



Certificate of Conformity

Certification Body:



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Certificate Holder:

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Certificate number: CM30126 Rev 2

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. Typically, Stryum is used on Class 2 – 9 buildings.

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)	F3P1	Weatherproofing		
Deemed-to-Satisfy Provision(s):	B1D2	Structure – Resistance to Actions		
	B1D4 (e)	Determination of structural resistance of materials and forms of construction		
	C2D10 (6)(e)	Non-combustible building elements		
	G5D3	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: 18/10/2023

Date of expiry: 08/12/2025



		G5D4	Construction in Bushfire Prone Areas Protection – Certain class 9 buildings		
State or territory variation(s):	NT B1D4 (e) QLD B1D4 (e) WA B1D4 (e)		Determination of structural resistance of materials and forms of construction		
	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		
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 – B1D2 & B1D4 (e) The Stryum wall cladding system is suitable for both Non-cyclonic and Cyclonic wind classifications within the following wind pressure limits: <ol style="list-style-type: none"> 1. Non-cyclonic wind regions <ul style="list-style-type: none"> o Refer to the Stryum structural span tables as detailed in Appendix A3 2. Cyclonic wind regions <ul style="list-style-type: none"> o Serviceability Limit State wind pressure limit (rigid air barrier) +2.18 kPa o Ultimate Limit State wind pressure limit -7.96 kPa Wind load 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 loads.					2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – B1P1 (2)(e), (f) & (i) Snow, liquid pressure and earth pressure actions are excluded.					2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – B1P4 Compliance for flood hazard areas is excluded.					2, 3, 4, 5, 6, 7, 8 & 9
Volume 1 – C2D10					2, 3, 4, 5, 6, 7, 8 & 9

	<p>This Certification is based upon the system being installed using components & accessories specified in the "System Components" section of the Stryum wall cladding system technical literature (refer Appendix B2).</p> <p>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.</p>	
	<p>Volume 1 – C2D10 (1)</p> <p>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.</p>	<p>2, 3, 4, 5, 6, 7, 8 & 9</p>
	<p>Volume 1 – C2D10 (6)</p> <p>Pliable building membranes / "Sarking-type materials" must not exceed 1mm in thickness and must have a Flammability index not greater than 5.</p>	<p>2, 3, 4, 5, 6, 7, 8 & 9</p>
	<p>Volume 1 – F3P1</p> <p>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:</p> <ol style="list-style-type: none"> 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 -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. For project Ultimate Limit State wind pressure limits not exceeding -5.25 kPa to + 4.5 kPa, and 5. when structural design of external wall components resist the relevant ULS wind pressures 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 pressures, and 6. includes only windows that comply with AS 2047, and 7. installation of Horizontal cavity battens must promote drainage of moisture towards the Stryum cladding panels, and 8. the wall system design & installation shall comply with the Stryum wall cladding system technical literature (refer Appendix B2). 	<p>2, 3, 4, 5, 6, 7, 8 & 9</p>
	<p>Volume 1 – G5D3</p> <p>In designated bushfire prone areas, when the building is constructed in accordance with AS3959: 2018 including Amendments 1 & 2, Stryum wall cladding system is permitted for use as external wall cladding only in buildings subject to Bushfire Attack Level BAL-Low, BAL-12.5 & BAL-19.</p> <p>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.</p>	<p>2, 3 & 10a or deck immediately adjacent or connected to building class 2 or 3</p>
	<p>Volume 1 – NSW G5D3</p> <p>In designated bushfire prone areas, subject to Bushfire Attack Level determined in accordance with the Planning for Bush Fire Protection 2019 including addendum November 2022, when the building is constructed in accordance with AS3959: 2018 including Amendments 1 & 2, except as modified by Planning for Bush Fire Protection 2019 including addendum November 2022, Stryum wall cladding system is permitted for use as external wall cladding in buildings subject to Bushfire Attack Level not exceeding BAL-19.</p> <p>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.</p> <p>Site specific conditions have not been considered for this compliance assessment, these may include:</p>	<p>2, 3, Class 4 part of a building & 10a building or deck immediately adjacent or connected to building of class 2, 3 or Class 4 part of a building</p>



