# Certificate of Conformity

**Certification Body:**

CMI CERTIFICATION
ABN: 81 663 250 815
JAS-ANZ Accreditation
No. Z4450210AK
PO Box 273,
Palmwoods Qld 4555
Australia
P: +61 7 5445 2199
www.cmicert.com.au
office@cmicert.com.au

**Certificate Holder:**

Bestari Cladding Pty Ltd
ABN: 66 678 209 482
99-103 Rickett Road
Mount Waverley VIC 3149
Ph: 0450587866
www.bestari.com.au

**Certificate number: CM40416**

THIS IS TO CERTIFY THAT

## DX External Wall Cladding System

**Type and/or use of product:**

External Wall AAC Cladding System.

**Description of product:**

External Wall Cladding utilising non-load bearing steel reinforced Autoclaved Aerated Concrete (AAC) either 50mm or 75mm DX Panels and comprising several proprietary components. Refer A2 below.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) **BCA 2022 (Amdt. 1)**

| | Volume One | | Volume Two | |
|---|---|---|---|---|
| **Performance Requirement(s):** | B1P1(1), (2)(a), (b), (c) & (d) | Structural reliability – Subject to *limitation and condition 1 & 2.* | H1P1(1), (2)(a), (b), (c) & (d) | Structural reliability and resistance – Subject to *limitation and condition 1 & 2.* |
| | F3P1 | Weatherproofing – Subject to *limitation and condition 5.* | H2P2 | Weatherproofing– Subject to *limitation and condition 5.* |
| **Deemed-to-Satisfy Provision(s):** | C2D2(2) | Fire resistance and stability – (FRL -/120/120) Subject to *limitation and condition 2 & 3.* | H3D3 | Fire separation of external walls – (FRL -/120/120) Subject to *limitation and condition 2 & 3.* |
| | G5D3 | Construction in bushfire prone areas – BAL–FZ subject to *limitation and condition 11 & 12.* | H7D4(2)(a) | Construction in bushfire prone areas – BAL–FZ subject to *limitation and condition 11 & 12.* |
| | J4D6 | Energy efficiency – Must be used in conjunction with other building elements to achieve the required Total R-Value. Refer A3 for values of the DX Panel. | H6D2(1) | Energy efficiency – Must be used in conjunction with other building elements to achieve the required Total R-Value. Refer A3 for values of the DX Panel. |
| **State or territory variation(s):** | G5D3 (NSW) | | H7D4 (NSW, QLD & SA), Part H6 (NSW, NT & TAS) | |

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 DX External Wall Cladding System must be installed in accordance 50mm and 75mm DX External Wall Cladding System Design and Installation Guide, 3rd Edition, July 2025.
2. The structural support members are designed and engineered separately as per project requirements and to the required Fire Resistance Level (FRL) of the wall by building designers and engineers. The structural certification is limited to the cladding only and does not include the sub-structure. The DX External

**Building classification/s:**

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

**Glen Gugliotti – CMI**

**Don Grehan – Unrestricted Building Certifier**

**Date of issue:** 20/08/2025

**Date of expiry:** 20/08/2028

Wall Cladding System must be fixed to a structurally adequate external wall frame in accordance with the fixing requirements defined in the 50mm and 75mm DX External Wall Cladding System Design and Installation Guide, 3rd Edition, July 2025. The DX External Wall Cladding System must incorporate either a timber frame constructed in accordance with AS 1684 series; or a cold-formed steel frame constructed in accordance with NASH Standard for Residential and Low-rise Steel Framing, Part 1:Design Criteria, or AS 3623-1993 (R2018) Domestic Metal Framing; or Framework compliant with other standards as applicable.

