

PANEL DESCRIPTION / COMPOSITION

Rigid Air Barrier

APPLICATIONS

	Result
Applications	Rigid Air Barrier
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 Dimensions	1200mmW x 3000mmL x 6mmD	Width +0 -3 mm Length +0 -4 mm Thickness +0.5 -0 mm	
Profile	Square Edge		
Perpendicularity/squareness of edges	2mm/linear meter		
Weight (typical)	10kg/m ²		
Layout Options	Vertical & Horizontal		
Jointing	Tape		

PANEL - STRENGTH & MOISTURE RELATED PROPERTIES

Physical Property	Result	Relevant Standard
Modulus of Rupture (Wet)	> 9 MPa	AS2908.2
Modulus of Elasticity (Wet)	3-5 GPa	AS2908.2
Density (Oven Dry)	1350 kg/m ³	AS2908.2
Water Vapor Permeance	0.25µg/N.S	ASTM E96
Water Resistance	4.02 MN .s/g	AS2908.2

Water Tightness (24hrs)	No water droplet	AS2908.2
Water Absorption (Saturated – 48hrs)	30 wt%	ASTM C 1186
Moisture Content (EMC)	< 7 Wt %	ASTM C 1186
Moisture Movement	0.06%	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	Sealed (on face/orange colour)	
Coating Type	CeminSeal®	

Spectral Reflectivity Values	Solar Reflectance %	Solar Absorption %	Basix Colour	Relevant Standard
Rigid Air Barrier				N/A

PANEL - FIRE RESISTANCE, THERMAL & ACOUSTIC 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 2016 BCA Vol 1 Amendment 1 Clause C1.9 (2015 BCA Vol Clause C1.12)	
THERMAL CONDUCTIVITY		
Thermal Conductivity (λ -Factor)	≈ 0.2704 W/m.K.	
Thermal Expansion Co-efficient	0.005-0.01mm/mK	
ACOUSTIC		

VALUE

Sound reduction
(depends on construction)

N/A

SYSTEM SOLUTIONS

Characteristic	Result	Relevant Standard
Within Scope of AS4055?	Yes	
Wind Loading - Residential housing buildings within the scope of AS4055	N1, N2, N3, N4, N5, N6, C1, C2, C3, C4	
Weatherproofing	Suitable for use as part of an external cladding with a pressure equalised cavity system for wind pressures up to 7KPa	N/A

FIXING

Characteristic	
Maximum Span (Stud Spacing)	Up to 600mm
DIRECT FIX	
Nail to Timber Frame	Yes
Screw to Timber Frame	No
Screw to Steel Frame	Yes

WARRANTY

10 YEARS

May 20, 2019