

Insulated Panels
Australia

AGRICULTURAL SOLUTIONS

Insulated panels for the most efficient
growth and yield performance



GROW SMARTER WITH INSULATED PANELS BUILT FOR AGRICULTURE

Efficiency. Durability. Peace of Mind.

Whether you're building a new facility or upgrading an existing one, our Agri Panels offer the ideal solution for high-performance, temperature-controlled agricultural environments. Designed specifically for the demands of modern farming, our panels provide year-round protection, energy savings, and long-lasting durability.



Engineered for harsh conditions

From cold storage units and dairy parlours to poultry houses and equine barns, our panels are built to withstand tough agricultural environments — resisting moisture, pests, corrosion, and extreme temperatures.



Keep it clean and compliant

Smooth, non-porous surfaces make cleaning simple and help maintain food safety standards. Our Agri Panels meet hygiene requirements for agricultural and food processing applications.



Insulation that pays off

With high R-values and thermal efficiency, our insulated panels help you cut energy costs while maintaining optimal interior climates for animals, crops, and storage.

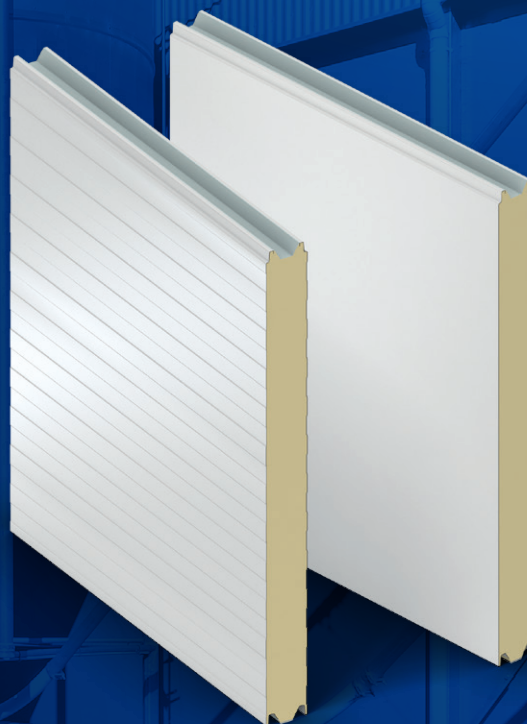


Customisable and easy to install

Available in a variety of thicknesses, lengths, and finishes to suit your needs - with quick installation that minimises downtime and labour costs.

Our Agri Panels are ideal for a variety of agricultural applications, such as:

- Cold storage for fresh produce, meat, dairy and flowers
- Livestock housing (especially poultry and pigs)
- Food processing and packaging areas
- Controlled-environment agriculture (CEA), hydroponics or vertical farming
- Farm equipment and chemical storage



**Invest in smarter agriculture
– choose insulated panels
that work as hard as you.**

WHY ARE KINGSPAN PIR PANELS IDEAL FOR AGRICULTURAL ROOFS, WALLS AND CEILINGS?

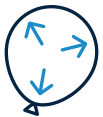


Superior thermal efficiency

Kingspan PIR panels offer **some of the highest R-values per inch** of any insulation material, making them ideal for applications where temperature control is crucial – such as, cold storage rooms, dairy barns, or produce facilities. The thermal performance of Kingspan Agri Panels has been assessed in accordance with AS/NZS 4859.1: 2018.

They provide an effective heat barrier, managing extreme internal / external temperature differentials. This reduces energy costs and helps maintain a consistent climate, which is key for preserving crop freshness and animal health.

Kingspan Agri Panels' superior thermal efficiency makes them suitable for application temperatures from -55°C to +60°C.



Low air leakage

Kingspan PIR panels feature factory-engineered joints that provide a high degree of airtightness while minimising potential transmittance of airborne pollutants.



