Certificate of Conformity

Certification Body:

CMI CERTIFICATION
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Certificate Holder:

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Compliant Building Materials
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Certificate number: CM40423

THIS IS TO CERTIFY THAT

Stonewood® Lightweight Cladding

Type and/or use of product:

External wall cladding

Description of product:

Stonewood® Lightweight Cladding is a cement-based panel that is designed for external wall cladding applications. The Stonewood® Lightweight Cladding can be installed horizontally, vertically or with express joints with other components, refer A2.

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

	Volume One		Volume Two	
Performance Requirement(s):	B1P1(2)(a)&(c)	Structural reliability – Permanent and wind actions	H1P1(2)(a)&(c)	Structural stability and resistance – Permanent and wind actions
	F3P1	Weatherproofing - External walls subject to *Limitation and Condition No. 2*.	H2P2	Weatherproofing - External walls subject to *Limitation and Condition No. 2*.
			H2P3	Rising Damp – Subject to *limitation and condition 5*
Deemed-to-Satisfy Provision(s):	C2D10	Non-combustible building elements – Limited to the cladding panel only.	H1D7(4)(b)	Roof and wall cladding – Wall cladding
	J4D6	Energy Efficiency – Must be used in conjunction with other building elements for the Total R-Value	H3D2	Fire hazard properties and non-combustible building elements – Limited to the cladding panel only.
			H6D2	Energy Efficiency – Must be used in conjunction with other building elements for the Total R-Value
State or territory variation(s):	J4D6 (NSW)		H2P3 (NSW & SA), H6D2 (Vic)	

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. Construction shall be in strict accordance with the Stonewood Lightweight Cladding Installation Guide Version 1.0, relevant BCA requirements, and any specific requirements of the local building authority. Load bearing walls will be designed to meet all relevant standards and regulations for applied loads and wind pressures for AS 4055 Wind Classifications N1, N2, N3 and N4

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: 07/11/2024

Date of expiry: 07/11/2027

2. To satisfy F3P1 & H2P2 via verification requires the site specific evaluation of the relevant design against F3V1 and/or H2V1 to the satisfaction of the Appropriate Authority as defined by the NCC:
    a. has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table F3V1a/H2V1a; and
    b. is not subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
    c. includes only windows that comply with AS 2047.
3. B1P1(2)(c) and H1P1(2)(c) Wind Actions are limited to N1, N2, N3 and N4 only and excludes resistance to impact loading from windborne debris.
4. The structural certification is limited to the cladding only and does not include the sub-structure. The structural support members are designed and engineered separately as per project requirements by building designers and engineers. Stonewood Lightweight Cladding must incorporate either;
    a. A timber frame constructed in accordance with AS 1720.1-2010, from minimum MGP10 with minimum 70mm (depth) x 35mm (width); or
    b. A cold-formed steel frame constructed in accordance with AS/NZS 4600:2018, minimum 70mm depth; or
    c. Framework compliant with the above minimum requirements and other standards, and the Building Code of Australia as applicable.
5. Compliance with H2P3 requires that all installations must have the minimum clearance between the underside of panel and the adjoining surface level below in accordance with the specifications in Part 7.5.7 of the ABCB Housing Provisions as construction details in Stonewood Lightweight Cladding Installation Guide Version 1.0.
6. Stonewood® Lightweight Cladding complies with H1D7(4)(b) as cladding that satisfies the following sections of Part 7.5 of the ABCB Housing Provisions:
    a. 7.5.3(a) for wall cladding boards.
7. No assessment has been undertaken on the product for Part F8 of Vol 1 or Part 10.8 of the ABCB Housing Provisions for Condensation management. A pliable building membrane complying with AS 4200.1:2017 must be installed in accordance with AS 4200.2:2017 to separate the wall cladding panels from any water sensitive materials.
8. 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.

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

Stonewood® Lightweight Cladding can be installed horizontally, vertically or with express joints on either a cavity wall or direct fixed. All external Stonewood® Lightweight Cladding products are either pre-primed or prefinished. All pre-primed products are still to be finished as per the coatings section of the Install manual.

