



# Certificate of Conformity

Certification Body:



**BUREAU  
VERITAS**

**Bureau Veritas Australia Pty Ltd**  
11/500 Collins Street  
Melbourne VIC, 3000  
Ph: 1800 855 190  
www.bureauveritas.com.au

Certificate Holder:



**Green Resources Material  
Australia Pty Ltd**  
Unit 2, 74-80 Helen Street  
Sefton NSW, 2162  
Ph: 02 9644 6766  
www.grmaustralia.com.au

Certificate number: CM70122 Rev1

THIS TO CERTIFY THAT

## Biowood

**Type and/or use of product:**

Composite wood cladding for use in construction of external applications including cladding, screening, louvres and soffits.

**Description of product:**

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.

The BSCWS product range includes Castellated Façade boards of 180mm x 35mm, and Outdoor Wall Panel Shiplap boards of 150mm x 18mm, both available in 5850mm lengths.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

**BCA 2019**

	Volume One		Volume Two	
<b>Performance Requirement(s)</b>	BP1.1(a), limited to (b)(i)(ii)(iii) FP1.4	Structural Reliability Damp and weatherproofing	P2.1.1(a) limited to (b)(i)(ii)(iii) P2.2.2	Structural stability and resistance Damp and weatherproofing
<b>Deemed-to-Satisfy Provision(s):</b>	G5.1 G5.2	Construction in bushfire prone areas	3.10.5.0	Construction in bushfire prone areas
<b>State or territory variation(s):</b>	NSW G5.1 NSW G5.2 QLD G5.1	Construction in bushfire prone areas	NSW 3.10.5.0 QLD 3.10.5.0	Construction in bushfire prone areas

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

**Limitations and conditions:**

- The Biowood is suitable for use on Type C construction, and should not be used where non-combustible material required.

**Building classification/s:**

Volume 2 – Class 1 and Class 10a buildings  
Volume 1 – Class 2 and Class 9 buildings

**Sam Guindi – Product Certification Manager**  
Bureau Veritas Australia Pty Ltd

**Quintin Kleyn - Unrestricted Building Certifier**  
Hendry Group Pty Ltd

Date of issue: 16 September 2022

Date of expiry: 2 August 2025



2. The Biowood does not contribute to an FRL, however may be used on walls required to have an FRL provided that the method of attachment does not reduce the FRL of the building element below that required by the BCA.
3. Biowood shall be installed in accordance with the installation manual (as below), and by a suitable qualified person.
  - Biowood WPO30060 VERTICAL Installation Manual with H3Timber & STUDCO Frames, ref WPO30060VRTCLJAN2022.VER1.1, dated January 2022
  - Biowood WPO30060 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO30060HRZTLJAN2022.VER1.1, dated January 2022
  - Biowood WPO18035 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames, ref WPO18035HRZTL28JULY2022.VER2.1, dated 28 July 2022
  - WPO15018 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames, ref WPO15018HRZTLJULY2022.VER1.2, dated July 2022
  - Biowood WPO15018 Vertical Installation Manual H3 Timber Frames, ref WPO15018VRTCL17FEB2021.VER1.0 dated 17 February 2021.
  - Biowood WPO15018 Vertical Installation Manual H3 Timber & Studco Top Hats Frames, ref WPO15018VRTCLJULY2022.VER1.2 dated 17 February 2021.
  - Biowood WPO15018 Horizontal Installation Manual with H3 Timber Frames ref WPO15018HRZTLJULY2022.VER1.2, dated July 2022
  - Biowood WPO25018 & WPO20018 Vertical Installation Manual with H3Timber & STUDCO Frames PO25018&20018VRTCLFEB2022.VER1.2, dated February 2022
  - Biowood HWPO25018 & WPO20018 Horizontal Installation Manual with H3Timber & STUDCO Frames WPO25018HRZTLFEB2022.VER1.2, dated February 2022
  - Biowood WPO25028 VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO25028VRTCLFEB2022.VER.1.1, dated February 2022
  - Biowood WPO25028 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO25028HRZTLMAR2022.VER1.1, dated March 2022
  - Biowood WPO18035 Horizontal Installation Manual H3 Timber & STUDCO Frames WPO18518HRZTLJAN2022.VER1.1 dated January 2022.
  - Biowood WPO18035 VERTICAL Installation Manual with H3Timber & Studco Frames, ref WPO18035VRTCL28JULY2022.VER2.1, dated 28 July 2022
  - Biowood WPO18518 VERTICAL Installation Manual with H3Timber & STUDCO Top Hats Frames WPO18518VRTCLJAN2022.VER1.1, dated January 2022
  - Biowood WPO18518 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO18518HRZTLJAN2022.VER1.1, dated January 2022
  - Biowood WPO60018 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO60018HRZTLFEB2022.VER1.2, dated February 2022
  - Biowood WPO60018 VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO60018VRTCLFEB2022.VER1.2, dated February 2022