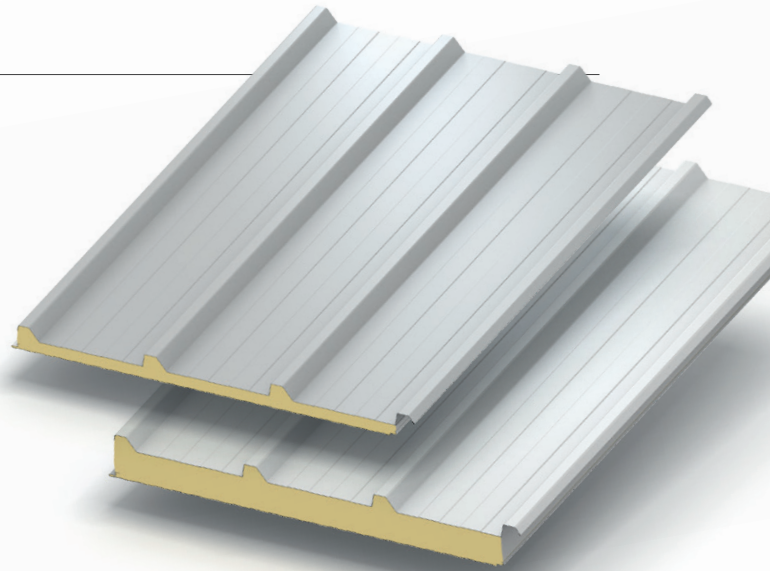
Proven fire performance

PIR (polyisocyanurate) has **improved fire performance** compared to other rigid foams like PUR (polyurethane). Kingspan Agri Panels are tested to FM 4880 and FM 4881.



Moisture corrosion and mould resistance

Agricultural buildings often face high humidity, frequent washdowns, and exposure to chemicals. Kingspan PIR panel are **closed-cell** foam, meaning unlike EPS and Syntactic foams, they resist water absorption, swelling and degradation – reducing the risk of mold, mildew, and bacteria growth.



Hygienic coatings

Most PIR panels used in agricultural settings come with **food-safe, easy-to-clean coatings** like PVC or polyester. These surfaces are ideal for areas requiring strict hygiene, such as cold storage or food processing zones. Kingspan Agri Panels feature high-performing hygiene foodsafe coatings to both the external and internal metal facings.



Structural strength and lightweight

Despite being lightweight, PIR panels have **strong load-bearing capacity**, making them easy to handle and install while still withstanding typical wind loads and minor impacts from day-to-day operations.

Kingspan Agri Panels are durable and resilient, providing whole life design, build and in-use performance.



Fast installation and lower labour costs

Kingspan Agri Panels' interlocking tongue-and-groove design speeds up installation, reduces air leaks, and minimises construction time – all important when downtime means lost productivity.

KINGSPAN AGRI PANELS - SYSTEMS THAT PROTECT YOUR HARVEST

Your products are only as good as your storage. Our Agri Panels are engineered to deliver unmatched thermal performance, ensuring your agricultural goods stay fresh, safe, and compliant – from field to facility.

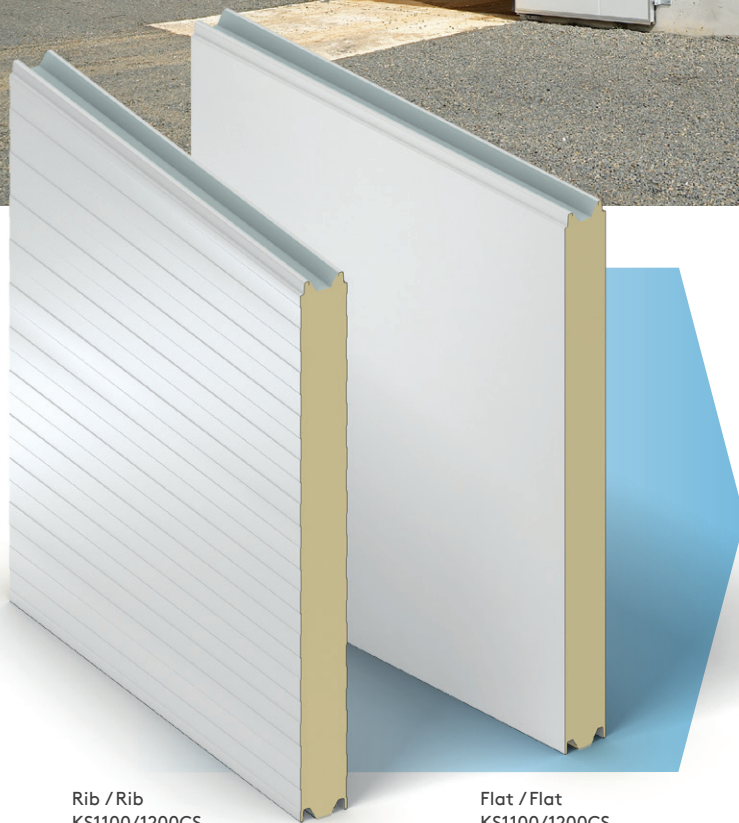
Applications include:

- Post-harvest storage
- Dairy and meat refrigeration
- Floral and produce facilities
- Packing rooms

Key benefits:

- Superior insulation for cold storage and freezer applications
- Airtight construction minimises energy loss
- Corrosion- and moisture-resistant finish
- Meets agricultural food safety standards
- Custom panel sizes, thicknesses and finishes available





Rib / Rib
KS1100/1200CS

Flat / Flat
KS1100/1200CS

Kingspan Agri Wall & Ceiling Panels

Kingspan Agri Wall & Ceiling Panels are high-performing, through-fixed insulated panel systems suitable for internal and external walls and ceilings, including internal 'box within a box' applications. Agri Wall Panels can be installed vertically or horizontally.

Agri Wall & Ceiling Panels are available in a choice of two cover widths, 1,100 mm (KS1100CS) and 1,200 mm (KS1200CS) and standard lengths of 2 metres to 13.7 metres.

Dimensions, Thermal Performance & Weight

Panel Nominal Thickness (mm)	Product R-Value (m²K/W) at 23°C	Product U-Value (W/m²K) at 23°C	Total R-Value (m²K/W) Wall Application		Total R-Value (m²K/W) Ceiling Application		Weight* (kg/m²)	
			Heat Flow Out (Winter)	Heat Flow In (Summer)	Heat Flow Out (Winter)	Heat Flow In (Summer)	KS1100CS	KS1200CS
50	2.23	0.45	2.49	2.30	2.48	2.34	10.0	10.5
75	3.43	0.29	3.75	3.46	3.74	3.50	11.0	11.5
100	4.60	0.22	4.96	4.58	4.95	4.62	11.8	12.5

Declared Thermal Conductivity (λ Value) 0.022 W/mK @23°C.

Declared Product R-Value is calculated in accordance with AS/NZS 4859.1: 2018 as required for compliance to the National Construction Code.

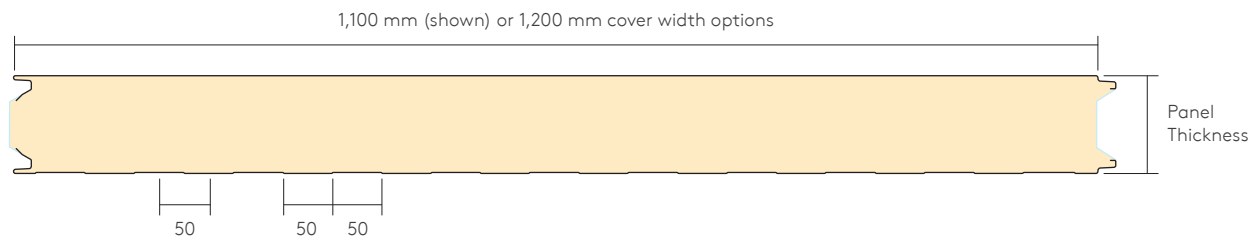
The R-Values shown above are the total R-Values for the building element as required by the Energy Provisions of the National Construction Code, calculated in accordance with AS/ NZS 4859.2: 2018. KS1100/1200CS Agri Wall & Ceiling Panels are manufactured, tested and packaged in conformance with AS/NZS 4859.1: 2018.

* Actual weight subject to vary $\pm 10\%$ due to manufacturing and raw material tolerances.

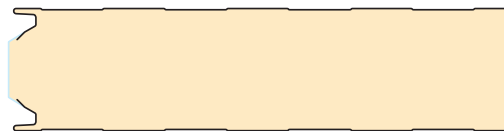
Kingspan Agri Wall & Ceiling Panels

Profile Options

Agri Wall & Ceiling Panels are available in a choice of two profiles - Rib and Flat. These profiles can be specified for both the external and internal faces as required.



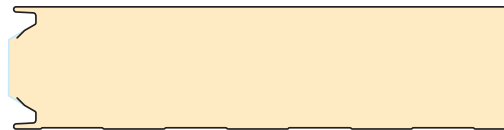
Rib External / Internal Profile



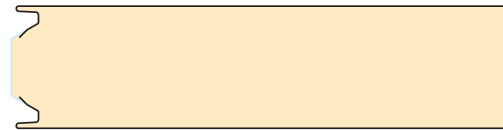
Rib External / Flat Internal Profile



Flat External / Rib Internal Profile



Flat External / Flat Internal Profile



Note: Dimensions are nominal. Actual dimensions will vary due to manufacturing tolerances. Precise dimensions must always be measured from actual samples.

