



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, NSW 2000

Website: www.saiglobal.com

Certificate Holder:



Kingspan Insulation Pty Ltd

25 Oherns Road, Somerton VIC 3062

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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 K12 Framing Board consists of three layers as follows:
The facing on both sides is a low emissivity composite foil autohesively bonded to the insulation core during manufacture.
The core is a fibre free rigid thermoset phenolic insulation.

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

BCA 2019

Performance Requirement(s)	Volume One		Volume Two	
	N/A	N/A	N/A	N/A
Deemed-to-Satisfy Provision(s):	Spec. C1.10 clause 7	Fire Hazard Properties Other Materials	3.12.1.1	Building fabric - Building fabric thermal insulation. (must be used in conjunction with other building elements to achieve a total R value outlined in clause 3.12.1.4 'External walls') subject to state and territory variations.
	J1.2	Building Fabric – Thermal construction — general (must be used in conjunction with other building elements to achieve a total R value outlined in clause J1.5 'Walls and Glazing') subject to state and territory variations.		
State or territory variation(s):	NSW Spec. C1.10 NSW 7	Fire hazard properties Other materials	NSW-3.12	ENERGY EFFICIENCY 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.

SAI Global Certification Services

Heather Mahon
Global Head of Technical Services
SAI Global Assurance

Quintin Kleyn – Unrestricted Building Certifier

Date of issue: 27/07/2020

Date of expiry: 27/07/2023



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NSW Section J	Section J is replaced with NSW Section J which consists of two (2) subsections: <ul style="list-style-type: none"> • J(A) Energy Efficiency – Class 2 buildings & Class 4 part (BASIX) • J(B) Energy Efficiency – Class 3 & Class 5 to 9 buildings 	NT-3.12	In the Northern Territory, Part 3.12 is replaced with BCA 2009 Part 3.12.
NT Section J	For a Class2 building and a Class4 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.	SA-3.12	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.
QLD Section J	In Queensland, for a Class 2 building, Section J is replaced with Section J of BCA 2009	QLD-3.12	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.
		ACT-3.12	In the Australian Capital Territory, see the ACT Appendix for further information on application to building work on new buildings and additions to existing buildings in the ACT.

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 12, Dec 2019)
2. This product is certified for use in **Type C** Construction as specified in the NCC 2019 Building Code of Australia, Clause C1.1 and specification C1.1 table 5.

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. 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 ²)
Declared Material R-value	25mm – R1.10m ² .K/W at 23°C 30mm – R1.30m ² .K/W at 23°C 40mm – R1.75m ² .K/W at 23°C 50mm – R2.35m ² .K/W at 23°C
Declared Thermal Conductivity (λ-value)	0.023 W/m.K at 23°C (insulant Thickness 25 – 44mm) 0.021 W/m.K at 23°C (insulant Thickness ≥44mm)
Emittance	E0.06 – Foil Face

For the purposes of the NCC 2019 Building Code of Australia Volume One, Specification C1.10 clause 7, 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. – Manufactured in Somerton
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 12, Dec 2019)

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 2019. This involved a review of product specifications, test reports, installation manuals, and associated documentation.

1. Fire Hazard Properties assessment:
 - a) A2.3(2)(a) / A5.2(1)(d) - A report issued by an Accredited Testing Laboratory - 'AWTA' Australian Wool Testing Authority (NATA accreditation No. 1356)
2. Energy Efficiency Assessment:
 - a) A2.3(2)(a) / A5.2(1)(d) - A report issued by an Accredited Testing Laboratory – 'AWTA' Australian Wool Testing Authority (NATA accreditation No. 1356) & OTM Solutions (SAC accreditation No. LA-2016-0610-G)
 - b) A2.3(2)(a) / A5.2(1)(e) – A report from an appropriately qualified person – Acronem Consulting Australia Pty Ltd.
 - c) 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

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

1. **AWTA Product Testing, Methods for Fire Tests on Building Materials, Components and Structures – Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release, Test Number 17-000424 - dated 10/02/2018** (NATA accreditation No. 1356). *This test report provides the results of testing to AS/NZS 1530.3-1999 for K12 Framing Board and returns results for Spread of Flame index of 0 and Smoke Development Index of 2.*
2. **Kingspan Thermal Value Summary Report (Kooltherm TVSR – Final – 25/03/2020)** – *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 for 45mm and greater (Test Numbers 18-004505, 18-005882, 18-005885, 18-005886, 18-005888, 18-005889, 18-005890, 18-005891, 18-005892, 18-005893, 18-005894,) & test reports for less than 44mm (Test Numbers 18-004500, 18-004503, 18-004504, 18-004506, 18-004507, 18-005875, 18-005876, 18-005878, 18-005881, 20-000201,)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® K3, K5, K8, K10, K12, K17 Phenolic Foam– dated 01/08/2018** - *This assessment provides expert judgment of the thermal conductivity of Kooltherm® 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).*
4. **OTM Solutions, Material Surface Emittance Test Report. Report No. OTM2005009 (dated 18/05/2020)** - *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.*