Stonewood Panels

Description	Length	Width	Thickness	Weight per m2
Stonewood® Deco 8mm 75	2400 / 2700 / 3000	1220	8	9.9
Stonewood® Smooth Square	2400 / 2700 / 3000	1220	10	13
Stonewood® 1200 Smooth	2400 / 2700 / 3000	1200	10	13
Stonewood® 75	2400 / 2700 / 3000	1200	11	13
Stonewood® 75 Wood	2400 / 2700 / 3000	1200	11	13
Stonewood® 115	2400 / 2700 / 3000	1220	11	13
Stonewood® 115 Wood	2400 / 2700 / 3000	1220	11	13
Stonewood® 140	2400 / 2700 / 3000	1220	11	13
Stonewood® 140 Wood	2400 / 2700 / 3000	1220	11	13
Stonewood® 300	2400 / 2700 / 3000	1220	11	13
Stonewood® 300 Wood	2400 / 2700 / 3000	1220	11	13
Stonewood® 400	2400 / 2700 / 3000	1220	11	13
Stonewood® 400 Wood	2400 / 2700 / 3000	1220	11	13
Stonewood® Fluid	2400 / 2700 / 3000	1220	11	13
Stonewood® Fluid Wood	2400 / 2700 / 3000	1220	11	13
Stonewood® 200 Lap	2700/3000	200	14	17
Stonewood® 300 Lap	2700/3000	300	14	17
Stonewood® 600 Graphite	616	1226	14	17
Stonewood® 1200 Graphite	1226	1226	14	17
Stonewood® 1800 Graphite	1830	616	14	17
Stonewood® Coloured	1800 / 2400 /2700 / 3000	600 / 900 /1220	10/12	17

System Components/Accessories

- Base/Floor Trim Flashing - Suit 11mm panel
- Stonewood ® 1 Piece Corner – External
- Stonewood ® 2 Piece Corner - Internal / External
- Stonewood ® Corner Flashing - 50x50mm
- Stonewood ® Express Flashing - 10mm
- Joint Sealant - Polyurethane
- 8gx30mm Galv CSK self drilling
- 8gx40mm Galv CSK timber screw
- 14gx38mm SS Nail - Straight
- 2.5x50mm SS ring shank coil nails
- Backing Tape 48mm
- Wall wrap - VapourTech VHP Climate 2-8

A3 Product specification

Structure

Stonewood® Lightweight Cladding has been tested in accordance with the testing methods of AS 4040.2:1992. The below table indicates the SLS and ULS pressures designated for each configuration. Therefore, the Stonewood® Lightweight Cladding is considered to be compliant with B1P1(2)(c) provided that the design pressure does not exceed the values state.

Table 6 SLS and ULS Test Pressures (Factored)

Test Report	Serviceability Limit State (kPa)	Ultimate Limit State (kPa)
Test Report No.2023-079-S1	+1/-1.20	+1.36/-1.88
Test Report No.2023-079-S2	+1.27/-1.29	+1.80/-2.73

Source: *DDEG 209662-S Product evaluation dated 09/08/2024*

Weatherproofing

Cavity Wall Application

Stonewood® Lightweight Cladding – Cavity wall test specimen passed the nominated compliance requirements of the NCC-2022 Weatherproofing Verification Methods F3V1 & H2V1 at the nominated Serviceability limit state pressures of **+550 Pa / -830 Pa**.

Source: *Ian Bennie & Associates Pty. Ltd, Report No. 2023-048-S1 issued 09/04/2024*

Direct fixed Application

Stonewood® Lightweight Cladding – wall test specimen passed the nominated compliance requirement of the NCC 2022 Weatherproofing Verification Methods F3V1 & H2V1 when tested as a direct fix cladding wall at the nominated Serviceability limit state pressures of **+550 Pa / -830 Pa**.

Source: *Ian Bennie & Associates Pty. Ltd, Report No. 2023-048-S2 issued 04/07/2024*

Non-Combustibility

Stonewood® Lightweight Cladding have been tested in accordance with AS 1530.1:1994 *Combustibility test for materials* and are **NOT deemed COMBUSTIBLE** according to the test criteria specified in Clause 3.4 of AS 1530.1-1994.

Source: *IGNIS LABS PTY LTD, Report No. IGNL-8266-01-01C I01 R00 issued 06/08/2024*

Thermal Calculations

The Declared Thermal Conductivity and Thermal Resistance calculated in accordance with AS/NZS 4859.1-2018, Clause 2.3.3.5 where the Total thermal R rating of the 11mm Stonewood® Lightweight Cladding = R0.06m 2 K/ W**.**

Possible wall configurations

	External Stonewood cladding panel thickness (mm)	Cavity width (mm)	Wall Wrap	Stud size (mm)	Frame type	Stud spacing (mm)	Added material insulation R-value between studs (m^2.K/W)	Internal plasterboard wall lining thickness (mm)	Total Wall System R-value (m^2.K/W)
A	11	20	Vapourtech VHP[†]	70x 35	Timber	600	R2.0	10	**1.77**
B	11	20	Vapourtech VHP[†]	70x 45	Timber	600	R2.0	10	**1.68**
C	11	20	Vapourtech VHP[†]	70x 35	Steel*	600	R2.0	10	**0.86, (1.45)**
D	11	20	Vapourtech VHP[†]	70x 45	Steel*	600	R2.0	10	**0.87, (1.38)**
E	11	20	Vapourtech VHP[†]	90x 35	Timber	600	R2.5	10	**2.18**
F	11	20	Vapourtech VHP[†]	90x 45	Timber	600	R2.5	10	**2.08**
G	11	20	Vapourtech VHP[†]	90x 35	Steel*	600	R2.5	10	**1.05, (1.68)**
H	11	20	Vapourtech VHP[†]	90x 45	Steel*	600	R2.5	10	**1.06, (1.59)**

*Steel stud C sections are assumed to have a base metal thickness (BMT) of 0.55mm. Where the R-value in brackets is used, it assumes that a thermal break material of minimum R-value R0.2 is installed along the outside of and parallel to the direction of steel studs.

