

AIR-CELL Glareshield®

Product Description

Kingspan AIR-CELL Glareshield® is a thermo reflective anti-glare insulation. *Kingspan AIR-CELL®* products are designed to combat heat gain and heat loss in all three forms (radiation, convection and conduction), resulting in thermal performance superior to many conventional insulations. In addition, *Kingspan AIR-CELL Glareshield®* is non-allergenic, non-irritant and has none of the health and safety warnings associated with using many conventional bulk insulations.

Product Data	
Reflectance	
Anti-Glare Face	95%
Reflective Face	97%
Emittance	
Anti-Glare Face	E0.05
Reflective Face	E0.03
Roll Size	1350 mm x 22.25 m (30 m ²)
Roll Diameter	440 mm
Product Thickness	7 mm
Roll Weight	11 kg
Duty	Extra Heavy
Max span	2.4 m without support mesh
Material R-value	R0.14

Thermal Performance

Application	Heat Flow In	Heat Flow Out
Residential Metal Roof (ventilated)	R _T 2.6	R _T 1.2
Commercial Warehouse Roof	R _T 1.9	R _T 0.9
Commercial Office Roof	R _T 3.1	R _T 1.4

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. 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		
Flame Spread		
Heat Release	AS 1530.3	0/0/0/0-1
Smoke Release		
Cone Calorimeter	AS/NZS 3837	Group 1
Thermal Resistance	ASTMC518	R0.14
Emittance	ASTM-E408	Reflective: E0.03 Anti-glare: E0.05
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
Edge Tear	AS 4200.1 6.1.3 Machine 514N	Lateral 551N
Duty	AS 4200.1	Extra Heavy
Burst Force	AS 3706.4	1400N
Impact Resistance	AS/NZS 4040.4 (Modified)	Pass
Acoustics	Bassett Acoustics Report MA0221j02	6db (A) noise reduction

