

CEMINTEL®

Fire Performance of
Cemintel Surround™



COMPLIANCE FOR NON-COMBUSTIBLE MATERIALS SURROUND™ – AUGUST 2019

Cemintel® is an Australian company and part of the iconic CSR Building Products Pty Ltd, manufacturing and supplying cement panels and building systems used for external facades, internal linings, ceilings and flooring in commercial and residential applications.

The following information is provided in regards to Cemintel Surround™ and its non-combustible attributes:

- Cemintel Surround is made from cement, wood pulp, reinforced fibres, air and water.
- Cemintel Surround is naturally air cured.
- Cemintel Surround is manufactured in Europe to EN12467 (Fibre-cement flat sheets) and has been tested in accordance with the standard characteristic type tests required by AS 2908.2 (Fibre-cement flat sheets) for Type A Category 5 classification
- Cemintel Surround may be used where non-combustible materials are required by the Building Code of Australia (BCA) and according to the National Construction Code (NCC) Volume 1 Section C1.9 and Volume 2 Section 3.7.1.2.
- Cemintel fibre cement products have been assessed by Exova (WFRA 45759) in accordance with AS/NZS 3837 ('Method test for heat and smoke release for materials and products using an oxygen consumption calorimeter') and have been classified to conform to Group 1 (high and best result possible) with an average specific extinction area far lower than the permissible 250m²/kg, as referenced in specification C1.10 of the BCA.

For further information on Cemintel Surround, please refer to Compliance Certificate and Certificate of Physical Properties attached.

COMPLIANCE CERTIFICATE

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Surround panels are manufactured in Europe and have been tested to the following characteristic type tests in accordance with the standard:

- Bending Strength
- Water Permeability
- Frost Resistance (Freeze - Thaw test)
- Warm Water
- Heat - Rain
- Soak - Dry
- Dimensional and Geometrical Characteristics
- Apparent Density

Detailed Technical Specifications for Surround panels can be downloaded at www.cemintel.com.au/technical/technical-data-sheets/

CERTIFICATE OF PHYSICAL PROPERTIES

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PANEL – STRENGTH & MOISTURE RELATED PROPERTIES		
Physical Property	Result	Relevant Standard
Modulus of Rupture (Wet)	> 18 Mpa	EN12467
Modulus of Elasticity (Wet)	9-13 Gpa	EN12467
Density (Oven Dry)	1750 Kg/m ³	EN12467
Water Vapor Diffusion	Not required	Not required
Water Tightness (24hrs)	No water droplet	EN12467
Water Absorption (Saturated - 48hrs)	18 Wt%	ASTM C 1186
Moisture Content (EMC)	7 Wt%	ASTM C 1186
Moisture Movement	0.04%	ASTM C 1186

CERTIFICATE OF PHYSICAL PROPERTIES

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PANEL – OTHER DURABILITY/WEATHER RESISTANCE INDICATORS

Test	Result	Relevant Standard
Heat Rain	PASSED (25 Cycles)	EN12467
Freeze Thaw	PASSED (50 Cycles)	EN12467
Warm Water Resistance	PASSED (56 days)	EN12467
Soak Dry	PASSED (25 Cycles)	EN12467

PANEL – FIRE RESISTANCE, THERMAL & ACOUSTIC PROPERTIES

Characteristic	Result	Relevant Standard
FIRE RESISTANCE		
Combustibility	Assessed as suitable for use in applications where non-combustible materials are specified by the Deemed to Satisfy Provisions.	
Group Number	1	AS/NZ 3837
Average Specific Extinction Area	<250	AS/NZ 3837
E.F.H.I	Ignitability index = 0 Flame spread index = 0 Heat evolved index = 0 Smoke developed = 2-3	AS/NZS 1530.3
THERMAL CONDUCTIVITY		
Thermal Conductivity (λ -Factor)	0.5 - 1.0W/mK	
Thermal Expansion Co-efficient	0.01mm/mK	N/A

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376 Victoria St
Wetherill Park NSW 2164

1300 236 468
info@cemintel.com.au

cemintel.com.au

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