

# INSULCLAD PRE-MESH PANEL

## TECHNICAL FACT SHEET

TECHNICAL SPECIFICATIONS		STANDARDS
CodeMark Compliance	<p>Compliance to provisions of the Building Code of Australia:</p> <ul style="list-style-type: none"> <li>External Insulated Finishing System (EIFS) for resident Class 1 &amp; 10 Buildings.</li> <li>See CodeMark appraisals.</li> </ul>	BCA Compliant
VOC	<p>Exceeds requirements of Californian South Coast Air Quality Management District (rule 1168):</p> <ul style="list-style-type: none"> <li>Zero VOC content in production.</li> <li>&lt;0.8g / l VOC used in manufacture.</li> </ul>	Design Rule 1116 (CSQAMD)
Non-Ozone Depleting	Zero CFC/HCFC or any other substances of ozone depleting potential.	
Structure	<p>Meets all performance requirements of the BCA for imposed actions: wind, differential movement, creep and shrinkage:</p> <ul style="list-style-type: none"> <li>P2.1.1(a) &amp; (b)(iii) Structural Stability and resistance to actions. 2.2.2 Weatherproofing _ Subject to Limitations and Conditions 10.</li> <li>P2.2.3 Rising damp.</li> <li>3.12.1.4 Construction in bushfire prone areas - up to BAL-29 - subject to limitations and conditions 11 and 12.</li> <li>3.12.1.4 Energy Efficiency - External Walls. Must be used in conjunction with other building elements to achieve a total R Value.</li> <li>3.10.5.0 (NSW, QLD), Part 3.12 (NSW,NT,SA,QLD,TAS,ACT).</li> </ul>	BCA Part B1 & Part 2.2
Wind Zone*	<p>N1 – N2 @ 600mm centres.</p> <p>N3 @ 400mm centres.</p> <p>*Please refer to Construction Manual.</p>	AS4055
Termite Protection	<p>All Insulclad panels are made with Preventol®, an exclusive termite protection system. Included in the formulation of the EPS, this additive is used during the production process when the Insulclad EPS panels are manufactured, and it provides proven protection to the EPS against termite attack.</p> <p>Tested in Australia in accordance with Australian Wood Preservation Committee protocols for Assessment of Wood Preservations.</p> <p>Approved by the Australian Pesticides &amp; Veterinary Medicines Authority.</p>	AWCP2007 Approval No. 55846
Combustibility	<p>CSIRO report "Toxicity Consideration of Combustion Products from Cellular Plastics" comments that toxicity of gases associated with burning of EPS is no greater than that associated with timber.</p>	AS 1530.3

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PRODUCT SPECIFICATIONS		STANDARDS
Panel Size & Thickness	2500 x 1200 x 50mm	AS 1366.3
	2500 x 1200 x 75mm	
	2500 x 1200 x 100mm	
Panel Type	M Grade	
EPS Panel Nominal Density	19kg/m <sup>3</sup>	AS 1366.3
Thermal Conductivity (K)	0.041 w/(m <sup>2</sup> K)	AS 1366.3
Compressive Strength	105 kpa	AS 2498.3
Cross Breaking Strength	200 kpa	AS 2498.4
Dimensional Stability	1%	AS 2498.6

### THERMAL SPECIFICATIONS

The Insulclad® Rendered Wall System with breathable, non-reflective wall wrap and 10mm plasterboard lining achieves total R-Values in accordance with AS/NZS 4859.1 and .2: 2018.

#### INSULCLAD DIRECT FIX: Total R-Value to AS/NZS 4859.1:2018

Panel Thickness	Timber Frame (90 x 45 @ 600mm c/c)		Steel Frame (90 x 35 @ 600mm c/c)	
	Summer	Winter	Summer	Winter
50mm	1.66	1.74	1.59	1.68
75mm	2.25	2.36	2.18	2.29
100mm	2.92	3.07	2.86	3.01

#### INSULCLAD CAVITY FIX (with 25mm VH grade battens): Total R-Value to AS/NZS 4859.1:2018

Panel Thickness	Timber Frame (90 x 45 @ 600mm c/c)		Steel Frame (90 x 35 @ 600mm c/c)	
	Summer	Winter	Summer	Winter
50mm	1.83	1.94	1.78	1.88
75mm	2.43	2.56	2.37	2.50
100mm	3.12	3.29	3.05	3.22