Certificate of Conformity

Certification Body:

global-mark

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Certificate Holder:

FVA Group Pty Ltd
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Lithgow, NSW 2790

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Certificate number: CM30126 Rev 3

THIS TO CERTIFY THAT

Stryum Cladding System

Type and/or use of product:

Stryum cladding system is a solid aluminium interlocking linear cladding system, for building facades. Stryum can be used on all Class 1-10 buildings (Volume 1 & Volume 2 of the BCA).

Description of product:

Stryum cladding panels are solid aluminium cladding panels with either anodised or powder coated surface finish (including Woodgrain finish), consisting of 8 interlocking profiles, Shadow 160, Shadow 200, Shadow 300, Shadow 90/90, Shadow 170/95, Seam 260, Seam 130/130 and Step 250.

Stryum cladding panels are fixed with concealed fixings, accessories supplied include S/Z section battens, universal trims, shadow trims, seam trims and step trims.

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 reliability	**H1P1**	Structural reliability and resistance
	B1P2	Structural resistance		
	F3P1	Weatherproofing	**H2P2**	Weatherproofing
Deemed-to-Satisfy Provision(s):	**B1D2**	Structure – Resistance to Actions	**HP 2.2.4 (k)**	Determination of structural resistance of materials and forms of construction
	B1D4 (e)	Determination of structural resistance of materials and forms of construction		

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: 13/03/2025

Date of expiry: 08/12/2025

ABCB JAS-ANZ

		C2D10 (6)(e)	Non-combustible building elements	**H3D2 (1)(e)**	Fire hazard properties and non-combustible building elements
		G5D3	Construction in bushfire prone areas Protection – Residential buildings	**H7D4 (2)**	Construction in bushfire prone areas
		G5D4	Construction in Bushfire Prone Areas Protection – Certain class 9 buildings		
	State or territory variation(s):	**NT B1D4 (e)**	Determination of structural resistance of materials and forms of construction		
		QLD B1D4 (e)	Determination of structural resistance of materials and forms of construction		
		WA B1D4 (e)	Determination of structural resistance of materials and forms of construction	**HP WA 2.2.4 (k)**	Determination of structural resistance of materials and forms of construction
		NSW G5D3	Construction in bushfire prone areas Protection – Residential buildings	**NSW H7D4 (2)**	Construction in bushfire prone areas
		NSW G5D4	Construction in bushfire prone areas – Protection of certain Class 9 buildings		
		VIC G5D4	Construction in bushfire prone areas – Protection of certain Class 9 buildings		

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 (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** Stryum wall cladding external walls must be constructed using either a pliable building membrane (Flexible wall wrap) or a Rigid Air Barrier as a Weather Resistant Barrier (compliant with BCA2022 Volume 1 – F8D3) and is considered to remain Weatherproof, subject to the following: 1. Flexible Wall Wrap or Rigid Air Barrier present a sealed 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 -2.5 kPa to +2.0 kPa, and 3. when a Rigid Air Barrier is used for a wall wrap, the system remains weatherproof up to Serviceability wind loads of -4.0 kPa to +3.5 kPa, and 4. External wall elements shall resist the project ULS wind pressure & stud / cavity framing SLS wind pressure deflection limited to Span/250, and 5. includes only windows that comply with AS 2047, and 6. installation of Horizontal cavity battens must promote drainage of moisture towards the Stryum cladding panels, and 7. the wall system design & installation shall comply with the Stryum wall cladding system technical literature (refer Appendix B2).	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10

