content (EMC)	7 Wt %	ASTM C 1186
Moisture Movement	0.04%	ASTM C 1186

PANEL - OTHER DURABILITY/WEATHER RESISTANCE INDICATORS		
Test	Result	Relevant Standard
Heat Rain	PASSED (25 Cycles)	AS2908.2
Freeze Thaw	PASSED (50 Cycles)	AS2908.2
Warm Water Resistance	PASSED (56 days)	AS2908.2
Soak Dry	PASSED (25 Cycles)	AS2908.2

PANEL - FINISH CHARACTERISTICS		
Characteristic	Result	Relevant Standard
Finish	Prefinished	
Coating Type	Coating Type: Silane (Stain Resistant) *Resistant to standard household markings, however must be cleaned off immediately to avoid permanent staining.	
Colour Bodied	No - Barestone Original Yes - Barestone Colours	
Paint Type		
UV Resistance	N/A	N/A
Formaldehyde Emission Rate	Meets Green Building Council Office Design IEQ-14 Requirements for <0.1mg/m2/hr	ASTM D5116
VOC Emission Rate	Meets Green Building Council Office Design IEQ-14 Requirements for <0.5mg/m2/hr	ASTM D5116

Internal Original 39.8 60.2 +/- 1.2 Medium ASTM E903-12 Internal Ash 23.9 76 +/- 0.7 Dark ASTM E903-12 Internal Graphite 8.7 91.3 +/- 0.3 Dark ASTM E903-12 Internal Lunar 14.3 85.7 +/- 0.4 Dark ASTM E903-12	Spectral Reflectivity Values	Solar Reflectance %	Solar Absorption %	Basix Colour	Relevant Standard
Internal Graphite 8.7 91.3 +/- 0.3 Dark ASTM E903-12	Internal Original	39.8	60.2 +/- 1.2	Medium	ASTM E903-12
	Internal Ash	23.9	76 +/- 0.7	Dark	ASTM E903-12
Internal Lunar 14.3 85.7 +/- 0.4 Dark ASTM E903-12	Internal Graphite	8.7	91.3 +/- 0.3	Dark	ASTM E903-12
	Internal Lunar	14.3	85.7 +/- 0.4	Dark	ASTM E903-12

PANEL - FIRE RESISTANCE, THERMAL & ACCOUSTIC PROPERTIES		
Characteristic	Result	Relevant Standard
FIRE RESISTANCE		
Combustibility	Suitable for use in applications where non-combustible materials are specified by the Deemed to Satisfy Provisions of the BCA Vol 1 Clause C1.9	
Fire Hazard Properties	Group Number 1 SMOGRARC <100 Standard AS5637.1	AS 5637.1
Classification		
THERMAL CONDUCTIVITY		

Characteristic	Result	Relevant Standard
Thermal Conductivity (λ -Factor)	≈ 0.4108 W/m.K.	
Thermal Expansion Co- efficient	0.005-0.01mm/mK	N/A
ACOUSTIC VALUE		
Sound reduction (depends on construction)	N/A	N/A

SYSTEM SOLUTIONS		
Characteristic	Result	Relevant Standard
Within Scope of AS4055?	Yes	
Wind Loading - Residential housing buildings within the scope of AS4055	N/A	
Weatherproofing	Assessed for serviceability loads to 2.5kPa	N/A
Cyclonic Conditions	Tested and assessed to 7.0 kPa	N/A
Fire Resistance Limits (FRLs)	N/A	N/A
Bushfire Construction	N/A	N/A
Acoustic	N/A	N/A
Thermal	N/A	N/A

Up to 600mm
No
Yes
Yes
Yes
Yes
Yes (refer to Designlink for custom solution)
Yes
Yes
No

Characteristic	
CONCEALED FASTENERS	
Clip	No
Countersunk Screw/Nail	Yes
Adhesive, Split Batten, etc.	Yes
Hidden by Overlapping Panel	No
Flush Jointed (Taped)	No

WARRANTY 10 YEARS

April 21, 2022

www.cemintel.com.au

CSR