

Certificate no: CMNZ30118

Version: C

Original issue date: 15 December 2020

Version date: 9 May 2025

Renewal Date: 22 July 2027

1. Certificate Holder Details



Paneltec New Zealand Ltd

Trading as Paneltec

10 Mako Street, Dargaville, 0310

info@paneltec.co.nz

Tel: +64 0508 726 358

www.paneltec.co.nz

2. Product Certification Body

Global-Mark Pty Ltd

Trading as Global-Mark

57 Willis Street, Wellington, 6011

customer.service@global-mark.co.nz

+64 9 889 0622

www.global-mark.co.nz

Complaints: The complaints process for this certificate can be found here:

www.global-mark.co.nz/complaints

Global-Mark Managing Director.

Herve Michoux

Product Certificate

INDURACORE G2

3. Description of Building Method or Product

The INDURACORE G2 external cladding system consists of INDURACORE G2 panels which are 4mm thick laminated Aluminium panels installed using either Top Hat or Z-angle fixing systems, installed on timber, steel or other sub-structures (by specific engineering design – SED). Standard panel sizes include width of 1,250mm & 1,500mm and length of 2,500mm, 3,200mm & 4,000mm. Custom panel sizes are available up to 1,500mm x 8,000mm.

4. Intended use of Building Method or Product

The INDURACORE G2 external cladding system is used as an external wall cladding & internal wall lining in all building types (except when located adjacent to sanitary features or sanitary appliances; or where it is likely to be splashed or become contaminated during use; or behind cooking appliances), subject to the conditions and limitations of use detailed in section 6 of this certificate.

5. New Zealand Building Code Provisions

The system, if designed, used, installed and maintained in accordance with the conditions of this Certificate will comply with or contribute to compliance with the following performance provisions of the NZ Building Code:

Clause B1 STRUCTURE:

Performance B1.3.1, B1.3.2 & B1.3.4

for the relevant physical conditions of B1.3.3 (a), (f), (h), (j) & (m)

Clause B2 DURABILITY:

Performance B2.3.1(b) 15 years & B2.3.2(a)

Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE:

Performance C3.4 (a), C3.5 (contributes to) & C3.7 (b) & (c)

Clause E2 EXTERNAL MOISTURE:

Performance E2.3.2, E2.3.5 (contributes to), E2.3.6 (contributes to) & E2.3.7

Clause F2 HAZARDOUS BUILDING MATERIALS:

Performance F2.3.1

6. Conditions and Limitations of Use

1. The INDURACORE G2 external cladding system is certified for use as an external wall cladding on buildings:
 - a. Designed, while considering the design limits of the cladding system:
 - 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 for Light Steel Framed Buildings, or
 - iii. by SED in accordance with B1/VM1 Amendment 21, 2 November 2023 by an appropriate chartered professional engineer, and
 - iv. for a specific wind pressure up to a maximum ULS of 2.5 kPa and SLS of 1.5 kPa with a deflection limit of L/250; and

JAS-ANZ



This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004. This certificate may only be reproduced in its entirety. It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website <http://www.building.govt.nz>. The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In issuing this certificate, Global-Mark has relied on the independent expert and/or laboratory advice or reports. 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.

