

TECHNICAL DATA SHEET | COMMERCIAL EXPRESSPANEL®/EXPRESSWALL™

APPLICATIONS	
	RESULT
Applications	Façades & Cladding
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	900 mmW x 1800 mmL x 9 mmD 900 mmW x 2400 mmL x 9 mmD 900 mmW x 3000 mmL x 9 mmD 1200 mmW x 1800 mmL x 9 mmD 1200 mmW x 2100 mmL x 9 mmD 1200 mmW x 2400 mmL x 9 mmD 1200 mmW x 2700 mmL x 9 mmD 1200 mmW x 3000 mmL x 9 mmD	Width +0 -2 mm Length +0 -2 mm Thickness +0.9 -0 mm	
Profile	Square Edge		
Perpendicularity/squareness of edges	1 mm/linear metre		
Weight (typical)	17.8 kg/m ²		
Layout Options	Horizontal, Vertical, Diagonal/Al, Curved		
Jointing	Expressed		

PANEL – STRENGTH & MOISTURE RELATED PROPERTIES			
PHYSICAL PROPERTY	RESULT	RELEVANT STANDARD	
Modulus of Rupture (Wet)	>18 MPa	AS2908.2	
Modulus of Elasticity (Wet)	9-13 GPa	AS2908.2	
Density (Oven Dry)	1625 kg/m ³	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	Preprimed			
Coating Type	Sealer Type: Pigmented Sealer On Face			
Colour Bodied	No			
Paint Type				
UV Resistance	N/A		N/A	
Formaldehyde Emission Rate	N/A		N/A	
VOC Emission Rate	N/A		N/A	
SPECTRAL REFLECTIVITY VALUES	SOLAR REFLECTANCE %	SOLAR ABSORPTION %	BASIX COLOUR	RELEVANT STANDARD
Commercial ExpressPanel®				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)	
Fire Hazard Properties	Group 1 Av Specific Extinction Area <250	AS5637.1
Classification	1	AS/NZ3837
Thermal Conductivity		
Thermal Conductivity (λ-Factor)	≈ 0.4108 W/m.K	N/A
Thermal Expansion Co-efficient	0.005-0.01 mm/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, N6, C1, C2, C3, C4	
Weatherproofing	Passed weathertesting at serviceability pressure of 3kpa (ultimate 4.5kpa)	AS4284
Cyclonic Conditions	Assessed to pass cyclonic testing at 6.4kpa (ultimate 7kpa)	AS4040.3
Fire Resistance Limits (FRLs)	Up to 120/120/120 & -/180/180	Refer to Gyprock® The Red Book™
Bushfire Construction	BAL 40 (Construction for Bushfire Attack Level 40 for an external wall)	AS3959-8
Acoustic	Acoustic solutions of up to RW/RW+CTR 56/47 are detailed	Refer to Gyprock® The Red Book™
Thermal	Thermal solutions of up to RT(sum)/RT(win) 3.5/3.8 are detailed	Refer to Gyprock® The Red Book™

FIXING

CHARACTERISTIC

Maximum Span (Stud Spacing) Up to 600 mm

Direct Fix

Nail to Timber Frame No

Screw to Timber Frame No

Screw to Steel Frame No

Cavity Fix

Timber Frame Yes

Steel Frame Yes

Masonry Frame Yes

Exposed Fasteners

Screw Yes

Rivet Pending

Nail No

Concealed Fasteners

Clip No

Countersunk Screw/Nail Yes

Adhesive, Split Batten, etc. No

Hidden by Overlapping Panel No

Flush Jointed (Taped) No

WARRANTY

10 YEARS