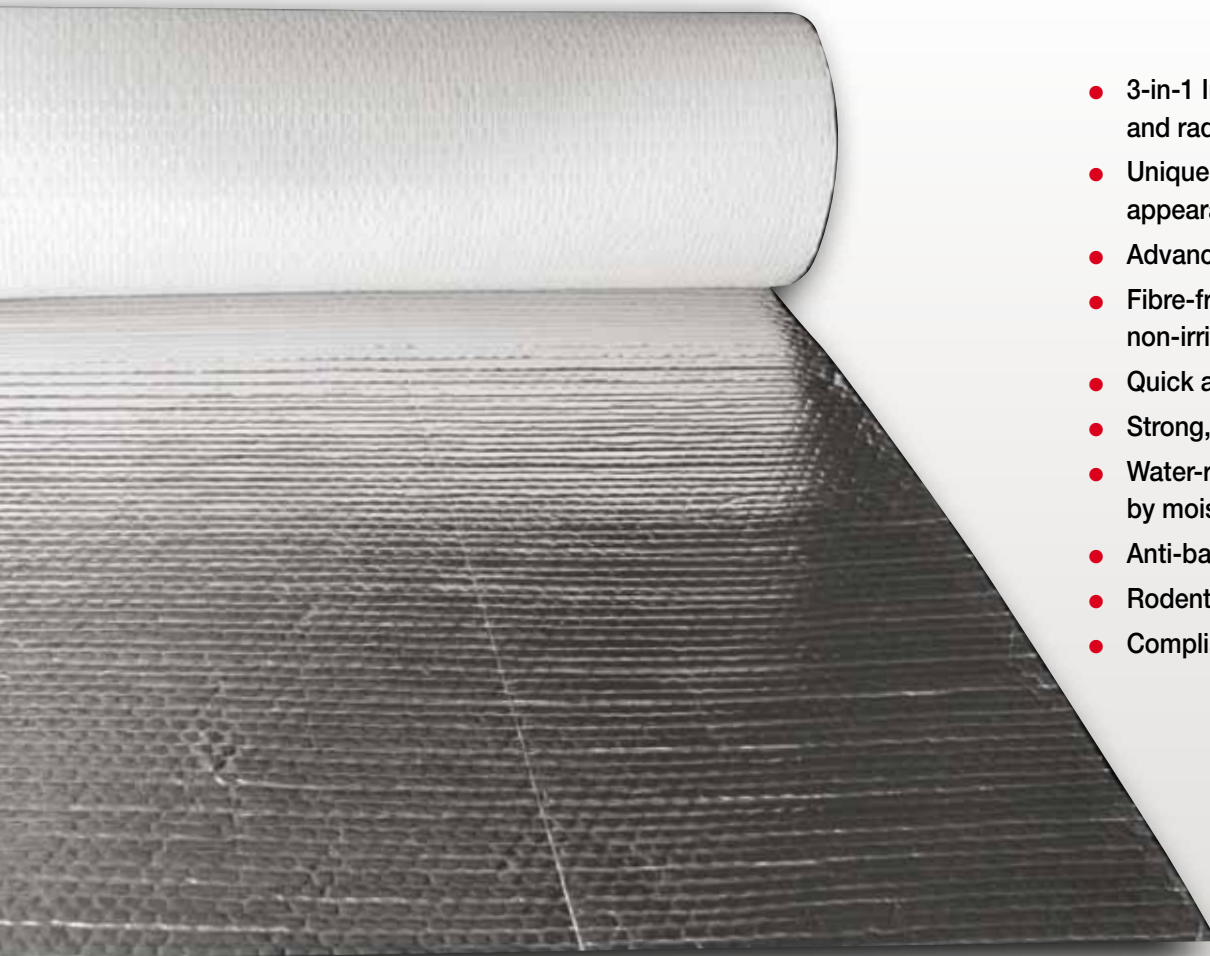




# AIR-CELL Insulaire®

## WHITE-FACED THERMO REFLECTIVE INSULATION



- 3-in-1 Insulation, vapour barrier and radiant barrier
- Unique white ceiling like appearance
- Advanced thermal performance
- Fibre-free, non-allergenic, non-irritant
- Quick and easy to install
- Strong, tough, durable
- Water-resistant and unaffected by moisture
- Anti-bacterial and anti-fungal
- Rodent and insect resistant
- Compliant with AS/NZS 4859.1



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## Product Description

**Kingspan AIR-CELL Insulaire®** is a unique thermo reflective insulation product with a white-faced polyethylene undersurface to provide a protective, corrosive resistant, vapour barrier and insulation medium with a white aesthetically pleasing appearance. **Kingspan AIR-CELL Insulaire®** is designed for use in show rooms, indoor pool centres, sport centres and retail warehouses where a white ceiling-like appearance is desired. **Kingspan AIR-CELL Insulaire®** is non-allergenic, non-irritant and has none of the health and safety warnings associated with using many conventional bulk insulations.

Product Data	
<b>Reflectance</b>	
White Face	30%
Reflective Face	97%
<b>Emittance</b>	
White Face	E.0.70
Reflective Face	E0.03
Roll Size	1350 mm x 22.25 m (30 m <sup>2</sup> )
Roll Diameter	440 mm
Product Thickness	6 mm
Roll Weight	9.5 kg
Duty	Extra Heavy
Max span	1.8 m without support mesh
Material R-value	R0.13

## Thermal Performance

Application	Heat Flow In	Heat Flow Out
Commercial Warehouse Roof	R <sub>t</sub> 1.5	R <sub>t</sub> 0.8
Commercial Warehouse Wall	R <sub>t</sub> 0.9	R <sub>t</sub> 0.9

*The R-values shown are Total R-values for the building element as required by the Energy Provisions of the Building Code of Australia. Kingspan AIR-CELL® products are manufactured, tested and packaged in conformance with AS/NZS 4859.1:2002 - Amdt 1. The contribution of the product Total R-values depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on the upward facing surfaces and in those cavities that are ventilated.*

## Product Testing

Test	Test Method	Result
Corrosion Resistance	AS/NZS 4859.1 Appendix 1	Pass
Flammability	AS 1530.2	Low (Index ≤ 5)
Ignitability		Foil side: 0/0/0/0-1
Flame Spread	AS 1530.3	White side: ≤ 15/≤ 8/≤ 4/≤ 6
Heat Release		
Smoke Release		
Cone Calorimeter	AS/NZS 3837	Group 1
Thermal Resistance	ASTM C518	R0.13
Emittance	ASTM-E408 White face: E0.70	Reflective: E0.03
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%
Edge Tear	AS 4200.1 6.1.3 Machine 599N	Lateral 437N
Duty	AS 4200.1 6.1.4	Extra Heavy
Burst Force	AS 3706.4	1500N

