



Certificate: CM70122 Rev 3



Architectural Cladding & Ceiling Catalogue





Disclaimer



The information provided by Biowood in this document are solely indicative, they are based on the present state of knowledge and must be considered only as a description of our products and their possible application. Such information must not be interpreted as a guarantee of specific features, performances, or warranties of the product. Material's colors and finishes represented in this document are the results of printing techniques so they may slightly differ from the original colors. Original samples are available upon request and constitute only a general indication of the dimensions and the aesthetic appearance of Biowood profiles. Biowood may change the information included in this document at any time and without further notice. Biowood does not warrant the accuracy and completeness of the information in this document and furthermore their suitability for the purpose which it is consulted for by the other parties. Biowood customers or third parties must ascertain they have the most recent version of this document, available at www.grmaustralia.com.au It is advised that customers and third parties have a professional adviser to inform them about the suitability of the products for all desired applications and about applicable laws and regulations. Green Resource Material Australia Pty. Ltd reserves the right to modify products and concerning features without prior notice. Biowood is not liable for any damage arising from or related to, the use of this document. Biowood material does not have structural characteristics and therefore Biowood declines all responsibilities for improper use of the material. No sections of this publication can be reproduced, stored in a database, or transmitted in any form or by any other means without the explicit approval of Green Resource Material Australia Pty. Ltd. For more information, please contact our office.

Material Features

Mechanical properties

Density (kg/m ³), average	ASTM D2395:2007a	1178 kg/m ³
Shore D Hardness, median	ASTM D2240:2000	68
Water Absorption after 2 hours	ASTM D1037:2006a, Section 23, Method A	+ 0.08%
Water Absorption after 24 hours		+ 0.47%
Nail Pull Resistance (N), average	ASTM D1037:2006a, Section 14	276 N
Maximum Tensile Strength (MPa), average	ASTM D638:2003	6.1 MPa
Modulus of Elasticity (MPa), average		1110 MPa
Elongation at Break (%), average		1.2
Flexural Strength (MPa), average	ASTM D6109:2005	23.6
Modulus of Elasticity (MPa), average		2251
Maximum Compressive Strength (MPa), average	ASTM D695:2002a	193
Coefficient of Thermal Expansion – α_1 (40 to 70°C), $\mu\text{m}/\text{m}^\circ\text{C}$	ASTM E831:2000	53.7
Coefficient of Thermal Expansion – α_1 (95 to 105°C), $\mu\text{m}/\text{m}^\circ\text{C}$		81.4
Vicat Softening Temperature °C	ASTM D1525:2009	84
Linear Coefficient of Thermal Expansion $\mu\text{m}/\text{m}^\circ\text{C}$	ASTM D6341:2016	27.7
Static Water Penetration NCC 2019 Amendment 1 FV1.1c)i)B) NCC 2019 Amendment 1V2.2.1 c)i)C) Vipac Engineers & Scientists Limited	Test Pressure FP1.4 & 4284 +455pa	Complies
Cyclic Water Penetration NCC 2019 Amendment 1 FV1.1c)i)B) NCC 2019 Amendment 1V2.2.1 c)i)C) Vipac Engineers & Scientists Limited	Test Pressure FP1.4 & 4284 208a-455Pa 303Pa – 606Pa 455Pa-910Pa	Complies

Material Features

Reaction to fire

Biowood Classique Group Rating	AS/NZS 3837:1998 In accordance with Specification C1.10 Section 4 of the BCA	Group 3
Average specific extinction area	AS/NZS 3837:1998 In accordance with Specification C1.10 Section 4 of the BCA	231 m ³ /kg
Biowood Premium Fire Range BAL-29 Rated	25-kWm ² irradiance in accordance with with AS/NZS 3837:1998	Up to BAL-29 condition as specified in AS 3959:2009 Construction of Buildings in bushfire-prone area Appendix F.
TUV Fire Test	BS 476: Part 6:1997	10.7
Ignitability, flame propagation, release and smoke release	AS/NZS 1530.3:1999	Ignitability (0-20) = 13 heart Spread of Flame (0-10) = 0 Heat Evolved (0-10) = 1 Smoke Developed (0-10) = 7

