

# 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.



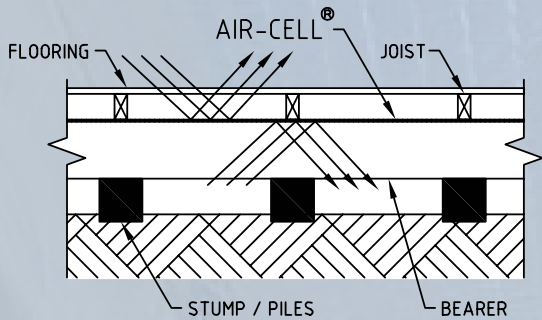
**AIR-CELL**  
INNOVATIVE INSULATION

1300 AIRCELL  
(1300 247 235)

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

© AIR-CELL Innovations 2008

# Permifloor™



## Product Specifications

<b>Product Thickness</b>	4mm
<b>Reflectance</b>	
Anti-Glare Face	92%
Reflective Face	97%
<b>Emittance</b>	
Anti-Glare Face	E0.08
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
<b>Ignitability</b>		
Flame Spread		
Heat Release	AS 1530.3	0/0/0/0-4
<b>Smoke Release</b>		
Vapour Transmission	ASTM-E96	Medium
Dry Delamination	AS/NZS 4201.1	Pass
Wet Delamination	AS/NZS 4201.2	Pass
Shrinkage	AS/NZS 4201.3	+0.4%
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

Suspended framed floor	Heat flow: In	Out
Open sub-floor	R <sub>T</sub> 0.8	R <sub>T</sub> 1.6
Enclosed sub-floor	R <sub>T</sub> 1.6	R <sub>T</sub> 3.0

Above R-values calculated for installation over bearers.

The R-values shown are Total R-values calculated by James M. Fricker MIEAust MARIAH CPEng to AS/NZS 4859.1:2002/Amdt 1 including thermal bridging where applicable.



Offsetting emissions with  
carbonneutral.com.au

