Certificate of Conformity

Certification Body:

Bureau Veritas Australia Pty Ltd
Level 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 Rev4

THIS IS TO CERTIFY THAT

Green Resources Material – Biowood Cladding

Type and/or use of product:
Composite wood cladding for use in construction of external wall and soffit applications.

Description of product:
The Green Resources Materials - Biowood Shiplap Weatherboards, Castellated profile Claddings and 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 Green Resources Materials - Biowood product range includes

- Castellated Façade boards of 180 mm x 35 mm,
- Outdoor Wall Panel Shiplap boards of 150 mm x 18 mm

Both available in 5850 mm lengths.

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

BCA 2022 Amdt.2

	Volume One		Volume Two	
Performance Requirement(s)	B1P1(1), limited to (2)(c) F3P1	Structural Reliability Weatherproofing	H1P1(1), limited to (2)(c) H2P2	Structural reliability and resistance Weatherproofing
Deemed-to-Satisfy Provision(s):	G5D3 - up to BAL 29	Protection - residential buildings	H7D4 - up to BAL 29	Construction in bushfire prone areas
	G5D4 - up to BAL 12.5, see conditions and limitations	Protection - certain Class 9 buildings		
State or territory variation(s):	NSW G5D3 NSW G5D4 VIC G5D4	Protection - residential buildings & certain class 9 buildings	NSW H7D4	Construction in bushfire prone areas

Sam Guindi – Product Certification Manager
Bureau Veritas Australia Pty Ltd

Harley Parkes - Unrestricted Building Certifier
Jensen Hughes Pty Ltd

Date of issue: 2 August 2022

Revalidated: 25 September 2026

Date of expiry: 2 August 2028

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

Limitations and conditions:

1. Biowood Weatherboards and Castellated Cladding shall be installed in accordance with the installation manual (as below), and by a suitable qualified person.
   a. Biowood WPO30060 VERTICAL Installation Manual with H3Timber & STUDCO Frames, ref WPO30060VRTCLJAN2022.VER1.1, dated January 2022.
   b. Biowood WPO30060 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO30060HRZTLJAN2022.VER1.1, dated January 2022.
   c. Biowood WPO18035 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames, ref WPO18035HRZTL28JULY2022.VER2.1, dated 28 July 2022.
   d. Biowood WPO15018 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames, ref WPO15018HRZTLJULY2022.VER1.2, dated July 2022.
   e. Biowood WPO15018 Vertical Installation Manual H3 Timber Frames, ref WPO15018VRTCL17FEB2021.VER1.0 dated 17 February 2021.
   f. Biowood WPO15018 Vertical Installation Manual H3 Timber & STUDCO Top Hats Frames, ref WPO15018VRTCLJULY2022.VER1.2 dated 17 February 2021.
   g. Biowood WPO15018 Horizontal Installation Manual with H3 Timber Frames ref WPO15018HRZTLJULY2022.VER1.2, dated July 2022.
   h. Biowood WPO25018 & WPO20018 Vertical Installation Manual with H3Timber & STUDCO Frames PO25018&20018VRTCLFEB2022. VER1.2, dated February 2022.
   i. Biowood HWPO25018 & WPO20018 Horizontal Installation Manual with H3Timber & STUDCO Frames WPO25018HRZTLFEB2022. VER1.2, dated February 2022.
   j. Biowood WPO25028 VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO25028VRTCLFEB2022.VER.1.1, dated February 2022
   k. Biowood WPO25028 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO25028HRZTLMAR2022.VER1.1, dated March 2022.
   l. Biowood WPO18035 Horizontal Installation Manual H3 Timber & STUDCO Frames WPO18518HRZTLJAN2022.VER1.1 dated January 2022.
   m. Biowood WPO18035 VERTICAL Installation Manual with H3Timber & STUDCO Frames, ref WPO18035VRTCL28JULY2022.VER2.1, dated 28 July 2022.
   n. Biowood WPO18518 VERTICAL Installation Manual with H3Timber & STUDCO Top Hats Frames WPO18518VRTCLJAN2022.VER1.1, dated January 2022.
   o. Biowood WPO18518 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO18518HRZTLJAN2022.VER1.1, dated January 2022.
   p. Biowood WPO60018 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO60018HRZTLFEB2022.VER1.2, dated February 2022.
   q. Biowood WPO60018 VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO60018VRTCLFEB2022.VER1.2, dated February 2022.