Certification & Testing

Insurer Approvals

Agri Wall and Ceiling Panels are tested to:

- FM 4880 Class 1 fire rating of building panels or interior finish materials, unlimited height for thicknesses 50 mm to 200 mm and for panel widths of 1100 mm and 1200 mm.
- FM 4881 Class 1 exterior wall systems, unlimited height for thicknesses 50 mm to 200 mm and for panel widths of 1100 mm and 1200 mm.

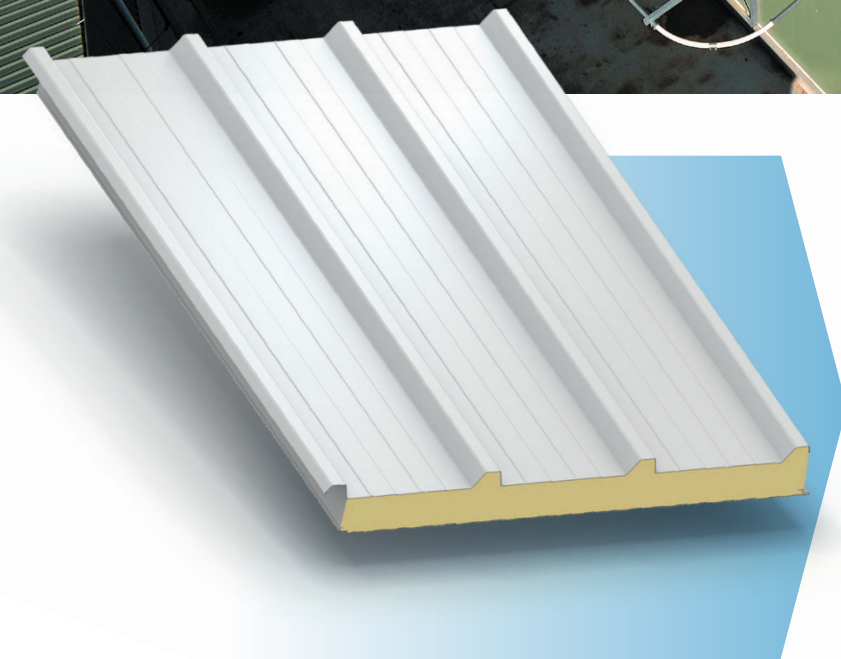
FM 4880 Class 1 is a pre-requisite, and therefore captured within the FM 4881 listing.

FM approvals are subject to the following certified names:

- For 1100 mm widths: KS1100CS Coldstore Panels.
- For 1200 mm widths: KS1200CS Coldstore Panels.

Insurer approvals are large scale testing regimes that provide objective third-party testing, which is underpinned by quarterly, half-yearly and yearly factory surveillance audits (depending on the region) to verify compliance. Insurer approvals are subject to panel thickness, width, orientation, method of assembly, steel coating and manufacturing facility. Please contact Technical Services for project specific details.





Kingspan Agri RW Roof Panels

Kingspan Agri RW Roof Panels are through-fixed trapezoidal profiled, insulated roof panels which can be used for building applications with roof pitches of 3° or more after deflection.

Agri RW Roof Panels are available in a 1,000 mm cover width and standard lengths of 2 metres to 13.7 metres. Agri RW Roof Panels present a superior single component roofing solution compared to conventional multi-part site assembled systems.

Dimensions, Thermal Performance & Weight

A - Core Thickness (mm)	B - Overall Thickness (mm)	Product R-Value (m²K/W) at 23°C	Product U-Value (W/m²K) at 23°C	Total R-Value (m²K/W)		Weight* (kg/m²)
				Heat Flow Out (Winter)	Heat Flow In (Summer)	
40	75	1.91	0.52	2.15	2.03	8.5
60	95	2.87	0.34	3.15	2.96	9.1

Declared Thermal Conductivity (λ Value) 0.023 W/mK @23°C (insulant thickness = 40 mm).

Declared Thermal Conductivity (λ Value) 0.022 W/mK @23°C (insulant thickness = 60 mm).

