



PRODUCT CERTIFICATE

INDURACORE G2



KEY INFORMATION

CERTIFICATE: **GM-CM30118 RevA**

1 SUMMARY OF 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 Cassette 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.

2 SUMMARY OF 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.

3 BUILDING CODE PROVISIONS

The INDURACORE G2 external cladding 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 (a), (b), (c), (d) & (e), for the relevant physical conditions of B1.3.3 (a), (f), (h), (j) & (q)
- Clause B2 DURABILITY: Performance B2.3.1 (b)
- Clause C3 FIRE: Performance C3.4 (a), C3.5 & C3.7 (b) & (c)
- Clause E2 EXTERNAL MOISTURE: Performance E2.3.2, E2.3.5 and E2.3.7 (a), (b) & (c)
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1

7 CONDITIONS AND LIMITATIONS OF USE

| 4 CERTIFICATE HOLDER DETAILS |
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| ISSUED | LAST UPDATE | RECERTIFICATION |
|---|-------------|-----------------|
| 15/12/2020 | | 15/12/2020 |
| 5 SIGNATURE | | |
|  Herve Michoux, Global Mark Managing Director | | |

| 6 PRODUCT CERTIFICATION BODY |
|--|
| <p>Global-Mark Pty Ltd 57 Willis Street Wellington, 6011 customer.service@global-mark.co.nz +64 9 889 0622 www.global-mark.co.nz</p> |
| The complaints process for this certificate can be found here: |
| https://www.global-mark.com.au/?s=complaint |



This certificate is issued by an independent certification body accredited by JAS-ANZ, the product certification accreditation 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 It is advised to check that this certificate is currently valid and not withdrawn or suspended by referring to the Register of Product Certificates on the Building Performance website 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>.

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- 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, 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 Window Zone, or
 - ii. Either a flexible building wrap or rigid air barrier in wind zones other than Extra High, and
 - 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, and
 - c) of Importance Levels 1 to 4, 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 BU481, 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 external wall cladding on buildings outside the scope of E2/AS1, Paragraph 1.1;
 - a) provided compliance with E2 External Moisture (E2.3.2, E2.3.5 and E2.3.7 (a), (b) & (c)) is established by specific engineering design, and
 - b) subject to conditions 1 (b) to (f) above
- 3 The INDURACORE G2 external cladding system is certified for use as an internal wall lining in buildings:
 - a) of Importance Levels 1 to 4 and
 - b) in any area of the building, and
 - c) with or without an automatic fire sprinkler system,
- 4 The INDURACORE G2 external cladding system must be specified, installed and maintained in accordance with the following documentation referenced as the applicable technical literature:
 - o INDURACORE G2 Technical Manual v2.0, and
 - o INDURACORE G2 Top Hat System - Installation Manual, v1.0, and
 - o INDURACORE G2 Direct Fixing System - Installation Manual, v1.0, and
 - o INDURACORE G2 Warranty & Maintenance Guide v1.1;
- 5 System specification and installation must be carried out by or supervised by a Licensed Building Practitioner who has:
 - o The relevant license class, and
 - o Access to current INDURACORE technical documentation, and
- 6 A signed Codemark Design Declaration must be supplied by the design LBP as part of the building consent application, and as part of consideration for issuing the Code Compliance Certificate (CCC), a signed Codemark Installation Declaration must be supplied by the LBP who installed or supervised installation.