Certificate no: CMNZ30118

Version: C

Original issue date: 15 December 2020

Version date: 9 May 2025

Renewal Date: 22 July 2027

Product Certificate

INDURACORE G2



- b. within the scope limitations of the NZBC Acceptable Solution E2/AS1, third edition, Amendment 10, 5 November 2020, Paragraph 1.1, with a risk score of up to 20, calculated in accordance with the NZBC Acceptable Solution E2/AS1, Table 2; for all Wind Zones up to, and including Extra High (as defined in NZS 3604:2011) provided that:
 - i. A rigid air barrier is used when located in an Extra High Wind Zone, or
 - ii. Either a flexible building wrap or rigid air barrier in wind zones other than Extra High, and
 - c. where Type A Cladding and/or Limited Combustibility materials (as set out in C/AS2, First Edition, Amendment 3, 2 November 2023) are permitted and located anywhere with respect to a relevant boundary (subject to other components of the external wall satisfying fire related code compliance requirements), and
 - d. in all Exposure Zones (except for microclimates) as defined in NZS3604:2011 paragraph 4.2.4, provided all fixings are in accordance with section 4 of NZS3604:2011, and
 - e. with aluminium window and door joinery that meets the requirements of NZS 4211:2008 including Amendment 1 or has a current Product Certificate or with traditional timber joinery as set out in BRANZ bulletin BU658, dimensioned for the wind pressure considered.
 2. The INDURACORE G2 external cladding system is certified for use as an internal wall lining in buildings, where Group Number 1-S materials are permitted as set out in Performance Clause C3.4 (a) and in any area of the building (except located adjacent to sanitary features or sanitary appliances; or where it is likely to be splashed or become contaminated during use; or behind cooking appliances),
 3. The INDURACORE G2 external cladding system must be specified, installed and maintained in accordance with the following documentation referenced as the INDURACORE G2 applicable technical literature:
 - a. INDURACORE G2 Technical Manual v3.0, and
 - b. INDURACORE G2 Top Hat System - Installation Manual, v2.5, and
 - c. INDURACORE G2 Z-angle Fixing System - Installation Manual, v2.5, and
 - d. INDURACORE G2 Warranty & Maintenance Guide v1.5.
 4. When required, intumescent cavity barriers as specified in the INDURACORE G2 Technical Manual v3.0 shall be installed in accordance with NZBC Acceptable Solution C/AS2, First Edition, Amendment 3, 2 November 2023, Section 5.8.5.
 5. INDURACORE G2 wall cladding shall be installed by Paneltec trained & approved building professionals, in accordance with the INDURACORE G2 applicable technical literature.
 6. 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.
 7. The installer shall supply a signed Declaration that the product has been installed in accordance with the installation conditions of this certificate, for consideration for issuing a Code Compliance Certificate (CCC).

7. Health and Safety Information

Standard industry safety practices and manufacturer safety requirements as detailed in the technical literature including the applicable SDS must be observed. Refer to Paneltec Industries Material Safety Data Sheet (MSDS) for INDURACORE G2, version 1.1 of 12 March 2020.



This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004. This certificate may only be reproduced in its entirety. It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website <http://www.building.govt.nz>. The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In issuing this certificate, Global-Mark has relied on the independent expert and/or laboratory advice or reports. 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.

Certificate no: CMNZ30118

Version: C

Original issue date: 15 December 2020

Version date: 9 May 2025

Renewal Date: 22 July 2027

8. 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
B1 STRUCTURE	B1/VM1, Amendment 21, 2 November 2023 Expert calculations & reference to AS/NZS 1170 & AS/NZS 1664.1	1, 2, 3, 4, 5, 6 & 7
B2 DURABILITY	B2/VM1, Second edition, amendment 12, 28 November 2019 Expert judgement & analysis of testing in accordance with AAMA 2605-17	1, 2, 3, 4, 5, 6, 8 & 9
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	C/AS1, Second edition, 2 November 2023, and C/AS2, First edition, amendment 3, 2 November 2023 Assessment of Fire Testing in accordance with, EN13501-1 & BS8414	1, 2, 3, 4, 5, 6, 10, 11, 12, 13, 14 & 15
E2 EXTERNAL MOISTURE	E2/VM1, Third edition, amendment 10, 5 November 2020 Analysis of test reports and expert judgement	1, 2, 3, 4, 5, 6, 7, 16, 17 & 18
F2 HAZARDOUS BUILDING MATERIALS	Alternative solution based on expert judgement through analysis of product MSDS	1, 4, 5, 6, & 19

9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
01.	Paneltec New Zealand Ltd	Induracore G2 Technical Manual	Version 3.0 – April 2025
02.	Paneltec New Zealand Ltd	Induracore G2 Top Hat Fixing System – Installation Details	Version 2.5 – April 2025
03.	Paneltec New Zealand Ltd	Induracore G2 Z-angle Fixing System – Installation Details	Version 2.5 – April 2025
04.	Paneltec New Zealand Ltd	Induracore G2 (ALP) Panel Warranty	Version 1.5
05.*	Oculus Architectural Engineering	Induracore G2 Aluminium Laminated Panels (Z angle Fixing System)	J231008 4 July 2024

