

# PRODUCT CERTIFICATE

## Stryum Aluminium Panel Cladding System



CERTIFICATE: CMNZ 30148  
Version No: RevA

3	DESCRIPTION OF BUILDING METHOD OR PRODUCT
	<p>The Stryum Aluminium Panel Cladding System consists of solid aluminium cladding panels with either anodised or powder coated surface finish consisting of 8 interlocking profiles:</p> <ul style="list-style-type: none"> <li>Shadow 160, Shadow 200, Shadow 300, Shadow 90/90, Shadow 175/95, Seam 260, Seam 130/130 and Step 250.</li> </ul> <p>Stryum Aluminium Cladding Panels are secured with concealed fixings, accessories supplied include S section battens, universal trims, shadow trims, seam trims and step trims. The Stryum Aluminium Panel Cladding System is installed over either a flexible or a rigid wall underlay.</p> <p>Note: The Stryum Woodgrain finish is outside the scope of this certificate.</p>
4	INTENDED USE OF BUILDING METHOD OR PRODUCT
	The Stryum Aluminium Panel Cladding System is a solid aluminium interlocking linear cladding system used as an external wall cladding for buildings.
5	NEW ZEALAND BUILDING CODE PROVISIONS
	<p>The Stryum Aluminium Panel Cladding System if designed, used, installed and maintained in accordance with the conditions of this Certificate will comply with the following performance provisions of the NZ Building Code:</p> <p>Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 &amp; B1.3.4, for the relevant physical conditions of B1.3.3 (a), (f), (h), (j) &amp; (q)</p> <p>Clause B2 DURABILITY: Performance B2.3.1 (b), B2.3.2 (b)</p> <p>Clause C3 FIRE: Performance C3.5 &amp; C3.7 (a)</p> <p>Clause E2 EXTERNAL MOISTURE: Performance E2.3.2, E2.3.5, E2.3.6 &amp; E2.3.7</p> <p>Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1</p>

1	CERTIFICATE HOLDER DETAILS
	<p><b>Paneltec New Zealand Limited</b> 10 Mako Street Dargaville, 0372 New Zealand Phone: +64 9 439 4357 Email: <a href="mailto:info@paneltec.co.nz">info@paneltec.co.nz</a> Web: <a href="https://paneltec.co.nz">https://paneltec.co.nz</a></p>

ORIGINAL ISSUE DATE	VERSION DATE	RECERTIFICATION
20/03/2023	20/03/2023	20/03/2026
8	SIGNATURE	
		
	Herve Michoux, Global Mark Managing Director	

2	PRODUCT CERTIFICATION BODY
	<p><b>Global-Mark Pty Ltd</b> 57 Willis Street, Wellington, 6011 customer.service@global-mark.co.nz +64 9 889 0622 <a href="http://www.global-mark.co.nz">www.global-mark.co.nz</a></p> <p>The complaints process for this certificate can be found here: <a href="https://www.global-mark.com.au/?s=complaint">https://www.global-mark.com.au/?s=complaint</a></p>

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### 6 CONDITIONS AND LIMITATIONS OF USE

- 1) The Stryum Aluminium Panel Cladding System is certified for use as an external wall cladding on buildings:
  - a) Designed:
    - i) in accordance with NZS 3604:2011 for timber framed buildings, or
    - ii) in accordance with NZS 3404:2009 Part 1 and NASH Standard Part 2: May 2019 Light Steel Framed Buildings, or
    - iii) in accordance with NZS 4229:2013 for masonry buildings, and
    - iv) with Substrate and cladding framing deflections not exceeding Span/250, and
    - v) located in Wind zone (NZS 3604:2011) up to and including Very High, or
  - b) Designed by Specific Engineering Design in accordance with B1/VM1, with the following limitations;
    - i) building height up to 25 metres, and
    - ii) Substrate and cladding framing deflections not exceeding Span/250, and
    - iii) where a flexible wall underlay is used with the Stryum Aluminium Panel Cladding System, the following wind pressure limits apply;
      - (1) SLS wind pressure: -2.5 to +2.0 kPa, and
      - (2) ULS wind pressure: -5.25 to +4.0 kPa, and
    - iv) where a rigid wall underlay is used with the Stryum Aluminium Panel Cladding System, the following wind pressure limits apply;
      - (1) SLS wind pressure: -4.0 to +3.5 kPa, and
      - (2) ULS wind pressure: -5.25 to + 4.0 kPa
- 2) The Stryum Aluminium Panel Cladding System is certified for use as an external wall cladding on buildings:
  - a) with a flexible wall underlay or rigid wall underlay that complies with:
    - i) NZBC Acceptable Solution E2/AS1, 3rd Edition, amendment 10, 5 November 2020, Table 23 for timber framed buildings, or
    - ii) NASH Building Envelope Solutions:2019, Table 23 for steel frames buildings
  - b) located anywhere with respect to a relevant boundary, and
  - c) when building height exceeds 10 metres and upper levels contain sleeping uses or “other property”, horizontal fire control joints must be installed at 3.5 metre max vertical spacing, and
  - d) located in Exposure Zones B, C & D (except for microclimates) as defined in NZS 3604:2011 section 4.2, provided all fasteners and fixings are in accordance with NZS 3604:2011 Section 4, and
  - e) with aluminium window and door joinery that meets the requirements of NZS 4211:2008 and installed with suitable vertical jambs and horizontal heads and sills flashings.
- 3) The Stryum Aluminium Panel Cladding System with panel installation other than vertical or horizontal, and on non-vertical surfaces (eg. parapet capping) is outside the scope of this certificate.
- 4) The Stryum Aluminium Panel Cladding System must be specified, installed and maintained in accordance with the following documentation referenced as the applicable technical literature:
  - Paneltec Stryum – Technical Information, version 1.1, November 2022
  - Paneltec Stryum – Design Guide, version 1.1, November 2022
  - Paneltec Stryum – Specification Guide, version 1.1, November 2022