Material Features

Chemical & biological features

Anti-Fungus Test	ASTM Designation: G21-15	0 (No growth)
Asbestos & Crystalline Silica Test	TUV (NIOSH) 9002 Asbestos (bulk) by Polarized Light Microscopy No Asbestos fibres	No Asbestos fibres Crystalline Silica Free
Total Volatile Organic Compounds	EN 717-2:1994 Determination of Formaldehyde Release – Part 2	0.03 mg/m ² /hour (Total Volatile Organic Compounds)
Total Volatile Organic Compounds	ASTM D5116	<0.01 mg/m ² /hour (VOC)
AWTA Accelerated Weather Report	18-002698 ISO 105-A02 Where 5 = No Change 1 = Severe Change @1000 hours	4-5

Accelerated aging resistance test colour stability: Colour stability has been tested in compliance with accelerated weathering tests by AWTA Nata certified Test Laboratory (ISO 105/A02); the result of the test is expressed by assigning a numerical value to colour variation according to the international greyscale, which is a useful method to measure colours differences. PURPOSE OF THE TEST: Resistance to accelerated aging on Biowood profiles according to AWTA Nata certified (ISO 105/A02)

Test method: The equipment used is Standard for Accelerated Exposure of Automotive Exterior Materials Using a Controlled Irradiance Xenon-Arc Apparatus.



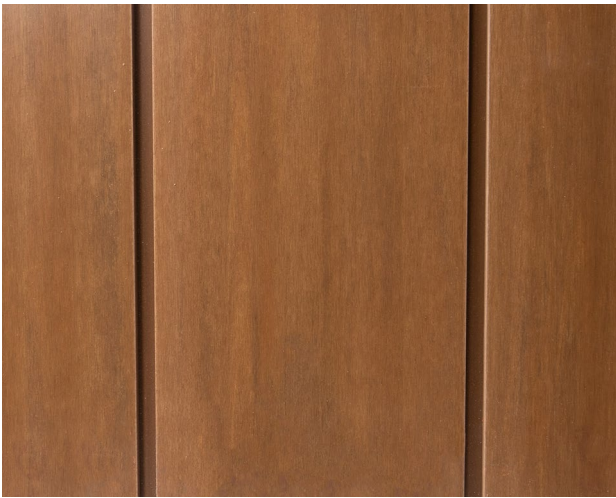
These values shown are indicative and not binding. Nata Certified test reports available upon request. The product is protected by a warranty in line with legal requirements: for more information see www.grmaustralia.com.au

Shiplap Colours & Finishes

Classique Range Colours: WPO15018, WPO18518

Special order on projects for other colours. Price on application.

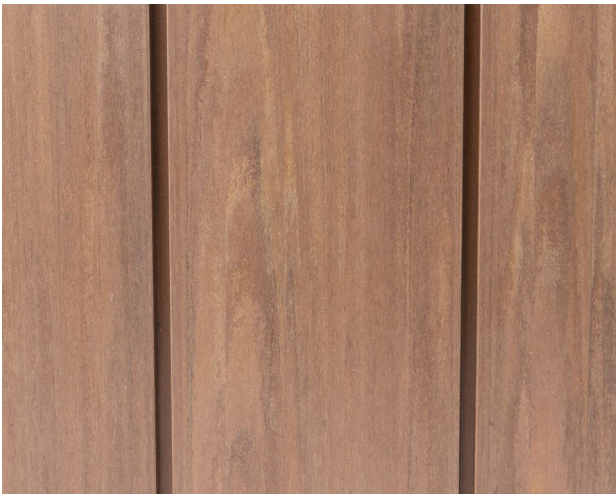
Profiles: 150mm x 18mm x 4800mm/6200mm, 185mm x 18mm x 4800mm/6200mm Brushed Finished
Brushed UV Sealed (Indoor & Outdoor Application), available in NON-BAL and BAL-29 Rated



