

## Thermacon "Insulsteel 65 - Breather"

**"Insulsteel 65 Breather** has been developed by **Thermacon Insulsteel** Pty. Ltd as a thermal break, insulation, and vapour barrier all in one, to comply with the BCA standards<sup>\*</sup> and the National Construction Code 2011, which requires an R0.20 thermal break for steel framed constructions to reduce thermal bridging and conductivity between the building products. Insulsteel 65 Breather allows vapour permeance behind cladding materials when required.

Manufactured utilizing a chemically cross-linked polyethylene foam structure, Insulsteel 65 Breather is laminated on both sides with highly reflective foil, with one side antiglare. Insulsteel 65 Breather is manufactured with tiny breather holes. These breather holes allow moisture permeance.

<sup>\*</sup>BCA Vol 1. Section J1.3(d) J1.5(b) (c) Vol 2. 3.12.1.2(c) Roof 3.12.1.4 (b) Wall.

Thermacon Insulsteel 65 Breather can also be used in other forms of construction such as tilt slab concrete walls, brick veneer walls, and roofs.

## **Product Information**

Product Thickness	6.5mm (min)
Roll Size	22.25m x 1.350mm (30m <sup>2</sup> )
Roll Weight	12kg
Roll Diameter	460mm
Reflectance Antiglare	92%
Reflective Side	97%
Max Span 2.4m (without support	

## **Product Testing**

Test	Test Standard	Result	
<b>Corrosion Resistance</b>	AS/NZS 4859.1 Appen 1	Pass	
Thermal Resistance	AS/NZS 4859.1 ISO8302:1991	R0.216	
Cone Calorimeter	AS/NZS 3837	Group 1	
Flammability	AS 1530.2	Low Index <5	
Ignitability Flame			
Spread	AS 1530.3	0/0/0/1	
Heat Release	AS 1550.5		
Smoke Release			
Emittance	ASTM-E408	Reflective E0.03	
		Anti-glare E0.08	
Vapour Transmission	ASTM E96-2005	Medium	
Dry Delamination	AS/NZS 4201.1-1994	Pass	
Wet Delamination	AS/NZS 4859.1-2002 App.1	Pass	
Shrinkage	AS/NZS 4201.3-1994	Complies – 0.3%	
Duty	AS 4200.1-1994 Table1.Complies	Extra Heavy Duty	

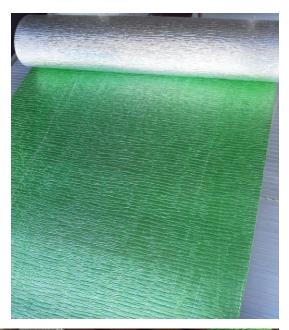
## Thermal Performance

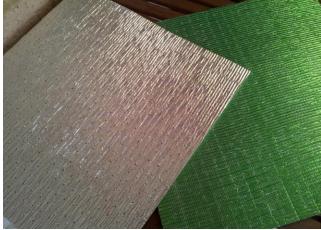
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Construction Type	Heat Flow In	Heat Flow Out
Steel Stud Frames Wall Insulsteel 65 Breather	R1.68	R1.88
Masonry Block (Pre-Cast Wall) Insulsteel 65 Breather	R1.93	R2.16
Reverse Brick Veneer Wall Insulsteel 65 Breather	R1.82	R2.01
Warehouse Wall Metal Cladding Insulsteel 65 Breather	R1.08	R1.22

For other Thermal Performance figures please consult our Technical Data Sheet. ^ The R-Values shown were prepared and certified by James M. Fricker MIEAust. CPEng. Consultant Engineer in insulation to the BCA, the NCC 2011, and the insulation industry. These values are

based upon product in an in service condition, and are in accordance with AS/NZS 4859.1:2002.

Total R Values are based on product in-service conditions in accordance with AS/NZS4859.1:2002/Amdt 1 (Dec 2006) including the alteration of insulation material R for temperature and derations of reflective foil emittances due to dust as noted. Where a cavity is sealed, it is assumed there is no dust and n=hence emittance is not derated.







Thermacon Insulsteel products carry a 10 year warranty on Commercial applications and a 15 year warranty on Domestic applications against Delamination and Oxidation.

\*\* subject to Thermacon Insulsteel Pty Ltd standard warranty guidelines (available upon request). \*\*



All Thermacon Insulsteel products are manufactured under license by Unipro Manufacturing Co. Ltd.