



Certificate of Conformity

Certification Body:



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Certificate Holder:

FVA Group Pty Ltd
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Certificate number: CM30142 Rev 1

THIS TO CERTIFY THAT

Vitraloc Cladding System

Type and/or use of product:

Vitraloc Cladding System is an engineered metal cladding system, fabricated from hot dipped Aluminium/Zinc alloy coated steel coil panels, for building facades.
Typically, Vitraloc is used on Type 2-9 buildings.

Description of product:

Vitraloc Cladding System is an engineered metal cladding system, consisting of metal cladding panels and flashings, supported by a proprietary batten.
The system comes in two cladding profiles – Shadow 25 and Seam 38, and includes accessory items such as self-drilling screws and backing strip.

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

BCA 2019 + A1

	Volume One including Amendment 1		Volume Two including Amendment 1	
Performance Requirement(s)	FP1.4	Weatherproofing		
Deemed-to-Satisfy Provision(s):	B1.1	Structure		
	B1.4 (c)	Determination of structural resistance of materials and forms of construction		
	C1.9 (e)(v)	Non-combustible building elements		
	G5.2	Construction in bushfire prone areas		
State or territory variation(s):	NSW G5.2	Construction in Bushfire Prone Areas		

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.

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.

The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In placing the **CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).

Herve Michoux
Global-Mark Managing Director

Peter Gardner
Unrestricted Building Certifier

Date of issue: 16/12/2022

Date of expiry: 18/11/2025



		QLD G5.1	Construction in Bushfire Prone Areas		
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SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B	
Limitations and conditions:	Building classification/s:
<p>Volume 1 – B1.1 & B1.4 (c)</p> <p>The wall systems as described have maximum design wind load limits for non-cyclonic wind regions as follows:</p> <ul style="list-style-type: none"> ➤ Maximum Serviceability Limit State wind pressure -2.45 kPa to +1.65 kPa ➤ Maximum Ultimate Limit State wind pressure -6.0 kPa to +4.0 kPa <p>Panel dimensions, wind load limits, construction details and fixing methods must follow the relevant details contained within the Vitraloc Cladding System technical literature (refer Appendix B2).</p> <p>The wall system is not assessed for Cyclonic wind classifications.</p>	2, 3, 4, 5, 6, 7, 8 & 9
<p>Volume 1 – BP1.1 (b) (v) (vi) & (ix)</p> <p>Snow, liquid pressure and earth pressure actions are excluded.</p>	2, 3, 4, 5, 6, 7, 8 & 9
<p>Volume 1 – BP1.4</p> <p>Compliance for flood hazard areas is excluded.</p>	2, 3, 4, 5, 6, 7, 8 & 9
<p>Volume 1 – FP1.4</p> <p>The Vitraloc Cladding System is suitable for weatherproof construction providing a wall membrane / air barrier (compliant with NCC 2019 (A1) Volume 1 – F6.2) is installed and when the external wall:</p> <ul style="list-style-type: none"> (i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with NCC 2019 (A1) Volume 1 Table FV1.1; and (ii) subject to ultimate limit state (non-cyclonic) wind pressures of no more than -6.0 kPa to +4.0 kPa; and (iii) structural design of external wall components must resist the relevant ULS wind pressure as per the relevant Standards and structural deflections of the stud framing and cavity framing shall be limited to Span/250 for the SLS wind pressure, and (iv) includes only windows that comply with AS 2047 <p>The wall system design & installation shall comply with the Vitraloc cladding system technical literature (refer Appendix B2).</p> <p>The wall system is not assessed for Cyclonic wind classifications.</p>	2, 3, 4, 5, 6, 7, 8 & 9
<p>Volume 1 – G5.2</p> <p>In Bushfire prone areas, when the building is constructed in accordance with AS3959, Vitraloc Cladding System is permitted for use as external wall cladding in buildings subject to Bushfire Attack Level in all zones up to and including BAL-40.</p>	2, 3, 4, 5, 6, 7, 8 & 9