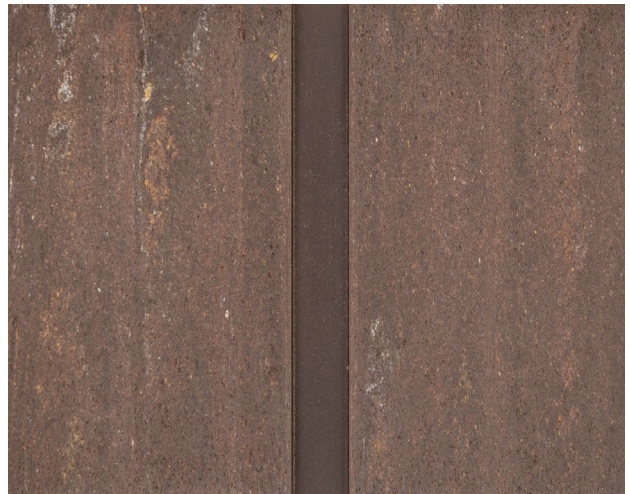
Spotted Gum – Bioseal UV Seal Brown



Black Japan – Bioseal UV Seal Black



Western Red Cedar – Bioseal UV Seal Clear



Deep Walnut – Bioseal UV Seal Clear

Colours and textures shown are purely indicative. Please check our real samples for approval. Biowood uses 69% post-consumer recycled wood powder which means each batch can have different colour and grain variation.

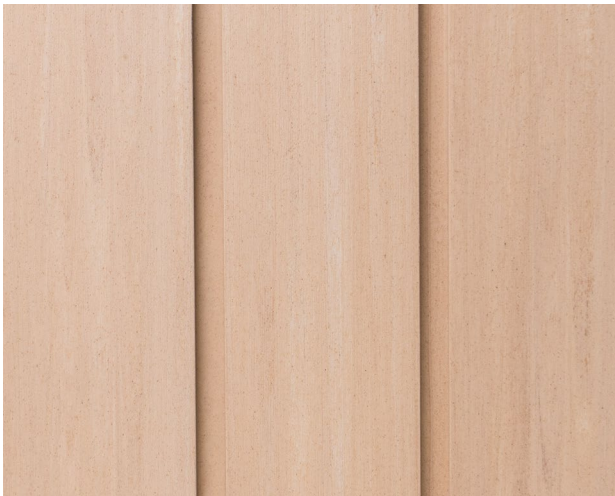
Shiplap Colours & Finishes

Premium Range Colours: WPO15018, WPO18518

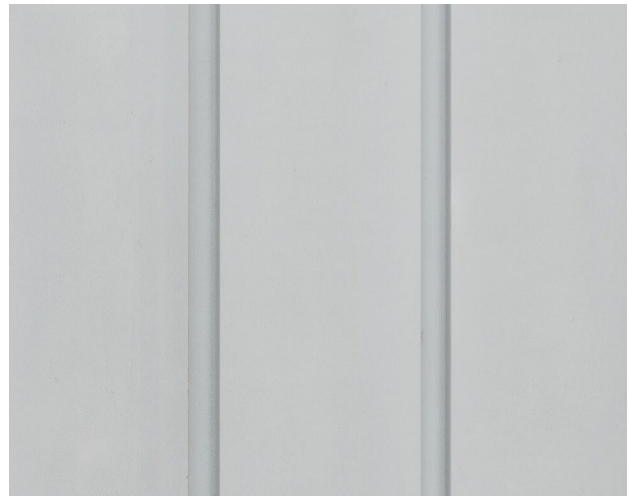
Special order on projects for other colours. Price on application.

Profiles: 150mm x 18mm x 4800mm/6200mm, 185mm x 18mm x 4800mm/6200mm

Brushed UV Sealed (Indoor & Outdoor Application), available in NON-BAL and BAL-29 Rated



Natural Oak – Bioseal UV Seal Clear



Lexicon White – Bioseal UV Seal Lexicon White

Colours and textures shown are purely indicative. Please check our real samples for approval. Biowood uses 69% post-consumer recycled wood powder which means each batch can have different colour and grain variation.

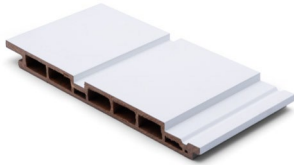
Shiplap Profiles

Special order on projects for other colours. Price on application.



Biowood Shiplap Board
WPO15018

150mm x 18mm x 4800mm
150mm x 18mm x 6200mm
171 mm nominal width
150mm actual cover
Weight: 8.68 kg/m²



Biowood Shiplap Board
WPO18518

185mm x 18mm x 4800mm
185mm x 18mm x 6200mm
205 mm nominal width
185mm actual cover
Weight: 7.24 kg/m²

Colours and textures shown are purely indicative. Please check our real samples for approval. Biowood uses 69% post-consumer recycled wood powder which means each batch can have different colour and grain variation.