Certificate no: CMNZ30118

Version: C

Original issue date: 15 December 2020

Version date: 9 May 2025

Renewal Date: 22 July 2027

Product Certificate

INDURACORE G2



06.*	Oculus Architectural Engineering	Induracore G2 Aluminium Laminated Panels (Top Hat Fixing System)	J231008 22 July 2024
07.*	Building Product Certification	Spanning capabilities of Vitracore G2 wall cladding	0320B-R1A 10 June 2016
08.*	Enertren Pty Ltd	Durability Assessment Report, titled Vitracore G2 Durability	FAR-053 9 September 2018
09.*	Unisearch (UNSW)	Durability assessment report	J091342 21 December 2017
10.*	BRE	Classification of reaction to fire performance in accordance with EN 13501-1:2007 + A1:2009 on Vitracore G2	P101111-1001-5 Issue 2 4 November 2016
11.*	WarringtonFire	Classification of Reaction to Fire Performance in accordance with EN 13501-1:2018, on Vitracore G2	418244 9 September 2019
12.*	BRANZ	Assessment of the use of Vitracore G2 as an external wall cladding within the NZBC Acceptable Solutions C/AS2, Clause 5.8.2 (b)	FC10423-001 20 August 2018
13.*	Exova WarringtonFire	Fire propagation testing in general accordance with BR135 & BS8414-2:2015 of a 160mm thick external wall system clad with Fairview Architectural Vitracore G2 panels	51804401.1 5 April 2018
14*.	WarringtonFire	Classification report, titled Classification report in accordance with BR135:2013 Annex B	BRCRRTF190174a_R2.0 31 October 2019
15*.	Southbrook Fire Research Ltd	Fire Resistance Test Report	23SFR00074 Ver1.1 15 November 2023
16.*	FacadeLab	Weather Tightness Test Report, titled Testing of Vitrabond, L-Bracket sealed ACP system in accordance with AS/NZS 4284: 2008 "Testing of Building Facades"	18-02 20 April 2018
17.*.	VIPAC	Fairview – AS/NZS 4284 testing of Facades, Vitracore G2 with Flexible Membrane	30B-19-0059-TRP-6774694-0 2 April 2020
18.*	VIPAC	Paneltec New Zealand Ltd – AS/NZS4284 and E2/VM1 Facade test Induracore G2 with Rigid Membrane	30B-20-0043-TRP-6795133-0 10 November 2020

JAS-ANZ



This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004. This certificate may only be reproduced in its entirety. It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website <http://www.building.govt.nz>. The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In issuing this certificate, Global-Mark has relied on the independent expert and/or laboratory advice or reports. 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.

Certificate no: CMNZ30118

Version: C

Original issue date: 15 December 2020

Version date: 9 May 2025

Renewal Date: 22 July 2027

Product Certificate

INDURACORE G2



19. Paneltec Industries

Material Safety Data Sheet – Induracore G2

Version 1.1 – 12 March 2020

* These documents were provided commercial in confidence and are not publicly available

10. Supporting Information About Description (Optional)

INDURACORE G2 panels in the INDURACORE G2 external cladding system are manufactured from pre-coated aluminium coils bonded together with an adhesive. The aluminium surface sheets are of a minimum 3003 series grade aluminium: face skin 0.7 mm thick and rear skin 0.5 mm thick. The aluminium core is profiled 0.3 mm aluminium which is passed through an embossed pattern roller that expands it to 2.8 mm thick. The three aluminium sheets are passed through a heat stage to bond the three layers together.

INDURACORE G2 panels achieves an A2 classification in accordance with BS EN 13501-1 and is suitable for use on external walls in accordance with NZBC Acceptable Solutions C/AS1 Second edition, 2 November 2023, clause 5.3.1.1 (a) and C/AS2 First edition, amendment 3, 2 November 2023, Section 5.8.

The INDURACORE G2 external cladding system accessories include:

Aluminium Z-Angles	IFIX-AZ4025 (1st fix)	IFIX-AZ2310 (2nd fix)	
Aluminium Tophats	T1550/15 (15mm)	T2050/24 (24mm)	T2050/35 (35mm)
Aluminium Stiffener	ASR2819		
Aluminium Angle	AAL3203		

For further technical details and approved construction components, refer to:

- INDURACORE G2 Technical Manual v3.0, and
- INDURACORE G2 Top Hat Fixing System – Installation Manual, v2.5, and
- INDURACORE G2 Z-angle Fixing System – Installation Manual, v2.5, and
- INDURACORE G2 Warranty & Maintenance Guide v1.5,

11. Supporting Information About Intended Use (Optional)

Nil

12. Supporting Information About Conditions and Limitations of Use (Optional)

Nil

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment under the Building Act 2004. This certificate may only be reproduced in its entirety. It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website <http://www.building.govt.nz>. The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In issuing this certificate, Global-Mark has relied on the independent expert and/or laboratory advice or reports. 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.