

Certificate number: CM40316 Rev1

Certification Body:


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Certificate Holder:

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THIS IS TO CERTIFY THAT

GreenClad™ (EIFS) Insulated Façade System

Type and/or use of product:

The GreenClad™ Insulated Façade System is a reinforced lightweight insulated cladding system for use on exterior walls for use in certain residential and non-habitable buildings and structures.

Description of product:

The GreenClad™ Insulated Façade System consists of a 50mm, 75mm or 100mm M-Grade Expanded Polystyrene panel horizontally directly fixed to the exterior wall frame covered with Alkaline Resistant Fibreglass Mesh and coated with GreenClad render system incorporating a breathable building wrap.

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

BCA 2019 (Amdt. 1)

	Volume One	Volume Two
Performance Requirement(s):	Not applicable	P2.1.1(b)(iii) Structural stability and resistance – Limited to wind actions. P2.2.2 Weatherproofing - <i>Subject to Limitation and Condition 2</i>
Deemed-to-Satisfy Provision(s):	Not applicable	3.12.1.4 Energy efficiency - External walls
State or territory variation(s):	Not applicable	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:

- Impact loading requirements for windborne debris in accordance with AS 1170.2:2011 Clause 2.5.8 are not addressed.
- To satisfy P2.2.2 via verification, the relevant design is required to meet the criteria of V2.2.1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
 - (a)(i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table V2.2.1a; and
 - (a)(ii) is not subjected to an ultimate limit state wind pressure or more than 2.5kPa; and
 - (a)(iii) includes only windows that comply with AS 2047.
- Timber frame is to be constructed in accordance with AS 1684-2010 or AS 1720.1:2010
- Cold-formed steel frame is to be constructed from minimum 0.75mm BMT, G550 steel 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 AS/NZS 4600:2018 Cold-Formed Steel Structures.
- Construction shall be in accordance with the [GreenClad Manual Ver.5 Dt 22-10-2020 a.](#)
- In all installations the minimum clearance between the underside of the panel and the adjoining surface level below must comply with the specifications in Part 3.5.4.7 of Volume 2 of the NCC.
- 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.

Building classification/s:

Class 1 & 10


 Richard Donarski - CMI


 Don Grehan – Unrestricted Building Certifier

Date of issue: 17/12/2021

Date of expiry: 09/11/2023





Certificate of Conformity

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, 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

GreenClad™ Insulated Façade System is a reinforced lightweight insulated cladding system for use on exterior walls for use in certain residential and non-habitable buildings and structures.

A2 Description of product

GreenClad™ Insulated Façade System is made up of an M-Grade Expanded Polystyrene panel directly fixed to the exterior timber or steel frame via breathable building wrap with screws and washers. Alkaline Resistant Fibreglass Mesh is applied over the entire system including joints; and then coated with GreenClad coating system, consisting of a base coat of polymer modified render and a top coat of Acrylic Texture.

The Green Clad Insulated Façade System is supplied in two panel options:

- Option 1: Plain EPS panels; and
- Option 2: Pre-Rendered EPS panels.

GreenClad™ Insulated Façade System components are:

GreenClad EPS Panel	M Grade EPS complies with AS 1366.3:1992 (R2018) – Nominal Density 19kg/m ³ – Lengths 2400mm ±10mm or 4800mm ±10mm; Width 1200mm ±5mm; EPS thickness options 50mm, 75mm & 100mm ±1.0mm
GreenClad Panel Reinforcing Mesh	Alkali Resistant Fibre Glass Mesh (ARFG) – Adhesive mesh - Type: 10mm x 10mm – 160gsm - Size: 1m width & 1.2m width x 50m Roll
GreenClad Render Dry Patch	Render Base coat – Dry Patch – Polymer Render
GreenClad Acrylic Texture WP	Trowel Texture WP Coat
Green Clad Pre-Rendered Panel Joint Mesh	Alkali Resistant Fibre Glass (ARFG) – Non-Adhesive mesh - Type: 5mm x 5mm – 160gsm - Size: 200mm x 50m Roll
Weatherproof Breathable Wall Wrap (Sarking)	Medium Duty as per AS/NZS 4200.1:2017 Sizes: 1.35m X 36.5 & 2.74m X 30.0m Wrap
Nails/Clouts	Channel Bead Galvanised Steel Flat Head Nails Size: 2.8mm x 40mm
Starter Channel Bead	Aluminium channel, with weep holes Sizes: 50mm, 75mm, 100mm in 2.5m Lengths
Panel Fixing Screws	10G x 75mm Bugle head, Class 3 or Class 4; 10G x 100mm Bugle head Class 3 or Class 4; 10G x 125mm Bugle head Class 3 or Class 4
Panel Fixing Washers	Plastic (UV stable) - Size: 48mm Diameter
Backing Rod	Abelrod Gap Filler 10mm Dia x 50m Closed cell, polyethylene foam rod expansion joint and space filler
Corner Angle Bead	Aluminium -32mm x 32mm x 2.7m or 3m Length for Virgin panels; Aluminium with Mesh - 75mmx125mm for Pre-Rendered panels; Stainless Steel -32mm x 32mm for Severe marine environment
Expansion Joint Trim	UPVC 3m lengths
Flashing Tape	Aluminium / Bitumen self-adhesive tape complies with AS 2904:1995 - Sizes: 75mm x 50m & 100mm x 50m Roll
PU Expanding Foam Adhesive	Polyurethane Expanding Foam Adhesive
Liquid Nails	SikaBond (Construction Adhesive) or Selleys Liquid (nail fast set only)
PU Sealant	TREMstop PU Sealant (Polyurethane paintable Sealant), Sikaflex- Pro
Damp Proof Course	Bitumen PE Roll complies with AS/NZS 2904:1995 - Sizes: 110mm x 20m & 300mm x 20m Roll