Castellated Profiles



Biowood Castellated Board
WPO18035

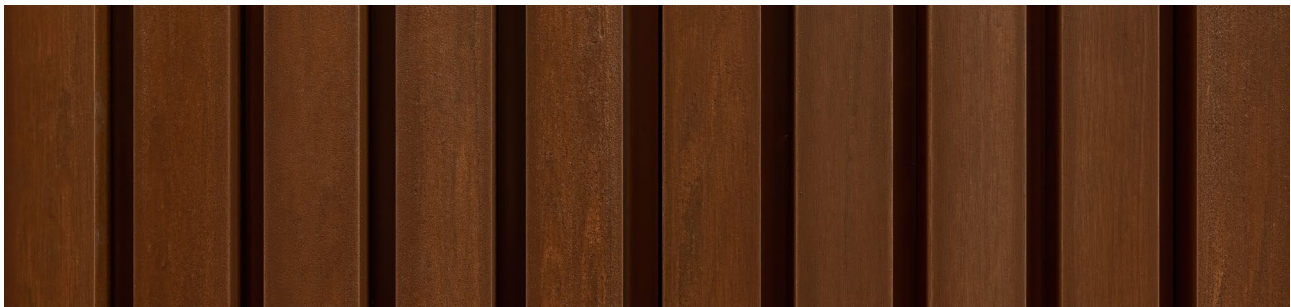
180mm x 35mm x 4800mm
180mm x 35mm x 6200mm
200 mm nominal width
180mm actual cover
Weight: 10.20 kg/m²

Castellated Colours & Finishes

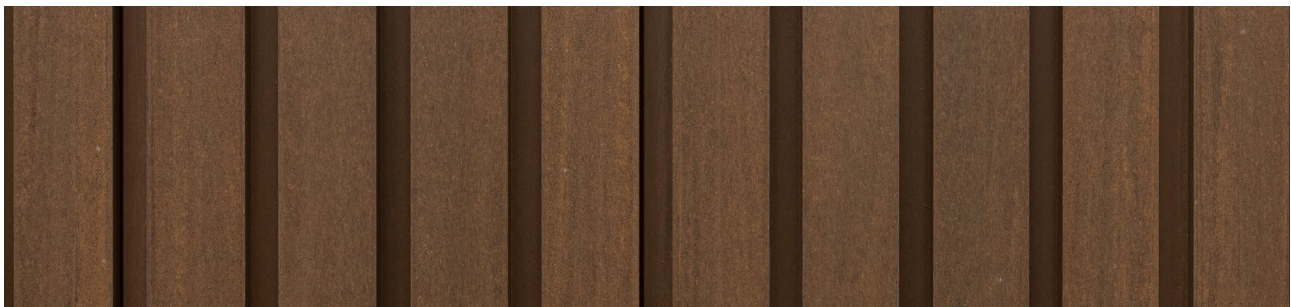
Classique Range: Profile WPO18035

Profile: 180mm x 35mm x 4800mm/6200mm

Brushed UV Sealed (Indoor & Outdoor Application), available in non-BAL and BAL-29



Spotted Gum – Bioseal UV Seal Brown



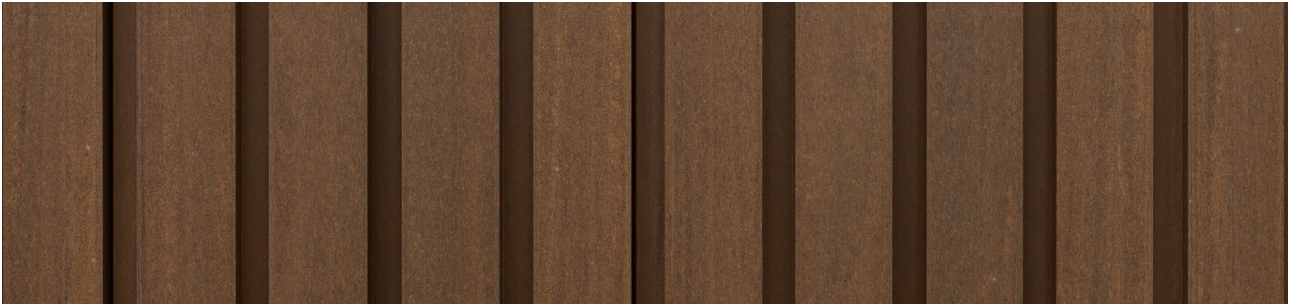
Western Red Cedar – Bioseal UV Seal Clear

Colors and textures shown are purely indicative. Please check our real samples for approval. Biowood uses 69% post consumer recycled wood powder which means each batch can have different colour and grain variation.

