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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 (Amdt 1)**

|   | Volume One  | Volume Two  |
|---|---|---|
| <b>Performance Requirement(s):</b>      | BP1.1 Structural reliability – wind action (a)&(b)(iii)<br>FP1.4 Weatherproofing – Subject to <i>Limitation and Condition 10</i><br>FP1.5 Rising damp         | P2.1.1 Structural stability and resistance – wind action (a)&(b)(iii)<br>P2.2.2 Weatherproofing – Subject to <i>Limitation and Condition 10</i><br>P2.2.3 Rising damp |
| <b>Deemed-to-Satisfy Provision(s):</b>  | G5.2 Construction in bushfire prone areas - Protection – External walls<br>J1.5(d) Energy Efficiency – Walls – Contributes to the overall thermal performance | 3.10.5.0 Bushfire areas – External walls<br>3.12.1.4(b) Energy Efficiency - External walls – as applicable – contributes to the overall thermal performance           |
| <b>State or territory variation(s):</b> | G5.2 (NSW) (G5.1 Application of part Qld, NSW)  | 3.10.5.0 (NSW, Qld), Part 3.12 (NSW, NT, SA, 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.

**Building classification/s:**

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

  
 Richard Donarski - CMI

  
 Don Grehan – Unrestricted Building Certifier

**Date of issue:** 01/10/2021

**Date of expiry:** 25/06/2022



# Certificate of Conformity

2. 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  $\pm 2.5$  kPa but not more than 3.01 kPa.
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. To satisfy FP1.4 & P2.2.2 via verification, the relevant design is required to meet the criteria of FV1.1 and/or V2.2.1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
  - (a)(i) have a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table FV1.1/V2.2.1a; and
  - (a)(ii) is not subjected to an ultimate limit state wind pressure or more than 2.5kPa; and
  - (a)(iii) include only windows that comply with AS 2047Compliance with Weatherproofing is limited to the tested specimen detailed in A3, deviations from this specimen, is subject to site specific design and approval by the regulatory authority.
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](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.

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.

**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

**Direct-to-Frame System:** K-Series Direct-to-Frame System is an CFC/HCFC - free rigid thermoset phenolic foam core external wall panel, mechanically fixed to the outer face of the building. The system includes the application of a three-layer polymer modified render system of minimum 6.5mm thickness, reinforced with fibreglass mesh embedded into the first layer of render.

#### Masterwall® K-Series® Components:

- K-Series Panel Kooltherm CFC/HCFC - free rigid thermoset phenolic foam core 50mm and 80mm Panels
- An alkaline-resistant 5mm x 5mm fibreglass mesh, minimum 1000mm width, (minimum 145gsm)
- MasterWall Breather Frame Wrap
- Polyurethane Foam
- Wall Screws Galvanised Class 3, 10 Gauge Square Drive External Wall Screws
- Masterwall 48mm red washers
- M-TEX Rendercoat Primer
- M-TEX Pro Render or Macrender HBS (High Bond Strength)
- M-TEX Marble Texture Coating
- Flexible adhesive backed Aluminium Masterwall Flashing Tape

### A3 Product specification

**Structure** Limited to external wall applications where the design ultimate limit state wind pressure, calculated in accordance with AS/NZS 1170.2:2011(R2016) Structural Design Actions Part 2: Wind Actions, does not exceed +8.2 kPa and -1.23 kPa. This is deemed to include AS 4055-2012 wind classifications N1, N2, N3, N4 & C1 and excludes AS 4055-2012 wind classifications, N5, N6, C2, C3 & C4.

| <b>Fire Hazard Properties</b>                     |    |            |  |
|---|----|------------|--|
| AS/NZS 1530.3-1999 Indices of Kooltherm K5 panel. |    |            |  |
| Ignitability Index                                | 13 | Range 0-20 |  |
| Spread of Flame Index                             | 0  | Range 0-10 |  |
| Heat Evolved Index                                | 2  | Range 0-10 |  |
| Smoke Index                                       | 4  | Range 0-10 |  |

**Source:** Exova Warringtonfire; Testing conducted by AWTA, NATA Accreditation No. 1356; Report No. EWFA 25128-00b.1 dated 17/01/2011.

**Bushfire** Testing and assessments have been completed in accordance with AS 1530.8.1:2007, completed by Exova Warringtonfire, confirming **BAL – 40** compliance.

**Source:** Exova Warringtonfire; NATA Accreditation No. 3277; Report No. EWFA 2598500.3 dated 08/01/2019.

**Energy Efficiency** Determined in accordance with AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018 as follows:

| Panel Thickness | Material R-Value | Total R-value Timber Framing |        | Total R-value Steel Framing |        |
|-----------------|------------------|------------------------------|--------|-----------------------------|--------|
|                 |                  | Winter                       | Summer | Winter                      | Summer |
| 50mm            | 2.4              | 2.9                          | 2.7    | 2.8                         | 2.7    |
| 80mm            | 3.9              | 4.4                          | 4.1    | 4.2                         | 4.1    |

**Note:** The complete system R Rating including X-Series panel, breather wrap, stud frame cavity and 10mm plasterboard.

**Weatherproofing** Weatherproofing testing conducted to AS/NZS 4284:2008 with performance is limited to SLS wind pressures of +0.82kPa and -1.23kPa and wind classifications N1, N2, N3, N4 & C1.

*Source: Ian Bennie and Associates Test Report No. 2018-051-S1 dated 26/07/2018.*

#### A4 Manufacturer and manufacturing plant(s)

This field is voluntary. Contact Certificate Holder for details.

#### A5 Installation requirements

K-Series must be installed in accordance with the [K-Series System Installation and Construction Details – Direct to Frame System, 8.6.2021](#)

#### A6 Other relevant technical data

No other relevant technical data.

### 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

1. Ian Bennie & Associates; NATA Accreditation No. 2371; Test Report No. 2018-051-S1; Test in accordance with AS/NZS 4284:2008 to verification methods V2.2.1 and FV1 NCC 2016; Dated 26/07/2018.
2. 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.
3. 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.
4. Acronem Consulting Australia Pty Ltd; Report No. ACA-190214; Engineering appraisal supporting structural, weather proofing and bushfire; Dated 23/07/2021.

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