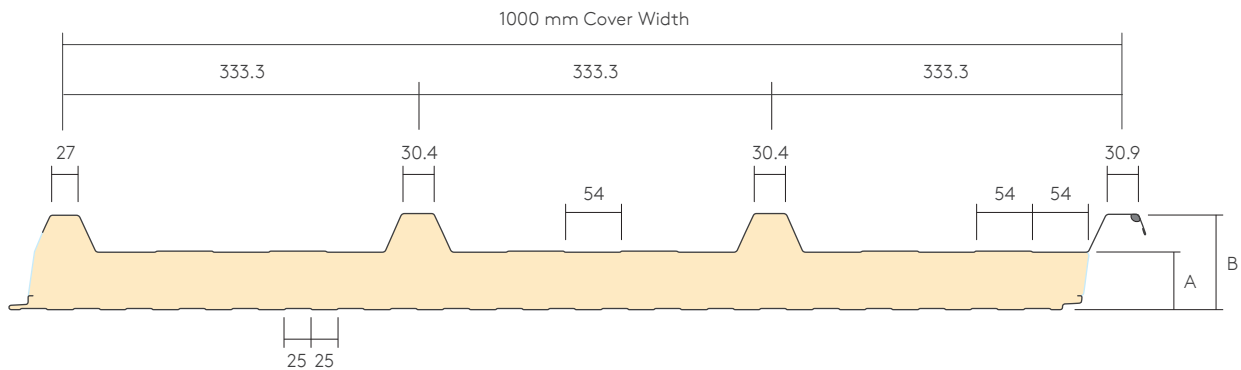
Declared Product R-Value is calculated in accordance with AS/NZS 4859.1: 2018 as required for compliance to the National Construction Code.

The R-Values shown above are the total R-Values for the building element as required by the Energy Provisions of the National Construction Code, calculated in accordance with AS/NZS 4859.2: 2018. KS1000RW Agri RW Roof Panels are manufactured, tested and packaged in conformance with AS/NZS 4859.1: 2018.

* Actual weight subject to vary $\pm 10\%$ due to manufacturing and raw material tolerances.

Kingspan Agri RW Roof Panels

Profile



Note: Dimensions are nominal. Actual dimensions will vary due to manufacturing tolerances. Precise dimensions must always be measured from actual samples. All measurements in mm.

Certification & Testing

Insurer Approvals

Kingspan Agri RW Roof Panels are tested to:

- FM 4471 approval standard for class 1 roof panels under the certified name KS1000RW for thicknesses 40 mm to 120 mm.
- FM 4880 Class 1 fire rating of building panels or interior finish materials, unlimited height under the certified name KS1000 RW for thicknesses 40 mm to 120 mm.

Insurer approvals are large scale testing regimes that provide objective third-party testing, which is underpinned by quarterly, half-yearly and yearly factory surveillance audits (depending on the region) to verify compliance. Insurer approvals are subject to panel thickness, width, orientation, method of assembly, steel coating and manufacturing facility. Please contact Technical Services for project specific details.



CodeMark Certification Scheme

Kingspan Agri RW Roof Panels hold a CodeMark Certificate of Conformity stating the provisions of the Building Code of Australia and States or Territory Variation(s) the product conforms to.

The CodeMark Certificate of Conformity is held under the name KS1000 RW – Trapezoidal Roof & Wall Panels for thickness:

- 40 mm to 140 mm with a 100 mm standard end lap solution. Certificate number: CM20103.
- 40 mm to 140 mm with a 75 mm prime end lap solution. Certificate number: CM20346.

For further details please contact the Kingspan Technical Service Department or alternatively refer to JAS-ANZ CodeMark Register of Certificates of Conformity directory and search for Kingspan Insulated Panels Pty Limited.



Bushfire Applications

Kingspan Agri RW Roof Panels (KS1000RW Trapezoidal Roof Panels) are tested in accordance with AS1530.8.1 2007 for full scale bushfire roofs and is suitable for use in Bushfire locations up to BAL 40 (AS 3959-2018) with a core thickness of ≥ 100 mm when installed with a roof pitch up to 18°.

For further details please contact Kingspan Technical Services.



Kingspan Agri K-Clad Roof Panels

Kingspan Agri K-Clad Roof Panels are through-fixed trapezoidal profiled, insulated roof panels designed specifically for non-Section J buildings with roof pitches of 3° or more after deflection.