3. To comply with the FRL, the DX External Wall Cladding System must be constructed in strict accordance with the 50mm and 75mm DX External Wall Cladding System Design and Installation Guide, 3rd Edition, July 2025. Any deviation from this does not form part of this Certificate of Conformity.
4. Construction methods for external walls required to be fire resisting in relation to Class 1 and 10 buildings and structures must comply with Part 9.2.3 of the ABCB Housing Provisions.
5. To satisfy compliance with F3P1 or H2P2, via verification, (limited to N5 and C3) the relevant design is required to meet the criteria of F3V1 and/or H2V1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
   (i) have a risk score of 20 or less, when the sum of all risk factor scores is determined in accordance with Table F3V1a/H2V1a; and
   (ii) not be subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
   (iii) include only windows that comply with AS 2047.

   Compliance with Weatherproofing is limited to the tested specimen, deviations from this specimen, is subject to site specific design and approval by the regulatory authority.
6. The DX External Wall Cladding System has not been tested and certified for impact loading from windborne debris in Region C and D as denoted in AS/NZS 1170.2:2011 (R2016). The building designer should take into consideration internal pressure resulting from dominant openings.
7. In all installations the minimum clearance between the underside of panel and the adjoining surface level below must comply with the specification in Part 7.5.7 of the ABCB Housing Provisions.
8. For Class 2 to Class 9 buildings, the DX External Wall Cladding System is suitable for only Type C Fire-Resisting Construction when fixed to timber stud framing.
9. For Type A & B construction, the use of the DX External Wall Cladding System must be supported by a site-specific Performance Solution where the BCA requires building elements and/or ancillary elements to be non-combustible. Acceptance or otherwise of the site-specific Performance Solution is at the discretion of the appropriate Authority subject to the regulatory framework of the relevant State or Territory.
10. Compliance with FRL is dependent on the DX External Wall Cladding System being constructed in strict accordance with the 50mm and 75mm DX External Wall Cladding System Design and Installation Guide, 3rd Edition, July 2025. Any deviation from this does not form part of this Certificate of Conformity.
11. The DX External Wall Cladding System is suitable for use on buildings located in a designated Bushfire Prone Area subject to a Bushfire Attack Level (BAL) up to and including BAL–FZ. Compliance with BAL–FZ is limited to the tested system that achieve a minimum of FRL of -/30/30. It is the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959-2018. Construction must be in strict accordance with the 50mm and 75mm DX External Wall Cladding System Design and Installation Guide, 3rd Edition, July 2025.
12. In NSW, the DX External Wall Cladding System is suitable for use on buildings located in a designated Bushfire-Prone Area:
    a. For a Class 1 building, a Class 2 building, a Class 3 building, a Class 4 part of a building, or a Class 10a building when constructed in accordance with AS 3959:2018 except as amended by Planning for Bush Fire Protection for BAL–40.
    b. For a Class 9 building, that is a special fire protection purpose located in an area subject to a Bushfire Attack Level (BAL) not exceeding BAL–12.5 determined in accordance with AS 3959:2018.
13. 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.

Only criteria as identified within this Certificate of Conformity can be used for CodeMark certification claims. Where other claims are made in a client's Installation Manual, Website or other documents that are outside the criteria on this Certificate of Conformity, such criteria cannot be used or claimed to meet the requirements of this CodeMark certification.

# Certificate of Conformity

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, CMI Certification Pty Ltd (CMI) 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**

DX External Wall Cladding System consists of 50mm or 75mm thick AAC panels orientated vertically, screwed to either steel or timber wall framing through horizontal light-gauge steel top-hat battens & breathable wall wrap

| | |
|---|---|
| **Panel:** | **50mm DX Panel** |
| **Thickness:** | 50mm |
| **Width:** | 600mm |
| **Lengths:** | 2400, 2700, 2850, 3000 and 3300mm |
| **Reinforcement:** | Single layer steel mesh, centrally located |
| **Steel bars:** | 4 x Ø 5.0mm longitudinal bars and 7 x Ø 4.55mm transverse bars. |

| | |
|---|---|
| **Panel:** | **75mm DX Panel** |
| **Thickness:** | 75mm |
| **Width:** | 600mm |
| **Lengths:** | 2400, 2700, 2850, 3000 and 3300mm |
| **Reinforcement:** | Single layer steel mesh, centrally located |
| **Steel bars:** | 6 x Ø 5.0 mm longitudinal bars and 7 x Ø 4.55mm transverse bars. |

