

PANEL DESCRIPTION / COMPOSITION

## Ceramic Tile Underlay

### APPLICATIONS

	Result
Applications	Flooring & Decking
Type of Building Structure	Residential Housing Buildings within the scope of AS4055, Commercial & Other
Wet Areas	Yes

### PANEL - DIMENSIONAL & GEOMETRICAL CHARACTERISTICS

Dimensional/Geometrical Characteristic	Specification	Manufacturing Tolerance	Relevant Standard
Panel Width	900mm	+0 -4 mm	
Panel Length	1800mm	+0 -5 mm	
Panel Thickness	6mm	+0.5 -0 mm	
Profile	Square Edge		
Perpendicularity/squareness of edges	1mm/linear meter		
Weight (typical)	9.4kg/m <sup>2</sup>		
Layout Options	N/A		
Jointing	Butt jointed, Sealant		

### PANEL - STRENGTH & MOISTURE RELATED PROPERTIES

Physical Property	Result	Relevant Standard
Modulus of Rupture (Wet)	> 7 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
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	0.05%	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	Sealer: Polyacrylic	
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
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#### 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 ( $\lambda$ -Factor)	$\approx 0.2776$ 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 60/60/60	Refer to Gyprock® The Red Book™
Bushfire Construction	N/A	N/A
Acoustic	Possible to achieve RW+CTR of greater than 50 & Ln,w of less than 62	Refer to Gyprock® The Red Book™
Thermal	N/A	N/A

## FIXING

Characteristic	
Maximum Span (Stud Spacing)	N/A
DIRECT FIX	
Nail to Timber Frame	Yes

Screw to Timber Frame	No
Screw to Steel Frame	No
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	No
Adhesive, Split Batten, etc.	Yes
Hidden by Overlapping Panel	No
Flush Jointed (Taped)	No

WARRANTY

25 YEARS

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