[†] The wall wrap product is Ametalin Vapourtech Brane VHP, which has no reflective foil face and no intrinsic material R-value

Source: DDEG Report 209662-E dated 16/09/2024 and AWTA Test Report No. 24-0015553 issued 10/07/2024

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

Stonewood® Lightweight Cladding can be installed onto timber or steel framing in accordance with the design consideration section of the Stonewood Lightweight Cladding Installation Guide Version 1.0.
Stonewood® Lightweight Cladding must incorporate either;

- A timber frame constructed in accordance with AS 1720.1-2010, from minimum MGP10 with minimum 70mm (depth) x 35mm (width); or
- A cold-formed steel frame constructed in accordance with AS/NZS 4600:2018, minimum 70mm depth; or
- Framework compliant with the above minimum requirements and other standards, and the Building Code of Australia as applicable.

Construction shall be in strict accordance with the Stonewood Lightweight Cladding Installation Guide Version 1.0, relevant BCA requirements, and any specific requirements of the local building authority. Load bearing walls will be designed to meet all relevant standards and regulations for applied loads and wind pressures for AS 4055 Wind Classifications N1, N2, N3 and N4.

Fixing of the Stonewood® Lightweight Cladding must be in accordance with the relevant Fixing Tables in the Stonewood Lightweight Cladding Installation Guide Version 1.0 for either direct fixed or on a cavity wall.

Fasteners	All fixings are to be a minimum of Class 3 coated fixings. All fixings are to be flush driven, or at a maximum of 1.5mm deep, determined by the client depending on the final finish the client is after. If filling the nails or screws holes, use a suitable Megapoxy P1 or external cement based compatible filler. Refer to coastal areas for high risk or coastal zones.
Flashings	All flashings are to be non-corrosive and must be installed to all relevant openings, junctions or other areas prior to cladding installation.
Coastal Areas	In coastal or other high risk areas, all fixings must be stainless steel. When used in areas within 1km of a coastal areas or subject to high salt spray or in a corrosivity zone as per AS4312, additional panel coatings, protection or maintenance may be required, please refer to coating manufacturer for further details and suitability for coastal area coatings. All fixings should be coated immediately to avoid build-up of contaminants or damage of fixings.

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Energy Efficiency Provisions A5G3(1)(d)&(e). A report issued by an Accredited Testing Laboratory & a report from a professional engineer.
2. Fire Safety Provisions A5G3(1)(d). A report issued by an Accredited Testing Laboratory.
3. Structural Resistance Provisions A5G3(1)(e). A report from a professional engineer.
4. Weatherproofing and Damp Rising Provisions A5G3(1)(d)&(e). A report issued by an Accredited Testing Laboratory & a report from a professional.

B2 Reports

1. DDEG (Solutions); Report No. 209662-S; Building Solutions – Product Evaluation – Stonewood®; Dated 09/08/2024. Report provides evaluation of supporting documentation to confirm compliance with B1P1(2)(a)&(c), H1P1(2)(a)&(c), H2P2, F3P1, H2P3 and H1D7(4)(b).
2. DDEG (Solutions); Report No. 209662-E; ESD – Section J External Wall Insulation Report – Stonewood®; Dated 16/09/2024. Report provides determination of energy efficiency of Stonewood® when used with other building elements to achieve Total R-values required by J4D6 and H6D2.
3. AWTA Ltd; NATA Accreditation No. 983, 985 and 1356; Test Report No. 24-0015553; ASTM C518-2021 Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus; Dated 10/07/2024. Report provides thermal performance of Stonewood for use in DDEG (Solutions) evaluation for determining compliance with J4D6 and H6D2.
4. Ignis Labs Pty Ltd; NATA Accreditation No. 20534; Certificate No. IGNL-8226-01-01C I01 R00; Material Fire Test Certificate - AS 1530.1:1994 Combustibility test for materials; Dated 06/08/2024. Report confirms Stonewood® in deemed not deemed to be combustible complying with C2D10 and H3D2.
5. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report No. 2023-048-S1; Specimen tests by the methods of AS/NZS:4284 To the requirements of NCC 2022 verification methods F3V1 & H2V2 for Direct Fix cladding walls; Dated 04/07/2024. Report confirms compliance with F3P1 andH2P2.
6. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report No. 2023-048-S2; Performance tests by the methods of AS/NZS4284:2008 To the requirements of NCC 2022 verification methods F3V1 & H2V1 For CBMA Stonewood Weatherboard – Cavity wall; Dated 09/07/2024. Report confirms compliance with F3P1 andH2P2.

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