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- Biowood WPO200150 VERTICAL Installation Manual with H3Timber & STUDCO Frames  
WPO200150VRTCLJAN2022.VER1.1, dated January 2022
  - Biowood WPO18025A HORIZONTAL Installation Manual with H3Timber & STUDCO Frames  
WPO18025AHRZTLJAN2022.VER1.1, dated January 2022
  - Biowood WPO18025A VERTICAL Installation Manual with H3Timber & STUDCO Frames  
WPO18025AVRTCLJAN2022.VER1.1, dated January 2022
4. Biowood can be used in bushfire prone areas up to and including BAL 29 as it considers as bushfire-resisting timber that is in reconstituted form.

**Scope of certification:** The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website [www.abcb.gov.au](http://www.abcb.gov.au). This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

**Disclaimer:** The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

As above

### A2 Description of product

As above

### A3 Product specification

- Biowood – Castellated Portfolio APRIL 2021.
- Biowood – Materials, Colour and Finishes Shiplap Profiles APRIL 2021.

### Castellated Profiles



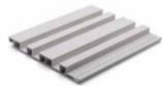
Biowood Castellated Board  
WPO18035

180 x 35 x 5850 mm  
180mm actual cover  
Weight: 10.20 kg/m<sup>2</sup>



Biowood Castellated Board  
WPO18025A

180 x 25 x 5850 mm  
180mm actual cover  
Weight: 9.00 kg/m<sup>2</sup>



Biowood Castellated Board  
WPO25028

250 x 28 x 5850 mm  
250mm actual cover  
Weight: 6.01 kg/m<sup>2</sup>



Biowood Castellated Board  
WPO30060

300 x 50 x 5850 mm  
300mm actual cover  
Weight: 14.81 kg/m<sup>2</sup>

### Shiplap Profiles



Biowood Shiplap Board  
WPO15018

150mm x 18mm x 5850mm  
150mm actual cover  
Weight: 7.99 kg/m<sup>2</sup>



Biowood Shiplap Board  
WPO18518

185mm x 18mm x 5850mm  
185mm actual cover  
Weight: 8.22 kg/m<sup>2</sup>



Biowood Shiplap Board  
WPO20018

200mm x 18mm x 5850mm  
200mm actual cover  
Weight: 8.37 kg/m<sup>2</sup>



Biowood Shiplap Board  
WPO25018

250mm x 18mm x 5850mm  
250mm actual cover  
Weight: 8.74 kg/m<sup>2</sup>










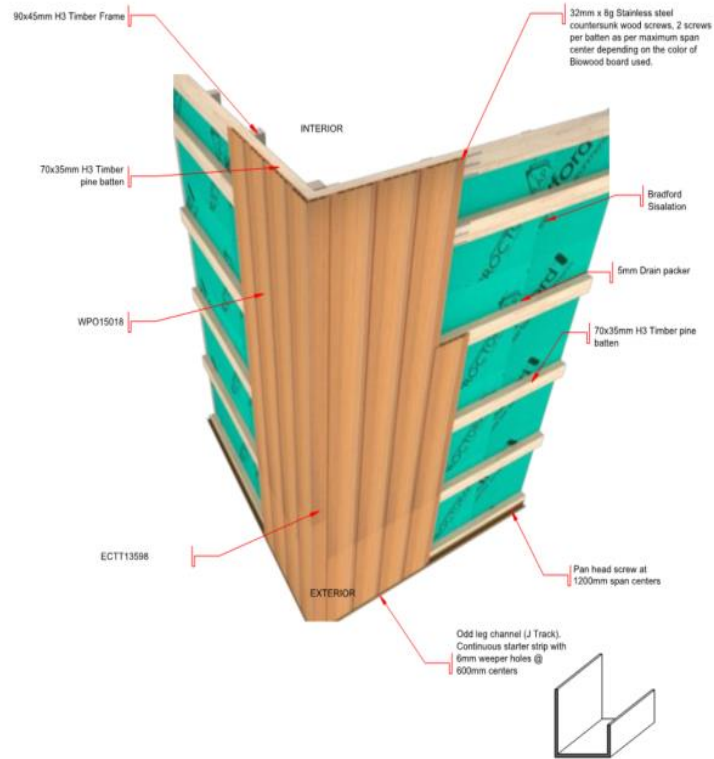
Biowood Shiplap Board  
WPO60018

600mm x 18mm x 5850mm  
600mm actual cover  
Weight: 8.25 kg/m<sup>2</sup>

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## BIOWOOD COMPONENTS

Biowood board WPO15018	150mm x 18mm x 5850mm 150mm actual cover	
Biowood board External Corner ECTT12496	124mm x 96mm x 5850mm Tongue & Tongue	
Column Joint CJ6418	64mm x 18mm x 5850mm	
H Mould 18mm Face	60mm x 18mm x 5850mm	
Soudalflex 40FC	600g sausage 2 pcs/sqm	
32mm x 8g Stainless steel 316 countersunk screw for timber frames	32 pcs/sqm based on 450 mm maximum span centers	
Aluminum J Track (odd leg channel) Black, Brown, Monument and Grey	21.70mm x 40mm x 4.20m	



