

# INSULATION BLANKETS

Insulation foil faced building blanket is the proven solution for insulation under metal roofing whether it is for a weekend beach house or a 100,000 square metre commercial project.

It provides cost effective thermal insulation helping to reduce your buildings heating and cooling energy requirements and improve the internal comfort. Vapa-Chek™ is also an effective way of controlling condensation under metal roofing and helps reduce rain and hail impact noise.

Modern day lightweight construction in Australia, such as the use of metal deck roofing and cladding, are quick and efficient to build but deliver poor performance in terms of insulation properties. An insulated roof will allow up to 95% of the heat to enter or leave the building. This has major implications for the comfort and productivity of those living or working inside the building, or for the cost of services needed to condition the internal environment.

The addition of proven insulation, correctly installed, will help keep the summer heat out and improve the energy efficiency of the building. This, in turn, helps reduce the cost of energy required which means that insulation actually pays for itself. But here are many types of insulation on the market to choose from, what makes Insulco Vapa-Chek special?

Vapa-Chek™ is Australia's most popular insulation blanket and has been proven on many acclaimed projects. It consists of an R-rated FBS-I bio-soluble glasswool blanket adhered in a range of thickness to suit all Australian conditions. Because reflective insulation values depend on the direction of heat flow (and other factors), the actual insulating properties of Vapa-Chek products will vary according to the application.



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## Product Data

Vapa-Chek™ also has the best possible fire rating when tested to Australian Standard AS1530.3 Early Fire Hazard requirements and all Foils used to produce Vapa-Chek™ have a maximum flammability index of 5, meaning they are acceptable for use in bushfire prone areas of Australia.

Vapa-Chek™ complies with AS/NZS4859.1 and is manufactured in Australia by an ISO 9001 quality endorsed company.

Insulco Vapa-Chek™ is available in a range of thickness, R-values and foil facing grades suitable for most projects.

Product Thickness	Width (mm)	Length(m)	Area per roll (m <sup>2</sup> )
55mm	1200	15	18
	1400	15	21
75mm	1200	15	18
	1400	15	21
100mm	1200	10	12
	1400	10	14

### Foil facing types & grades

Light duty,  
 Medium duty,  
 Heavy duty,  
 White coated\*

\*The R-value attributed will vary from those quoted.

Note: Special facings and other sizes are available on request. Minimum order quantities may apply.

A white coated foil facing is available where an aesthetically pleasing internal finish is desired for exposed roof and wall applications. This is most commonly used in swimming pools; retain warehouses and other non-industrial applications.

Vapa-Chek™ can also be supplied customised to suit a particular project. Our cut-to-length products are made to the exact length required for a particular span. This increases the efficiency of installation and minimises waste on large projects – although minimum order quantities and extended lead times do apply.

Best of all, Vapa-Chek™ is supplied by Insulco



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## Applications

### Wall Applications

Insulco Vapa-Chek is also a proven insulation product for use in metal clad wall. Many factories, warehouses and retail outlets benefit from installing wall insulation – especially on east and west facing walls that experience significant heat gain in summer.

The inclusion of Vapa-Chek will further improve the comfort and productivity of those occupying the building and result in greater reductions in energy required to condition the space.

### Commercial Building Applications

#### Flat Metal Roof

Vapa-Chek	With ceiling (non-vented)		Without ceiling	
	Summer	Winter	Summer	Winter
No insulation	R0.6	R0.4	R0.1	R0.1
55mm	R2.7	R2.1	R1.5*	R1.5*
75mm	R3.2	R2.5	R2.0*	R2.0*
100mm	R3.7	R3.1	R2.5*	R2.5*

### Domestic Housing Applications

#### Pitched Metal Roof With Flat Ceiling

Vapa-Chek	Summer		Winter	
	Vented	Non-Vented	Vented	Non-Vented
No insulation	R0.7	R0.5	R0.3	R0.4
55mm	R2.0	R2.7	R1.8	R2.1*
75mm	R3.4	R3.2*	R2.3	R2.5*
100mm	R3.9	R3.7*	R2.8	R3.1*



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## Pitched Metal Roof With Cathedral Ceiling

Vapa-Chek	Enclosed Rafters (2)		Exposed Rafters (3)	
	Summer	Winter	Summer	Winter
No insulation	R0.4	R0.4	R0.4	R0.4
55mm	R2.6	R2.0	R1.6	R1.5
75mm	R3.1	R2.5	R2.1	R2.0
100mm	R3.6	R3.0	R3.6	R2.5

1. R0.2 is attributed to the reflective foil as recommended in BRANZ Appraisal certificate No.00/016. which concludes that occupied buildings will have air circulation adjacent to the foil laminate so still air values do not apply.
2. Enclosed rafter systems have an enclosed airspace below the Vapa-Chek of at least 100mm
3. Exposed rafter systems have no airspace, but it is assumed that the insulation is allowed to recover to its full thickness (i.e. battens are equivalent to insulation thickness)

\*Endorsed calculations to AS/NZS4859.1

Note: The above calculated system thermal resistance should be used as a guide only and are based on BRANZ accepted assumptions and Appendix E of AS2627.1. The calculations do not take into account thermal bridging effects at battens, purlins, etc.



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