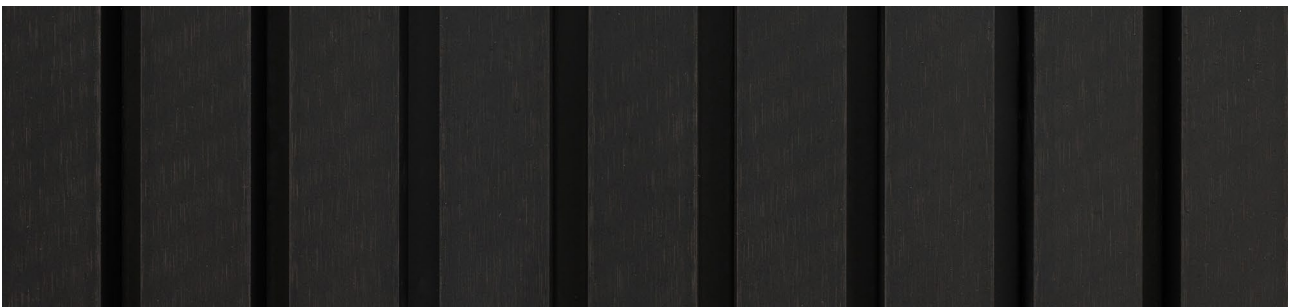
Castellated Colours & Finishes

Classique Range: Profile WPO18035

Brushed UV Sealed (Indoor & Outdoor Application), available in non-BAL and BAL-29



Deep Walnut – Bioseal UV Seal Brown



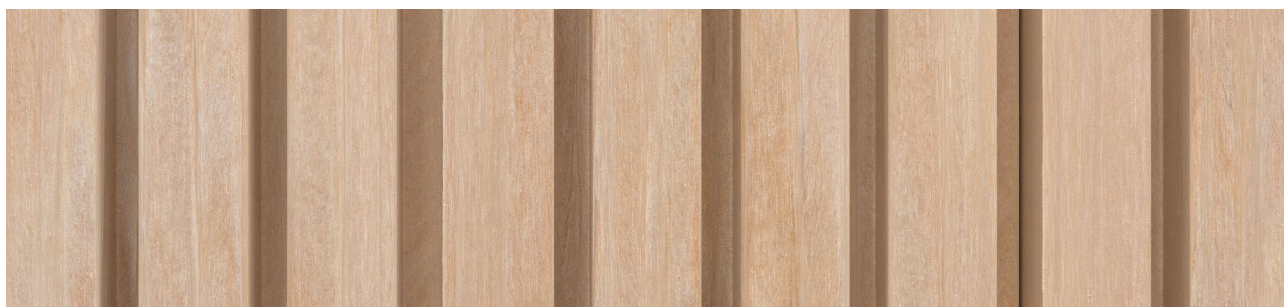
Black Japan – Bioseal UV Seal Black

Colors and textures shown are purely indicative. Please check our real samples for approval. Biowood uses 69% post consumer recycled wood powder which means each batch can have different colour and grain variation

