

Certificate of Conformity

Certification Body:



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Certificate Holder:

FVA Group Pty Ltd
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Certificate number: CM30117 Rev 3

THIS IS TO CERTIFY THAT

VITRADUAL

Type and/or use of product:

VITRADUAL panels are used in external wall cladding, in all building types (NCC Volume 1 & 2)

Description of product:

VITRADUAL panels are 3 mm thick PVDF coil coated solid Aluminium panels installed with metal fixing system. Standard panel sizes include widths of 1,250mm & 1,500mm and lengths of 2,500mm, 3,200mm & 4,000mm. Custom panel sizes up to 1,500mm x 4,000mm.

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

BCA 2022

	Volume One		Volume Two and Housing Provisions (HP)	
Performance Requirement(s)	B1P1	Structural Provisions	H1P1	Structural stability and resistance to actions
	B1P2	Structural Provisions		
	F3P1	Damp and Weatherproofing	H2P2	Weatherproofing
Deemed-to-Satisfy Provision(s):	B1D4 (e)	Structural Resistance	HP 2.2.4 (k)	Structural Resistance
	C2D10 (6)(e)	Non-Combustible Material		
	G5D3	Construction in bushfire prone areas Protection – residential buildings	H7D4 (2)(a)	Construction in bushfire prone areas
	G5D4	Construction in bushfire prone areas Protection – certain Class 9 buildings		

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: 17/08/2023

Date of expiry: 29/06/2026



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	State or territory variation(s):	NT B1D4 (e) QLD B1D4 (e) WA B1D4 (e)	Structural Resistance	WA 2.2.4 (k)	Structural Resistance
		NSW G5D3 NSW G5D4 VIC G5D4 SA G5D5	Bushfire: Protection – residential buildings Bushfire: Protection – certain Class 9 buildings Bushfire: Protection – certain Class 9 buildings Bushfire attack levels	NSW H7D4 (2)(a) QLD H7D4 (3) SA H7D4 (3)	Construction in bushfire prone areas Construction in bushfire prone areas Construction in bushfire prone areas
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:
Volume 1 – B1P1 & Volume 2 – H1P1 Vitradual panel system as described has maximum design wind load limits documented within the Vitradual Technical Manual, dated March 2020. Wind load limits, construction detail and fixing must follow the relevant details contained within the Vitradual Technical Manual, dated March 2020. Supporting structures & connections (including stud frame & sub framing members) must be designed / specified to withstand project loads including but not limited to ULS & SLS wind loads.					1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – B1P1 (2) (e), (f) & (i) & Volume 2 – H1P1 (2) (e), (f) & (i) Snow, liquid pressure and earth pressure actions are excluded.					1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – B1P4 & Volume 2 – H1P2 Compliance for flood hazard areas is excluded.					1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 F3P1 & Volume 2 H2P2 A VitraDual external wall must be constructed using either a pliable building membrane or Rigid Air Barrier, subject to the following: 1. the Flexible Wall Wrap or Rigid Air Barrier must present an Air & Water barrier for the purposes of weatherproofing, and 2. When a Flexible wall wrap (Water Barrier) is used, the system remains weatherproof up to Serviceability wind loads of +1.5 kPa & -1.8 kPa, and 3. When a Rigid Air Barrier is used for a wall wrap, the system remains weatherproof up to Serviceability wind loads of +3.5 kPa & -4.0 kPa, and 4. Design & installation complies fully with Vitradual Technical Manual, dated March 2020, and 5. Design accommodates deflection movements due to all design loads & temperature variations, and 6. Installation Contractor complies with manufacturer’s instructions for sealants, shop drawings & project specifications, and 7. Fixings are installed in accordance with manufacturer’s instructions & procedures, fixings to be weathertight and not restrict thermal or wind movements of the facade, and					1, 2, 3, 4, 5, 6 & 9

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8. Perforated "Breather" wall wrap membranes must not be used.	
Volume 1 - C2D10 This Certification is based upon the system being installed using components & accessories specified in the "System Components" section of the Vitradual Technical Manual, dated March 2020 & the Vitrafix Accessories Brochure dated March 2020 (refer Appendix B2). Substitution of such components & / or accessories may be permitted, however the general performance specifications of components & / or accessories must be maintained for this certificate to remain valid.	2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – C2D10 (1) In a building required to be of Type A or B construction, construction elements and their components must be non-combustible for all external walls, common walls and non-loadbearing internal walls that are required to be fire-resisting. This includes the requirement for Rigid Air Barriers to be non-combustible, where used.	2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – C2D10 (6) Pliable building membranes / "Sarking-type materials" must not exceed 1mm in thickness and must have a Flammability index not greater than 5.	2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – G5D3 & Volume 2 – H7D4 (2)(a) In designated bushfire prone areas, when the building is constructed in accordance with AS3959: 2018 including Amendments 1 & 2, Vitradual is permitted for use as external wall cladding only in buildings subject to Bushfire Attack Level BAL-Low, BAL-12.5 & BAL-19. In Queensland (per QLD G5D2 & QLD H7D4(3)), areas where the classified vegetation is Group F rainforest (excluding wet sclerophyll forest types), mangrove communities and grasslands under 300mm high, are excluded.	1, 2, 3 & 10a or deck immediately adjacent or connected to building class 1, 2 or 3
Volume 1 – NSW G5D3 & Volume 2 – NSW H7D4 In designated bushfire prone areas, subject to Bushfire Attack Level BAL-Low, BAL-12.5 & BAL-19, determined in accordance with the Planning for Bush Fire Protection, when the building is constructed in accordance with AS3959: 2018 including Amendments 1 & 2, except as modified by Planning for Bush Fire Protection, Vitradual is permitted for use as external wall cladding. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of Planning for Bush Fire Protection. Site specific conditions arising from: - the development consent following consultation with the NSW Rural Fire Service under section 4.14 of the Environmental Planning and Assessment Act 1979 if required, or - the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development have not been considered for the compliance assessment.	1, 2, 3, Class 4 part of a building & 10a building or deck immediately adjacent or connected to building of class 1, 2, 3 or Class 4 part of a building

