

PANEL DESCRIPTION / COMPOSITION

Street Style - 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	150mm & 180mm	+1, -0 mm	
Panel Length	4200mm	+0, -2 mm	
Panel Thickness	16mm	+0.5, -0 mm	
Profile	Arrised Edge		
Perpendicularity/squareness of edges	2mm/linear metre		
Weight (typical)	3.2kg/linear metre - 150 mm 3.8 kg/linear metre - 180mm		
Layout Options	Horizontal		
Jointing	Shiplap		

PANEL - STRENGTH & MOISTURE RELATED PROPERTIES

Physical Property	Result	Relevant Standard
Modulus of Rupture (Wet)	> 9 MPa	AS2908.2
Modulus of Elasticity (Wet)	1.5-2.0 GPa	AS2908.2
Density (Oven Dry)	1200 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 (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

Spectral Reflectivity Values

Spectral Reflectivity Values	Solar Reflectance %	Solar Absorption %	Basix Colour	Relevant Standard
Balmoral Weatherboards Balmoral 150mm				
Balmoral Weatherboards Balmoral 180mm				

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	
Classification		
Surface Burning Characteristics		
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 Co-efficient	N/A	N/A
ACOUSTIC VALUE	N/A	N/A

Characteristic	Result	Relevant Standard
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	Result
Maximum Span (Stud Spacing)	Up to 600mm
DIRECT FIX	
Nail to Timber Frame	Yes
Screw to Timber Frame	No
Screw to Steel Frame	Yes
CAVITY FIX	
Timber Frame	Yes- nail to timber through battens
Steel Frame	Yes- screw to steel frame through battens
Masonry Frame	No
EXPOSED FASTENERS	
Screw	No
Rivet	No
Nail	No
CONCEALED FASTENERS	
Clip	No
Countersunk Screw/Nail	No
Adhesive, Split Batten, etc.	No

Characteristic

Hidden by Overlapping Panel	Yes
Flush Jointed (Taped)	No

WARRANTY 25 YEARS

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