

# underfloor applications

reducing heat loss and stopping cold air draughts



Installed over bearers



Installed over bearers

**AIR-CELL®** Insulation is the clean, quick and easy way to stop heat loss through suspended floors and improving the overall thermal efficiency of your home or building. Installing **AIR-CELL®** Insulation in underfloor applications ensures that rising moisture and cold air draughts are prevented from diffusing through floorboards and into the home. **AIR-CELL®** helps you achieve BCA compliance and a 5 Star house energy rating and is the clean, fibre-free, non-allergenic alternative to conventional bulk insulation.

## benefits

- Helps achieve a 5 star house energy rating
- Fibre-free, non-allergenic, and non-irritant
- BCA-compliant to AS/NZS 4859.1
- Provides clean wall cavities for services such as electrical, plumbing, etc.
- All-in-one insulation and vapour barrier
- Quick and easy to install
- Tough, strong, durable
- Waterproof and unaffected by moisture
- Anti-bacterial and anti-fungal
- Rodent and insect resistant



Installed over floor joists



## thermal performance

Application	Heat flow in	Heat flow out
Timber – suspended (open beneath)	R <sub>T</sub> 0.9	R <sub>T</sub> 2.4
Timber – suspended (enclosed beneath)	R <sub>T</sub> 1.1	R <sub>T</sub> 3.2
Concrete – suspended (open beneath)	R <sub>T</sub> 0.9	R <sub>T</sub> 1.6
Concrete – suspended (enclosed beneath)	R <sub>T</sub> 1.1	R <sub>T</sub> 2.4

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

\* AIR-CELL® Insulation recommends installation over bearers. Please check requirements with your local council.

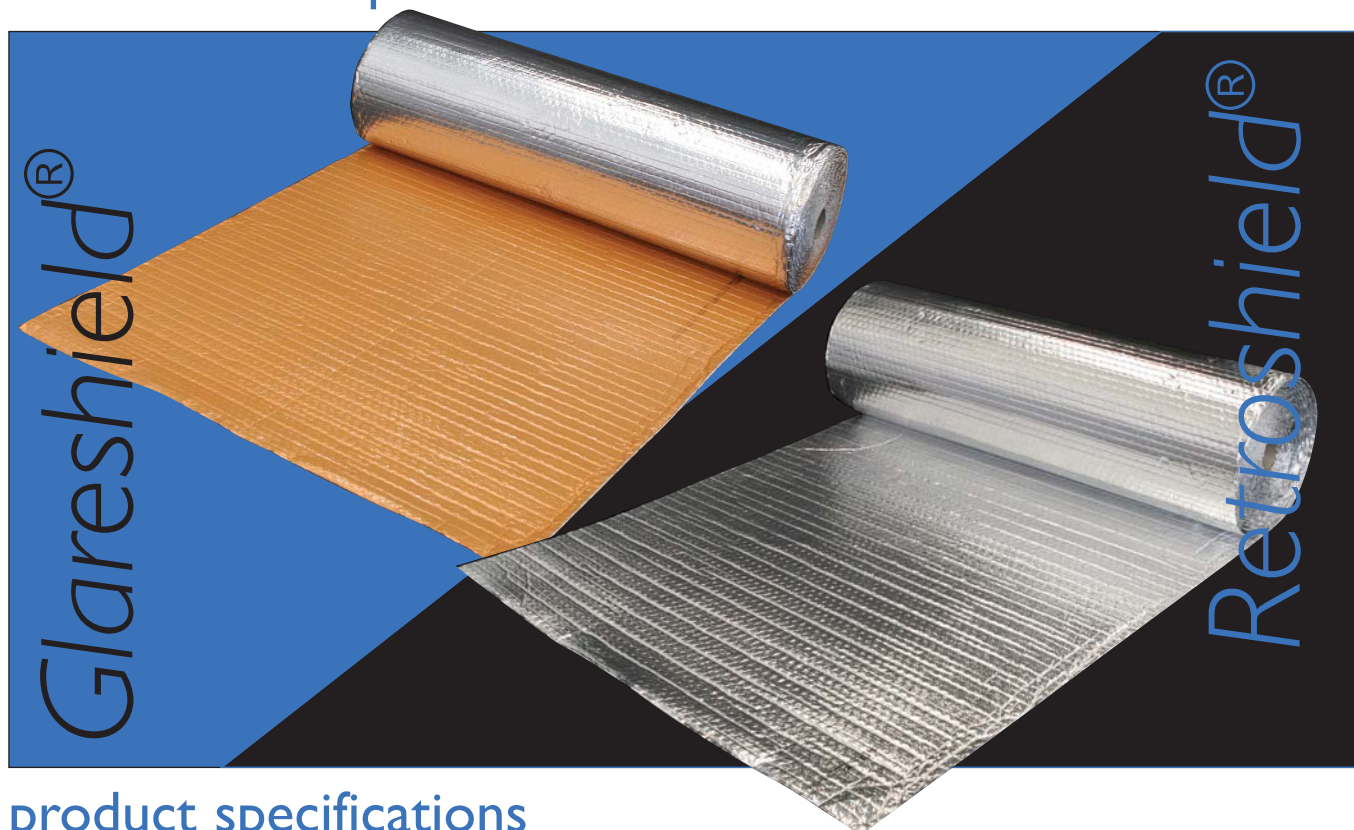


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## recommended products



## product specifications

	Glareshield®	Retrosshield®
<b>Reflectance</b>		
Anti-Glare Face	90%	N/A
Reflective Face	97%	97%
<b>Emittance</b>		
Anti-Glare Face	E0.10	N/A
Reflective Face	E0.03	E0.03
<b>Roll Diameter</b>	440mm	440mm
<b>Product Thickness</b>	7mm	7mm
<b>Roll Weight</b>	11kg	11kg
<b>Roll Size</b>	1350mm x 22.25m (30m <sup>2</sup> )	1350mm x 22.25m (30m <sup>2</sup> )
<b>Duty</b>	Extra Heavy	Extra Heavy

## product testing

<b>Thermal Performance</b>	AS/NZS 4859.1 (CodeMark certified)
<b>Surface Corrosion Resistance</b>	AS/NZS 4859.1 Appendix I
<b>Thermal Resistance</b>	ASTM C518
<b>Emittance</b>	ASTM-E408
<b>Flammability</b>	AS 1530.2 (Index ≤ 5)
<b>Ignitability</b>	AS 1530.3
<b>Flame Spread</b>	AS 1530.3
<b>Heat Evolved</b>	AS 1530.3
<b>Smoke Developed</b>	AS 1530.3

<b>Cone Calorimeter</b>	AS/NZS 3837
<b>Vapour Transmission</b>	ASTM-E96
<b>Edge Tear</b>	AS/NZS 4200.1 6.1.3
<b>Duty</b>	AS/NZS 4200.1 6.1.4
<b>Dry Delamination</b>	AS/NZS 4201.1 Method 1
<b>Wet Delamination</b>	AS/NZS 4201.1 Method 2
<b>Shrinkage</b>	AS/NZS 4201.3 Method 3
<b>Water Barrier</b>	AS/NZS 4201.4
<b>Burst Force</b>	AS 3706.4
<b>Impact Resistance</b>	AS/NZS 4040.4 (Modified)