

PANEL DESCRIPTION / COMPOSITION

CeminSeal® Wallboard - Square Edge

APPLICATIONS

	Result
Applications	Internal Linings, Eaves & Soffits (Express jointed only)
Type of Building Structure	Residential Housing Buildings within the scope of AS4055, Commercial & Other
Wet Areas	Yes

PANEL - DIMENSIONAL & GEOMETRICAL CHARACTERISTICS

Dimensional/Geometrical Characteristic	Specification	Manufacturing Tolerance	Relevant Standard
Panel Dimensions	1200mmW x 2400mmL x 6mmD 1200mmW x 2700mmL x 6mmD 1200mmW x 3000mmL x 6mmD 1200mmW x 3600mmL 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)	6mm = 9.4kg/m ² , 9mm = 14kg/m ²		
Layout Options	Horizontal		
Jointing	Butt Jointed, Concealed, Expressed (ceilings only)		

PANEL - STRENGTH & MOISTURE RELATED PROPERTIES

Physical Property	Result	Relevant Standard
Modulus of Rupture (Wet)	> 8 MPa	AS2908.2
Modulus of Elasticity (Wet)	3-5 GPa	AS2908.2

Density (Oven Dry)	1350 kg/m ³	AS2908.2
Water Vapor Diffusion	Not Required	Not Required
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	0.0006	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	Preprimed	
Coating Type	CeminSeal®	
Colour Bodied	No	
Paint Type		
UV Resistance	N/A	N/A
Formaldehyde Emission Rate	Meets Green Building Council Office Design IEQ-14 Requirements for <0.1mg/m ² /hr* *Refers to results obtained for Woodlands Teak	ASTM D5116
VOC Emission Rate	Meets Green Building Council Office Design IEQ-14 Requirements for <0.5mg/m ² /hr* *Refers to results obtained for Woodlands Teak	ASTM D5116

Spectral Reflectivity Values	Solar Reflectance %	Solar Absorption %	Basix Colour	Relevant Standard
CeminSeal® Wallboard - Square Edge				N/A

PANEL - FIRE RESISTANCE, THERMAL & ACOUSTIC PROPERTIES

Characteristic	Result	Relevant Standard
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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)	
Fire Hazard Properties	Group 1 Av Specific Extinction Area <250	AS/NZ 3837
Classification	1	AS/NZ 3837
Surface Burning Characteristics	Ignitability =0, Flame Propagation =0, Heat Release =0, Smoke Release=1	AS1530.3
THERMAL CONDUCTIVITY		
Thermal Conductivity (λ -Factor)	$\approx 0.2776 \text{ W/m.K.}$	
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	N1, N2, N3, N4, N5, C1, C2, C3	
Weatherproofing	N/A	N/A
Cyclonic Conditions	N/A	N/A
Fire Resistance Limits (FRLs)	N/A	N/A
Bushfire Construction	BAL 40 (Construction for Bushfire Attack Level 40 for an external wall)	AS 3959-8
Acoustic	N/A	N/A
Thermal	N/A	N/A

FIXING

Characteristic	
Maximum Span (Stud Spacing)	Up to 1200mm (internal); Up to 1610mm (external)
DIRECT FIX	
Nail to Timber Frame	Yes (walls)
Screw to Timber Frame	No
Screw to Steel Frame	Yes (walls)
INDIRECT FIX	
Timber Frame	Yes (ceilings)
Steel Frame	Yes (ceilings)
Masonry Frame	No
EXPOSED FASTENERS	
Screw	No
Rivet	No
Nail	No
CONCEALED FASTENERS	
Clip	No
Countersunk Screw/Nail	Yes
Adhesive, Split Batten, etc.	Yes
Hidden by Overlapping Panel	No
Flush Jointed (Taped)	Yes

WARRANTY

25 YEARS

January 21, 2019

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CSR