Building classification/s:
Volume 1 – Class 2 and Class 9 buildings
Volume 2 – Class 1 and Class 10a buildings

r. Biowood WPO200150 VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO200150VRTCLJAN2022.VER1.1, dated January 2022.
s. Biowood WPO18025A HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO18025AHRZTLJAN2022.VER1.1, dated January 2022.
t. Biowood WPO18025A VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO18025AVRTCLJAN2022.VER1.1, dated January 2022.

2. Biowood Weatherboards and Castellated Cladding shall be used on walls and soffits Class 1 and 10 buildings in non-cyclonic Wind Regions A & B and wind class up to N6, as determined by AS 4055. For Class 2-9 buildings, refer to ultimate wind pressures from each wind classification for product use, refer to Acor Consultants fixing calculation package ref: NSW202044 for fixing requirements.
3. Biowood Weatherboards and Castellated Cladding are suitable for use on Type C construction in non-cyclonic wind regions.
4. Biowood Weatherboards and Castellated Cladding is not suitable for use where non-combustible materials are required.
5. Biowood Weatherboards is considered a bushfire resistance timber and may be used in bushfire prone areas up to and including BAL 29 for Class 1 and associated 10a buildings, and Class 2 and 3 buildings. For certain Class 9 buildings (as detailed in BCA cl. G5D4), Biowood is suitable for use in bushfire prone areas up to and including BAL 12.5, when installed on buildings which meet with other design requirements of BCA Specification 43.

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. 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.