Volume 1 – B1D4 (e) & Housing Provisions – 2.2.4 (k) The Stryum wall cladding system is suitable for both Non-cyclonic and Cyclonic wind classifications within the following wind pressure limits: 1. Non-cyclonic wind regions o Refer to Stryum structural span tables as detailed in Appendix A3 and SLS wind pressure limits detailed above for F3P1 & H2P2. 2. Cyclonic wind regions o Serviceability Limit State wind pressure limit (rigid air barrier) +2.18 kPa o Ultimate Limit State wind pressure limit -7.96 kPa Wind pressure limits by panel span dimensions, construction details and fixing methods must follow the relevant details contained within the Stryum wall cladding system technical literature (refer Appendix B2). 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 pressures.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – C2D10 & Volume 2 – H3D2 This Certification is based upon the system being installed using components & accessories specified in the "System Components" section of the Styrum wall cladding system technical literature (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.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
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.	2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – C2D10 (6) & Volume 2 – H3D2 (2) In external wall applications, pliable building membranes / "Sarking-type materials" must not exceed 1mm in thickness and must have a Flammability index not greater than 5. Rigid Air Barriers must be non-combustible and remain compliant with C2D10 (6)(f).	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10
Volume 1 – G5D3 & Volume 2 – H7D4 (2) In designated bushfire prone areas, when the building is constructed in accordance with AS3959:2018 including Amendment 1 & 2 or NASH Standard – Steel Framed Construction in Bushfire Areas (where applicable), Styrum wall 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-19 only.	Class 1, 2, 3 buildings & Class 10a buildings or decks immediately adjacent or connected to Class 1, 2 or 3 buildings
Volume 1 – G5D4 In designated bushfire prone areas when the building is constructed in accordance with Specification 43, Styrum wall cladding system is permitted for use as external wall cladding in buildings subject to Bushfire Attack Level up to and including BAL-12.5 only. Construction in BAL-19, BAL-29, BAL-40 and BAL-FZ are outside the scope of application of the clause.	Class 9a, 9b, 9c buildings and Class 10a buildings or decks immediately adjacent or connected to Class 9a, 9b or 9c buildings
Volume 1 – NSW G5D3 & Volume 2 – NSW H7D4 (2)	Class 1, 2, 3 buildings, Class 4 part of a building & Class 10a buildings or decks immediately

	Stryum wall cladding system is permitted for use as external wall cladding in buildings in designated bushfire prone areas, subject to Bushfire Attack Level up to and including BAL–19, determined in accordance with Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with: 1) AS3959: 2018 including Amendments 1 & 2, or 2) NASH Standard – Steel Framed Construction in Bushfire Areas (where applicable), except as modified by Planning for Bush Fire Protection 2019, including addendum November 2022. The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of Planning for Bush Fire Protection 2019 including addendum November 2022. Site specific conditions have not been considered for this compliance assessment, these may include: - 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 Planning for Bush Fire Protection 2019 including addendum November 2022 requires a performance-based application in bushfire prone areas subject to Bushfire Attack Level BAL-40 and BAL-FZ. Construction in NSW's bushfire prone areas subject to Bushfire Attack Level BAL-40 and BAL-FZ have not been considered in this assessment.	adjacent or connected to Class 1, 2, 3 buildings or Class 4 part of a building
	Volume 1 – NSW G5D4 In designated bushfire prone areas subject to a Bushfire Attack Level (BAL) up to and including BAL–12.5, determined in accordance with Planning for Bush Fire Protection 2019 including addendum November 2022, Stryum wall cladding system is permitted for use as external wall cladding when the building is constructed in accordance with: 1. For class 9 buildings, Specification 43 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, or 2. For class 10a buildings or decks, AS3959: 2018 including Amendments 1 & 2 except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022 and S43C13, The compliance assessment of the certified system is limited to sections 7.5 and 8.3.2 of Planning for Bush Fire Protection 2019 including addendum November 2022. 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. Construction within NSW in BAL–19, BAL-29, BAL-40 and BAL-FZ, are outside the scope of application of this clause.	Class 9 buildings that have a special fire protection purpose and Class 10a buildings or decks immediately adjacent or connected to such buildings
	Volume 1 – VIC G5D4 In designated bushfire prone areas, when the building is constructed in accordance with Specification 43, Stryum wall cladding system is permitted for use as external wall cladding in buildings subject to Bushfire Attack Level not exceeding BAL-12.5. Construction within VIC in BAL-19, BAL-29, BAL-40 and BAL-FZ are outside the scope of application of the clause.	Class 9a, 9b, 9c buildings, Class 4 part of a building and Class 10a buildings or decks immediately adjacent or connected to Class 9a, 9b or 9c buildings
	General Stryum profiles marketed by FVA & not included in the Description of Product section in this Certificate, are excluded from certification. Specifically Concave CC270 and Convex CV270 profiles are excluded from the scope of this certificate.	1, 2, 3, 4, 5, 6, 7, 8, 9 & 10

