

retrofit applications

improving indoor comfort and reducing your energy costs



Residential retrofit on the rake (before)



Residential retrofit on the rake (after)

AIR-CELL® Insulation is flexible and versatile and can be easily retrofitted to existing homes, warehouses, and other commercial buildings. As a clean, safe, fibre-free alternative to conventional bulk insulation **AIR-CELL®** reflects up to 97% of radiant heat and acts as an all-in-one insulation and vapour barrier.

benefits

- **Advanced thermal performance**
- **Fibre-free, non-allergenic, and non-irritant**
- **Reflects up to 97% of radiant heat**
- **BCA-compliant (CodeMark certification to AS/NZS 4859.1)**
- **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**

thermal performance

Application	Heat flow in	Heat flow out	Product
Residential Ceiling	R _r 3.4	R _r 1.5	Retrosshield®
Residential Retrofit on Rake (Tile Roof)	R _r 2.3	R _r 1.3	Retrosshield®
Commercial Warehouse Retrofit	R _r 2.9	R _r 0.9	Retrosshield®
Residential Underfloor Retrofit	R _r 0.9	R _r 2.4	Retrosshield®

The R-Values shown are Total R-Values for the building system installed with Retrosshield® 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.



Ceiling retrofit



Commercial warehouse retrofit



Residential underfloor retrofit



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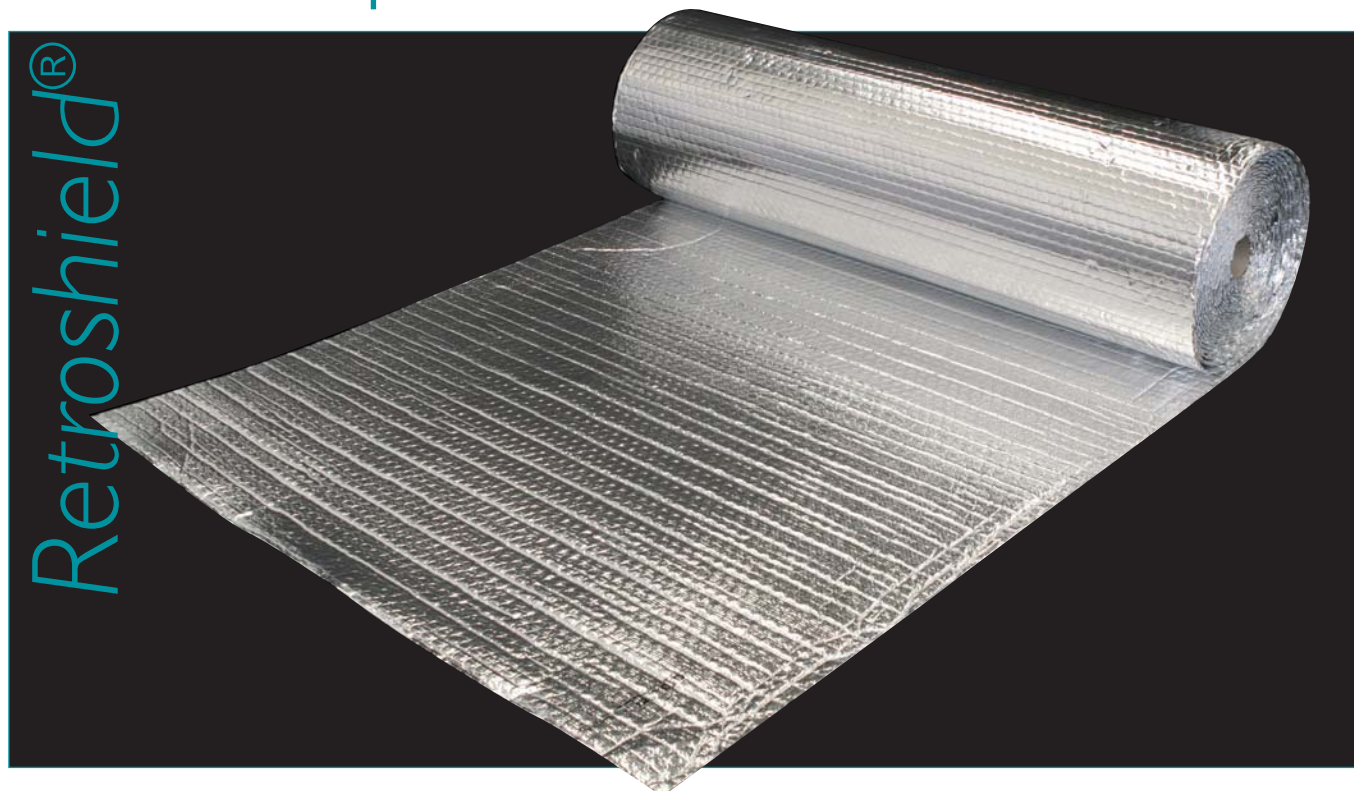


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recommended product



product specifications

Reflectance	97%
Emittance	E0.03
Roll Size	1350mm x 22.25m (30m ²)
Roll Diameter	440mm
Product Thickness	7mm
Roll Weight	11kg
Duty	Extra Heavy

product testing

Thermal Performance	AS/NZS 4859.1 (CodeMark certified)
Surface Corrosion Resistance	AS/NZS 4859.1 Appendix I
Thermal Resistance	ASTMC518
Emittance	ASTM-E408
Flammability	AS 1530.2 (Index ≤ 5)
Ignitability	AS 1530.3
Flame Spread	AS 1530.3
Heat Evolved	AS 1530.3
Smoke Developed	AS 1530.3
Cone Calorimeter	AS/NZS 3837
Vapour Transmission	ASTM-E96
Edge Tear	AS/NZS 4200.1 6.1.3
Duty	AS/NZS 4200.1 6.1.4
Dry Delamination	AS/NZS 4201.1 Method 1
Wet Delamination	AS/NZS 4201.1 Method 2
Shrinkage	AS/NZS 4201.3 Method 3
Water Barrier	AS/NZS 4201.4
Burst Force	AS 3706.4
Impact Resistance	AS/NZS 4040.4 (Modified)