CodeMark

Certificate no: CMNZ70123
Version: 0
Original issue date: 21 February 2024
Version date: 21 February 2024

Product Certificate

Biowood Shiplap Weatherboards, Castellated profile Cladding and Soffit Systems (BSWCS)

1. Certificate Holder Details

Green Resources Material Australia Pty Ltd

Unit 2,74-80 Helen Street Sefton, NSW 2162 Australia
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Ph: +61 2 9644 6766
www.grmaustralia.com.au

2. Product Certification Body

Bureau Veritas Australia Pty Ltd
11/500 Collins Street
Melbourne VIC 3000 Australia
product.certification@bureauveritas.com
Ph: 1800 855 190
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Complaints: The complaints process for this certificate can be found here:
www.bureauveritas.com.au/your-feedback

Sam Guindi – Bureau Veritas Product Certification Manager

3. Description of Building Method or Product

Name of the product or method in Aotearoa New Zealand, including any brand names used. Description of what it is and the components that make up any system and its physical attributes including the materials and make-up of the product, where applicable. Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use. Continuation of description can be found in item 10 – Supporting Information about Description. [Delete if not applicable]. The building method's or building product's catalogue or model identification number or numbers or other unique identifiers that might be used to identify the building product or building method

The GRM Biowood Shiplap Weatherboards, Castellated profile Claddings and Soffit Systems (BSWCS) are a range of exterior cladding elements, manufactured from a proprietary plastic wood composite material. They are attached to the framing of a building over a nominal 20 mm drained and ventilated cavity.
The BSCWS product range includes Castellated Façade boards and Outdoor Wall Panel Shiplap boards in a range of widths, and in 5850mm lengths.

4. Intended use of Building Method or Product

Intended use of the building method or product as described in the product manual and other instructional materials. A statement of the function or purpose of the building method or product. Continuation of intended use can be found in item 11 – Supporting Information about Intended use. [Delete if not applicable]

The Biowood Shiplap Weatherboards, Castellated profile Claddings and Soffit Systems (BSWCS) are intended for use as external cladding, screening, louvres and soffits.

5. New Zealand Building Code Provisions

The performance clauses of the New Zealand Building Code that are relevant to the intended use and with which the building method or product complies or contributes to (where used as part of a system).

How the building method or product complies or contributes can be found in item 8. Basis for Certification. Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.

Clause B1 Structure: Performance Clauses B1.3.1, B1,3.2, B1.3.3 (a), (h), (j) and (q), B1.3.4
Clause B2 Durability: Performance Clauses B2.3.1(b)
Clause E2 External moisture: Performance Clauses E2.3.2 (contributes to), E2.3.5 (contributes to), E2.3.6 (contributes to), E2.3.7
Clause F2 Hazardous building materials: Performance Clauses F2.3.1

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6. Conditions and Limitations of Use

The building method or product's use is to be in accordance with the installation instructions and requirements against which the building method or product was assessed.

Conditions or limitations of conformity for the performance requirements the building method or product is compliant with, including any requirements for people with the qualifications and skills to install or use the building method or product, any known or demonstrated situations where the building method or product should not be used. A statement as to whether there are any matters that should be taken into account in the use or application of the building product or building method and, if so, what those matters are.

1. The Biowood Shiplap Weatherboards, Castellated profile Claddings and Soffit Systems (BSWCS) is certified for buildings):
    a. with walls designed in accordance with NZS3604:2011 Timber-framed buildings, as modified by Acceptable Solution B1/AS1 Amendment 20 and within the scope of Acceptable Solution E2/AS1, Third Edition Amendment 10 5 November 2020 Paragraph 1.1, or of at least equivalent stiffness to the framing provisions of NZS3604:2011, and situated in Wind Zones (as defined in NZS 3604:2011) up to and including Extra High; or
    b. subject to specific engineering design in accordance with Verification Method B1/VM1 Amendment 20 up to a maximum design differential ultimate limit state (ULS) wind pressure of 2.5 kPa, and
    c. up to 10 m in height, and
    d. with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Third Edition, Amendment 10, 5 November 2020 Table 2, and
    e. situated:
        i. in all exposure zones (excluding microclimates) as defined in NZS3604:2011, Paragraph 4.2.4, and
        ii. more than 1m from a relevant boundary.
2. The Biowood Shiplap Weatherboards, Castellated profile Claddings and Soffit Systems (BSWCS) shall be designed, used, installed and maintained in accordance with the relevant installation manual as listed in section 9 of this certificate)
3. The wall underlay forming the ventilated cavity shall comply with the requirements for wall underlays specified in NZBC Acceptable Solution E2/AS1, Third Edition (including amendment 10), 5 November 2020
4. Biowood Shiplap Weatherboards, Castellated profile Claddings and Soffit Systems (BSWCS) shall only be installed:
    a. on vertical, flat surfaces, and
    b. using stainless steel fixings
5. Only aluminium window and door joinery meeting the requirements of NZS 4211:2008 (including Amendment1) for the relevant Wind Zone or wind pressure and installed with vertical jambs and horizontal heads and sills shall be used with the Biowood Shiplap Weatherboards, Castellated profile Claddings and Soffit Systems (BSWCS).