	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 and installed by suitably qualified and trained building professionals, in accordance with the relevant Stryum wall cladding system technical literature (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.

A3 Product specification

Refer to Stryum wall cladding system technical literature as detailed in Appendix B2. The following structural span tables apply for varying panel dimensions, batten spans and wind pressure limits:

Table 1: Stryüm Allowable Wind Pressure

Span (mm)	Maximim Allowable Wind Pressure (kPa)									
	SH160		SH200		SH300		SE260		ST250	
	W_u	W_s	W_u	W_s	W_u	W_s	W_u	W_s	W_u	W_s
200	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
250	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
300	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
350	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
400	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
450	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
500	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
600	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
700	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
800	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
900	9.000	5.479	9.000	6.084	9.000	6.084	9.000	6.084	9.000	6.084
1000	8.744	3.994	9.000	5.774	8.539	4.501	9.000	6.084	8.458	4.920
1100	7.227	3.001	9.000	4.338	7.142	3.382	8.241	5.571	6.990	3.696
1200	6.073	2.311	8.155	3.341	6.358	2.605	7.554	5.106	5.873	2.847
1300	5.174	1.818	6.948	2.628	5.417	2.049	6.973	4.714	5.005	2.239
1400	4.461	1.456	5.991	2.104	4.671	1.640	6.475	4.377	4.315	1.793
1500	3.886	1.183	5.219	1.711	4.069	1.334	6.043	4.085	3.759	1.458
1600	3.416	0.975	4.587	1.410	3.576	1.099	5.665	3.830	3.304	1.201
1700	3.026	0.813	4.063	1.175	3.168	0.916	5.082	3.325	2.927	1.001
1800	2.699	0.685	3.624	0.990	2.826	0.772	4.533	2.801	2.610	0.844
1900	2.422	0.582	3.253	0.842	2.536	0.656	4.069	2.382	2.343	0.717
2000	2.186	0.499	2.936	0.722	2.289	0.563	3.672	2.042	2.114	0.615

KEY:

Screw Capacity in pullout from S-batten, 1.0mm BMT G550 (kN)		
Type	1x screw	2x screws
No.10	1.122	2.244
No.12	1.286	2.572
No.14	1.473	2.946

Design Wind Pressure		Maximum Stryüm S-Section Spacing (mm) - 35 x 25 x 1.0 mm BMT G550								
ULS, W_u (kPa)	SLS, W_s (kPa)	Stryüm S-Section Span / Support Spacing (mm)								
		300	400	450	600	900	1200	1500	1800	2100
1.00	0.68	2000	2000	2000	2000	2000	1910	1260	730	460
1.50	1.01	2000	2000	2000	2000	1970	1270	840	480	300
2.00	1.35	2000	2000	2000	2000	1480	950	630	360	230
2.50	1.69	2000	2000	2000	2000	1180	760	500	290	NS
3.00	2.03	2000	2000	2000	1770	980	630	420	240	NS
3.50	2.37	2000	2000	2000	1520	840	540	360	200	NS
4.00	2.70	2000	2000	1960	1330	740	470	310	NS	NS
4.50	3.04	2000	2000	1740	1180	660	420	280	NS	NS
5.00	3.38	2000	1830	1570	1060	590	380	250	NS	NS
5.50	3.72	2000	1660	1420	960	540	340	230	NS	NS
6.00	4.06	2000	1520	1310	880	490	310	210	NS	NS
6.50	4.39	2000	1410	1200	810	450	290	NS	NS	NS
7.00	4.73	1880	1310	1120	760	420	270	NS	NS	NS
7.50	5.07	1750	1220	1040	700	390	250	NS	NS	NS
8.00	5.41	1640	1140	980	660	370	230	NS	NS	NS
8.50	5.75	1540	1070	920	620	340	220	NS	NS	NS
9.00	6.08	1460	1010	870	590	330	210	NS	NS	NS

