

Insulation



# AIR-CELL<sup>®</sup> Glareshield<sup>®</sup>

Thermo Reflective Anti-Glare Insulation



- 3-in-1 Insulation, vapour barrier and reflective barrier
- 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 4859.1:2018
- CodeMark-certified for NCC compliance
- Made in Australia



# Product Details

## Product Description



Figure 1. Thermo reflective Kingspan AIR-CELL Glareshield®.

Australian-made 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 Specifications

Property	Test Method / Standard	Specification	Classification
Flammability Index	AS 1530.2:1993	≤ 5	Low
Material R-value	ASTM C518-2017 at 23°C	R0.14 m <sup>2</sup> .K/W	-
IR Emittance	AS/NZS 4201.5:1994	Reflective Face: 0.03 Anti-Glare Face: 0.05	IR Reflective IR Reflective
IR Emittance	-	-	Category RR
Burst Strength	AS 3706.4:2012 (CBR)	1.4 kN	-
Tensile Strength	AS/NZS 4200.1:2017 AS 1301.448s:2019	MD > 19.0 kN/m LD > 16.0 kN/m	Extra Heavy Duty
Edge Tear	AS/NZS 4200.1:2017	-	Extra Heavy Duty
Duty Rating	AS/NZS 4200.1:2017	MD > 19.0 kN/m LD > 16.0 kN/m	Extra Heavy Duty
Vapour Control	ASTM E96 Part B:2016	Vapour Barrier < 0.020 µg/N.s	Class 2
Water Control	AS/NZS 4201.4:1994	Pass	Water Barrier
Moisture Shrinkage	AS/NZS 4201.3:1994	< 0.5%	-
Dry Delamination	AS/NZS 4201.1:1994	Pass	-
Wet Delamination	AS/NZS 4201.2:1994	Pass	-
Corrosion Resistance	AS/NZS 4859.1:2018 App. E	Pass	-

## Product Data

AIR-CELL Glareshield®	
Product Thickness (nom.)	7 mm
Product R-value at 23°C	R0.14 m <sup>2</sup> .K/W
Roll Diameter (nom.)	440 mm
Roll Weight (nom.)	11 kg
Roll Size	1350 mm x 22.25 m (30 m <sup>2</sup> )
Reflectance	Reflective Face 97% Anti-Glare Face 95%
Emittance	Reflective Face E0.03 Anti-Glare Face E0.05
Maximum Span Distance	2.4 m without support mesh

## Management Standards

Standard	Management System
ISO 9001:2015	Quality Management
ISO 14001:2015	Environmental Management
ISO 45001:2018	Occupational Health & Safety Management

## Environmental Data

Aspect	Characteristic
Re-usability	Re-usable if removed with care (long term of service expected)
Water Use	No water used in Kingspan's manufacturing process

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# Installation Instructions

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## Metal Roof (over battens)

1. Roll out the Kingspan AIR-CELL Glareshield® product from the ridge to gutter, over and perpendicular to the roof battens.
2. Ensure a max. 25 mm overlap into the gutter and a nominal 40 mm sag between battens is achieved.
3. Allow 150 mm overlap at joins (50 mm is adequate when joins are to be taped).
4. End joins should be overlapped by 600 mm if not taped.
5. Staple or tape to battens to hold in place until roofing is fixed.

## Under Batten Installation

Apply as per Residential Tiled Roof installation instructions.

### Tiled Roof

1. Starting at the gutter, roll out the Kingspan AIR-CELL Glareshield® product across the rafters with the antiglare side up, and ensuring a max. 25 mm overlap into the gutter is achieved.
2. Fix to rafters.
3. Allow 150 mm minimum overlap for joins (or 50 mm is adequate if joins are to be taped).
4. End joins should be overlapped by rafter spacing if not taped.
5. Fix battens as per roof cover requirements and applicable standards.

## General Requirements

1. Fit Kingspan AIR-CELL neatly around doors, windows, and any penetrations, and tape if necessary to prevent air leakage.
2. When taping, a plastic squeegee or blade must be used to apply appropriate pressure to the tape. Surfaces must be dry and free from dust, oil or grease prior to taping (please refer to brochure Kingspan Insulation Tape for further information).
3. Leave minimum 100 mm clearance around heat producing flues or light fittings (refer to light fitting manufacturer).

The instructions in this document are guidelines only and should be interpreted with consideration for the specific building design. The installation of Kingspan AIR-CELL should be in conformance with the applicable clauses from AS 3999:2015 and AS/NZS 4200.2:2017 unless otherwise specified.

Kingspan AIR-CELL can be damaged by intense heat above 105° C and contact with sparks and flame from blow torches, welders, cutting tools, etc. must be avoided.

The installer must make due provision for safety when installing Kingspan AIR-CELL in any application.

## Safety Information

- Non-hazardous/non-toxic.
- No personal protective equipment required.
- UV protective sunglasses and screen should be used when installing in direct sunlight.
- Ensure at least 100 mm clearance from hot flues and light fittings (check for safe distance with lighting supplier).
- Foil facings are conductive to electricity - avoid contact with un-insulated electrical cables and fittings.

## Handling and Storage

Kingspan AIR-CELL insulation products must be transported and stored in its protective packaging and kept clean and dry. Standing rolls on end reduces risk of damage should moisture be present in the packaging. Surfaces must be kept free of contaminants such as dust and grease, and must not be stored with foil surfaces in contact with alkaline materials i.e. wet cement, lime, etc.

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# Contact Details

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## Australia

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