

## Certification Body:



SAI Global Certification Services  
Pty Limited

(ACN 108 716 669) Trading as  
"SAI Global"

JAS-ANZ Accreditation No.  
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## Certificate Holder:



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SAI Global Certification Services



Calin Moldoveanu  
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SAI Global Assurance



Harley Parkes – Unrestricted Building Certifier

Certificate number: CM20047

## THIS TO CERTIFY THAT

### Kooltherm® K12 Framing Board

#### Type and/or use of product:

The Kooltherm K12 Framing Board is a thermal insulation board for use behind wall lining and framed walls.

#### Description of product:

The Kooltherm® K12 Framing Board is a fibre-free rigid thermoset closed cell phenolic insulation core, sandwiched between two layers of reflective low emissivity composite foil, autohesively bonded to the insulation core during manufacture.

## COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

## BCA 2022

	Volume One		Volume Two	
Performance Requirement(s)	N/A	N/A	N/A	N/A
Deemed-to-Satisfy Provision(s):	<b>C2D11 (1)(i)</b> Including S7C7  <b>J4D3</b>	<b>Fire Hazard Properties</b> Other Materials  <b>Building fabric</b> - Thermal construction — general (must be used in conjunction with other building elements to achieve a total R value outlined in clause J4D6 'Walls and Glazing') subject to state and territory variations.	<b>13.2.2</b>	<b>Building fabric</b> - Building fabric thermal insulation. (must be used in conjunction with other building elements to achieve a total R value outlined in clause 13.2.5 'External walls') subject to state and territory variations.
State or territory variation(s):	<b>NSW C2D11</b> including NSW S7C7  <b>NSW J4D3</b>	<b>Fire resistance and Stability</b> – Fire hazard properties Other materials  <b>Energy Efficiency</b> – Thermal Construction – general – <i>Delete J4D3 and insert NSW J4D3</i> (must be used in	<b>NT Part 13.2</b>  <b>TAS Part 13.2</b>	<b>Building fabric</b> – In the Northern Territory, Part 13.2 is replaced with NT Part 13.2.  <b>Building fabric</b> – In the Tasmania, Section 13 is replaced with BCA 2019 Part 3.12.

Date of issue: 22/11/2023

Date of expiry: 21/11/2026



# Certificate of Conformity

## NT Part J4

conjunction with other building elements to achieve a total R value outlined in clause NSW J4D6 'Walls and Glazing').

**Building Fabric** - For a Class 2 building and Class 4 part of a building, Section J is replaced with Section J of BCA 2009. For Class 3 and Class 5-9 buildings, Section J of NCC 2022 does not apply and from 1 October 2023 Section J of NCC 2019 applies.

**NSW Part 13.2.5**

**Building fabric** – In NSW delete 13.2.5 and insert NSW Part 13.2.5 'External walls'.

### SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

#### Limitations and conditions:

1. The product must be installed in accordance with the "Kooltherm® K12 Framing Board – Insulation for use Behind Wall Lining and in Framed Walls" manual (KIAU0057, Issue 15, September 2023)
2. This product is certified for use in **Type C** Construction as specified in the NCC 2022 Building Code of Australia, Clause C2D2 and Table C2D2.
3. Ensure that a residual cavity of at least 40 mm is maintained in accordance with the moisture penetration provisions set out in the masonry structures standard AS 3700 (clause 4.7.1) as called up in the NCC 2022 Volume 1, Section B1D4 & NCC 2022 Housing Provisions H2D4.
4. In masonry veneer applications a retaining clip must be installed on each wall tie to secure the insulation firmly to the external face of the internal framework.

#### Building classification/s:

Volume 1 – Class 2 to Class 9 buildings  
Volume 2 – Class 1 and Class 10a buildings

**Scope of certification:** The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website [www.abcb.gov.au](http://www.abcb.gov.au). This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

**Disclaimer:** The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

Refer to Page 1 of this certificate.

### A2 Description of product

Refer to Page 1 of this certificate.

