

Certificate no: CMNZ30118

Version: B

Original issue date: 15 December 2020

Version date: 22 July 2024

Renewal Date: 22 July 2027

1. Certificate Holder Details



Paneltec New Zealand Ltd

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2. Product Certification Body

Global-Mark Pty Ltd

Trading as Global-Mark
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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 a Top Hat or Z-angle fixing system. 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 has been certified as an external wall cladding & as an internal lining on buildings (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).

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 and B1.3.4, for the relevant physical conditions of B1.3.3 (a), (f), (h), (j) & (q)
Clause B2 DURABILITY:	Performance B2.3.1(b) 15 years and B2.3.2(a)
Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE:	Performance C3.4 (a), C3.5 & C3.7 (b) & (c)
Clause E2 EXTERNAL MOISTURE:	Performance E2.3.2, E2.3.5, E2.3.6 and 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. 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



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- b. with timber framing or lightweight steel framing that complies with the NZ Building Code or where the designer and/or installer have assured themselves that the existing building is suitable for the intended building work 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
 - c. of Importance Levels 1 to 2, 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 or has a current Product Certificate or with traditional timber joinery as set out in BRANZ bulletin BU658, dimensioned for the wind pressure considered, and
 - f. located anywhere with respect to a relevant boundary (including within 1m)
2. The INDURACORE G2 external cladding system is certified for use as an internal wall lining in buildings:
 - a. of Importance Levels 1 to 2 and
 - b. in any area of the building, and
 - c. with or without an automatic fire sprinkler system,
3. The INDURACORE G2 external cladding system must be specified, installed and maintained in accordance with the following documentation referenced as the applicable technical literature:
 - a. INDURACORE G2 Technical Manual v2.1, and
 - b. INDURACORE G2 Top Hat System - Installation Manual, v2.0, and
 - c. INDURACORE G2 Z-angle Fixing System - Installation Manual, v2.0, and
 - d. INDURACORE G2 Warranty & Maintenance Guide v1.3;
4. System specification and installation must be carried out by or supervised by a Licensed Building Practitioner who has:
 - a. The relevant license class, and
 - b. Access to current INDURACORE technical documentation, and
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.

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 at all times. Please refer to Paneltec Industries Material Safety Data Sheet (MSDS) for INDURACORE G2, version 1.1 of 12 March 2020.

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



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B1 STRUCTURE	B1/VM1, First edition, amendment 21, 02 November 2023 through 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 through expert judgement & analysis of testing in accordance with AAMA 2605-17	1, 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 Through assessment of Fire Test Reports in accordance with AS1530.1, EN13501 & BS8414	1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 15, 15 & 16
E2 EXTERNAL MOISTURE	E2/VM1, Third edition, amendment 10, 05 November 2020 through analysis of test reports and expert judgement	1, 2, 3, 5, 6, 7, 17, 19 & 20
F2 HAZARDOUS BUILDING MATERIALS	Alternate solution based on expert judgement through analysis of product MSDS	1, 4, 5, & 18

9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
001.	Paneltec Industries Ltd	Induracore G2 Technical Manual,	Version 2.1 – July 2024
002.	Paneltec Industries Ltd	Induracore G2 Top Hat System - Installation Manual	Version 2.0 – January 2021
003.	Paneltec Industries Ltd	Induracore G2 Z-angle Fixing System	Version 2.0 – January 2021
004.	Paneltec Industries	Induracore G2 (ALP) Panel Warranty	Version 1.3 – January 2020
005.	Fairview Architectural	Letter of authority	9 August 2019
006.*	Oculus Architectural Engineering	Letter of compliance	11 February 2019
007.*	Building Product Certification	Spanning capabilities of Vitracore G2 wall cladding building product	0320B-R1A, 10 June 2016
008.*	Enertren Pty Ltd	Durability Assessment Report, titled Vitracore G2 Durability	FAR-053, 9 September 2018
009.*	Unisearch (UNSW)	Durability assessment report	J091342, 21 December 2017



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010.*	CSIRO	Combustibility Test for Materials in Accordance with AS 1530.1-1994 on Vitracore G2	FNC 11476B, 4 November 2015
011.*	CSIRO	Combustibility Test for Materials in Accordance with AS 1530.1-1994 on Vitracore G2	FNC 12446, 18 September 2019
012.*	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
013.*	WarringtonFire	Classification of Reaction to Fire Performance in accordance with EN 13501-1:2018, on Vitracore G2	418244, 9 September 2019
014.*	BRANZ	Assessment of the use of Vitracore G2 as an external wall cladding within the New Zealand Building Code Acceptable Solutions C/AS2, Clause 5.8.2 (b)	FC10423-001, 20 August 2018
015.*	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
016*.	WarringtonFire	Classification report, titled Classification report in accordance with BRCRRTF190174a_R2.0, 31 BR135:2013 Annex B	October 2019
017.*	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
018.	Paneltec Industries	Material Safety Data Sheet – Induracore G2	version 1.1, 12 March 2020
019.*	Vipac	Paneltec New Zealand Ltd – AS/NZS4284 and E2/VM1 Façade test Induracore G2 with Rigid Membrane	30B-20-0043-TRP-6795133-0 10 November 2020
020.*	Vipac	Fairview – AS 4284 testing of Facades	30B-19-0059-TRP-6774694-0 2 April 2020

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

10. Supporting Information About Description (Optional)



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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.

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 v2.1, and
- INDURACORE G2 Top Hat System - Installation Manual, v2.0, and
- INDURACORE G2 Z-angle Fixing System - Installation Manual, v2.0, and
- INDURACORE G2 Warranty & Maintenance Guide v1.3,

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.



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