

Certificate number: CM40203

Certification Body:


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THIS IS TO CERTIFY THAT

LuxeWall®

Description of product:

LuxeWall® is an insulated wall panel comprising Expanded Polystyrene with Fire Retardant (EPS-FR) core and Colorbond steel skins with conceal fixed in a vertical orientation to metal or timber stud wall framing. Refer A2 for further information.

Type and/or use of product:

Insulated wall panel system.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) BCA 2019 (Amdt. 1)

	Volume One		Volume Two	
Performance Requirement(s):	BP1.1(a),b)(i), (ii)&(iii)	Structural Stability and Resistance to actions – as applicable to external walls	P2.1.1(a),(b)(i), (ii)&(iii)	Structural Stability and Resistance to actions – as applicable to external walls
	FP1.4	Weatherproofing – Subject to <i>Limitation and Condition No. 3</i>	P2.2.2	Weatherproofing – Subject to <i>Limitation and Condition No. 3</i>
Deemed-to-Satisfy Provision(s):	C1.10(a)(ix)	Fire hazard properties - Spread-of- Flame Index 0, Smoke- Developed Index 3	3.12.1.4(b)	Energy Efficiency – External Walls - Contributes to the overall energy efficiency of the building. Refer A3
	J1.5	Energy Efficiency – External walls. Can be used in conjunction with other building elements to achieve a Total R Value. Refer to A3	3.12.1.6(a)	Energy Efficiency - Attached Class 10a Buildings - Contributes to the overall energy efficiency of the building. Refer A3
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:

- The LuxeWall® wall panels are limited to the use in Type C Construction in Class 2 to 9 buildings when being used as external walls. Note, LuxeWall® wall panels can be used as internal walls in class 2 to 9 buildings and as internal and external walls in class 1 & 10 buildings.
- This product has not been tested to AS 1530.1-1994 (R2016) and cannot be considered a non-combustible product.
- 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 is determined in accordance with Table FV1.1/V2.2.1a; and

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: 25/03/2021

Date of expiry: 25/03/2024



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(a)(ii) not be subjected to an ultimate limit state wind pressure of more than 2.5kPa; and

(a)(iii) include only windows that comply with AS 2047.

Compliance 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.

4. In the absence of site specific engineering advice, Luxewall panels can be used in external situations in non-cyclonic areas only.
5. LuxeWall[®] wall panels can be used as internal walls in class 2 to 9 buildings and as internal and external walls in class 1 & 10 buildings.
6. The metal wall panels will be limited by wind load shown in the manufacturer's specifications on the span certified for the product type, thickness, core density and fixing configuration as per the product's certified span tables. Refer A3 below.
7. Construction methods for external walls required to be fire resisting in relation to Class 1 and 10 buildings and structures must comply with part 3.7.2.4 of the NCC Volume 2.
8. A pliable building membrane complying with AS/NZS 4200.1 - 2017 must be installed in accordance with AS/NZS 4200.2-2017 to separate the wall cladding panels from any water sensitive materials.
9. No assessment has been undertaken on the product for Part F6 of Vol 1 or Part 3.8.7 of Vol 2 of the 2019 BCA for Condensation management.
10. In order to achieve compliance with weatherproofing in accordance with FV1 and V2.1.1, all windows must comply with AS 2047:2014.
11. In all installations the minimum clearance between the underside of panel and the adjoining ground surface level below must comply with the specifications in Part 3.5.4.7 of Volume 2 of the NCC.
12. Installation requirements are outside the scope of this certificate and subject to project specific engineering advice. The minimum fixing requirements are outlined in the Span Tables referenced in A3 of this Certificate of Conformity.
13. It is the responsibility of the architectural designer and engineering parties to ensure that the details in this Design and Installation Guide are appropriate for the intended application.
14. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
15. 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. 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

Core	EPS-FR - Expanded Polystyrene SL Grade with fire retardant.
Width (cover mm)	900, 1200
Thickness (mm)	50, 75
Length (m)	Up to 6.5
External Material	0.6mm G300 COLORBOND® Steel
Internal Material	0.6mm G300 COLORBOND® Steel with HygienePlus®

Dimensions



Source: Certificate Holder

A3 Product specification

Structure In accordance with AS/NZS 1170.0, AS/NZS 1170.1, AS/NZS 1170.2, AS 4055 & AS 4040.1. In order to maintain compliance with structure, the following Span Tables must be referred to which have been certified by a licensed Professional Engineer.

Document Name	Version
LuxeWall® SPAN TABLES FOR WIND REGION A & B – NON-CYCLONIC (EXTERNAL WALL APPLICATIONS ONLY) EPS Core Grade SL 0.6mm steel skins	1
LuxeWall® Wall Span Table for Housing Application – 50mm Panel EPS Core Grade SL 0.6mm Steel Skins	1
LuxeWall® Wall Span Table for Housing Application – 75mm Panel EPS Core Grade SL 0.6mm Steel Skins	1

Source: Bligh Tanner Pty Ltd; Reference No. 2017.0493; Certification of LuxeWall Span Tables; Dated 04/02/2021

Fire Hazard Properties

AS/NZS 1530.3-1999 Indices			
Ignitability Index	0	Range 0-20	
Spread of Flame Index	0	Range 0-10	
Heat Evolved Index	0	Range 0-10	
Smoke Index	3	Range 0-10	

Source: AWTA Fire Test Report No. 7-563000-CQ, Testing to AS/NZS 1530.3:1999 dated 25/11/2008.