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| 8 | HEALTH AND SAFETY INFORMATION | | | | | | | | | | | | | | | | |
| Standard industry safety practices and manufacturer safety requirement as detailed in the technical literature including the applicable SDS must be observed at all time. Please refer to Paneltec Industries Material Safety Data Sheet (MSDS) for INDURACORE G2, version 1.1 of 12 March 2020. | | | | | | | | | | | | | | | | | |
| 9 | SUPPORTING INFORMATION ABOUT DESCRIPTION | | | | | | | | | | | | | | | | |
| 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: | | | | | | | | | | | | | | | | | |
| <table border="0"> <tr> <td>Aluminium Z-Angles</td> <td>IFIX-AZ4025 (1st fix)</td> <td>IFIX-AZ2310 (2nd fix)</td> <td></td> </tr> <tr> <td>Aluminium Tophats</td> <td>T1550/15 (15mm)</td> <td>T2050/24 (24mm)</td> <td>T2050/35 (35mm)</td> </tr> <tr> <td>Aluminium Stiffener</td> <td>ASR2819</td> <td></td> <td></td> </tr> <tr> <td>Aluminium Angle</td> <td>AAL3203</td> <td></td> <td></td> </tr> </table> | | Aluminium Z-Angles | IFIX-AZ4025 (1 st fix) | IFIX-AZ2310 (2 nd fix) | | Aluminium Tophats | T1550/15 (15mm) | T2050/24 (24mm) | T2050/35 (35mm) | Aluminium Stiffener | ASR2819 | | | Aluminium Angle | AAL3203 | | |
| Aluminium Z-Angles | IFIX-AZ4025 (1 st fix) | IFIX-AZ2310 (2 nd 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: | | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> o INDURACORE G2 Technical Manual v2.0, and o INDURACORE G2 Top Hat System - Installation Manual, v1.0, and o INDURACORE G2 Direct Fixing System - Installation Manual, v1.0, and o INDURACORE G2 Warranty & Maintenance Guide v1.1, | | | | | | | | | | | | | | | | | |
| 10 | SUPPORTING INFORMATION ABOUT INTENDED USE | | | | | | | | | | | | | | | | |
| Nil | | | | | | | | | | | | | | | | | |
| 11 | SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE | | | | | | | | | | | | | | | | |
| Nil | | | | | | | | | | | | | | | | | |
| 12 | BASIS FOR CERTIFICATION | | | | | | | | | | | | | | | | |
| The certification decision is based independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s), including: | | | | | | | | | | | | | | | | | |
| Clause B1 STRUCTURE: | B1/VM1, First edition, amendment 19, 28 November 2019 through expert calculations & reference to AS/NZS 1170 & AS/NZS 1664.1 | | | | | | | | | | | | | | | | |
| Clause B2 DURABILITY: | B2/VM1, Second edition, amendment 12, 28 November 2019 through expert judgement & analysis of testing in accordance with AAMA 2605-17 | | | | | | | | | | | | | | | | |
| Clause C3 FIRE: | C/AS2, First edition, amendment 1, 22 October 2019 through assessment of Fire Test Reports in accordance with EN13501 & BS8414 | | | | | | | | | | | | | | | | |
| Clause E2 EXTERNAL MOISTURE: | E2/VM1, Third edition, amendment 9, 27 June 2019 through analysis of test reports and expert judgement | | | | | | | | | | | | | | | | |
| Clause F2 HAZARDOUS BUILDING MATERIALS: | Through analysis of product MSDS | | | | | | | | | | | | | | | | |

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| 13 SUPPORTING DOCUMENTATION FOR CERTIFICATION | | | |
|---|--------------------------------------|--|---|
| Ref | Author | Title | Date and/or revision |
| 1 | Paneltec Industries Ltd | Induracore G2 Technical Manual, | Version 2.0 –November 2020 |
| 2 | Paneltec Industries Ltd | Induracore G2 Top Hat System - Installation Manual | Version 1.0 – January 2020 |
| 3 | Paneltec Industries Ltd | Induracore G2 Direct Fixing System - Installation Manual | Version 1.0 – January 2020 |
| 4 | Paneltec Industries Ltd | Induracore G2 Rout & Return Fixing System - Installation Manual | Version 1.0 – January 2020 |
| 5 | The Building Business | PASS Certificate no 19108 – Induracore G2 | Version 1.0 – 12 March 2020 |
| 6 | Paneltec Industries | Induracore G2 (ALP) Panel Warranty | Version 1.0 – January 2020 |
| 7 | Fairview Architectural | Letter of authority | 9 August 2019 |
| 8 | Oculus Architectural Engineering Ltd | Letter of compliance | 11 February 2019 |
| 9 | Building Product Certification | Spanning capabilities of Vitracore G2 wall cladding building product | 0320B-R1A, 10 June 2016 |
| 10 | Enertren Pty Ltd | Durability Assessment Report, titled Vitracore G2 Durability | FAR-053, 9 September 2018 |
| 11 | Unisearch (UNSW) | Durability assessment report | J091342, 21 December 2017 |
| 12 | 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 |
| 13 | WarringtonFire | Classification of Reaction to Fire Performance in accordance with EN 13501-1:2018, on Vitracore G2 | 418244, 9 September 2019 |
| 14 | 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 |
| 15 | 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 |
| 16 | WarringtonFire | Classification report, titled Classification report in accordance with BR135:2013 Annex B | BRCRRTF190174a_R2.0, 31 October 2019 |
| 17 | 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 |
| 18 | Paneltec Industries | Material Safety Data Sheet – Induracore G2 | version 1.1, 12 March 2020 |

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14 CONDITIONS RELATING TO NOTIFICATION

- a) the certificate holder notifies the product certification body in writing of any intended change to any of the following particulars:
 - i. the name, address, or contact details of the certificate holder;
 - ii. any address of a location where a certified product is produced or manufactured;
- b) the certificate holder notifies the product certification body in writing of any intended change, modification, or alteration to any of the following:
 - i. the certified building method or product;
 - ii. the method of its production or manufacture;
 - iii. the product quality plan prepared in respect of the certified building method or product;
 - iv. the application or installation instructions for the certified building method or product;
 - v. any documentation relating to the use and maintenance of the certified building method or product;
- c) if the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body in writing of the reason for that suspicion;
- d) if the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive;
- e) if the certificate is suspended or revoked, the certificate holder—
 - i. notifies all customers to whom the building method or product is regularly supplied; and
 - ii. immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.

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