

commercial applications

reducing building life cycle costs and promoting healthy spaces



Warehouse roof and wall installation



Multi-residential precast concrete wall

With its advanced thermal performance **AIR-CELL**® Insulation significantly reduces building life cycle costs by reducing energy load requirements for heating and cooling. **AIR-CELL**® is a clean, safe, fibre-free alternative to conventional bulk insulation, designed to replace sarking and batts in a single application. And because **AIR-CELL**® products do not contain toxic chemicals or volatile organic compounds (VOCs) you can be sure that they will not produce harmful emissions that impact internal conditioned spaces.

benefits

- Reduces building life cycle costs
- Fibre-free, non-allergenic, and non-irritant
- Reflects up to 97% of radiant heat
- BCA-compliant to AS/NZS 4859.1
- All-in-one insulation and vapour barrier
- Quick and easy to install
- Does not require product support mesh
- Tough, strong, durable
- Waterproof and unaffected by moisture
- Anti-bacterial and anti-fungal
- Rodent and insect resistant



Insulaire® warehouse roof installation



Shopping centre concrete roof

thermal performance

Application	Heat flow in	Heat flow out	Product
Commercial Office	R _p 2.2	R _p 1.3	Glareshield®
Commercial Warehouse Roof	R _p 1.7	R _p 0.8	Glareshield®
Precast Concrete Wall	R _p 2.1	R _p 2.1	Retrosshield®
Concrete Roof (Suspended Ceiling)	R _p 3.1	R _p 1.5	Retrosshield®

The R-Values shown are Total R-Values for the building system 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.



Hospital installation



CODEMARK™
Certificate No:
SAIG-06-CM20001



ALUMINIUM FOIL INSULATION ASSOCIATION
MEMBER



GREENSMART
PARTNER



MASTER BUILDERS
MEMBER

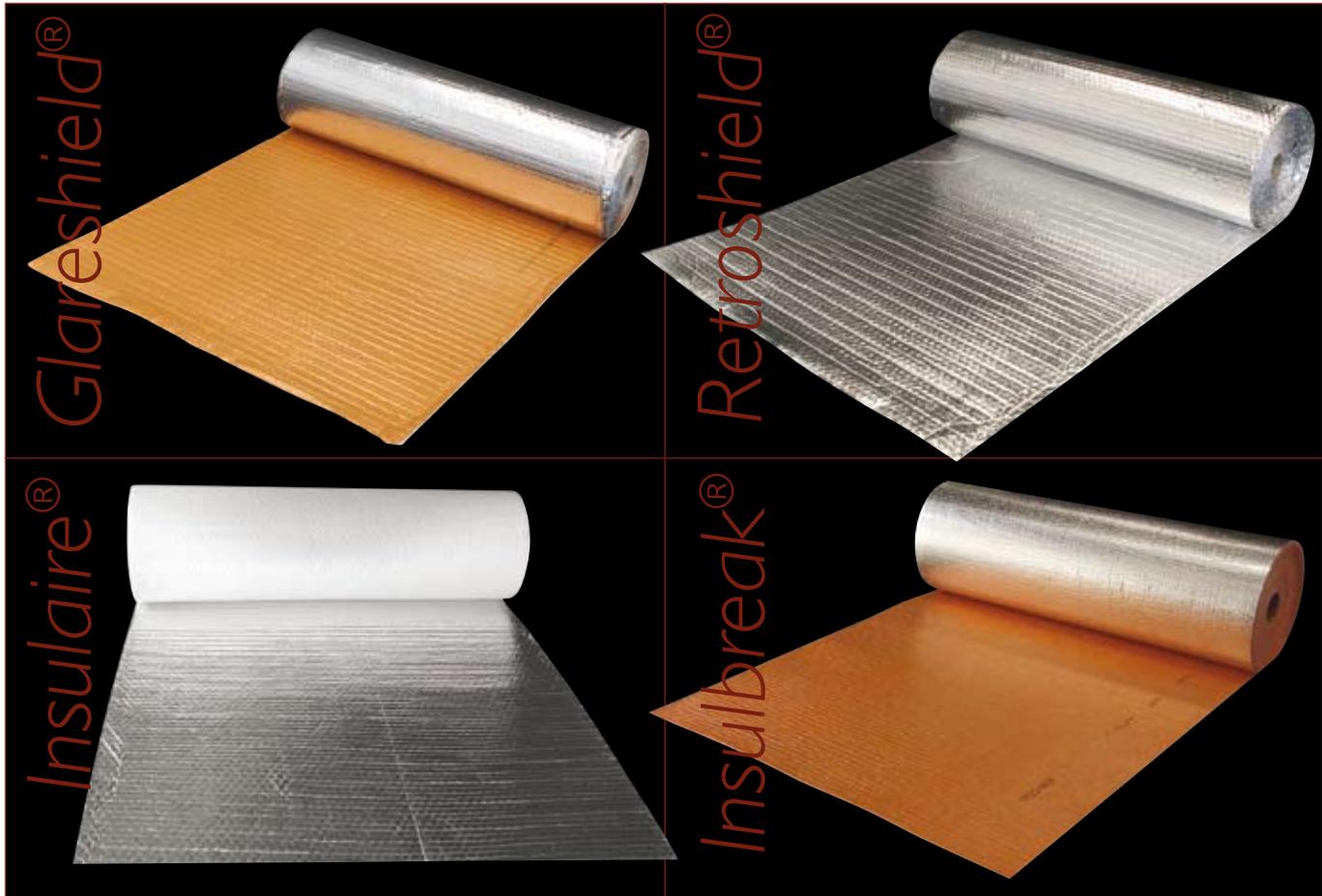
© AIR-CELL Innovations 2007



AIR-CELL
INNOVATIVE INSULATION

1300 AIRCELL (1300 247 235) www.air-cell.com.au

recommended products



product specifications

	Glareshield®	Retrosshield®	Insulaire®	Insulbreak® 65
Reflectance				
Anti-Glare Face	90%	N/A	30% (White Face)	92%
Reflective Face	97%	97%	97%	97%
Emittance				
Anti-Glare Face	E0.10	N/A	E0.70 (White Face)	E0.08
Reflective Face	E0.03	E0.03	E0.03	E0.03
Roll Diameter	440mm	440mm	440mm	440mm
Product Thickness	7mm	7mm	6mm	6.5mm
Roll Weight	11kg	11kg	9.5kg	9.5kg
Roll Size	1350mm x 22.25m (30m2)	1350mm x 22.25m (30m2)	1350mm x 22.25m (30m2)	1350mm x 22.25m (30m2)
Duty	Extra Heavy	Extra Heavy	Extra Heavy	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)*§

^ Insulbreak® 65

* Glareshield® and Retrosshield®

§ Insulaire®