## CEMINTEL

TECHNICAL DATA SHEET | Commercial ExpressPanel® / ExpressWall™

PANEL DESCRIPTION / COMPOSITION

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	900mmW x 1800mmL x 9mmD 900mmW x 2400mmL x 9mmD 900mmW x 3000mmL x 9mmD 1200mmW x 1800mmL x 9mmD 1200mmW x 2100mmL x 9mmD 1200mmW x 2400mmL x 9mmD 1200mmW x 2700mmL x 9mmD 1200mmW x 3000mmL x 9mmD	Width +0 -2 mm Length +0 -2 mm Thickness +0.9 -0 mm	
Profile	Square Edge		
Perpendicularity/squareness of edges	1mm/linear meter		
Weight (typical)	17.8kg/m2		
Layout Options	Horizontal, Vertical, Diagonal/Al, Curved		
Jointing	Expressed		

PANEL - STRENGTH & MOISTURE RELATED PROPERTIES			
Physical Property	Result	Relevant Standard	
Modulus of Rupture (Wet)	>18MPa	AS2908.2	
Modulus of Elasticity (Wet)	9-13GPa	AS2908.2	
Density (Oven Dry)	1625 kg/m3	AS2908.2	
Water Vapor Diffusion	Not Required	Not Required	

Physical Property	Result	Relevant Standard
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 F	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 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 5637.1
Classification	1	AS/NZ 3837
THERMAL CONDUCTIVITY		

Characteristic	Result	Relevant Standard
Thermal Conductivity (λ- Factor)	≈ 0.4108 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, N6, C1, C2, C3, C4	
Weatherproofing	Passed weathertesting at serviceability pressure of 3kpa (ultimate 4.5kpa)	AS 4284
Cyclonic Conditions	Assessed to pass cyclonic testing at 6.4kpa (ultimate 7kpa)	AS 4040.3
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)	AS 3959-8
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 600mm
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

Characteristic	
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

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