

Certificate number: CM40299

Certification Body:


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 JAS-ANZ Accreditation
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THIS TO CERTIFY THAT

K-Series

Type and/or use of product:

Kooltherm® panel is an external reinforced, insulating wall panel and is mechanically fixed to the outer face of the building.

Description of product:

K-series Kooltherm® panel is a wall panel comprised of a CFC/HCFC - free rigid thermoset phenolic foam core. The panels are completed by the application of an approved polymer render of min 5mm thickness that has reinforced mesh embedded in the first layer, trims, sealants, opening flashings and decorative and waterproof coatings.

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

BCA 2019

| | Volume One | Volume Two |
|---|--|---|
| Performance Requirement(s): | BP1.1 Structural reliability – wind action (a)&(b)(iii) | P2.1.1 Structural stability and resistance – wind action (a)&(b)(iii) |
| | FP1.4 Weatherproofing | P2.2.2 Weatherproofing |
| Deemed-to-Satisfy Provision(s): | G5.2 Construction in bushfire prone areas - Protection – External walls | 3.10.5.0 Bushfire areas – External walls |
| | J1.5(d) Energy Efficiency – Walls – Contributes to the overall thermal performance | 3.12.1.4(b) Energy Efficiency - External walls – as applicable – contributes to the overall thermal performance |
| State or territory variation(s): | G5.2 (NSW) (G5.1 Application of part Qld, NSW) | 3.10.5.0 (NSW, Qld), Part 3.12 (NSW, NT, Qld, Tas, 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:

- This certificate specifically excludes any assessment of the K-Series External Insulation & Finish System (EIFS), Direct to Frame System for any application requiring non-combustible construction or FRL performance e.g. buildings of Type A or Type B Construction, including Class 2, 3 and 9 buildings of 2 storeys or more and Class 4, 5, 6, 7 and 8 buildings of 3 storeys or more.
- Kooltherm 50mm and 80mm panels are deemed compliant to a maximum stud spacing of 600mm, with design serviceability limit state wind pressures of +0.82 kPa and -1.23 kPa, and design ultimate limit state wind pressures of ±2.5 kPa but not more than 3.01 kPa.

Building classification/s:

Class 1,2,3,4,5,6,7,8,9 & 10


John Thorpe - CMI


Don Grehan – Unrestricted Building Certifier

Date of issue: 25/06/2019

Date of expiry: 25/06/2022



Certificate of Conformity

3. K-Series must be installed in accordance with the – K-Series Technical Document, System Installation and Construction Details, direct to Frame System, 27/11/2018.
4. The weatherproofing of the building envelope is dependent on window, door and other penetrations being designed, constructed and installed in accordance with manufacturers recommendations to enable adequate flashing and sealing to the building.
5. K-Series is suitable for use in designated bushfire prone areas that require a BAL-40 or less, when installed in accordance with the K-Series System install manuals and all exposed core material is encapsulated with a non-combustible covering.
6. K-Series System is suitable for Wind Classifications N1, N2, N3, N4 & C1 (and excludes AS 4055-2012 Wind Classifications, N5, N6, C2, C3 & C4). Consult relevant K-Series System install manual for relevant construction requirements.
7. The Thermal R values of the K-Series System will vary with installation configurations refer K-Series System install manuals.
8. The K-Series System is only to be installed by a suitably qualified tradesperson or a builder.
9. In order to maintain compliance with BAL, it is the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959-2018.
10. As per NCC Verification Method V2.2.1, compliance with P2.2.2 for the weatherproofing of an external wall is achieved when the building designer verifies the K-Series System has a risk score of 20 or less, as determined in accordance with Table V2.2.1a; and is not subjected to an Ultimate Limit State wind pressure of more than 2.5kPa; and includes only windows that comply with AS 2047 – 2014 – Windows and external glazed doors in buildings.
11. The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below.

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.

The NCC defines a Performance Solution as one that complies with the Performance Requirements by means other than a Deemed-to-Satisfy Solution. A Building Solution that relies on a CodeMark Certificate of Conformity that certifies a product against the Performance Requirements cannot be considered as Deemed-to-Satisfy Solution.

This Certificate of Conformity may only relate to a part of a Performance Solution. In these circumstances other evidence of suitability is needed to demonstrate that the relevant Performance Requirements have been met. The relevant provisions of the Governing Requirements in Part A of the NCC will also need to be satisfied.

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity. This may result in the product being classified as a non-conforming building product.

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.