Agri K-Clad Roof Panels are available in a 1,000 mm cover width and standard lengths of 2 metres to 12 metres. Agri K-Clad Roof Panels are a viable alternative to the traditional multi-part construction methods of non-Section J buildings.

Dimensions, Thermal Performance & Weight

A - Core Thickness (mm)	B - Overall Thickness (mm)	Product R-Value (m²K/W) at 23°C	Product U-Value (W/m²K) at 23°C	Total R-Value (m²K/W)		Weight* (kg/m²)
				Heat Flow Out (Winter)	Heat Flow In (Summer)	
30	65	1.30	0.77	1.51	1.45	8.00

Declared Thermal Conductivity (λ Value) 0.023 W/mK @23°C.

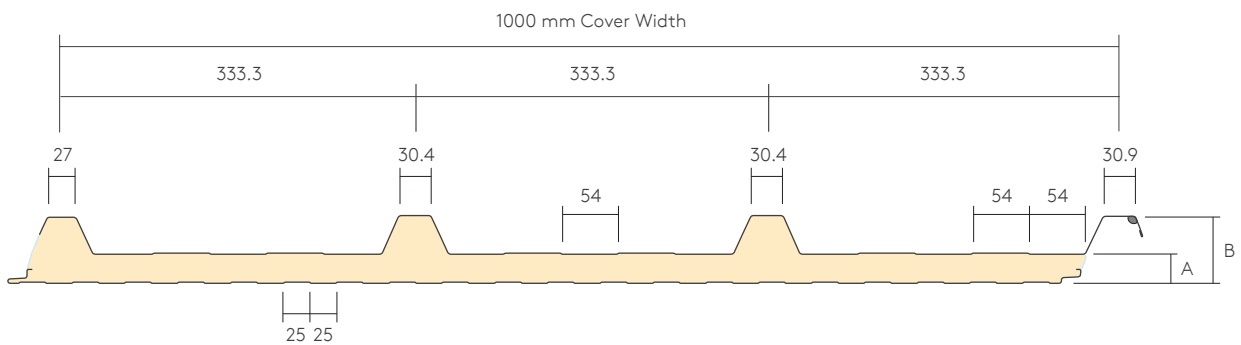
Declared Product R-Value is calculated in accordance with AS/NZS 4859.1: 2018 as required for compliance to the National Construction Code.

The R-Values shown above are the total R-Values for the building element as required by the Energy Provisions of the National Construction Code, calculated in accordance with AS/NZS 4859.2: 2018. Agri K-Clad Roof Panel is manufactured, tested and packaged in conformance with AS/NZS 4859.1: 2018.

* Actual weight subject to vary $\pm 10\%$ due to manufacturing and raw material tolerances.

Kingspan Agri K-Clad Roof Panels

Profile



Note: Dimensions are nominal. Actual dimensions will vary due to manufacturing tolerances. Precise dimensions must always be measured from actual samples. All measurements in mm.



DELIVERING CERTIFIED AND PROVEN QUALITY

We are committed to quality and safety. Our manufacturing facility in Sydney upholds strict quality control through its Integrated Management System (IMS) and is certified to internationally recognised ISO standards.

Our Agri Panels have undergone rigorous national and international fire performance tests, providing peace of mind for your project.

Quality and durability

- **ISO 9001: 2015** – Quality Management System: Ensures consistent product quality and customer satisfaction.
- **ISO 14001: 2015** – Environmental Management System: Reduces environmental impact and supports Kingspan's Planet Passionate sustainability goals.
- **ISO 45001: 2018** – Occupational Health & Safety Management: Promotes safe workplaces through risk management and a safety culture.
- **ISO 37301** – international standard for compliance management systems (CMS)

Certification and testing

Fire Performance

Kingspan Agri Panels (KS1000RW Trapezoidal Roof Panels, KS1100/1200CS Coldstore Panels and K-Clad Roof Panels) are tested in accordance with:

- **AS/NZS: 1530.3: 1999** – Methods for fire tests on building materials, components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release
- **AS 5637.1: 2015** – Determination of fire hazard properties, Part 1: Wall and ceiling linings
- **AS ISO 9705 2003** – Fire tests - Full-scale room test for surface products



* Certifications, testing, quality and durability are all product specific, please contact technical services for more information.

Contact Details

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