

TECHNICAL FACT SHEET

RENDERED WALL SYSTEM

		STANDARDS
BCA Compliance	Compliance to provisions of Building Code of Australia <ul style="list-style-type: none"> ● Volume 1-Class 1 & 10 ● Volume 2-Class 2 to 9 ● See Branz Appraisals 	BCA Alternative Solution
Branz Appraisals	Tested and Appraised by BRANZ Limited for Compliance to BCA <ul style="list-style-type: none"> ● BRANZ Appraisal No 696 Insulclad Direct Fixed Cladding System-Technical Assessments of Products for Building and Construction ● BRANZ Appraisal No 697 Insulclad Cavity System-Technical Assessments of Products for Building and Construction 	
VOC	<ul style="list-style-type: none"> ● Exceeds requirements of Californian South Coast Air Quality Management District (rule 1168) ● Zero VOC content in product ● <0.8g/l VOC used in manufacture 	Design Rule 1168 (CSCAQMD)
Non-Ozone Depleting	<ul style="list-style-type: none"> ● Zero CFC/HCFC's or any other substances of Ozone Depleting Potential 	Green Star ODP Compliant
Structure	Meets the performance requirements of BCA for imposed actions: wind, differential movement, creep and shrinkage; <ul style="list-style-type: none"> ● Volume 1 Part B1-Structural Provisions [BP1.1 (b) (iii), (x) & (xi)] ● Volume 2 Part 2.1-Structure [BP1.1 (b) (iii), (x) & (xi)] 	BCA Part B1 & Part 2.1
Wind Zones	<ul style="list-style-type: none"> ● N1 to N2 @ 600mm centres ● N3 @ 400mm centres 	AS4055
Weatherproofing	Insulclad® Systems meet the performance requirements of BCA: <ul style="list-style-type: none"> ● Volume 1 Part F1 (FP1.4) ● Volume 2 Part 2.2 (P2.2.2) 	BCA Part F1 & Part 2.2
Termite Protection	All Insulclad® panels are made with Preventol®, an exclusive termite protection system, included in the formulation of the EPS. It is an additive used during the production process when the Insulclad® EPS panels are manufactured and provides proven protection to the EPS against termite attack. <ul style="list-style-type: none"> ● Tested in Australia in accordance with Australasian Wood Preservation Committee Protocols for Assessment of Wood Preservatives ● Approved by the Australian Pesticides & Veterinary Medicines Authority 	AWPC2007 Approval No 55846
Combustibility	CSIRO report (" <i>Toxicity Considerations of Combustion Products from Cellular Plastics</i> ") comments that toxicity of gases associated with burning of EPS is no greater than that associated with timber. <ul style="list-style-type: none"> ● Ignitability-12 ● Spread of Flame-0 ● Heat Evolved-3 ● Smoke Developed-5 	AS1530.3
Panel Sizes	<ul style="list-style-type: none"> ● Pre-Mesh Panel: 1200mm x 2500mm ● Core Panel: 1200mm x 2500mm 1200mm x 5000mm 	AS1366.3



	S GRADE			M GRADE			STANDARDS
EPS Panel Nominal Density	16kg/m3			19kg/m3			AS1366.3
Thermal Conductivity (k)	0.043 W/(m2.K)			0.041 W/(m2.K)			AS1366.3
	System R-Values			System R-Values			AS4859.1
Panel Thickness	50mm	75mm	100mm	50mm	75mm	100mm	
Direct Fixed System	R 1.49	R 2.07	R 2.66	R 1.55	R 2.16	R 2.77	
Cavity System	R 1.65	R 2.23	R 2.82	R 1.71	R 2.32	R 2.93	
Compressive Stress	85 kPa			105 kPa			AS2498.3
Cross Breaking Strength	165 kPa			200 kPa			AS2498.4
Dimensional Stability	1%			1%			AS2498.6
	Panel Weights			Panel Weights			
Pre-Mesh Panel 2.5m x 1.2m	n/a	n/a	n/a	5.8 kg	7.3 kg	8.7 kg	
Core Panel 2.5m x 1.2m	2.4 kg	3.6 kg	4.8 kg	2.8 kg	4.3 kg	5.7 kg	
Core Panel 5.0m x 1.2m	4.8 kg	7.2 kg	9.6 kg	5.7 kg	8.6 kg	11.4 kg	



The above information is presented as a guide only. The manufacturer's Design & Installation Manual, Construction Details & Branz Appraisals must be referred to prior to installing Insulclad® systems.

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COMBINING EXTERIOR CLADDING WITH SUPERIOR INSULATION