



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

Tel: 1300 247 235 Fax: 1300 247 329

info@kingspaninsulation.com.au

Certificate number: CM20045

THIS TO CERTIFY THAT

Kingspan Kooltherm® K17 and K18 Insulated Plasterboard

Type and/or use of product:

Kooltherm® K17 Insulated Plasterboard is an insulated Dry-Lining plasterboard for Adhesive bonding, and can also be mechanically fixed to internal side of concrete or masonry block walls

Kooltherm® K18 Insulated Plasterboard is an insulated Dry-Lining plasterboard for mechanical fixing to internal side of timber or steel frame walls & ceiling framing.

Description of product:

Kooltherm® K17 Insulated Plasterboard is a fibre-free rigid thermoset, closed cell phenolic insulation, sandwiched between a front facing of tapered edge gypsum based plasterboard, and a reverse tissue based facing, autohesively bonded to the insulation core.

Kooltherm® K18 Insulated Plasterboard is a fibre-free rigid thermoset, closed cell phenolic insulation, sandwiched between a front facing of tapered edge gypsum based plasterboard, and a reverse facing of low emissivity foil autohesively bonded to the insulation core.

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

BCA 2019

Performance Requirement(s) Deemed-to-Satisfy Provision(s):	Volume One		Volume Two	
	N/A	N/A	N/A	N/A
	Spec. C1.10, clause 4 & clause 7	Fire Hazard properties Wall & 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' & 3.12.1.4 'External walls') subject to state and territory variations. * clause 3.12.1.2 is only Applicable for K18
	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' & J1.5 'Walls and Glazing') subject to state and territory variations. * clause J1.3 is only Applicable for K18		

SAI Global Certification Services

Heather Mahon
Global Head of Technical Services
SAI Global Assurance

Quintin Kleyn – Unrestricted Building Certifier

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Date of expiry: 28/07/2023



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.
	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 Class 2 building & 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 & Class 5 to 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	For Class 2 buildings, 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:

- The products must be installed in accordance with the relevant Kingspan Insulation Pty Ltd brochure:
 - Kooltherm® K17 Insulated Plasterboard** - Insulated Dry-Lining Plasterboard for Adhesive Bonding (K17 KIAU0024, Issue 20, Dec 2019)
 - Kooltherm® K18 Insulated Plasterboard** – Insulated Dry-Lining Plasterboard for Mechanical Fixing (K18 KIAU0058, Issue 14, Jan 2020)
- Kooltherm® K17 & K18 should not be used to isolate dampness nor be used in continuously damp or humid conditions

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® K17 Insulated Plasterboard - Adhesive Bonding	Kooltherm® K18 Insulated Plasterboard - Mechanical Fixing
Nominal Product Thickness	35mm, 40mm, 50mm, 60mm, 70mm, 80mm, 90mm	35mm, 40mm, 50mm, 60mm, 70mm, 80mm, 90mm
Product Dimensions	2400mm x 1200mm (2.88m ²) other dimensions available upon enquiry	2400mm x 1200mm (2.88m ²) other dimensions available upon enquiry
Declared Material R-value	35mm – R1.16m ² .K/W at 23°C 40mm – R1.36m ² .K/W at 23°C 50mm – R1.81m ² .K/W at 23°C 60mm – R2.41m ² .K/W at 23°C 70mm – R2.91m ² .K/W at 23°C 80mm – R3.41m ² .K/W at 23°C 90mm – R3.86m ² .K/W at 23°C	35mm – R1.16m ² .K/W at 23°C 40mm – R1.36m ² .K/W at 23°C 50mm – R1.81m ² .K/W at 23°C 60mm – R2.41m ² .K/W at 23°C 70mm – R2.91m ² .K/W at 23°C 80mm – R3.41m ² .K/W at 23°C 90mm – R3.86m 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) 0.17 W/m.K at 23°C (Plasterboard thickness 10mm)	0.023 W/m.K at 23°C (insulant Thickness 25 – 44mm) 0.021 W/m.K at 23°C (insulant Thickness ≥44mm) 0.17 W/m.K at 23°C (Plasterboard thickness 10mm)
Emittance	N/A	E0.14 – Foil Face

Kooltherm® K17 and K18 Insulated Plasterboard achieves a Group 1 rating for Fire Hazard properties in accordance with AS 5367.1:2015 (Applies to compliant plasterboard facing)

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® K17 Insulated Plasterboard** - Insulated Dry-Lining Plasterboard for Adhesive Bonding (K17 KIAU0024, Issue 20, Dec 2019)
2. **Kooltherm® K18 Insulated Plasterboard** – Insulated Dry-Lining Plasterboard for Mechanical Fixing (K18 KIAU0058, Issue 14, Jan 2020)

A6 Other relevant technical data

- **Boral Plasterboard – Technical Data for Regular Plasterboard (Issue PBPD20 July 2014).** This contains information pertaining to the plasterboard having a Group 1 fire hazard rating in accordance with BCA Spec C1.10 Fire Hazard Properties – Floors, Walls and Ceilings.

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:
 - 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)
 - b) A2.3(2)(a) / A5.2(1)(e) – A report from an appropriately qualified person – BRANZ
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)
 - 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
Energy Efficiency Assessment	4, 5

1. **Exova Warrington, Fire test of a room lined with Kingspan Kooltherm K17 Insulated Plasterboard panels, tested in accordance with AS ISO 9705-2003 R2016 and AS 5637.1:2015, report No: 56093201.3 - dated 13 November 2018** (NATA accreditation No. 3277) - *This report provides the test results for the Kooltherm K17 Insulated plasterboard to AS ISO 9705 and AS 5637.1, and returns a Group Number 1, and SMOGRA_{RC} of 2.6m²s⁻² x 1000*
2. **BRANZ, Assessment Report on the fire performance of various Boral plasterboard wall and ceiling products, FAR 4137 - dated 10 September 2013** - *This report provides the results to testing of Boral plasterboard (used in Kingspan K17 and K18) to AS/NZS 3837, and returns a result of Group Number 1 and Average Specific Extinction Area of less than 250m²/kg*

3. **AWTA Product Testing, Methods for Fire Tests on Building Materials, Components and Structures, Test No. 17-000538 - dated 22/02/2017** (NATA accreditation No. 1356) - *This test provides the results to testing of the K10 board (used as the insulation layer in K17 and K18) to AS 1530.3 and returns a result of Spread of Flame Index of 0, and Smoke Development Index of 3.*
4. **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).*
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.*