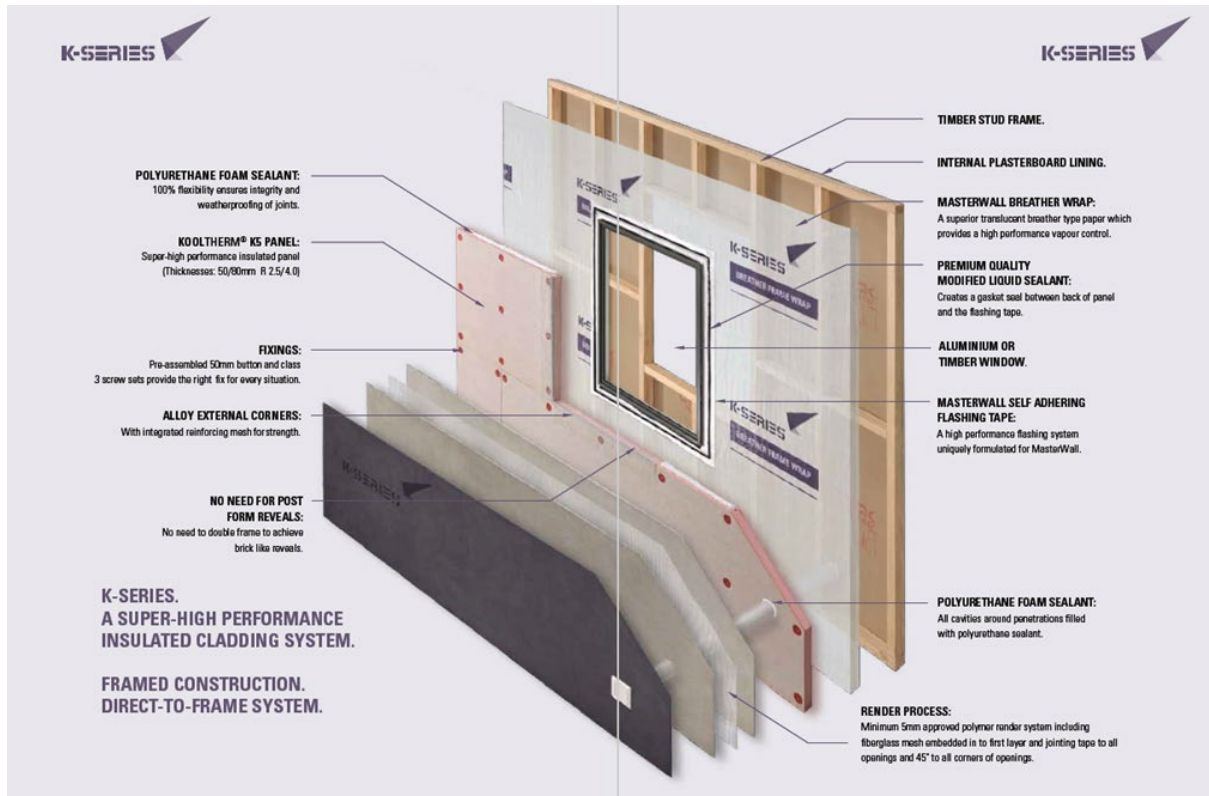
When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CertMark International has relied on the experience and expertise of external bodies (laboratories and technical experts). Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page 1.

A2 Description of product



Source: Certificate Holder



Certificate of Conformity

Sizes & Thicknesses

Standard panel size: 2400mm x 1200mm.
Nominal thickness: 50mm, 80mm.
Area: 2.88m².

A3 Product specification

Fire

Tested in accordance with AS 3959:2018 by an Accredited Testing Laboratory Bushfire resistance test of an external wall system accordance with AS 1530.8.1-2007. K-Series EIFS, classification of BAL: A-40.

Structure

Comparison between the tested performance and the required design performance, the K-Series EIFS, Direct to Frame System has been appraised by a Structural Engineer for external wall applications when constructed in accordance with the K-Series EIFS, Direct to Frame System, Technical Document: System Installation and Construction Details, Direct-To-Frame System, 27.11.2018.

Thermal

Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus on a Kooltherm K10 blank of thickness 80mm. Thermal Resistance 4.2 m²K/W.
Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus on a Kooltherm K10 blank of thickness 50mm. Thermal Resistance 2.5 m²K/W.

Weatherproofing

Water pressure test on a Masterwall panel fixed to a timber frame. Tested in accordance with AS/NZS 4284:2008 to verification methods V2.2.1 and FV1 NCC 2016. The verification methods for weatherproofing have not changed in the BCA 2019.

A4 Manufacturer and manufacturing plant(s)

New Era Nominees
18/113 High Road
Willetton WA 6155.

A5 Installation requirements

K-Series must be installed in accordance with the – [K-Series Technical Document, System Installation and Construction Details, direct to Frame System, 27/11/2018](#).

A6 Other relevant technical data

Compressive Strength - Typically exceeds 140 kPa at 10% compression.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Structural Provision – A5.2(1)(e). Reports from qualified professional engineer.
2. Fire Assessment – A5.2(1)(d). Reports from accredited test laboratories.
3. Weatherproofing – A5.2(1)(d). Reports from accredited test laboratories.

B2 Reports

- a. Ian Bennie & Associates; NATA Accreditation No. 2371; Test Report No. 2018-051-S1; Weatherproof test in accordance with AS/NZS 4284:2008 to verification methods V2.2.1 and FV1 NCC 2016. (The verification methods for weatherproofing have not changed in the BCA 2019); Dated 26/07/2018.
- b. AWTA; NATA Accreditation No. 1356; Test No. 17-005224; Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus in accordance with ASTM C518-2010 (50mm panel); Dated 04/10/2017.
- c. AWTA; NATA Accreditation No. 1356; Test No. 17-006158; Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus in accordance with ASTM C518-2010 (80mm panel); Dated 10/11/2017.
- d. Acronem Consulting Australia Pty Ltd; Report No. ACA-190214; Engineering appraisal supporting structural, weather proofing and bushfire; Dated 11/04/2019.

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.