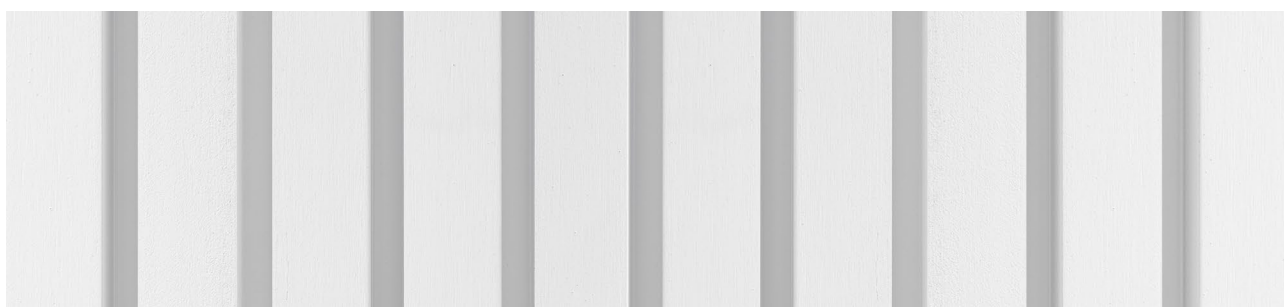
Castellated Colours & Finishes

Premium Range: Profile WPO18035

Brushed UV Sealed (Indoor & Outdoor Application), available in non-BAL and BAL-29



Natural Oak – Bioseal UV Seal Clear



Lexicon White – Bioseal UV Seal

Colours and textures shown are purely indicative. Please check our real samples for approval. Biowood uses 69% post consumer recycled wood powder which means each batch can have different colour and grain variation.



Application Samples

Biowood flush mount castellated garage & pivot door is a door cladding that is flush with the surrounding facade instead of set back.

Biowood is an architectural garage door and facade application that retains the look and feel of timber. Biowood is versatile and time-tested in Australian & New Zealand conditions. Biowood is low maintenance and Global Green Tag Certified.

Biowood is a great alternative for traditional timber and aluminium. Biowood is termite, flame, water, mould and mildew resistant. It has a nanotechnology seal that is non-stick and self-cleaning. This means you spend less time worrying about your garage door and facades and more time enjoying them.

Biowood profiles are versatile and a time-tested in Australian & New Zealand conditions.

Biowood is an architectural cladding and ceiling application that retains the natural look and feel of timber. Biowood is also termite, flame, water, mould and mildew resistant. Biowood is a great alternative for traditional timber and aluminium.

Biowood is low maintenance, Global Green Tag 'Certified', is water resistant and can be used nearby water. This means you spend less time worrying about your cladding and soffits and more time enjoying them.

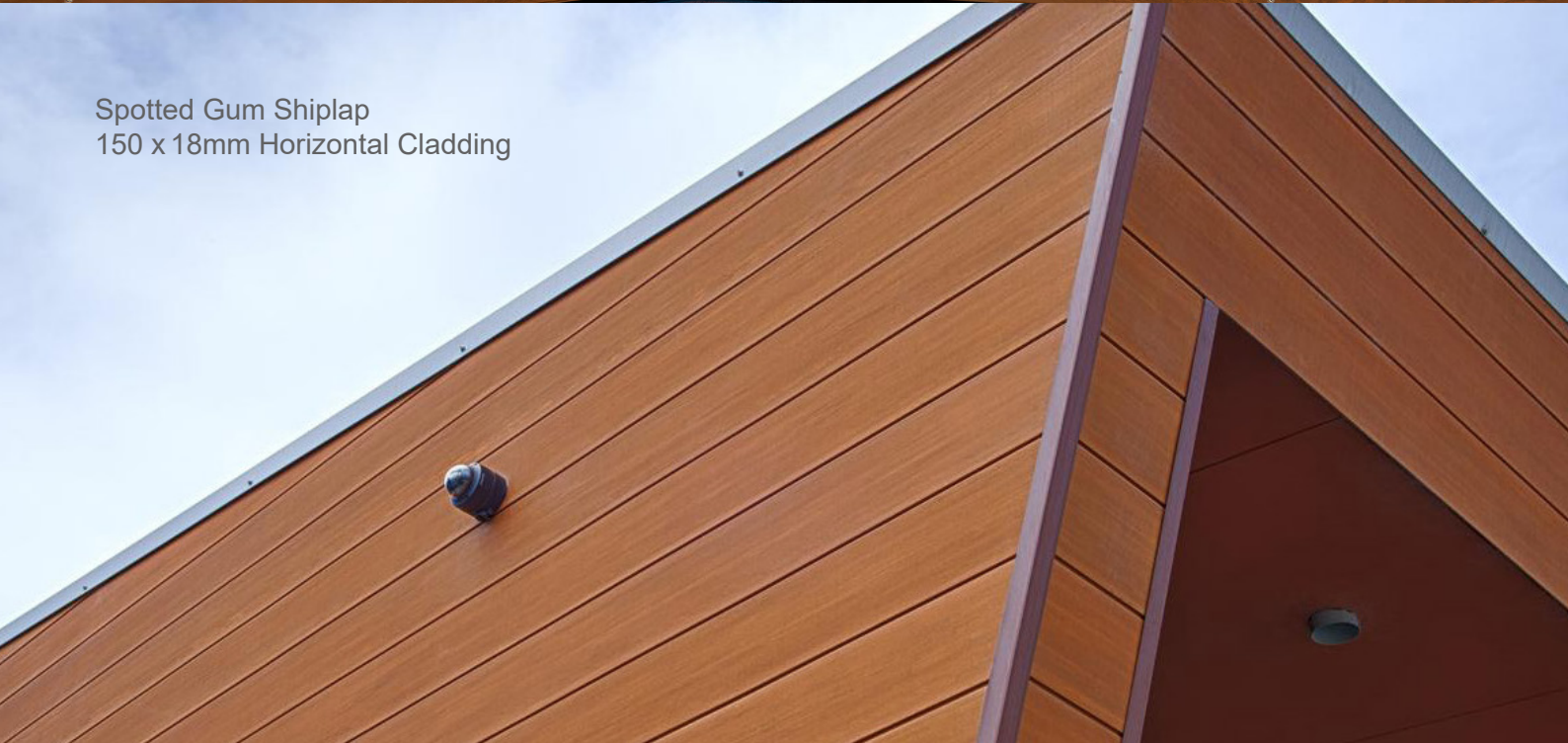
Lexicon White Shiplap
150 x 18mm Ceiling