**System Components**

| | |
|---|---|
| **Adhesive** | Bestari Cladding DX Panel Adhesive – Applied as a structural thin adhesive layer for adhering panels at joints in the construction of walls. |
| **Anti-corrosion paint** | Generic To be specific for AAC Panels. To be approved by Bestari Cladding. – For coating and protection of exposed steel reinforcement mesh from moisture ingress and corrosion after cutting of the panel |
| **Sealant** | HB Fuller HBFS600 FireSound Fire Rated Joint Sealant 600ml Sausage (Grey or other) – FireSound sealant is used to seal joints and penetrations where fire resistance is required, or where an acoustic rated sealant is required. |
| **Damp Proof Course (DPC) & Flashing** | **Generic:** Damp-proof courses should comply with the BCA, including AS 2904-1995 Damp-proof course and flashings. – DPC serves to prevent moisture from concrete footings, slabs, or pathways from dampening the base of the panels. |
| **Building Wrap** | **Generic:** To be compliant with the requirements of the NCC. Reflective Wall Wrap with ≥0.05 emittance – A breathable wall wrap is mandatory per the NCC. The wall wrap should be placed between the top hats/battens and steel/timber stud support framing. For optimal performance, joints must be lapped and taped |
| **Acrylic Coating (Various Colours)** | Generic Must be able to bridge a 1mm crack width. In conjunction with Project Specifications. To be approved and guaranteed by the coating manufacturer and approved by Bestari Cladding engineer. – Applied to the external face of the DX Panel for weather resistance. |
| **Mortar Bed** | Boral® Blue Circle® Brickies Mortar Mix 20kg Or Australian Builders™ Mortar Mix 20kg<br>The thin-bed mortar is used during the placement of panels where levelling and bonding is required to |
| **Perforated Top Hats** | Metal Tiger Screws and Accessories Pty Ltd<br>24mm D x 35mm W x 0.5mm BMT Grade 550MPa Coating class AZ150<br>35mm D x 35mm W x0.75mm BMT Grade 270MPa Coating class Z275<br>Suitable for all building classes covered by the NCC Vol. 1 & 2 |
| **Timber Battens** | **Generic:** 70x35mm MGP10 H3 Suitable for Class 1 and Class 10 buildings. May not be suitable for buildings covered by NCC Vol. 1. Seek professional advice |
| **Fixings** | Metal Tiger Screws and Accessories Pty Ltd – 12-14 x 25mm Hex Head Screw (Self Drilling) Connect the Top Hats to steel frame |
| | Metal Tiger Screws and Accessories Pty Ltd – 12-11x35mm Hex Head Screw (Type 17) Connect the Top Hats to timber frame. |
| | **Generic:** 3.05mm x 75mm Galvanised framing nails Connect the 35mm timber battens to timber frame. |
| | Metal Tiger Screws and Accessories Pty Ltd – 14-10x 65mm Hex Head Screw (Type 17) Connect the 50mm DX Panel to steel top hats or timber battens |
| | Metal Tiger Screws and Accessories Pty Ltd – 14-10x 90mm Hex Head Screw (Type 17) Connect the 75mm DX Panel to steel top hats or timber battens |

## A3 Product specification

**Structural Performance**

When installed according to the guidelines in the 50mm and 75mm DX External Wall Cladding System Design and Installation Guide, 3rd Edition, July 2025, the DX Panel is engineered to perform in wind zones up to and including N5, C3. The DX External Wall Cladding System has been evaluated as suitable for buildings exposed to design wind speeds as specified in AS 4055. The design wind pressures for external walls of buildings are site-specific, and are dependent on many factors. The Wind Classification of a building in accordance with AS/NZS 1170.2 or AS 4055 must be provided by the design professional responsible for the building.