## **A4 Manufacturer and manufacturing plant(s)**

Green Resources Material Australia Pty Ltd  
PT. Latrade Batam Indonesia  
Latrade Industrial Park Blok E No.3  
Jl. Sei Binti - Tanjung Uncang  
Batam 29422 Indonesia

## **A5 Installation requirements**

- Biowood WPO30060 VERTICAL Installation Manual with H3Timber & STUDCO Frames, ref WPO30060VRTCLJAN2022.VER1.1, dated January 2022
- Biowood WPO30060 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO30060HRZTLJAN2022.VER1.1, dated January 2022
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## A6 Other relevant technical data

- Studco Top Hat (top hat & cladding system).
- Studco Top Hat Span Tables (for Biowood Panels)

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

#### 1. Structure (Volume 1)

A2.2(2)(a)/A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Acor Consultants)

#### 2. Weatherproofing (Volume 1 and 2)

A2.2(2)(a)/A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Vipac Engineers and scientists Limited)

#### 3. Bushfire (Volume 1 and 2)

A2.3(2)(a)/A5.2(1)(d) – A report issued by an Accredited Testing Laboratory (Test reports by CSIRO)

A2.3(2)(a)/A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (ProAct Fire Engineering)

### B2 Reports

#### Structural

##### 1. Acor Consultants, Biowood – Calculation Package, ref NSW20244, 17 March 2022

This document provides the fixing calculations for the range of Biowood cladding products for different wind classifications from N1 to N6 as defined by AS4055.

#### Weatherproofing

##### 2. Vipac Engineers and Scientists Limited Report No.30B-20-0057-TRP-47150398-0, 3 March 2021.

This report provides the results of testing to the requirements of AS/NZS 4284:2008 and confirms that the product passed all compliance requirements of FV1.1 and V2.2.1 of NCC 2019 (Amendment 1) Vol 1 & Vol 2. Limitation of test in accordance with FV1.1:

- a) External wall must have a risk score of 20 or less
- b) External wall is not subjected to an ultimate state wind pressure of more than 2.5 kPa
- c) Only windows that comply with AS 2047.

##### 3. Vipac Engineers and Scientists Limited Report No.30B-20-0057-TRP-47241267-0, 16 March 2021.

This report provides the results of testing to the requirements of AS/NZS 4284:2008 and confirms that the product passed all compliance requirements of FV1.1 and V2.2.1 of NCC 2019 (Amendment 1) Vol 1 & Vol 2. Limitation of test in accordance with FV1.1:

External wall must have a risk score of 20 or less  
External wall is not subjected to an ultimate state wind pressure of more than 2.5 kPa  
Only windows that comply with AS 2047.



## Bushfire

**4. CSIRO report no. FNK 10614 dated 23 July 2012, and certificate no. NK6703, 10 July 2012.**

This report provides the results to testing of extruded reconstituted decking board composite product comprising of wood flour, PVC, and calcium carbonate with AS/NZS 3837 in accordance with Appendix F of AS 3959. The test report confirms that the material meets the testing criteria defined in Appendix F of AS 3959.

**5. CSIRO certificate no. FNK 1775A, 18 January 2013.**

This extruded reconstituted decking board composite product comprising of wood flour, PVC, and calcium carbonate in accordance with Appendix F of AS 3959. The test report confirms that the material meets the testing criteria defined in Appendix F of AS3959 for bushfire-resisting timber and confirms that it is deemed to be acceptable to withstand exposure up to a BAL-29. The certificate also confirms that the specimen has been subjected to the weathering procedure of ASTM D 2898 Method B as specified by Appendix F (F2(b) of AS 3959.

**6. ProAct Fire Engineering, Evidence of suitability for Biowood (Volume 2 of the NCC), project no.PA 21-0028 Rev V5, 08 December 2021**

This report confirms that the performance requirements has been justified using expert judgement. The report addressed the test reports that the assessment relied on as following;

- CSIRO certificate of assessment No. 1775A
- CSIRO certificate of test report No. FNE 10012
- CSIRO report No. FFNZ 11808

The report satisfied through the utilisation of the Fire testing reports and certificate for the wall cladding and decking including all elements that affect its performance and that all applicable aspects of AS3959 Construction of buildings in bushfire-prone areas and the NASH standard Steel Framed Construction in Bushfire Areas have been applied.