



# Permifloor™

*water-permeable underfloor insulation*

Permifloor™ is an insulation innovation designed specifically for suspended framed floor applications delivering a 2-in-1 insulation and moisture management solution.

Permifloor™ is manufactured with a patented closed-cell, cross-linked foam structure sandwiched by highly reflective foil surfaces and perforated with tiny, evenly-spaced holes. These perforations allow water and vapour to permeate through preventing moisture that can often collect under flooring when using conventional underfloor insulation systems.

## Benefits

- **Two products in one**  
*Acts as an insulation and water-permeable moisture management system.*
- **Advanced thermal performance**  
*Helps achieve a 5 Star house energy rating.*
- **Fibre-free, non-allergenic, non-itchy**  
*Poses no health and safety risk and is non-asthmatic.*
- **Quick and easy to install**  
*Saves time and helps reduce labour costs compared to conventional bulk insulation.*
- **Tough, strong, durable**  
*Rated Extra Heavy Duty.*
- **Anti-bacterial and anti-fungal**  
*Will not promote the growth of fungi or bacteria.*
- **Rodent and insect resistant**  
*Does not provide a nesting medium for rodents and insects.*
- **Compliant with Australian Standards**  
*Complies with AS/NZS 4859.1*



AIR-CELL® Insulation recommends installation over bearers. Please check requirements with your local council. While the above images show AIR-CELL® Glareshield® installations, Permifloor™ is installed in the same manner.



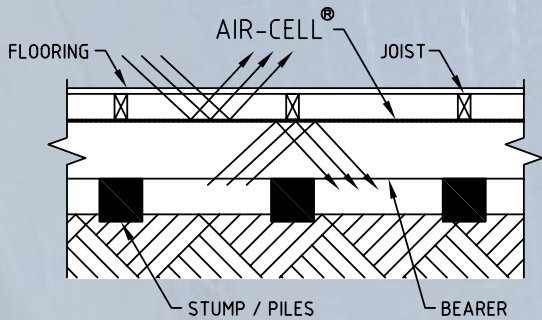
**AIR-CELL**  
INNOVATIVE INSULATION

1300 AIRCELL  
(1300 247 235)

[www.air-cell.com.au](http://www.air-cell.com.au)

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## Product Specifications

<b>Product Thickness</b>	4mm
<b>Reflectance</b>	
Anti-Glare Face	95%
Reflective Face	97%
<b>Emittance</b>	
Anti-Glare Face	E0.05
Reflective Face	E0.03
Roll Size	1350mm x 33.33m (45m <sup>2</sup> )
Roll Diameter	420mm
Roll Weight	9.5kg
Material Thermal Resistance	R0.12
Max Span Distance	2.4m without product support mesh

## Product Testing

Corrosion Resistance	AS/NZS 4859.1 Appendix I	Pass
Flammability	AS 1530.2	Low
Ignitability		
Flame Spread		
Heat Release	AS 1530.3	0/0/0/0-1
Smoke Release		
Vapour Transmission	ASTM-E96	Medium
Dry Delamination	AS/NZS 4201.1	Pass
Wet Delamination	AS/NZS 4201.2	Pass
Shrinkage	AS/NZS 4201.3	≤0.5%
Water Penetration	AS/NZS 4201.4	Unclassified
Water Absorbency	AS/NZS 4201.6	Unclassified
Duty	AS 4200.1 6.1.4	Extra Heavy

## Thermal Performance

<i>Suspended framed floor</i>	<i>Heat flow In</i>	<i>Heat flow Out</i>
Open sub-floor	R <sub>T</sub> 1.2	R <sub>T</sub> 1.9
Enclosed sub-floor	R <sub>T</sub> 1.9	R <sub>T</sub> 3.3

Above R-values calculated for installation over bearers.

The R-values shown are Total R-values for the building element as required by the Energy Provisions of the Building Code of Australia. AIR-CELL® products are manufactured, tested and packaged in conformance with AS/NZS 4859.1:2002 - Amdt 1. The contribution of the product Total R-values depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on the upward facing surfaces and in those cavities that are ventilated.



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