### A3 Product specification

Product Name	Kooltherm® K12 Framing Board
Nominal Product Thickness	25mm, 30mm, 40mm, 50mm – Other thickness available upon enquiry
Product Dimensions	2400mm x 1200mm (2.88m <sup>2</sup> )
Declared Material R-value	25mm – R1.10m <sup>2</sup> .K/W at 23°C 30mm – R1.30m <sup>2</sup> .K/W at 23°C 40mm – R1.75m <sup>2</sup> .K/W at 23°C 50mm – R2.30m <sup>2</sup> .K/W at 23°C 80mm – R3.60m <sup>2</sup> .K/W at 23°C
Declared Thermal Conductivity (λ-value)	0.023 W/m.K at 23°C (insulant Thickness 25 – 44mm)  0.022 W/m.K at 23°C (insulant Thickness ≥44mm)
Emittance	E0.06 – Foil Face

For the purposes of the NCC 2022 Building Code of Australia Volume One, S7C7, the K12 framing board has been tested to AS 1530.3 and achieved a Spread of Flame Index of 0 and a Smoke Developed Index 2.

### A4 Manufacturer and manufacturing plant(s)

Kingspan Insulation Pty Ltd.

25 Oherns Road, Somerton, VIC, 3062, Australia

### A5 Installation requirements

Refer to Page 2 of this certificate and the following;

1. 'Kooltherm® K12 Framing Board – Insulation for use Behind Wall Lining and in Framed Walls' manual (KIAU0057, Issue 15, September 2023)

### A6 Other relevant technical data

- None

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

The product has been assessed as complying with the identified Performance Requirements of the BCA 2022. This involved a review of product specifications, test reports, installation manuals, and associated documentation.

1. Fire Hazard Properties assessment:
  - a) A2G3(2)(a) / A5G3(1)(d) - A report issued by an Accredited Testing Laboratory - 'AWTA' Australian Wool Testing Authority (NATA accreditation No. 1356) & 'Warringtonfire' (NATA accreditation No. 3277)
2. Energy Efficiency Assessment:
  - a) A2G3(2)(a) / A5G3(1)(d) - A report issued by an Accredited Testing Laboratory – OTM Solutions (SAC accreditation No. LA-2016-0610-G)
  - b) A2G3(2)(a) / A5G3(1)(f) - Another form of documentary evidence, such as but not limited to a Product Technical Statement - Kingspan Insulation Pty Ltd.

### B2 Reports

Evaluation methods	Related Reports
Fire Hazard Properties assessment	1
Energy Efficiency Assessment	2, 3, 4

1. **AWTA Product Testing -Test Report (Test Number 22-000498) for Kingspan Kooltherm® K8 Cavity Board/Kooltherm® K12 Framing Board – dated 23/02/2023** (NATA accreditation No. 1356) to 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. *This test provides the result for spread-of-flame index of 0, and Smoke Development Index of 2.*
2. **Kingspan Thermal Value Summary Report (Kooltherm TVSR – Final – 28/08/2023 –** *This report provides a Thermal value summary Report in conformance with AS/NZS 4859.1:2018 clause 2.3.3.9, based on test reports provided by OTM (SAC accreditation No. LA-2016-0610-G) - Test reports for 45mm and greater (Test Numbers OTM2303015, OTM2303016, OTM2305001, OTM2305002, OTM2305003, OTM2305006, OTM2305012, OTM2306022, OTM2306024, OTM2306027 ) & reports for less than 45mm (Test Numbers OTM2302007, OTM2305004, OTM2305005, OTM2305007, OTM2305011, OTM2305014, OTM2305015, OTM2305013, OTM2306023, OTM2212012 )for Kingspan Kooltherm. These reports provide results of testing to ASTM C518.*
3. **OTM Solutions, Material Surface Emittance Test Report. Report No. OTM2110022 (dated 01/11/2021)** - *This report provides the results to testing ASTM C1371-15 (Standard test method for determination of emittance of materials near room temperature using portable emissometers) as identified in AS4859.1:2018, for Kingspan Kooltherm K8 Cavity Board / Kingspan Kooltherm K12 Framing Board Foil.*
4. **AWTA Product Testing – Test Report (Test Number 15-003514) Resistance to Surface Corrosion and Wet Delamination at Elevated Ambient Temperatures (Reflective Insulations) – dated 20/08/2015** - This report provides the results of testing to AS/NZS 4859.1-2018 and indicates a Pass for Wet Delamination and a Pass for Surface Corrosion (K12).