

PANEL DESCRIPTION / COMPOSITION

Compressed Sheet

APPLICATIONS

	Result
Applications	Flooring & Decking
Type of Building Structure	Residential Housing Buildings within the scope of AS4055, Commercial & Other (Limited loadings - refer to Design & Installation Guide)
Wet Areas	Yes

PANEL - DIMENSIONAL & GEOMETRICAL CHARACTERISTICS

Dimensional/Geometrical Characteristic	Specification	Manufacturing Tolerance	Relevant Standard
Panel Dimensions	1200mmW x 2400L x 6mmD 1200mmW x 2400mmL x 12mmD 1200mmW x 3000mmL x 12mmD 900mmW x 1800mmL x 15mmD 900mmW x 2100mmL x 15mmD 900mmW x 2400mmL x 15mmD 900mmW x 2700mmL x 15mmD 900mmW x 3000mmL x 15mmD 1200mmW x 1800mmL x 15mmD 1200mmW x 2100mmL x 15mmD 1200mmW x 2400mmL x 15mmD 1200mmW x 2700mmL x 15mmD 1200mmW x 3000mmL x 15mmD 900mmW x 2400mmL x 18mmD 900mmW x 3000mmL x 18mmD 1200mmW x 1800mmL x 18mmD 1200mmW x 2400mmL x 18mmD 1200mmW x 3000mmL x 18mmD 1200mmW x 2400mmL x 24mmD	Width +0 -3 mm Length +0 -3 mm Thickness +10% -0%	
Profile	Square Edge		
Perpendicularity/squareness of edges	1mm/linear meter		
Weight (typical)	6mm = 11.9kg/m ² , 12mm = 23.4kg/m ² , 15mm = 29.25kg/m ² , 18mm = 35.1kg/m ²		

Layout Options	N/A
Joining	Butt Jointed, Sealant

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/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	0.039%	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

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	AS/NZ 3837
Classification	1	AS/NZ 3837
Surface Burning Characteristics	Ignitability =0, Flame Propagation =0, Heat Release =0, Smoke Release=1	AS1530.3
THERMAL CONDUCTIVITY		
Thermal Conductivity (λ -Factor)	$\approx 0.4108 \text{ W/m.K.}$	
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	N/A	
Weatherproofing	N/A	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 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 450mm (15mm). Up to 600mm (18mm).

DIRECT FIX

Nail to Timber Frame No

Screw to Timber Frame Yes

Screw to Steel Frame Yes

INDIRECT FIX

Timber Frame No

Steel Frame No

Masonry Frame No

EXPOSED FASTENERS

Screw No

Rivet No

Nail No

CONCEALED FASTENERS

Clip No

Countersunk Screw/Nail Yes

Adhesive, Split Batten, etc. Yes

Hidden by Overlapping Panel No

Flush Jointed (Taped) No

WARRANTY

25 YEARS

January 21, 2019