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	Volume 1 – NSW G5D4 In designated bushfire prone areas subject to a Bushfire Attack Level (BAL) not exceeding BAL—12.5, determined in accordance with Planning for Bush Fire Protection, when the building is constructed in accordance with: 1) For class 9 buildings, Specification 43 except as modified by Planning for Bush Fire Protection, or 2) For class 10a buildings or decks, AS3959: 2018 including Amendments 1 & 2 except as modified by Planning for Bush Fire Protection and S43C13, Vitradual is permitted for use as external wall cladding. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of Planning for Bush Fire Protection. Site specific conditions arising from the development consent with a bushfire safety authority issued under section 100B of the Rural Fires Act 1997 for the purposes of integrated development are site specific and have not been considered for the compliance assessment.	Class 9 building that is a special fire protection purpose; and a Class 10a building or deck immediately adjacent or connected to such building
	General The supporting structures including stud frame & cavity sub framing, plus internal linings shall be designed & specified by a suitably qualified design professional in accordance with manufacturer guidelines. Installation shall be conducted by suitably qualified and trained building professionals. Design, Specification and Installation shall be in accordance with the Vitradual Technical Manual, dated March 2020 (refer Appendix B2).	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10

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.

This product is NOT an Aluminium Composite Panel (ACP).

A3 Product specification

Refer to items 1 & 2 listed in Appendix B2:

- VITRADUAL Technical Manual, dated March 2020.
- VITRAFIX Accessories Brochure, dated March 2020.

A4 Manufacturer and manufacturing plant(s)

FVA Group Pty Ltd

18-20 Donald Street

Lithgow NSW 2790

Ph: + 61 2 6352 2355

www.fv.com.au

A5 Installation requirements

Refer to items listed in Appendix B2:

- VITRADUAL Technical Manual, dated March 2020.
- VITRAFIX Accessories Brochure, dated March 2020.

A6 Other relevant technical data

Refer to items listed in Appendix B2:

- VITRADUAL Technical Manual, dated March 2020.
- VITRAFIX Accessories Brochure, dated March 2020.
- Any referenced documents within the above listed technical literature.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with BCA 2022

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
BCA Volume One B1P1	A2G2 (2) (a), (b)(ii) & (c)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Volume Two H1P1	A2G2 (2) (a), (b)(ii) & (c)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Volume One B1P2	A2G2 (2) (a), (b)(ii) & (c)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Volume One F3P1	A2G2 (2) (a), (b)(i) & (c)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 10, 11, 12 & 13
BCA Volume Two H2P2	A2G2 (2) (a), (b)(i) & (c)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 10, 11, 12 & 13
BCA Volume One B1D4 (e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Housing Provisions 2.2.4 (k)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Volume One C2D10 (6)(e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 6, 7, 8 & 9
BCA Volume One G5D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 6, 7, 8 & 9
BCA Volume One G5D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 6, 7, 8 & 9
BCA Volume Two H7D4 (2)(a)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 6, 7, 8 & 9
BCA Volume One NT B1D4 (e) QLD B1D4 (e) WA B1D4 (e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Housing Provisions WA 2.2.4 (k)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Volume One NSW G5D3	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 6, 7, 8 & 9
BCA Volume One NSW G5D4 VIC G5D4	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 6, 7, 8 & 9
BCA Volume One SA G5D5	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 6, 7, 8 & 9
BCA Volume Two NSW H7D4 (2)(a) QLD H7D4 (3) SA H7D4 (3)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Report & Expert Judgement	Items 6, 7, 8 & 9

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B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2022:

Ref	Author	Reference	Date / Revision	Description	NATA Registration
1.	Fairview	VitraDual – Technical Information	March 2020	Product Technical Manual	-
2.	Fairview	VitraFix – Accessories Brochure	March 2020	Accessories Brochure	-
3.	Enertren	FAR-106 Vitradual Structural Design	12 December 2019	Structural Assessment Report	-
4.	Enertren	FAR-092 Span Tables	23 January 2019	Structural Span Tables	-
5.	SGS Australia	N-0519-0921	25 October 2019	Material Investigation Report	-
6.	CSIRO	FNC 11690	16 August 2016	Fire Test Report	165
7.	AWTA	16-002875	7 June 2016	Fire Test Report	1356
8.	Red Fire Engineers	JV19-00103-v2	27 March 2020	Fire Assessment Report	-
9.	Exova WarringtonFire UK	WF 400695v2	5 June 2018	Fire Classification Report	UKAS 0249
10.	BG&E Facades	FVA Cladding Products - VitraDual	27 August 2018	Weather tightness assessment report	-
11.	FacadeLab NZ	18-02	20 April 2018	Weather tightness test report	IANZ 1091
12.	VIPAC Engineers	30B-19-0059-TRP-6774697-1	1 April 2020	Weather tightness test report	676
13.	VIPAC Engineers	30B-19-0059-TRP-6774698-0	2 April 2020	Weather tightness 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.