NS = Not Suitable

Screw fixing key: 2 x No.10 | 2 x No.12 | 2 x No.14 | 4 x No.12 (minimum specification)

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:

- Stryum Cladding System Technical Manual, August 2024
- Stryum Trims Guide, August 2024

A6 Other relevant technical data

Refer to the Technical Literature listed in Appendix B2:

- Stryum Cladding System Technical Manual, August 2024
- Stryum Trims Guide, August 2024

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 2022:

Code Clause		Assessment Method(s)	Evidence of suitability	Evidence reference in B2
BCA Volume One	B1P1	A2G2 (2) (a), (b)(i) & (c)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
BCA Volume Two	H1P1	A2G2 (2) (a), (b)(i) & (c)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
BCA Volume One	B1P2	A2G2 (2) (a), (b)(i) & (c)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
BCA Volume One	F3P1	A2G2 (2) (a), (b)(i) & (c)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 5, 10, 11 & 12
BCA Volume Two	H2P2	A2G2 (2) (a), (b)(i) & (c)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 5, 10, 11 & 12
BCA Volume One	B1D2	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
BCA Volume One	B1D4 (e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
Housing Provisions	2.2.4 (k)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
BCA Volume One	C2D10 (6)(e)	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7, 8 & 9
BCA Volume Two	H3D2 (1)(e)	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7, 8 & 9
BCA Volume One	G5D3	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7 & 8
BCA Volume Two	H7D4 (2)	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7 & 8
BCA Volume One	G5D4	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7 & 8
BCA Volume One	NT B1D4 (e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
BCA Volume One	QLD B1D4 (e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
BCA Volume One	WA B1D4 (e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
Housing Provisions	WA 2.2.4 (k)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4, 5 & 6
BCA Volume One	NSW G5D3	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7 & 8
BCA Volume Two	NSW H7D4 (2)	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7 & 8
BCA Volume One	NSW G5D4	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7 & 8
BCA Volume One	VIC G5D4	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 7 & 8

B2 Reports

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

Ref	Author	Reference	Date	Description	NATA Registration
1.	Fairview	Stryum Technical Manual	Aug 2024	Technical manual	–
2.	Fairview	Stryum Trims Guide	Aug 2024	Accessories catalogue	–
3. *	Ian Bennie & Assoc	2016-020-S4-S6	5 Apr 2016	Structural test report	2371
4. *	Ian Bennie & Assoc	2016-020-S7	5 Apr 2016	Structural test report	2371
5. *	Enertren	FAR-110 v.4	17 Oct 2022	Structural & Weatherproofing Compliance Report	–
6. *	Rickard Engineering	24099_CAL02-240506	6 May 2024	Structural Compliance Report	–
7. *	CSIRO	FNC11417A	11 Jun 2015	Fire test report	165
8. *	CSIRO	FNC11437A	22 Jul 2015	Fire test report	165
9. *	CSIRO	FNE12443	10 Sep 2019	Fire test report	165
10. *	VIPAC Engineers	30B-19-0059-TRP-6774700-1	1 April 2020	Weatherproofing Test Report	676
11. *	VIPAC Engineers	30B-19-0059-TRP-6774699-0	2 April 2020	Weatherproofing Test Report	676
12. *	Ian Bennie & Assoc	2018-100-S2	27 Feb 2019	Weatherproofing Test Report	2371

* 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.