	<p>Volume 1 – NSW G5.2</p> <p>In Bushfire prone areas, when the building is constructed in accordance with AS3959, Vitraloc Cladding System is permitted for use as external wall cladding in buildings subject to Bushfire Attack Level in all zones up to and including BAL-40.</p>	<p>2, 3, 4, 5, 6, 7, 8 & 9</p>
	<p>Volume 1 – QLD G5.1</p> <p>In Bushfire prone areas, when the building is constructed in accordance with AS3959, Vitraloc Cladding System is permitted for use as external wall cladding in buildings subject to Bushfire Attack Level in all zones up to and including BAL-40.</p> <p>This applies to buildings located in a designated Bushfire Prone area but does not apply, in accordance with AS3959, when the classified vegetation is Group F rainforest (excluding wet sclerophyll forest types), mangrove communities and grasslands under 300mm high.</p>	<p>2, 3, 4, 5, 6, 7, 8 & 9</p>
	<p>General</p> <p>The supporting structures including stud frame & internal linings shall be in accordance with the relevant Australian Standard and/or designed & specified by a suitably qualified design professional, and installed by suitably qualified and trained building professionals, in accordance with manufacturer guidelines and the relevant Vitraloc Cladding System technical literature (refer Appendix B2).</p>	<p>2, 3, 4, 5, 6, 7, 8 & 9</p>

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

Refer to page 1 of this certificate.

A2 Description of product

Refer to page 1 of this certificate.

A3 Product specification

Refer to Vitraloc Cladding System technical literature as detailed in Appendix B2. The following span tables apply for varying panel dimensions:

Table 1: Maximum span (support spacing) for Vitraloc™ Shadow 25

Wind Pressure (kPa)		Max. Span, L (mm)
Ultimate W_u	Serviceability W_s	
0.50	0.34	1500
1.00	0.67	1400
1.50	1.01	1100
2.00	1.34	1000
2.50	1.68	900
3.00	2.01	800
3.50	2.35	750
4.00	2.68	700
4.50	3.02	650
5.00	3.35	600
5.50	3.69	500
6.00	4.02	450

Table 2: Maximum span (support spacing) for Vitraloc™ Seam 38

Wind Pressure (kPa)		Max. Span, L (mm)
Ultimate W_u	Serviceability W_s	
0.50	0.34	1500
1.00	0.67	1500
1.50	1.01	1400
2.00	1.34	1300
2.50	1.68	1200
3.00	2.01	1100
3.50	2.35	1000
4.00	2.68	900
4.50	3.02	800
5.00	3.35	700
5.50	3.69	750
6.00	4.02	600

A4 Manufacturer and manufacturing plant(s)

FVA Group Pty Ltd

18-20 Donald St

Lithgow NSW 2790

A5 Installation requirements

Refer to the Technical Literature listed in Appendix B2:

- Vitraloc Cladding System technical manual, December 2021.

A6 Other relevant technical data

Refer to the Technical Literature listed in Appendix B2:

- Vitraloc Cladding System technical manual, December 2021.

And any referenced documents within the technical literature identified in the Technical Literature.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with BCA 2019 (inc Amdt 1):

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
BCA Volume One FP1.4	A2.2 (2) (a), (b) & (c)	A5.2 (1) (d) & (e) – Test report & Expert judgement	Items 2, 5 & 6
BCA Volume One - B1.1	A2.3 (2) (a) & (b)	A5.2 (1) (e) – Expert judgement	Items 1 & 2
BCA Volume One - B1.4 (c)	A2.3 (2) (a) & (b)	A5.2 (1) (e) – Expert judgement	Items 1 & 2
BCA Volume One - C1.9 (e)(v)	A2.3 (2) (a)	A5.2 (1) (d) – Test report	Items 3 & 4
BCA Volume One - G5.2	A2.3 (2) (a) & (b)	A5.2 (1) (f) – Other documentary evidence	Item 1
BCA Volume One – NSW G5.2	A2.3 (2) (a) & (b)	A5.2 (1) (f) – Other documentary evidence	Item 1
BCA Volume One – QLD G5.1	A2.3 (2) (a) & (b)	A5.2 (1) (f) – Other documentary evidence	Item 1

B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2019 (inc Amdt 1):

Ref	Author	Reference	Date	Description	NATA Registration
1	Fairview	Vitaloc Technical Manual	Dec 2021	Technical manual	–
2	Enertren	FAR-115 V.1	24 May 2022	NCC Compliance Report	–
3	AWTA	21-002208	4 May 2021	Fire Test Report	1356
4	AWTA	21-005771	17 Nov 2021	Fire Test Report	1356
5	VIPAC Engineers	30B-21-0049-TRP-12542-0	21 May 2021	Weatherproofing Test Report	676
6	VIPAC Engineers	30B-21-0049-TRP-12639-0	21 May 2021	Weatherproofing Test Report	676

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

End of Certificate.