Certificate of Conformity

Certification Body:

SAI GLOBAL

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 O'herns Road, Somerton VIC 3062

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Certificate number: CM20201

THIS TO CERTIFY THAT

Kooltherm® K10 G2 Soffit Board and K10 G2W White Soffit Board

Type and/or use of product:

Kingspan Kooltherm® K10 G2 & K10 G2W Soffit Boards are a thermal insulation board for use as soffit board, being installed to the underside of concrete soffits.

Description of product:

Kingspan Kooltherm® K10 G2 & K10 G2W soffit boards are fibre-free rigid thermoset, closed cell phenolic insulation core, sandwiched between an upper tissue-based facing and a lower facing of aluminium foil autohesively bonded to the insulation core during manufacture.

K10 G2 has a lower facing of highly reflective aluminium foil.

K10 G2W has a lower facing of white aluminium foil.

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

BCA 2019

	Volume One		Volume Two	
Performance Requirement(s)	**N/A**	**N/A**	**N/A**	**N/A**
Deemed-to-Satisfy Provision(s):	**Spec. C1.10 clause 4 & clause 7**	**Fire Hazard Properties** Wall and ceiling linings 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 3.12.1.2 'Roofs' & 3.12.1.5 'Floors') 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 J1.3 'Roof and ceiling construction' & J1.6 'Floors') 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

SAI Global Certification Services

Heather Mahon
Global Head of Technical Services
SAI Global Assurance

Quintin Kleyn – Unrestricted Building Certifier

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ABCB JAS-ANZ

NSW Section J	Section J is replaced with NSW Section J which consists of two (2) subsections: • J(A) Energy Efficiency – Class 2 buildings & Class 4 part (BASIX) • J(B) Energy Efficiency – Class 3 & Class 5 to 9 buildings
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.
QLD Section J	In Queensland, for a Class 2 building, Section J is replaced with Section J of BCA 2009

	efficiency measures that apply in New South Wales to support and complement BASIX.
NT-3.12	In the Northern Territory, Part 3.12 is replaced with BCA 2009 Part 3.12.
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-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 to be used for Class 2 to Class 9 buildings (as per NCC Classifications) in all states and territories, except for parts of the building as noted below:
   - Public corridors in *Class 3 and class 9a Unsprinklered accommodation for the aged, people with disability, children and health-care building*
   - Public corridors in *Class 9b other than schools, Unsprinklered.*
   - Public corridors in *Class 9c* a residential care building, Unsprinklered.
   - Fire-isolated exits and fire control rooms in *Class 2 to Class 9* .
2. This product has been tested to AS/ISO 9705-2003 and achieved a **Group 2** material under BCA Specification C1.10.
3. K10 G2W White Soffit Board is to be installed in accordance with the 'Kooltherm® K10 G2W White Soffit Board' manual (K10G2W, KIAU0032, Issue 8, Sept 2020)
4. K10 G2 Soffit Board is to be installed in accordance with the 'Kooltherm® K10 G2 Soffit Board' manual (K10G2, KIAU0030, Issue 8, Sept 2020)

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.

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® K10 G2**	**Kooltherm® K10 G2W**
Nominal Product Thickness	25mm, 30mm, 40mm, 45mm, 50mm, 60mm, 70mm, 80mm, 90mm, 100mm	25mm, 30mm, 40mm, 45mm, 50mm, 60mm, 70mm, 80mm, 90mm, 100mm
Product Dimensions	2400mm x 1200mm (2.88m^2)	2400mm x 1200mm (2.88m^2)
Declared Material R-value	25mm – R1.10m^2.K/W at 23°C	25mm – R1.10m^2.K/W at 23°C
	30mm – R1.30m^2.K/W at 23°C	30mm – R1.30m^2.K/W at 23°C
	40mm – R1.75m^2.K/W at 23°C	40mm – R1.75m^2.K/W at 23°C
	45mm – R2.15 m^2.K/W at 23°C	45mm – R2.15 m^2.K/W at 23°C
	50mm – R2.35m^2.K/W at 23°C	50mm – R2.35m^2.K/W at 23°C
	60mm – R2.85 m^2.K/W at 23°C	60mm – R2.85 m^2.K/W at 23°C
	70mm – R3.35 m^2.K/W at 23°C	70mm – R3.35 m^2.K/W at 23°C
	80mm – R3.80 m^2.K/W at 23°C	80mm – R3.80 m^2.K/W at 23°C
	90mm – R4.30 m^2.K/W at 23°C	90mm – R4.30 m^2.K/W at 23°C
	100mm – R4.75 m^2.K/W at 23°C	100mm – R4.75 m^2.K/W at 23°C
Declared Thermal Conductivity (λ-value)	0.023 W/m.K at 23°C (insulant Thickness 25 – 44mm)	0.023 W/m.K at 23°C (insulant Thickness 25 – 44mm)
	0.021 W/m.K at 23°C (insulant Thickness ≥44mm)	0.021 W/m.K at 23°C (insulant Thickness ≥44mm)
Emittance	E0.05 – Foil Face	N/A

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;

- 'Kooltherm® K10 G2W White Soffit Board' manual (K10G2W, KIAU0032, Issue 8, Sept 2020)
- 'Kooltherm® K10 G2 Soffit Board' manual (K10G2, KIAU0030, Issue 8, Sept 2020)

A6 Other relevant technical data

Refer to Report documented below (B2 Reports) and the following:

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 - Exova Warringtonfire (NATA accreditation No. 3277) & '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, 2, 3, 4
Energy Efficiency Assessment	5, 6, 7

1. **Exova Warrington fire Test Report EWFA Report No. 47288200.1 - dated 20 April 2017** (NATA accreditation No. 3277) . *This report provides the testing results for Group Rating for the fire test of a room lined with Kingspan Kooltherm® K10G2 panels, tested in accordance with AS ISO 9705-2003 & AS 5637.1:2015.*
2. **Warrington fire Test Report - Report No. RTF200382 R1.0 - dated 16 September 2020** (NATA accreditation No. 3277). *This report provides the testing results for Group Rating for the fire test of a room lined with Kingspan K10 FM G2W White Soffit Board, tested in accordance with AS ISO 9705-2003 R2016 & AS 5637.1:2015.*
3. **AWTA Product Testing -Test Report (Test Number 18-006414) for Kingspan Kooltherm® K10 FM G2W Soffit Board - dated 22 November 2018** (NATA accreditation No. 1356). *This report provides the testing results of testing to AS/NZS 1530.3:1999 for 'Early Fire Hazard Indices' for the 'Kooltherm® K10 G2W White Soffit Board' and returns results for Spread of Flame index of 0 and Smoke Development Index of 2.*
4. **AWTA Product Testing -Test Report (Test Number 18-000915) for Kingspan Kooltherm® K10 G2 Soffit Board - dated 07 March 2018** (NATA accreditation No. 1356). *This report provides the testing results of testing to AS/NZS 1530.3:1999 for 'Early Fire Hazard Indices' for the 'Kooltherm® K10 G2 Soffit Board' and returns results for Spread of Flame index of 0 and Smoke Development Index of 1.*

5. **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.*
6. **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).*
7. **OTM Solutions, Material Surface Emittance Test Report. Report No. OTM2005010 - dated 18/05/2020** (SAC accreditation No. LA-2016-0610-G) - *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 K10 G2 Soffit Board Foil.*