

CEMINTEL®

TECHNICAL DATA SHEET | CEMINTEL® BALMORAL WEATHERBOARDS

APPLICATIONS	
	RESULT
Applications	Façades & Cladding
Type of Building Structure	Residential Housing Buildings within the scope of AS4055
Wet Areas	No

PANEL – DIMENSIONAL & GEOMETRICAL CHARACTERISTICS			
DIMENSIONAL/ GEOMETRICAL CHARACTERISTIC	SPECIFICATION	MANUFACTURING TOLERANCE	RELEVANT STANDARD
Panel Width	180mm		
Panel Length	4200mm	+1, -0 mm	
Panel Thickness	16mm	+0, -2 mm	
Profile	Arrised Edge	+0.5, -0 mm	
Perpendicularity/squareness of edges	2mm/linear metre		
Weight (typical)	3.8 kg/linear metre - 180mm		
Layout Options	Horizontal		
Jointing	Shiplap		

PANEL – STRENGTH & MOISTURE RELATED PROPERTIES		
PHYSICAL PROPERTY	CAS NUMBER	PROPORTION
Modulus of Rupture (Wet)	> 9 MPa	AS2908.2
Modulus of Elasticity (Wet)	1.5-2.0 GPa	AS2908.2
Density (Oven Dry)	1200 kg/m3	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 (30-90% Humidity)	0.062%	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	N/A
Coating Type	N/A	N/A
Colour Bodied	No	N/A
Paint Type	N/A	N/A
UV Resistance	N/A	N/A
Formaldehyde Emission Rate	N/A	N/A
VOC Emission Rate	N/A	N/A

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	N/A	
Surface Burning		
Thermal Resistance	0.0720 m ² K/W	ASTM C518-10
Thermal Conductivity (λ-Factor)	0.2290 W/m.K	ASTM C518-10
Thermal Expansion Coefficient	N/A	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	Serviceability wind loads up to 1.19kPa	BCA Fv1.1
Cyclonic Conditions	N/A	AS 4055
Fire Resistance Limits (FRLs)	Refer to The Red Book™ 1 - Design Guide	AS 1530.4
Bushfire Construction	BAL 40 (Construction for Bushfire Attack Level 40 for an external wall)	AS 3959-8
Acoustic	Refer to The Red Book™ 1 - Design Guide	AS/NZS ISO 717
Thermal	Refer to The Red Book™ 1 - Design Guide	N/A

FIXING

CHARACTERISTIC

Maximum Span (Stud Spacing)	Up to 600mm
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Direct Fix

Nail to Timber Frame	Yes
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Screw to Timber Frame	No
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Screw to Steel Frame	Yes
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Cavity Fix

Timber Frame	Yes – nail to timber through battens
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Steel Frame	Yes – screw to steel frame through battens
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Masonry Frame	No
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Exposed Fasteners

Screw	No
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Rivet	No
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Nail	No
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Concealed Fasteners

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

10 YEARS