

PANEL DESCRIPTION / COMPOSITION

Ceramic Tile Underlay

APPLICATIONS

	Result
Applications	Flooring
Type of Building Structure	Residential Housing Buildings, Commercial & Other
Wet Areas	Yes

PANEL - DIMENSIONAL & GEOMETRICAL CHARACTERISTICS

Dimensional/Geometrical Characteristic	Specification	Manufacturing Tolerance	Relevant Standard
Panel Width	900mm & 1200mm	+0 -4 mm	
Panel Length	1800mm	+0 -5 mm	
Panel Thickness	6mm	+0.5 -0 mm	
Profile	Square Edge		
Perpendicularity/squareness of edges	1.5mm/linear meter		
Weight (typical)	9.4kg/m ²		
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	
Density (Oven Dry) Min.	1300 kg/m ³	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 (30-90% Relative Humidity)	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	N/A	N/A
Coating Type	Sealer: Polyacrylic	N/A
Colour Bodied	N/A	N/A
Paint Type	N/A	N/A
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 2019 BCA Vol 1 Clause C1.9	
Fire Hazard Properties	Group 1 Av Specific Extinction Area <250	AS 5637.1
Classification	N/A	AS/NZ 3837
THERMAL CONDUCTIVITY		
Thermal Conductivity (λ -Factor)	≈ 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?	N/A	N/A
Wind Loading - Residential housing buildings within the scope of AS4055	N/A	N/A
Weatherproofing	N/A	N/A
Cyclonic Conditions	N/A	N/A
Fire Resistance Limits (FRLs)	N/A	N/A
Bushfire Construction	N/A	N/A
Acoustic	N/A	N/A
Thermal	N/A	N/A

FIXING

Characteristic	Result	Relevant Standard
Maximum Span (Joist Spacing)		N/A
DIRECT FIX		N/A
Nail to Timber Flooring		Yes
Screw to Timber Frame		N/A
Screw to Steel Frame		N/A
CAVITY FIX		
Timber Frame		N/A
Steel Frame		N/A
Masonry Frame		N/A
EXPOSED FASTENERS		
Screw		N/A
Rivet		N/A
Nail		N/A
CONCEALED FASTENERS		
Clip		N/A
Countersunk Screw/Nail		N/A
Adhesive, Split Batten, etc.		N/A
Hidden by Overlapping Panel		N/A
Flush Jointed (Taped)		N/A

WARRANTY

25 YEARS