# PRODUCT CERTIFICATE

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5) The designer shall provide a signed declaration for submission with the building consent application that the use of this product in the proposed building work falls within the scope of this certificate and that all design conditions of this certificate have been met.			
6) The installer shall supply a signed Declaration that the product has been installed in accordance with this certificate, for consideration for issuing a Code Compliance Certificate (CCC).			
7 HEALTH AND SAFETY INFORMATION			
Standard industry safety practices and manufacturer safety requirement as detailed in the technical literature including the applicable MSDS and SDS must be observed at all times. Please refer to:			
<ul style="list-style-type: none"><li>Material Safety Data Sheet – Stryum Solid Aluminium, 17 September 2015</li></ul>			
9 BASIS FOR CERTIFICATION			
The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)			
Code Clause		Compliance pathway	Evidence
Clause B1 STRUCTURE:		Alternate solution – Testing, assessment and Expert judgement	Items 1, 2, 3, 5, 6 & 7
Clause B2 DURABILITY:		Alternate solution – Expert judgement	Items 1, 2, 3, 4 & 8
Clause C3 FIRE:		Acceptable solution – Testing and assessment Verification method – Testing and assessment	Items 9, 10 & 11
Clause E2 EXTERNAL MOISTURE:		Alternate solution – Testing, assessment and Expert Judgement Acceptable solution – Testing and assessment	Items 1, 12, 13 & 14
Clause F2 HAZARDOUS BUILDING MATERIALS:		Alternate solution – Expert judgement	Items 1 & 15
10 SUPPORTING DOCUMENTATION FOR CERTIFICATION			
Ref	Author	Title	Date and/or revision
1.	Paneltec	Stryum Interlocking Aluminium Panel Cladding System – TECHNICAL INFORMATION	Version 1.1, November 2022
2.	Paneltec	Stryum Interlocking Aluminium Panel Cladding System – DESIGN GUIDE	Version 1.1, November 2022
3.	Paneltec	Stryum Interlocking Aluminium Panel Cladding System – SPECIFICATION GUIDE	Version 1.1, November 2022
4.	Paneltec	Stryum Panel – WARRANTY	Version 1.2
5.	Ian Bennie & Associates	Test Report 2016-020-S4-S6	5 April 2016
6.	Ian Bennie & Associates	Test Report 2016-020-S7	5 April 2016
7.	The Building Business	Stryum – Structural Conditions	13 Mar 2023
8.	AkzoNobel	Interpon Commercial Collection – Powder Coating	October 2018
9.	CSIRO	Fire Test Report FNC11417	10 June 2015
10.	CSIRO	Fire Test Report FNC11437	22 July 2015
11.	CSIRO	Fire Test Report FNE12443	10 September 2019

# PRODUCT CERTIFICATE

## Stryum Aluminium Panel Cladding System

12.	VIPAC Engineers & Scientists	Weatherproofing test report 30B-19-0059-TRP-6774700-1	1 April 2020
13.	VIPAC Engineers & Scientists	Weatherproofing test report 30B-19-0059-TRP-6774699-0	2 April 2020
14.	Ian Bennie & Associates	Weatherproofing test report 2018-100-S2	27 February 2019
15.	Fairview	Material Safety Datasheet – Stryum Solid Aluminium	17 September 2015

11	<b>SUPPORTING INFORMATION ABOUT DESCRIPTION (OPTIONAL)</b>
<p>The Stryum Aluminium Panel Cladding System panels are solid aluminium cladding panels with either anodised or powder coated surface finish and may be fixed to either timber frames, steel frames or masonry structure with proprietary fixing brackets, fasteners, flashing and trim profiles, as detailed in:</p> <ul style="list-style-type: none"> <li>Paneltec Stryum – Technical Information, version 1.1, November 2022</li> <li>Paneltec Stryum – New Zealand Trims Guide, February 2022</li> </ul>	
12	<b>SUPPORTING INFORMATION ABOUT INTENDED USE (OPTIONAL)</b>
<p>The Stryum Aluminium Panel Cladding System accessories and approved construction components are detailed in the following technical documentation:</p> <ul style="list-style-type: none"> <li>Paneltec Stryum – Technical Information, version 1.1, November 2022</li> <li>Paneltec Stryum – Design Guide, version 1.1, November 2022</li> <li>Paneltec Stryum – Specification Guide, version 1.1, November 2022</li> </ul>	
13	<b>SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE (OPTIONAL)</b>
<p>In addition to the limitations of Condition 1 (b), other design features and parameters that limit the scope of E2/VM2 (BRANZ EM7) may also limit the scope of this certificate and must be taken into account by the designer.</p>	

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