Lexicon White Shiplap
150 x 18mm Vertical Cladding



Spotted Gum Shiplap
150 x 18mm Horizontal Cladding





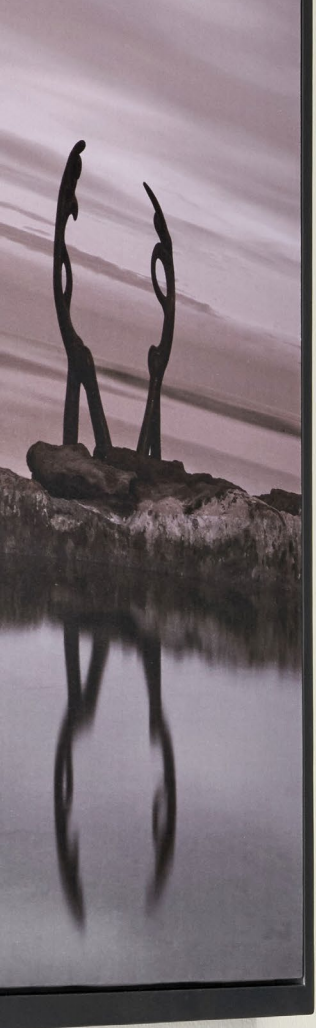
Natural Oak Castellated
180 x 35mm Vertical Flush
Mount Sectional Garage Door



Black Japan Castellated
180 x 35mm Vertical Tilt Garage



Black Japan Castellated
180 x 35mm Vertical Wall Lining



15 Year Limited Warranty

BGRM (Aust.) Pty Ltd (“Biowood”) warrants its entire composite product, in its original manufactured state, to be free from manufacturer’s defects subject to the term’s conditions and limitations.

GRM (Aust.) Pty Ltd (“Biowood”) warranty is for a period of 15 years, from the date of purchase of the Biowood products, warrants its products to be resistant to cracking, splitting, swelling or rotting, flaking or peeling, water and moisture and to termites and other vermin. Excluding any mechanical problem such as indentation, scratches and/or surface damage caused by lack of proper protection and/or maintenance, moisture problems, or abuse. Colour & gloss reduction is not considered surface wear. It is to be expected a 10% colour fading yearly due to normal wear and tear.

Biowood uses 69% post-consumer recycled wood powder which means each batch can have different colour and grain variation. GRM (Aust.) Pty Ltd (“Biowood”) cannot guarantee against natural variations in each plank, nor differences between sample and colour of the floor. The installer is responsible for inspecting each plank for colour, finish, size and other quality issues prior to installation. Should there be any defects noted prior to installation, GRM (Aust.) Pty Ltd (“Biowood”) will replace the defective planks. GRM (Aust.) Pty Ltd (“Biowood”) does not warrant installation, nor is it covered in claims.