Energy Efficiency

EPS Thermal Performance

LuxeWall® Systems with Horizontal Tophats, Vapour Permeable Sarking & Plasterboard (steel framing)	Insulation path Total R, m ² K/W		Overall Total R, m ² K/W	
	Summer	Winter	Summer	Winter
	50mm R1.23 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 70mm non-reflective air space and steel studs at 600mm centres (10mm plasterboard)	R1.7	R1.9	R1.7
75mm R1.84 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 70mm non-reflective air space and steel studs at 600mm centres (10mm plasterboard)	R2.3	R2.5	R2.3	R2.5
50mm R1.23 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 70mm R1.50 glasswool insulation and steel studs at 600mm centres (10mm plasterboard)	R3.0	R3.2	R2.8	R3.0
75mm R1.84 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 70mm R1.50 glasswool insulation and steel studs at 600mm centres (10mm plasterboard)	R3.6	R3.9	R3.4	R3.6
50mm R1.23 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 90mm R2.00 glasswool insulation and steel studs at 600mm centres (10mm plasterboard)	R3.5	R3.8	R3.1	R3.4
75mm R1.84 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 90mm R2.00 glasswool insulation and steel studs at 600mm centres (10mm plasterboard)	R4.1	R4.4	R3.8	R4.1

LuxeWall® Systems with Horizontal Tophats, Vapour Permeable Sarking & Plasterboard (pine framing)	Insulation path Total R, m ² K/W		Overall Total R, m ² K/W	
	Summer	Winter	Summer	Winter
	50mm R1.23 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 70mm non-reflective air space and pine studs at 600mm centres (10mm plasterboard)	R1.7	R1.9	R1.8
75mm R1.84 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 70mm non-reflective air space and pine studs at 600mm centres (10mm plasterboard)	R2.3	R2.5	R2.4	R2.5
50mm R1.23 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 70mm R1.50 glasswool insulation and pine studs at 600mm centres (10mm plasterboard)	R3.0	R3.2	R2.9	R3.1
75mm R1.84 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 70mm R1.50 glasswool insulation and pine studs at 600mm centres (10mm plasterboard)	R3.6	R3.9	R3.5	R3.7
50mm R1.23 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 90mm R2.00 glasswool insulation and pine studs at 600mm centres (10mm plasterboard)	R3.5	R3.8	R3.3	R3.6
75mm R1.84 LuxeWall® Standard system with horizontal tophats, vapour permeable Sarking, 90mm R2.00 glasswool insulation and pine studs at 600mm centres (10mm plasterboard)	R4.1	R4.4	R3.9	R4.2

- Notes:**
- The above shows determinations based upon AS/NZS 4859 Parts 1&2:2018, Thermal insulation materials for buildings. "Overall" results show reportable Total R after thermal bridging calculations.
 - Total Transmittance (U) can be calculated by $U=1/R$

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Weatherproofing

Vertical panel configuration installed as a Direct Fix System in accordance with Verification Methods V2.2.1 & FV1 with AS/NZS 4284:2008. Nominated serviceability limit state pressures: +550 Pa and -830 Pa. Weatherproofing requirements are detailed in [LuxeWall Installation Guide v 29 – 29042020](#). The minimum fixing requirements are outlined in the Span Tables referenced in A3 of this Certificate of Conformity.

Source: Ian Bennie And Associates; Report No.2019-020-S6; NCC-2019 Verification Methods FV1 & V2.1.1 in accordance with AS/NZS 4284:2008; Dated 17/07/2019

A4 Manufacturer and manufacturing plant(s)

This field is optional. Contact Certificate Holder for manufacturing locations.

A5 Installation requirements

To be installed in accordance with [LuxeWall Installation Guide v 29 – 29042020](#) and subject to project specific engineering advice. The minimum fixing requirements are outlined in the Span Tables referenced in A3 of this Certificate of Conformity. It is the builder's responsibility to ensure that the reveal is sized correctly to suit LuxeWall® Wall Panel and the intended application.

A6 Other relevant technical data

Acoustic Performance

Acoustic Opinion of Weighted Sound Reduction Index (R_w)

Wall System	Exterior cladding	Frame->cladding cavity	Insulation	Frame	Interior lining	Total wall thickness	Weighted sound reduction index performance
1	LuxeWall 75mm Standard (ESP-FR)	24mm steel top hat	-	90mm timber studs	Standard 10mm Plasterboard	199mm	$R_w \geq 35$
2	LuxeWall 75mm Standard (ESP-FR)	24mm steel top hat	75mm 11kg/m ³ Glasswool	90mm timber studs	Standard 10mm Plasterboard	199mm	$R_w \geq 40$

Source: Renzo Tonin & Associates Reference No. MC637-02F02 Acoustic Opinion (r1) dated 6 June 2018.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Fire Safety Provisions – A5.2(1)(d). Reports from Accredited Testing Laboratories.
2. Structural Provisions – A5.2(1)(e). Reports from a professional engineer.
3. Thermal Provisions – A5.2(1)(e). Reports from a professional engineer.
4. Weatherproofing Provisions – A5.2(1)(d). Reports from Accredited Testing Laboratories.

B2 Reports

1. AWTA Product Testing; NATA Accreditation No. 1356; Test Report No. 7-563000-CQ; Fire testing to AS/NZS 1530.3-1999, Fire Indices; Dated 28/10/2008.
2. Bligh Tanner Pty Ltd; Reference No. 2017.0493; Certification of LuxeWall Span Tables; Dated 04/02/2021.
3. Ian Bennie And Associates; Accreditation No. 2371; Report No. 2019-020-S6; NCC-2019 Verification Methods FV1 & V2.1.1 in accordance with AS/NZS 4284:2008; Dated 10/10/2019.
4. James M Fricker Pty Ltd; Report i265lx; Thermal Calculation of LuxeWall Wall Panels on steel studs; Dated 24/04/2020.
5. James M Fricker Pty Ltd; Report i265lx; Thermal Calculation of LuxeWall Wall Panels on pine timber studs; Dated 24/04/2020.

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