



# Certificate of Conformity

## Certification Body:



SAI Global Certification Services  
Pty Limited

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

JAS-ANZ Accreditation No.  
Z1440295AS

Address: 680 George St, Sydney,  
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## Certificate Holder:



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SAI Global Certification Services

Heather Mahon  
Global Head of Technical Services  
SAI Global Assurance

Quintin Kleyn – Unrestricted Building Certifier

Certificate number: CM20042

### THIS TO CERTIFY THAT

## Kooltherm® K8 Cavity Board

### Type and/or use of product:

Kooltherm® K8 Cavity Board is a thermal insulation board for internal use in external cavity brick walls

### Description of product:

The Kooltherm® K8 Cavity 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.

**BCA 2019**

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

	Volume One		Volume Two	
<b>Performance Requirement(s)</b>	N/A	N/A	N/A	N/A
<b>Deemed-to-Satisfy Provision(s):</b>	<b>Spec. C1.10 clause 7</b>	<b>Fire hazard properties</b> Other materials	<b>3.12.1.1(a)</b>	<b>Building Fabric</b> – Building fabric thermal insulation. (such that it is able to be used as part of a system outlined in clause 3.12.1.4) subject to state and territory variations.
	<b>J1.2(a)</b>	<b>Building Fabric</b> - Thermal construction - general (such that it is able to be used as part of a system outlined in clause J1.5) subject to state and territory variations		
<b>State or territory variation(s):</b>	<b>NSW Spec. C1.10 - NSW 7</b>	<b>Fire Hazard Properties</b> Other Materials	<b>NSW 3.12</b>	<b>ENERGY EFFICIENCY</b> In New South Wales, Part 3.12 does not apply. Note: The New South Wales Additions contain energy efficiency measures that apply in New South Wales to support and complement BASIX.
	<b>NSW section J</b>	Section J is replaced with NSW Section J which consists of two (2) subsections:		

**Date of issue: 21/11/2019**

**Date of expiry: 21/11/2022**



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	<ul style="list-style-type: none"> <li>• J(A) Energy Efficiency – Class 2 buildings &amp; Class 4 part (BASIX)</li> <li>• J(B) Energy Efficiency – Class 3 &amp; Class 5 to 9 buildings</li> </ul>	<b>NT 3.12</b>	In the Northern Territory, Part 3.12 is replaced with BCA 2009 Part 3.12.
<b>NT section J</b>	For a Class 2 building and a Class 4 part of a building, Section J is replaced with Section J of BCA 2009. Section J does not apply to Class 3 and 5 - 9 buildings.	<b>SA 3.12</b>	In South Australia, for the purposes of this Part, a sunroom or the like is deemed to be a Class 10a building and must comply with 3.12.1.6.
<b>QLD section J</b>	In Queensland, for a Class 2 building, Section J is replaced with Section J of BCA 2009.	<b>QLD 3.12</b>	In Queensland, building work for the energy efficiency of Class 1 buildings is also regulated by the Building Act 1975 and the Queensland Development Code MP 4.1—Sustainable buildings.

**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® K8 Cavity Board” Cavity Wall Insulation installation manual (K8 – KIAU0051, Issue 15 – Oct 2019)
2. 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 2019 Volume 1, Section B1.4 & NCC 2019 Volume 2, Part 3.3.4.
3. A retaining clip must be installed on each wall tie to secure the insulation firm to the external face of the internal leaf of brickwork.

**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.



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## 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 Data	
Product Dimensions	1200mm x 514mm (0.61m <sup>2</sup> ) Other dimensions available upon enquiry.
Nominal Product Thickness	25mm & 40mm Other thicknesses available upon enquiry.
Declared Thermal Conductivity ( $\lambda$ -value)	0.023 W/m.K at 23°C (insulant thickness 25-44mm)
Emittance (Foil Face)	E0.06
Declared Product R-value	25mm – R1.10 40mm – R1.75
Spread of Flame Index	0
Smoke Development	≤ 3

### A4 Manufacturer and manufacturing plant(s)

Kingspan Insulation Pty Ltd. – Manufactured in Somerton  
25 O’Herns Road, Somerton, VIC, 3062, Australia

## A5 Installation requirements

Refer to Page 2 of this certificate and the following;

- Kooltherm<sup>®</sup> K8 Cavity Board Cavity Wall Insulation installation manual (K8 – KIAU0051, Issue 15 – Oct 2019)

## A6 Other relevant technical data

- None

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

The system has been assessed as complying with the identified Performance Requirements of the BCA 2019. This involved a review of product specifications, test reports, installation manuals, and associated documentation;

1. Fire Hazard Properties assessment - A2.3(2)(a) / A5.2(1)(d) - *A report issued by an Accredited Testing Laboratory (AWTA - NATA accreditation No. 1356)*
2. Energy Efficiency Assessment;
  - A2.3(2)(a) / A5.2(1)(d) - *A report issued by an Accredited Testing Laboratory (AWTA - NATA accreditation No. 1356)*
  - A2.3(2)(a) / A5.2(1)(e) - *A report from an appropriately qualified person (Acronem Consulting Australia Pty Ltd)*
  - A2.3(2)(a) / A5.2(1)(f) - *Another form of documentary evidence, such as but not limited to a Product Technical Statement. (Kingspan Insulation Pty Ltd)*

### B2 Reports

1. **AWTA Product Testing -Test Report (Test Number 17-000424) for Kingspan Kooltherm<sup>®</sup> K8 Cavity Board/Kooltherm<sup>®</sup> K12 Framing Board – dated 10/02/2017** (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 results to testing of 40mm product and gives a result for spread-of-flame index of 0, and Smoke Development Index of 2.*
2. **Kingspan Thermal Value Summary Report (Kooltherm TVSR – Final – 20/09/2019)** – *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 AWTA Product Testing - Test Reports (Test Numbers 18-004507, 18-004506, 18-004504, 18-004503, 18-004500, 18-005875, 18-005876, 18-005878, 18-005881) for Kingspan Kooltherm (NATA accreditation No. 1356). These reports provide results of testing to ASTM C518-2017.*
3. **Acronem Consulting Australia Pty Ltd - Thermal Conductivity Assessment of Kooltherm<sup>®</sup> K3, K5, K8, K10, K12, K17 Phenolic Foam– dated 1<sup>st</sup> August 2018** *This assessment provides expert judgment of the thermal conductivity of Kooltherm<sup>®</sup> at varying thicknesses when tested to achieve the noted Insulation R-Values in the product brochures. This assessment is based on AWTA Test reports (Test Numbers 17-001255, 17-001265, 17-001953, 17-001955, 17-002821, 17-002824, 17-005215, 17-005218, 17-005231, 18-000777)*