The table below outlines the necessary batten spacing and number of panel fastener for the wind zones/ratings with respect to either corner or typical zones of the wall, as specified in the BCA:

| Wind Zone/Rating | Stud Spacing (MGP10), mm | Max Spacing of battens/top hats | | Number of Screws per panel at each batten/top hat | | | |
|---|---|---|---|---|---|---|---|
| | | | | Corner Zones | | Typical Zones | |
| | | Corner Zone | Typical Zones | Panel Ends | Mid-Panel | Panel Ends | Mid-Panel |
| N2, N3, C1 | 450/600 mm | 600mm | 600mm | 3 | 4 | 2 | 3 |
| N4, C2 | 450mm | 600mm | 600mm | 3 | 4 | 2 | 4 |
| N5, C3 | 450mm | 450mm | 450mm | 4 | 4 | 2 | 4 |

The DX External Wall Cladding system is suitable to support a ULS wind load of 2.5kPa as it meets the requirements of the NCC 2022 F3V1 and H2V1.

**Fire Safety Performance**

The DX External Wall Cladding System achieves a Fire Resistance Level (FRL) of **–/120/120**. The DX External Wall Cladding System must be constructed in accordance with the 50mm and 75mm DX External Wall Cladding System Design and Installation Guide, 3rd Edition, July 2025 and must be attached to either timber or steel framing compliant to the relevant framing codes and designed to the required Fire Resistance Level for that wall.

The DX External Wall Cladding System can be used in bushfire prone areas up to and including BAL–FZ. Compliance with BAL is limited to the tested system that achieve a minimum of FRL of -/30/30. It is the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959-2018. Refer *limitation and condition 11 & 12.*

***Source:*** *KAS Quality Service Reports No. J241115001-1 and J241115001-2, AS 1530.4:2014 – Fire Resistance Test for Non-Loadbearing Framed Wall System, dated 25/12/2024.*

**Weatherproofing Performance**

The DX External Wall Cladding System passed the NCC-2022 Weatherproofing Verification Methods F3V1 & H2V1 for a cavity wall at the nominated Serviceability limit state pressures of **+830 / -1230 Pa.**

***Source:*** *Ian Bennie & Associates report No. 2024-043-S2, Testing of Building Facades to the requirements of NCC 2022 Verification Methods F3V1 & H2V1, dated 06/05/2025.*

**Thermal Performance**

The 50mm DX Panel boasts an energy efficiency of R-Value 0.455m².K/W, while the 75mm DX Panel offers an R-Value of 0.682m².K/W. When combined with other building elements, these panels can achieve a total R-Value that satisfies NCC requirements. The details are outlined in the Table below

| Thermal Thickness | Thermal Conductivity (k) | Thermal Resistance (R-Value) |
|---|---|---|
| **50mm** | 0.11 W/mK | 0.455 m2.K/W |
| **75mm** | 0.11 W/mK | 0.682 m2.K/W |

It is important to emphasize that responsibility to ensure the insulation material chosen and installed for the DX External Wall Cladding System complies with AS/NZS4859.1 or AS2464.3 for loose fill insulation, falls under the purview of designer and building construction professionals (incl. Thermal Performance Assessors).

The tables below present summaries of calculations for different DX Wall system configurations, along with their corresponding Total System R-Values

| DX Panel Thickness (mm) | Batten Depth (mm) | Wall Wrap | Structural Frame | | Bulk Insulation (R-Value) | Internal Linning | Total R Values, m2K/W (Thermally bridged) |
|---|---|---|---|---|---|---|---|
| | | | Material | Stud Size | | | |
| 50 (R0.45) | 24 | Reflective Wall Wrap with ≥0.05 emittance | Timber | 70 x 35 | R2.0 | 10mm Gyprock plasterboard (R0.06) | 2.95 |
| | | | | 90 x 45 | R2.0 | | 2.99 |
| | | | | | R2.5 | | 3.41 |
| | | | | | R2.7 | | 3.60 |
| 75 (R0.68) | | | | 70 x 35 | R2.0 | | 3.17 |
| | | | | 90 x 45 | R2.0 | | 3.22 |
| | | | | | R2.5 | | 3.64 |
| | | | | | R2.7 | | 3.83 |
| 50 (R0.45) | 24/35 | Reflective Wall Wrap with ≥0.05 emittance | Steel | 76 x 35 x 0.55 BMT | R2.0 | 10mm Gyprock plasterboard (R0.06) | 2.45 |
| | | | | 92 x 45 x 0.55 BMT | R2.0 | | 2.54 |
| | | | | | R2.5 | | 2.83 |
| | | | | | R2.7 | | 2.95 |
| 75 (R0.68) | | | | 76 x 35 x 0.55 BMT | R2.0 | | 2.68 |
| | | | | 92 x 45 x 0.55 BMT | R2.0 | | 2.78 |
| | | | | | R2.5 | | 3.05 |
| | | | | | R2.7 | | 3.17 |

