

## Benefits

- Three products in one Acts as an insulation, thermal break and vapour permeable sarking.
- 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.
- Water-resistant and unaffected by moisture

Ideal in humid climates and protects against water damage.

- 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

## Permishield<sup>®</sup> breathable insulation membrane

AIR-CELL<sup>®</sup> Insulation, Australia's premier insulation innovators, introduces Permishield<sup>®</sup>, a revolutionary breathable reflective insulation and thermal break wrapped up in a single product. Manufactured with a patented closed-cell structure sandwiched by highly reflective foil surfaces and pierced with tiny, evenly-spaced breather holes, Permishield<sup>®</sup> allows building professionals to do away with the traditional sarking-plus-batts combination in order to achieve thermal compliance as well as satisfy vapour permeance. Permishield<sup>®</sup> is available as Permishield<sup>®</sup> 65 (6.5mm thick) or Permishield<sup>®</sup> 80 (8mm thick).



## **Thermal Performance**

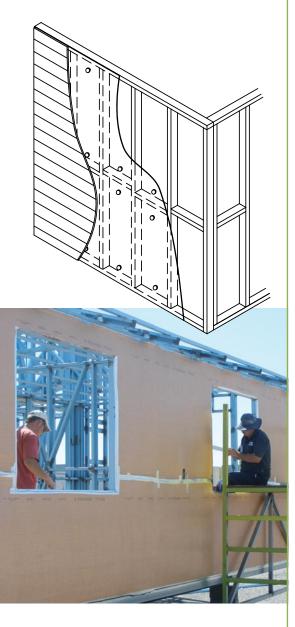
Cladded stud-framed walls	Heat flow In/Out
Permishield <sup>®</sup> 65	R⊤I.8
Permishield <sup>®</sup> 80	R⊤I.9

The R-Values shown are Total R-Values for the building system based on independent computations using proven data. Values are based on product in in-service condition in accordance with AS/NZS 4859.1:2002.



1300 135 625 www.air-cell.com.au

## Permishield











Offsetting emissions with Carbon**neutral**.com.au



Product Thickness	6.5mm	8mm
	Permishield <sup>®</sup> 65	Permishield <sup>®</sup> 80
Thermal Break	R0.2	R0.25
Roll Diameter	455mm	500mm
Roll Weight	9.5kg	l Okg
Roll Size	1350mm x 22.25m (30m <sup>2</sup> )	
Reflectance		
Anti-Glare Face	92%	
<b>Reflective Face</b>	97%	
Emittance		
Anti-Glare Face	E0.08	
<b>Reflective Face</b>	E0.03	
Product Testing		
Corrosion Resistance	AS/NZS 4859.1 Appendix 1 Pass	
Flammability	AS 1530.2	Low
Ignitability		
Flame Spread	AS 1530.3	0/0/0-1
Heat Release	A3 1330.3	
Smoke Release		
Cone Calorimeter	AS/NZS 3837	Group I
Thermal Resistance	ASTMC518	R0.2 (6.5mm)
		R0.25 (8mm)
Emittance ASTM-E40	ASTM-E408	Reflective 0.03
		Anti-Glare 0.08
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	High Resistance
Water Absorbency	AS/NZS 4201.6	Unclassified
Duty	AS 4200.1 6.1.4	Extra Heavy