



# 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](http://www.saiglobal.com)

## Certificate Holder:



Kingspan Insulation Pty Ltd

25 O'Herns Road, Somerton VIC 3062

Tel: 1300 247 235 Fax: 1300 247 329

[info@kingspaninsulation.com.au](mailto:info@kingspaninsulation.com.au)

Certificate number: CM20145

## THIS TO CERTIFY THAT AIR-CELL Insuliner®

### Type and/or use of product:

AIR-CELL Insuliner® is a reflective insulation for use in commercial or industrial buildings where it acts as the wall or ceiling lining.

### Description of product:

AIR-CELL Insuliner® is fibre-free, thermo reflective insulation, comprising a cross-linked, closed-cell polyethylene foam core, sandwiched with an anti-glare foil facing on one side and a plain foil facing on the other side.

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

BCA 2019

	Volume One		Volume Two
<b>Performance Requirement(s)</b>	<b>FP1.4</b>	<b>Damp and Weatherproofing</b>	<b>N/A N/A</b>
<b>Deemed-to-Satisfy Provision(s):</b>	<b>Spec. C1.10 Clauses 4 &amp; Clause 7</b>	<b>Fire Hazard Properties</b> Wall and Ceiling Lining Other Materials	
	<b>J1.2(a)(b)</b>	<b>Building Fabric</b> – 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' and J1.5 'Walls and Glazing') 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 Section J</b>	Section J is replaced with NSW Section J which consists of two (2) subsections: <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>	

SAI Global Certification Services

Heather Mahon  
Global Head of Technical Services  
SAI Global Assurance

Quintin Kleyn – Unrestricted Building Certifier

Date of issue: 23/04/2020

Date of expiry: 23/04/2023



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**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

**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 'AIR-CELL Insuliner® Reflective insulation for use where it acts as the Wall or Ceiling Lining' manual (KIAU0044, issue 11, Oct 2019).
2. The product is not suitable for use in a fire control room, in fire-isolated exits and unsprinklered corridors.

**Building classification/s:**

Volume 1 – Class 2 to Class 9 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.

## 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 & Code	AIR-CELL Insuliner® - TB055G2
Nominal Product Thickness	5.5 mm
Product Dimensions (Roll Size)	1350.0 mm x 22.25 m (30.0 m <sup>2</sup> )
Declared Material R-value	R0.15 m <sup>2</sup> .K/W at 23°C
Emittance	E0.03 – Reflective Face E0.05 – Anti Glare Face
Flammability Index (AS 1530.2)	≤ 5 – Low
Vapour Control (ASTM E96)	Vapour Barrier – Class 2
Electrical Conductivity (AS/NZS 200.1:2017)	Resistance ≤ 10MΩ – Electrically Conductive

The product has been tested to AS/ISO 9705 – 2003 (R2016) and AS 5637.1:2015 and can be Classed as a **Group 2** Material for use as a ceiling and wall lining under BCA Specification C1.10 except in fire-isolated exits, fire control rooms, and unsprinklered corridors.

### A4 Manufacturer and manufacturing plant(s)

Manufacturer - Kingspan Insulation Pty Ltd, 25 O'Herns Road, Somerton VIC 3062

Manufactured in Taren Point, NSW, Australia

### A5 Installation requirements

Refer to Page 2 of this certificate and the following;

1. 'AIR-CELL Insuliner® Reflective insulation for use where it acts as the Wall or Ceiling Lining' manual (KIAU0044, issue 11, Oct 2019). *This document contains information relating to installation, specifications and general details on Kingspan AIR-CELL Insuliner®*

## A6 Other relevant technical data

- N/A

## 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.

- Damp and Weatherproofing Assessment:
  - A2.2(2)(a) / A5.2(1)(d) - A report issued by an Accredited Testing Laboratory – ‘AWTA’ Australian Wool Testing Authority (NATA accreditation No. 985) and ‘R&D Services’ (IAS accreditation No. TL-566)
  - A2.2(2)(a) / A5.2(1)(e) – A report from an appropriately qualified person/s – ‘AWTA’ Australian Wool Testing Authority & ‘Acronem Consulting Australia Pty Ltd’
- Fire Hazard Properties assessment:
  - 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) & ‘Warringtonfire’ (NATA accreditation No. 3277)
- Energy Efficiency Assessment:
  - 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)
  - A2.3(2)(a) / A5.2(1)(e) – A report from an appropriately qualified person - ‘Surface optics corporation’ & ‘AWTA’ Australian Wool Testing Authority
  - 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
Damp and Weatherproofing Assessment	1, 2, 3, 4, 5, 6, 7
Fire Hazard Properties assessment	8, 9
Energy Efficiency Assessment	10, 11, 12

