Certificate of Conformity

Certification Body:

SAI Global Certification Services Pty Limited

(ACN 108 716 669) ("Intertek SAI Global")

JAS-ANZ Accreditation No. Z1440295AS

Address: Level 7 Suite 7.01. 45 Clarence Street, Sydney NSW 2000 Australia

Website: saiassurance.com.au

Certificate Holder:

Kingspan Insulation Pty Ltd

25 Oherns Road, Somerton VIC 3062

Tel: 1300 247 235 Fax: 1300 247 329

info@kingspaninsulation.com.au

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 2022

	Volume One		Volume Two	
Performance Requirement(s)	**N/A**	**N/A**	**N/A**	**N/A**
Deemed-to-Satisfy Provision(s):	**C2D11** including **S7C4** & **S7C7**	**Fire Hazard Properties** Wall and ceiling linings Other Materials		
	J4D3	**Building Fabric –** Thermal construction — general (must be used in conjunction with other building elements to achieve a total R value outlined in clause J4D4 'Roof & Ceiling Construction' & J4D7 'Floors') subject to state and territory variations.	**13.2.2**	**Building fabric -** Building fabric thermal insulation. (must be used in conjunction with other building elements to achieve a total R value outlined in 13.2.3 'Roof & Ceilings'13.2.6 'Floors & Subfloor walls') subject to state and territory variations.

SAI Global Certification Services

Calin Moldovean
President, Business Assurance

Martin Ryan – Unrestricted Building Certifier

Date of issue: 15/02/2024

Date of expiry: 14/02/2027

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State or territory variation(s):	**NSW C2D11** including **NSW S7C7**	**Fire hazard properties** Other materials	**NSW part 13.2**	**ENERGY EFFICIENCY** – Building fabric. In NSW this section is replaced with NSW part 13.2
	VIC C2D11	**Fire hazard properties**	**NSW 13.2.3**	Roof & Ceilings - 13.2.3 is replaced with NSW 13.2.3.
	NSW J4D3	**Building Fabric** – Thermal construction — general	**NSW 13.2.6**	Floors and subfloor walls – 13.2.6 is replaced with NSW 13.2.6.
	TAS Section J	In Tasmania, for a Class 2 building and Class 4 part of a building, Section J is replaced with Section J of BCA 2019 Amendment 1.	**NT part 13.2**	In the Northern Territory, Part 13.2 is replaced with NT Part 13.2.
	NT part J4	**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.	**TAS part 13.2**	In Tasmania, Section 13 is replaced with BCA 2019 Part 3.12.

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 NCC Classifications in all states and territories, except for parts of the building as noted below:
   - Class 3 and class 9a accommodation for the aged, people with disability, children and healthcare building public corridors, unless sprinkler protection is provided within the building.
   - Class 9b, and Class 9c Public Corridors, unless sprinkler protections are provided within the building.
   - Within fire-isolated exits and fire control rooms.
2. This product has been tested to AS/ISO 9705-2003 and achieved a Group 2 material under NCC Specification 7.
3. The K10 G2 Soffit Board is to be installed in accordance with the Kooltherm® K10 G2 Soffit Board - Insulation for Concrete Soffits (K10G2 KIAU0030 Issue 11, Sept 2023)
4. The K10 G2W White Soffit Board is to be installed in accordance with the Kooltherm® K10 G2W White Soffit Board - White-faced Insulation for Concrete Soffits (K10G2W KIAU0032 Issue 11, Sept 2023)

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	25mm, 30mm, 40mm, 45mm, 50mm, 60mm, 70mm, 80mm, 90mm
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 – R2.05 m^2.K/W at 23°C	45mm – R2.05 m^2.K/W at 23°C
	50mm – R2.30m^2.K/W at 23°C	50mm – R2.30m^2.K/W at 23°C
	60mm – R2.75 m^2.K/W at 23°C	60mm – R2.75 m^2.K/W at 23°C
	70mm – R3.20 m^2.K/W at 23°C	70mm – R3.20 m^2.K/W at 23°C
	80mm – R3.65 m^2.K/W at 23°C	80mm – R3.65 m^2.K/W at 23°C
	90mm – R4.10 m^2.K/W at 23°C	90mm – R4.10 m^2.K/W at 23°C
	100mm – R4.60 m^2.K/W at 23°C	100mm – R4.60 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)
	0.022 W/m.K at 23°C (insulant Thickness ≥44mm)	0.022 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 G2 Soffit Board - Insulation for Concrete Soffits (K10G2 KIAU0030 Issue 11, Sept 2023)
- Kooltherm® K10 G2W White Soffit Board - White-faced Insulation for Concrete Soffits (K10G2W KIAU0032 Issue 11, Sept 2023)

A6 Other relevant technical data

Refer to Reports 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 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 - 'Exova Warringtonfire (Accreditation No: 3277), and AWTA (Accreditation No: 1356)
2. Energy Efficiency Assessment:
   a) A2G3(2)(a) / A5G3(1)(d) - A report issued by an Accredited Testing Laboratory - AWTA (NATA accreditation No: 1356), OTM Solutions (SAC accreditation No. LA-2016-0610-G)
   b) A2G3(2)(a) / A5G3(1)(f) – Another form of documentary evidence – Kingspan.

B2 Reports

Evaluation methods	Related Reports
Fire Hazard Properties assessment	1, 2, 3,
Energy Efficiency Assessment	4, 5, 6,

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 Number20-004133) for Kingspan Kooltherm® K10 G2 & K10 FM G2W Soffit Board - dated13/11/2020 (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 & K10 G2W (White) Soffit Board' and returns results for Spread of Flame index of 0 and Smoke Development Index of 2.

4. **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 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.

5. **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.

6. **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 and indicates a Pass for Wet Delamination and a Pass for Surface Corrosion (Kooltherm).