

## TECHNICAL DATA SHEET | CERAMIC TILE UNDERLAY

APPLICATIONS	
	RESULT
<b>Applications</b>	Flooring
<b>Type of Building Structure</b>	Residential Housing Buildings, Commercial & Other
<b>Wet Areas</b>	Yes

PANEL – DIMENSIONAL & GEOMETRICAL CHARACTERISTICS			
DIMENSIONAL/ GEOMETRICAL CHARACTERISTIC	SPECIFICATION	MANUFACTURING TOLERANCE	RELEVANT STANDARD
<b>Panel Width</b>	900 mm & 1200 mm	+0 -4 mm	
<b>Panel Length</b>	1800 mm	+0 -5 mm	
<b>Panel Thickness</b>	6 mm	+0.5 -0 mm	
<b>Profile</b>	Square Edge		
<b>Perpendicularity/squareness of edges</b>	1.5 mm/linear metre		
<b>Weight (typical)</b>	9.4 kg/m <sup>2</sup>		
<b>Layout Options</b>	N/A		
<b>Jointing</b>	Butt jointed, Sealant		

PANEL – STRENGTH & MOISTURE RELATED PROPERTIES			
PHYSICAL PROPERTY	RESULT	RELEVANT STANDARD	
<b>Modulus of Rupture (Wet)</b>	>7 MPa	AS2908.2	
<b>Modulus of Elasticity (Wet)</b>	3-5 GPa		
<b>Density (Oven Dry)</b>	1300 kg/m <sup>3</sup>	AS2908.2	
<b>Water Vapor Diffusion</b>	Not Required	Not Required	
<b>Water Tightness (24hrs)</b>	No water droplet	AS2908.2	
<b>Water Absorption (Saturated – 48hrs)</b>	30 wt%	ASTM C 1186	
<b>Moisture Content (EMC)</b>	7 wt%	ASTM C 1186	
<b>Moisture Movement</b>	0.05%	ASTM C 1186	

PANEL – OTHER DURABILITY/WEATHER RESISTANCE INDICATORS		
TEST	RESULT	RELEVANT STANDARD
<b>Heat Rain</b>	PASSED (25 Cycles)	AS2908.2
<b>Freeze Thaw</b>	PASSED (50 Cycles)	AS2908.2
<b>Warm Water Resistance</b>	PASSED (56 Days)	AS2908.2
<b>Soak Dry</b>	PASSED (25 Cycles)	AS2908.2

**PANEL – FINISH CHARACTERISTICS**

CHARACTERISTIC	RESULT	RELEVANT STANDARD		
<b>Finish</b>	N/A	N/A		
<b>Coating Type</b>	Sealer: Polyacrylic	N/A		
<b>Colour Bodied</b>	N/A	N/A		
<b>Paint Type</b>	N/A	N/A		
<b>UV Resistance</b>	N/A	N/A		
<b>Formaldehyde Emission Rate</b>	N/A	N/A		
<b>VOC Emission Rate</b>	N/A	N/A		
SPECTRAL REFLECTIVITY VALUES	SOLAR REFLECTANCE %	SOLAR ABSORPTION %	BASIX COLOUR	RELEVANT STANDARD
Ceramic Tile Underlay				N/A

**PANEL – FIRE RESISTANCE, THERMAL & ACOUSTIC 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 2019 BCA Vol 1 Clause C1.9	
Fire Hazard Properties	Group 1 Av Specific Extinction Area <250	AS5637.1
Classification	N/A	AS/NZ3837
<b>Thermal Conductivity</b>		
Thermal Conductivity (λ-Factor)	≈ 0.2776 W/m.K	
Thermal Expansion Co-efficient	0.005-0.01 mm/mK	N/A
<b>Acoustic Value</b>		
Sound reduction (depends on construction)	N/A	N/A

**SYSTEM SOLUTIONS**

CHARACTERISTIC	RESULT	RELEVANT STANDARD
<b>Within Scope of AS4055?</b>	N/A	N/A
<b>Wind Loading – Residential housing buildings within the scope of AS4055</b>	N/A	N/A
<b>Weatherproofing</b>	N/A	N/A
<b>Cyclonic Conditions</b>	N/A	N/A
<b>Fire Resistance Limits (FRLs)</b>	N/A	N/A
<b>Bushfire Construction</b>	N/A	N/A
<b>Acoustic</b>	N/A	N/A
<b>Thermal</b>	N/A	N/A

**FIXING**

**CHARACTERISTIC**

Maximum Span (Joist Spacing) N/A

**Direct Fix**

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