- Australian Wool Testing Authority Ltd (AWTA) – Test for Edge Tearing Resistance of Building Membranes and Underlays. Test No. 15-003643 (dated 04/08/2015).** This report provides the results of testing to AS/NZS 4200.1-1994 (Insuliner®). *This report contributes to satisfy NCC FP1.4.*
- Australian Wool Testing Authority Ltd (AWTA) – Test for Resistance to Dry Delamination. Test No. 16-004619 (dated 31/08/2016).** This report provides the results of testing to AS/NZS 4201.1-1994 and states the product obtained a “PASS” (Insuliner®). *This report contributes to satisfy NCC FP1.4.*
- Australian Wool Testing Authority Ltd (AWTA) – Test for Resistance to Shrinkage of Building Membranes and Underlays. Test No. 16-004623 (dated 29/09/2016).** This report provides the results of testing to AS/NZS 4201.3-1994 (Insuliner®). *This report contributes to satisfy NCC FP1.4.*

4. **Australian Wool Testing Authority Ltd (AWTA) – Test for Resistance to Water Penetration of Building Membranes and Underlays. Test No. 16-004626 (dated 12/09/2016).** This report provides the results of testing to AS/NZS 4201.4-1994 (Insuliner<sup>®</sup>). *This report contributes to satisfy NCC FP1.4.*
5. **Australian Wool Testing Authority Ltd – Pliable Building Membranes and underlays – Surface Water Absorbency. Test No. 16-004625 (dated 08/09/2016).** This report provides the results of testing to AS/NZS 4201.6-1994 (Insuliner<sup>®</sup>). *This report contributes to satisfy NCC FP1.4.*
6. **R&D Services - Test for Water Vapour Transmission. Test No. RD17055-R2 (dated 15/02/2017).** This report provides the results of testing to ASTM E96-2012 (Insuliner<sup>®</sup>). *This report contributes to satisfy NCC FP1.4.*
7. **Acronem Consulting Australia Pty Ltd. – Kingspan Insuliner NCC Compliance Appraisal. Report No. ACA-16218 (dated 17/05/2016)** - This appraisal describes a combined performance solution and deemed-to-satisfy solution in as much that the product would contribute as an Insulation layer, Vapour barrier & Reflective barrier satisfying the relevant performance requirements of the NCC when installed as part of a building solution. *This report contributes to satisfy NCC FP1.4.*
8. **WarringtonFire test report. Ceiling and Wall lining tested in accordance with AS ISO 9705:2003(R2016) and AS 5637.1:2015 - Job No. 34548900, Revision R3.0 (revision dated 27/03/2019)** This document contains the opinion of the likely performance of a Kingspan Air-Cell lined room and the results of the test report carried out in accordance with AS ISO 9705 – 2003 R2016 and AS5637.1:2015 and concludes that the material can be classified as **Group 2** in accordance with the scheme given in the NCC 2016 Spec C1.10. (NATA accreditation No. 3277). *This report contributes to satisfy NCC C1.10.*
9. **Australian Wool Testing Authority Ltd (AWTA) – Test for Flammability of Materials. Test No. 17-007345 (dated 09/01/2018)** - This report provides the results of testing to AS 1530.2-1993 Part 2, and specifies the product obtained a Flammability Index of 1 . (NATA accreditation no. 1356). *This report contributes to satisfy NCC C1.10.*
10. **Kingspan Thermal Value Summary Report (TVSR) - Thermal Value Summary Report for Kingspan AIR-CELL Insulbreak55/Insuliner/Permicav XV (Insuliner - 5.5mm nominal thickness) – dated 27/03/2020** – *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 Report No. 18-007617, 18-007618, 18-007619, 18-007622, 18-007623, 18-007624, 18-007625, 18-007626 for Kingspan Kooltherm (NATA accreditation No. 1356). These reports provide results of testing to ASTM C518-2017.*
11. **Surface Optics Corporation – Certification of Analysis for Infra-Red emissivity. Job No. 4792MP (dated 11/04/2015).** This report provides the results of emissivity data measured to ASTM E-408 for Insuliner<sup>®</sup> (TB055FG2). *This report contributes to satisfy NCC Section J.*
12. **Australian Wool Testing Authority Ltd (AWTA) – Test for Resistance to Surface Corrosion and Wet Delamination at Elevated Ambient Temperatures (Reflective Insulations). Test No. 16-004624 (dated 28/09/2016).** This report provides the results of testing to AS/NZS 4859.1-2002 and indicates a “PASS” for Wet Delamination and a “PASS” for Surface Corrosion (Insuliner<sup>®</sup>). *This report contributes to satisfy NCC Section J.*