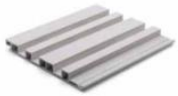
Castellated Profiles

Biowood Castellated Board
WPO18035

180 x 35 x 5850 mm
180mm actual cover
Weight: 10.20 kg/m²

Biowood Castellated Board
WPO18025A

180 x 25 x 5850 mm
180mm actual cover
Weight: 9.00 kg/m²



Biowood Castellated Board
WPO25028

250 x 28 x 5850 mm
250mm actual cover
Weight 6.01 kg/m²

Biowood Castellated Board
WPO30060

300 x 50 x 5850 mm
300mm actual cover
Weight: 14.81 kg/m²

Shiplap Profiles

Biowood Shiplap Board
WPO15018

150mm x 18mm x 5850mm
150mm actual cover
Weight: 7.99 kg/m²

Biowood Shiplap Board
WPO18518

185mm x 18mm x 5850mm
185mm actual cover
Weight: 8.22 kg/m²

Biowood Shiplap Board
WPO20018

200mm x 18mm x 5850mm
200mm actual cover
Weight: 8.37 kg/m²

Biowood Shiplap Board
WPO25018

250mm x 18mm x 5850mm
250mm actual cover
Weight: 8.74 kg/m²

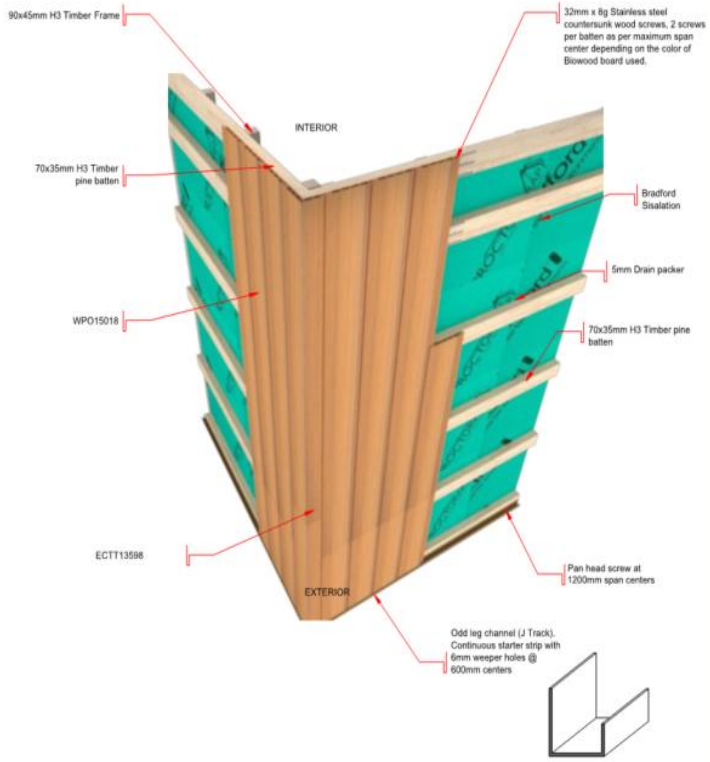
Biowood Shiplap Board
WPO60018

600mm x 18mm x 5850mm
600mm actual cover
Weight: 8.25 kg/m²

Certificate of Conformity

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

a. Biowood WPO30060 VERTICAL Installation Manual with H3Timber & STUDCO Frames, ref WPO30060VRTCLJAN2022.VER1.1, dated January 2022.
b. Biowood WPO30060 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO30060HRZTLJAN2022.VER1.1, dated January 2022.
c. Biowood WPO18035 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames, ref WPO18035HRZTL28JULY2022.VER2.1, dated 28 July 2022.
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f. Biowood WPO15018 Vertical Installation Manual H3 Timber & STUDCO Top Hats Frames, ref WPO15018VRTCLJULY2022.VER1.2 dated 17 February 2021.
g. Biowood WPO15018 Horizontal Installation Manual with H3 Timber Frames ref WPO15018HRZTLJULY2022.VER1.2, dated July 2022
h. Biowood WPO25018 & WPO20018 Vertical Installation Manual with H3Timber & STUDCO Frames PO25018&20018VRTCLFEB2022.VER1.2, dated February 2022.
i. Biowood HWPO25018 & WPO20018 Horizontal Installation Manual with H3Timber & STUDCO Frames WPO25018HRZTLFEB2022.VER1.2, dated February 2022.
j. Biowood WPO25028 VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO25028VRTCLFEB2022.VER.1.1, dated February 2022.
k. Biowood WPO25028 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO25028HRZTLMAR2022.VER1.1, dated March 2022.
l. Biowood WPO18035 Horizontal Installation Manual H3 Timber & STUDCO Frames WPO18518HRZTLJAN2022.VER1.1 dated January 2022.
m. Biowood WPO18035 VERTICAL Installation Manual with H3Timber & STUDCO Frames, ref WPO18035VRTCL28JULY2022.VER2.1, dated 28 July 2022.
n. Biowood WPO18518 VERTICAL Installation Manual with H3Timber & STUDCO Top Hats Frames WPO18518VRTCLJAN2022.VER1.1, dated January 2022.
o. Biowood WPO18518 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO18518HRZTLJAN2022.VER1.1, dated January 2022.
p. Biowood WPO60018 HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO60018HRZTLFEB2022.VER1.2, dated February 2022.
q. Biowood WPO60018 VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO60018VRTCLFEB2022.VER1.2, dated February 2022.
r. Biowood WPO200150 VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO200150VRTCLJAN2022.VER1.1, dated January 2022.
s. Biowood WPO18025A HORIZONTAL Installation Manual with H3Timber & STUDCO Frames WPO18025AHRZTLJAN2022.VER1.1, dated January 2022.
t. Biowood WPO18025A VERTICAL Installation Manual with H3Timber & STUDCO Frames WPO18025AVRTCLJAN2022.VER1.1, dated January 2022.

A6 Other relevant technical data

- Studco Top Hat (top hat & cladding system).
- Studco Top Hat Span Tables (for Biowood Panels).
- Acor Consultants, Biowood Design Certification NSW, ref: NSW 202044, dated March 2022.
- Acor Consultants, Certificate of Qualified Person TAS, dated 25 March 2022.
- Acor Consultants, Certificate of Compliance for Proposed Building Work, dated 22 March 2022.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

BCA 2022Amdt.2

1. **Structural Assessment**
   A2G2(2)(a)/A5G3(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person (Acor Consultants)
2. **Weatherproofing Assessment**
   A2G2(2)(a)/A5G3(1)(e) – A report from a professional engineer (Vipac Engineers)

DtS (Deemed-to-Satisfy)

3. **Bushfire Construction Assessment**
   A2G3(2)(a)/A5G3(1)(d) – A report issued by a NATA accredited testing facility (CSIRO)
   A2G3(2)(a)/A5G3(1)(e) – A report from a professional engineer (CSIRO) Energy Efficiency

B2 Reports

Structural Assessment

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 wall and soffits applications in different wind classifications from N1 to N6 as defined by AS 4055-2021.

Weatherproofing Assessment

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:
   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

Bushfire Construction Assessment

4. **CSIRO, Advisory report regarding available evidence for compliance of "Green Resources Material – BioWood" with the bushfire resisting timber requirements of AS 3959:2018 Amdt 2, ref: FCO-5533, dated 28 October 2022 (Valid until 31 October 2027).**
   This report provides the summary of available evidence for compliance of Biowood with the bushfire resisting timber requirements of AS3959:2018, and determines that the product meets the requirements for Bushfire resisting timber.
   The assessment references the following previously undertaken tests:
   - FNK 10741, dated 15 January 2013 testing to AS/NZS 3837 at 25 kW/m^2