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	<ul style="list-style-type: none"> ○ 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 	
	<p>Volume 1 – NSW G5D4</p> <p>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 2019 including addendum November 2022, when the building is constructed in accordance with:</p> <ol style="list-style-type: none"> 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, <p>Stryum wall cladding system is permitted for use as external wall cladding.</p> <p>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.</p> <p>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.</p>	<p>Class 9 building that is a special fire protection purpose; and a Class 10a building or deck immediately adjacent or connected to such building</p>
	<p>General</p> <p>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 certification.</p>	<p>2, 3, 4, 5, 6, 7, 8 & 9</p>
	<p>General</p> <p>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).</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 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: Stryum Allowable Wind Pressure

Span (mm)	Maximum Allowable Wind Pressure (kPa)											
	SH140		SH200		SH300		SE250		ST250			
	W _s	W _e	W _s	W _e	W _s	W _e	W _s	W _e	W _s	W _e	W _s	W _e
200	9.000	6.084	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	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	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	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	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	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	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	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	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	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	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	4.888	7.142	3.882	8.241	5.571	6.990	3.696		
1200	6.073	2.311	8.155	3.941	6.358	2.605	7.554	5.306	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	4.463	1.456	5.991	2.254	4.671	1.640	6.475	4.377	4.315	1.793		
1500	3.886	1.183	5.219	1.711	4.089	1.314	6.043	4.085	3.759	1.458		
1600	3.434	0.975	4.587	1.450	3.576	1.099	5.665	3.830	3.304	1.201		
1700	3.026	0.813	4.068	1.175	3.168	0.916	5.325	3.525	2.927	1.001		
1800	2.659	0.685	3.624	0.990	2.826	0.772	4.533	2.801	2.610	0.844		
1900	2.432	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 Stryum S-Section Spacing (mm) - 35 x 25 x 1.0 mm BMT G550									
ULS, W _s (kPa)	SLS, W _s (kPa)	Stryum S-Section Span / Support Spacing (mm)									
		300	400	450	500	900	1200	1500	1800	2100	
1.00	0.68	2000	2000	2000	2000	2000	1910	1200	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	

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

NS = Not Suitable

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, November 2022
- Stryum Trims Guide, March 2020

A6 Other relevant technical data

Refer to the Technical Literature listed in Appendix B2:

- Stryum Cladding System Technical Manual, November 2022
- Stryum Trims Guide, March 2020

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 F3P1	A2G2 (2) (a), (b)(i) & (c)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 5, 9, 10 & 11
BCA Volume One B1D2	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Volume One B1D4 (e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Volume One C2D10 (6)(e)	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 6, 7 & 8
BCA Volume One G5D3	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 6 & 7
BCA Volume One G5D4	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 6 & 7
BCA Volume One NT B1D4 (e) QLD B1D4 (e) WA B1D4 (e)	A2G3 (2) (a) & (b)	A5G3 (1) (d) & (e) – Test Reports & Expert Judgement	Items 1, 2, 3, 4 & 5
BCA Volume One NSW G5D3 NSW G5D4 VIC G5D4 SA G5D5	A2G3 (2) (a)	A5G3 (1) (d) – Test Reports	Items 6 & 7

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	Nov 2022	Technical manual	–
2.	Fairview	Stryum Trims Guide	Mar 2020	Accessories catalogue	–
3.	Ian Bennie & Assoc	2016-020-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.	CSIRO	FNC11417A	11 Jun 2015	Fire test report	165
7.	CSIRO	FNC11437A	22 Jul 2015	Fire test report	165
8.	CSIRO	FNE12443	10 Sep 2019	Fire test report	165
9.	VIPAC Engineers	30B-21-0049-TRP-12542-0	21 May 2021	Weatherproofing Test Report	676
10.	VIPAC Engineers	30B-21-0049-TRP-12639-0	21 May 2021	Weatherproofing Test Report	676
11.	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.