



Thermacon Insulsteel “Insulfloor”

Insulfloor has been developed by **Thermacon Insulsteel Pty. Ltd** as an insulation for suspended framed floor applications which also require a moisture and vapour management system.

Manufactured utilizing a chemically cross-linked polyethylene foam structure, Insulfloor is laminated on both sides with highly reflective foil, with one side antiglare. Insulfloor is manufactured with tiny breather holes. These breather holes allow moisture to permeate through.

Product Information

Product Thickness	4.5mm (min)
Roll Size	33.33m x 1.350mm (45m ²)
Roll Weight	10kg
Roll Diameter	440mm
Reflectance Antiglare	92%
Reflective Side	97%
Max Span	2.4m (without support)

Product Testing

Test	Test Standard	Result
Corrosion Resistance	AS/NZS 4859.1 Appen 1	Pass
Thermal Resistance	AS/NZS 4859.1 ISO8302:1991	R0.149
Cone Calorimeter	AS/NZS 3837	Group 1
Flammability	AS 1530.2	Low Index <5
Ignitability Flame Spread		
Heat Release	AS 1530.3	0/0/0/1
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 Table 1.Complies	Extra Heavy Duty

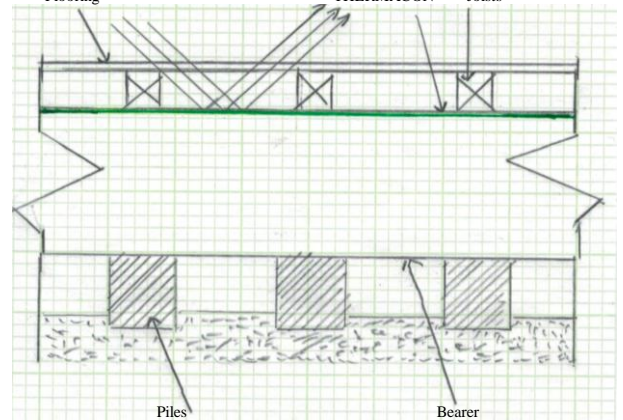
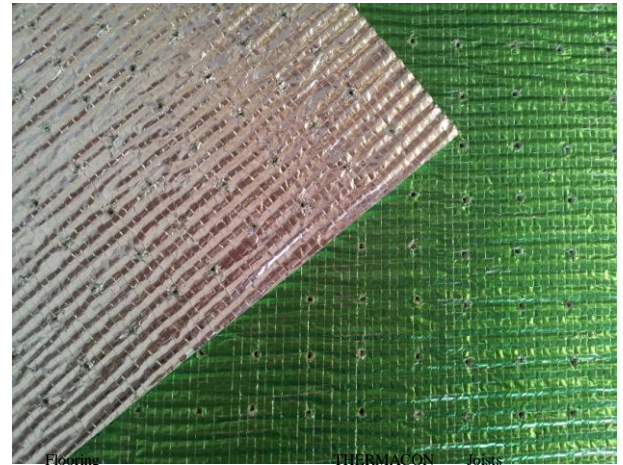
Thermal Performance[^]

Construction Type	Heat Flow In	Heat Flow Out
Suspended Frame Floor-Open Beneath Insulfloor 45	R1.18	R2.1
Suspended Frame Floor-enclosed Beneath Insulfloor 45	R1.92	R3.41
Underneath Carpeted Concrete Floor Insulsteel 65	R1.92	R2.84

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 licence by Unipro Manufacturing Co. Ltd.