***Source:*** *Salman Maktab Pty Ltd report reference 3721-ENR-REP-2 – Energy Performance Assessment dated 25/06/2025.*

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

This field is optional. Contact the Certificate Holder for details.

**A5 Installation requirements**

The DX External Wall Cladding System must be installed in accordance 50mm and 75mm DX External Wall Cladding System Design and Installation Guide, 3rd Edition, July 2025.

**A6 Other relevant technical data**

No other relevant technical data.

## APPENDIX B – EVALUATION STATEMENTS

**B1 Evaluation methods**

1. Energy Efficiency Provisions A5G3(1)(e). A report from a professional engineer or other appropriately qualified person.
2. Fire Safety Provisions A5G3(1)(d). Reports from Accredited Testing Laboratories.
3. Structural Resistance Provisions A5G3(1)(e)&(e). A reports from Accredited Testing Laboratories and a professional engineer.
4. Weatherproofing Provisions A5G3(1)(d). Reports from Accredited Testing Laboratories.

**B2 Reports**

1. Salman Maktab Pty Ltd; Report Reference 3721-STR-AIRP-5; Structural Engineering Adequacy & Integrity Report; 50mm & 75mm DX External Wall Cladding System - Structural Assessment; Dated 25/07/2025. Report provides evidence for compliance with B1P1(1), (2)(a), (b), (c) & (d) and H1P1(1), (2)(a), (b), (c) & (d).
2. Salman Maktab Pty Ltd; Report Reference 3721-ENR-REP-2; Energy Performance Assessment; DX External Wall Cladding System with 50mm and 75mm DX Panel; Dated 25/06/2025. Report provides evidence for compliance with H6D2(1) and J4D6.
3. KAS Quality Service (Guangzhou) Co., Ltd; IAS Accreditation No. TL-827; Report No. J241115001-1; AS 1530.4:2014 – Fire Resistance Test for Non-Loadbearing Steel Framed Wall System; Dated 25/12/2024. Report provides evidence for compliance with C2D2(2), H3D3, G5D3 and H7D4(2)(a).
4. KAS Quality Service (Guangzhou) Co., Ltd; IAS Accreditation No. TL-827; Report No. J241115001-2; AS 1530.4:2014 – Fire Resistance Test for Non-Loadbearing Timber Framed Wall System; Dated 25/12/2024. Report provides evidence for compliance with C2D2(2), H3D3, G5D3 and H7D4(2)(a).
5. Ian Bennie & Associates Pty Ltd; Report No. 2024-043-S2; Testing of Building Facades to the requirements of NCC 2022 Verification Methods F3V1 & H2V1; Dated 06/05/2025. Report provides evidence for compliance with F3P1 and H2P2 .
6. Melbourne Testing Services Pty Ltd NATA Accreditation No. 1047; Testing of Autoclaved Aerated Concrete (AAC) And Reinforcement Material From Dx Panels; Dated20/01/2025. Report provides evidence for compliance with B1P1(1), (2)(a), (b), (c) & (d) and H1P1(1), (2)(a), (b), (c) & (d).
7. Sharp & Howells Pty Ltd; NATA Accreditation No. 61; Testing of AAC Panels as per AS 5146.2 Appendix L; Dated 16/06/2025. Report provides evidence for compliance with B1P1(1), (2)(a), (b), (c) & (d) and H1P1(1), (2)(a), (b), (c) & (d).

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