A3 Product specification

Structure

GreenClad™ Insulated Façade System is limited to Design Ultimate Limit State Wind Pressures calculated in accordance with AS/NZS 1170.2:2006 as follows:
 ± 1.39 kPa, for 50mm thickness panel onto stud framing at 600mm max. spacing (includes AS 4055:2012 Wind Classes N1 & N2).
 $+2.02$ kPa, -3.04 kPa for minimum 75mm thickness panel onto stud framing at 600mm max. spacing (includes AS 4055:2012 Wind Classes N1, N2, N3, N4 & C1).
 GreenClad™ Insulated Façade System may be installed onto timber or cold-formed steel framing at maximum 600mm spacing.
Source: Acronem Consulting Australia Pty Ltd, Report No.ACA-201007 dated 4 November 2020.

Weatherproofing

GreenClad™ Insulated Façade System is limited to external wall applications where the Design Serviceability Limit State Wind Pressure calculated in accordance with AS/NZS 1170.2:2006 does not exceed $+0.82$ kPa and -1.23 kPa.
 This is deemed to include; AS 4055:2012 Wind Classifications N1 & N2 for 50mm thick panels and AS 4055:2012 Wind Classifications N1, N2, N3, N4 & C1 for 75mm and 100mm thick panels.
Source: Acronem Consulting Australia Pty Ltd, Report No.ACA-201007 dated 4 November 2020.

Thermal

GreenClad System (as per A2)	Total R_T (m².K/W) Value Winter	Total R_T (m².K/W) Value Summer
50mm M-Class EPS panel, 90mm x 35mm timer frame, Green Clad render, sarking, 90mm non-reflective air space & 10mm plasterboard	1.82	1.73
75mm M-Class EPS panel, 90mm x 35mm timer frame, Green Clad render, sarking, 90mm non-reflective air space & 10mm plasterboard	2.50	2.38
100mm M-Class EPS panel, 90mm x 35mm timer frame, Green Clad render, sarking, 90mm non-reflective air space & 10mm plasterboard	3.18	3.03
50mm M-Class EPS, 90mm x 35mm x 0.75mm BMT cold-formed steel frame, (Green Clad render not calculated), sarking, 90mm non-reflective air space & 10mm plasterboard	1.74	1.66
75mm EPS with cold-formed steel frame M-Class EPS, 90mm x 35mm x 0.75mm BMT cold-formed steel frame, (Green Clad render not calculated), sarking, 90mm non-reflective air space & 10mm plasterboard	2.42	2.30
100mm EPS with cold-formed steel frame M-Class EPS, 90mm x 35mm x 0.75mm BMT cold-formed steel frame, (Green Clad render not calculated), sarking, 90mm non-reflective air space & 10mm plasterboard	3.10	2.94

Source: Acronem Consulting Australia Pty Ltd, Report No.ACA-201007 dated 4 November 2020.



Certificate of Conformity

A4 Manufacturer and manufacturing plant(s)

Painttex Pty Ltd.
ABN: 55 134 179 310
Unit 5, 10-12 South Link Road
Dandenong South, VIC 3175.

A5 Installation requirements

Installation requirements are outside the scope of this certificate and subject to project specific engineering advice. The Certificate Holder has made available the [GreenClad Manual Ver.5 Dt 22-10-2020_a](#) Technical and Installation Manual. Only to be installed by Painttex Pty Ltd approved and experienced applicator.

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Structural Provisions A5.2(1)(d) & (e). Reports from Accredited Testing Laboratories & Appropriately Qualified Person.
2. Thermal Provisions A5.2(1)(d) & (e). Reports from Accredited Testing Laboratories & Appropriately Qualified Person.
3. Weatherproofing Provision A5.2(1)(d) & (e). Reports from Accredited Testing Laboratories & Appropriately Qualified Person.

B2 Reports

1. James M. Fricker; Report i223b; Thermal property calculations in accordance with AS/NZS4859:2018 P1&2; Dated 17/04/2019.
2. Ian Bennie And Associates, NATA Accreditation No. 2371; Report No; 2019-051-S1; Weatherproofing testing in accordance with V2.2.1 and AS/NZS 4284:2008; Dated 03/07/2019.
3. Ian Bennie And Associates, NATA Accreditation No. 2371; Report No; 2016-013-S1; Structural Test at Ultimate Limit States in accordance with AS/NZS 4284:2008, AS/NZS 1170.0 and AS/NZS 1170.2; Dated 05/04/2018.
4. Ian Bennie And Associates, NATA Accreditation No. 2371; Report No; 2019-07-S2; Static ultimate wind load tests to AS 4040.2; Dated 03/07/2019.
5. Acronem Consulting Australia Pty Ltd, Report No.ACA-201007 dated 04/11/2020.

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