7. Health and Safety Information

Health, safety, and well-being declarations associated with installation, maintenance, and use of the building method or product, and their specific editions and dates necessary to ensure the performance requirements of clauses F1 to F9 of the Building Code can be met.

The compliance with any manufacturer's installation instructions, maintenance, OH & S statements, MSDS's and other Health and Safety declarations will provide the necessary Health and Safety Information pertaining to the product.

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8. Basis for Certification

How the performance requirements in the Building Code were met for each of the provisions. Where used as part of a system, the specific contribution to compliance.

B1 Structure - By testing and comparison with Verification Methods B1/VM1 and E2/VM1
B2 Durability - By testing and comparison with Verification Method B2/VM1
E2 External moisture - By analysis and comparison with Verification Method E2/VM1 and referenced standard AS/NZS4284
F2 Hazardous building materials - By testing and comparison with the requirements of performance clause F2.3.1

9. Supporting Documentation for Certification

Reference to any acceptable solutions, verification methods, New Zealand Standards, or other compliance pathways referenced against each individual performance requirement the building method or product is compliant with, and their specific version and date. Reference to documents describing tests and evaluations and any other documents relied on for certification or used to prove compliance, including their full title, specific version and date.

1. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure First edition (Amendment 21), 2 November 2023
2. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability Second edition (Amendment 12), 28 November 2019
3. Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 for New Zealand Building Code Clause E2 External Moisture Third edition (Amendment 10), 5 November 2020
4. AS/NZS 4284:2008 Testing of building façades
5. VIPAC Biowood Shiplap Cladding FV1.1 Test Report 30B-20-0057-TRP-47150398-0, 3 March 2021
6. VIPAC Biowood Castellated Cladding FV1.1 Test Report 30B-20-0057-TRP-47241267-0, 16 March 2021
7. ACOR Consultants Reference: NDW202044 Biowood Calculations, 17 March 2022
8. TUV SUD PSB Test Report 7191221324-CHM19-01-RC Fungal Resistance Test 25 September 2019
9. AWTA Test Report 18-002698 Coated Biowood Panels, 11 July 2018
10. AWTA Test Report 21-001050 Spotted Gum UV Sealed with Bioseal Brown, 6 May 2021
11. TUV SUD PSB Test Report 7191141955-CHM16-01-MA-CR1 Evaluation of Wood Plastic Composite Sample, 12 July 2016
12. TUV SUD PSB Test Report 7191022939-03-CHM11-CYT-COR Testing of one bulk material sample for asbestos 21 December 2011
13. Biowood WPO15018 Vertical Installation Manual H3 Timber Frames Version 1.0, 17 February 2021
14. Biowood WPO15018 Horizontal Installation Manual H3 Timber Frames Version 1.1, 17 February 2021
15. Biowood WPO18035 Horizontal Installation Manual H3 Timber & STUDCO Frames Version 1.0, June 2021
16. Biowood WPO18035 Vertical Installation Manual H3 Timber & STUDCO Frames Version 1.0, 16 March 2021
17. Biowood WPO30060 Vertical Installation Manual with H3 Timber & STUDCO Frames, Version 1.1, January 2022
18. Biowood WPO30060 Horizontal Installation Manual with H3 Timber & STUDCO Frames, Version 1.1, January 2022
19. Biowood WPO25018 & WPO20018 Vertical Installation Manual with H3 Timber & STUDCO Frames, Version 1.2, February 2022
20. Biowood HWPO25018 & WPO20018 Horizontal Installation Manual with H3 Timber & STUDCO Frames, Version 1.2, February 2022

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21. Biowood WPO25028 Vertical Installation Manual with H3 Timber & STUDCO Frames, Version .1.1, February 2022
22. Biowood WPO25028 Horizontal Installation Manual with H3 Timber & STUDCO Frames, Version 1.1, March 2022
23. Biowood WPO18518 Vertical Installation Manual with H3 Timber & STUDCO Top Hats Frames, Version 1.1, January 2022
24. Biowood WPO18518 Horizontal Installation Manual with H3 Timber & STUDCO Frames, Version 1.1, January 2022
25. Biowood WPO60018 Horizontal Installation Manual with H3 Timber & STUDCO Frames, Version 1.2, February 2022
26. Biowood WPO60018 Vertical Installation Manual with H3 Timber & STUDCO Frames, Version 1.2, February 2022
27. Biowood WPO200150 Vertical Installation Manual with H3 Timber & STUDCO Frames, Version 1.1, January 2022
28. Biowood WPO18025A Horizontal Installation Manual with H3 Timber & STUDCO Frames, Version 1.1, January 2022
29. Biowood WPO18025A Vertical Installation Manual with H3 Timber & STUDCO Frames, Version 1.1, January 2022

10. Supporting Information About Description (Optional)

Any supporting information for section 3.

This certification covers the following models:

- Castellated - WPO18035, WPO18025A, WPO25028, WPO30060, WPO200150
- Shiplap - WPO15018, WPO18518, WPO20018, WPO25018, WPO60018

11. Supporting Information About Intended Use (Optional)

Any supporting information for section 4.

N/A

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

Any supporting information for section 6.

N/A

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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