

PANEL DESCRIPTION / COMPOSITION

## Cladding Sheet

### APPLICATIONS

	Result
Applications	Façades & Cladding, Eaves & Soffits
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 Dimensions	900mmW x 2400mmL x 6mmD 1200mmW x 1800mmL x 6mmD 1200mmW x 2400mmL x 6mmD 1200mm W x 2700mmL x 6mmD 1200mm W x 3000mmL x 6mmD 900mmW x 1800mmL x 4.5mmD 900mmW x 2400mmL x 4.5mmD 1200mmW x 1800mmL x 4.5mmD 1200mmW x 2400mmL x 4.5mmD 1200mmW x 2700mmL x 4.5mmD 1200mmW x 3000mmL x 4.5mmD	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 = 10kg/m <sup>2</sup> , 4.5mm = 7.3kg/m <sup>2</sup>		
Layout Options	Vertical		
Jointing	Cover Strip		

### PANEL - STRENGTH & MOISTURE RELATED PROPERTIES

Physical Property	Result	Relevant Standard
Modulus of Rupture (Wet)	> 9 MPa	AS2908.2
Modulus of Elasticity (Wet)	3-5 GPa	AS2908.2
Density (Oven Dry)	1350 kg/m <sup>3</sup>	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)	30 wt%	ASTM C 1186
Moisture Content (EMC)	7 Wt %	ASTM C 1186
Moisture Movement	0.06%	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	Unprimed	
Coating Type		
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
Cladding Sheet				N/A

## PANEL - FIRE RESISTANCE, THERMAL & ACCOUSTIC PROPERTIES

Characteristic	Result	Relevant Standard
<b>FIRE RESISTANCE</b>		
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
<b>THERMAL CONDUCTIVITY</b>		

Characteristic	Result	Relevant Standard
Thermal Conductivity ( $\lambda$ -Factor)	$\approx 0.2704$ W/m.K.	
Thermal Expansion Co-efficient	0.005-0.01mm/mK	N/A
<b>ACOUSTIC VALUE</b>		
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, C1, C2, C3	
Weatherproofing	Suitable for all building classes as set out in the BCA (ie 1&10, 2-9)	N/A
Cyclonic Conditions	N/A	N/A
Fire Resistance Limits (FRLs)	Up to 120/120/120 - 180/180	Refer to Gyprock® The Red Book™
Bushfire Construction	BAL 29 (Construction for Bushfire Attack Level 29 for an external wall), BAL 40 (Eaves only) - 6mm cladding sheet only	AS 3959-8
Acoustic	Acoustic solution of up to RW/RW+CTR 53/44 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	Result
Maximum Span (Stud Spacing)	Up to 600mm
<b>DIRECT FIX</b>	
Nail to Timber Frame	Yes
Screw to Timber Frame	Option for ceilings/eaves
Screw to Steel Frame	No
<b>CAVITY FIX</b>	
Timber Frame	Yes
Steel Frame	Yes
Masonry Frame	No
<b>EXPOSED FASTENERS</b>	

Characteristic	
Screw	No
Rivet	No
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

25 YEARS

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