

Insulation



AIR-CELL® Flexishield®

Technical Data Sheet
Reflective Insulation for Pitched Roof and Walls



- Thermal resistance as high as $0.15\text{m}^2\text{K/W}$ at 23°C mean temperature (ASTM C518-21)
- Surface emittance as low as 0.07 (ASTM C1371-15) - reflect up to 93% of radiant heat
- Radiant barrier
- Fibre-free
- Quick and easy to install
- Suitable for both new build and refurbishment

Product Information

Product Description

AIR-CELL Flexishield is a radiant barrier solution comprising of 7mm polyethylene air bubble core faced on both sides with an aluminium foil. AIR-CELL Flexishield is designed for use within both pitched roof and wall application. It suitable for both new build and refurbishment projects.

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.

Standards and Approvals

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

Technical Specifications

Property	Value	Test Standard
Product Thickness (nom.) (mm)	7	-
Roll Size (m)	1.35 wide x 22.25 long	-
Roll Diameter (nom.) (mm)	450	-
Roll Weight (kg)	7	-
Thermal Resistance at 23°C (m ² K/W)	0.15	ASTM C518-21
Surface Emittance	0.07	ASTM C1371-15
Tear Strength (N)	Machine Direction: >23 Cross Direction: >20	ASTM D642-00 (2007)
Tensile Strength (kN/m)	Machine Direction: >4 Cross Direction: >3	AS 1301.448s-2019
Elongation (%)	≥12	ASTM D638-10
Water Barrier	Passed	AS 4201.4-1994
Vapor Transmission	Class 2 Water Barrier	ASTM E-96/E96M-22

Fire Performance

Property	Value	Test Standard
Ignitability	5	
Spread of Flame Index	0	Early Fire Hazard
Heat Evolved Index	0	AS/NZS 1530.3: 1999
Smoke Developed Index	3	

Contact Details

Asia Region

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