GRM (Aust.) Pty Ltd (“Biowood”) warranty does not cover indentations, scratches, or damages cause by negligence, exposure to extreme heat, dryness or water saturation, accidents, abuse, misuse, indentations from heels or pets, stains as a result of chemical or industrial products, insufficient protection or improper alterations of the original manufactured product.

GRM (Aust.) Pty Ltd (“Biowood”) may provide recommendations on installation. GRM (Aust.) Pty Ltd (“Biowood”) does NOT warranty any of these recommendations or products, including but not limited to installation tools such as staple guns, installation instructions, finishes, and cleaners. Please consult the manufacturers of these products and or the installer for warranty information.

GRM (Aust.) Pty Ltd (“Biowood”) is not a shipping company and cannot warrant damage that may have occurred while in transit. It is the customer’s responsibility to inspect all material upon arrival. If any damage is found it must be documented on the original bill of lading and is the customer’s sole responsibility to seek compensation from the shipping company. Each customer has the right to arrange their own shipping.

The warranty is given under normal environmental conditions, for which the products are designed, without the harm of external elements and chemical corrosion, through misuse and or improper storage, handling, application, finishing and or poor maintenance; alterations to the structure supporting the Biowood products, after the original installation of the products; act of terrorism or war; natural disaster events, such as hurricanes, tornados, hail, earthquakes, floods, fire or other similar causes beyond the control of Biowood.

There are no express or implied warranties except as stated herein and under the current Australian federal and state legislation, and there are no implied warranties of the merchantability and fitness for a particular purpose and no representative has the authority to make any representations other than those stated herein.

The products must be installed, coated, and maintained in accordance with the Biowood current and relevant specifications, instructions in strict compliance with the current provision of the BCA, regulations, and standards, current at the time of installation.

The coating/varnish, fasteners and fixings must be of appropriate materials and used in accordance with Biowood specifications.

That care of the Biowood product is maintained as per maintenance instructions provided by Biowood.

Biowood shall under no circumstances be liable for incidental consequential damages, including but not limited to injury to any person or damages to the building or the contents of the building, including any such damages relating to the presence of damp, mould, or mildew.

This warranty shall not be applicable to damage, loss or consequential loss caused in whole or in part by and does not provide protection against any failure, defect or damage caused by situations and events beyond normal usage or exposure conditions, including but not limited to:

1. Natural disaster events, including but not limited to lightning, wind gusts more than the design wind speed for the building, hail or similar natural disaster events.
2. vandalism, acts of war, or civil disturbances.
3. environmental fallout or overexposure to commercial and or industrial solvents, acids, caustic fluids, oils, waxes, greases, absorbent clays, bleaches, plasticizers, or other harmful chemicals.

The products are not warranted against discolouration or other damage caused by air pollution, mildew, exposure to harmful chemicals or normal weathering from the elements, normal weathering is defined as exposure to sunlight and extremes of weather and atmosphere which will cause any coloured surface to gradually fade, chalk, or accumulate dirt or stains.

The severity of any condition depends on the geographical location of the product, the cleanliness of the air in the area, and many other influences over which Biowood has no control; Biowood shall have sole discretion to determine, based on reasonable criteria, whether the product is suffering from normal weathering. If the product weathers to a degree determined by Biowood to be beyond normal, Biowood may provide replacement material, at its option, for the defective product.

Biowood also reserves the right to refund the amount paid by the original purchaser for the product material (but not including the cost of its initial installation & logistic cost).

15 Year Limited Warranty

How to get warranty service?

The claimant shall provide GRM with written notice & proof of purchase of any material product defect of any claim under this warranty within (30) days, after the defect would have become reasonably apparent. If the defect was reasonably apparent prior to installation, then the claim must be made prior to installation and if any such defective products are installed then this warranty is negated. Such notice shall be given by certified mail to Green Resources Material Australia Pty. Ltd.

Biowood may request additional information. After reviewing all information, Biowood will decide regarding the validity of such claim. If Biowood determines that Purchaser's claim is valid, Biowood will, at its option, either replace the defective Biowood Products or refund the portion of the purchase price paid by Purchaser for such defective Biowood Products (not including the cost of its initial installation & logistic cost).

If Biowood investigation of any claim under this warranty reveals that Biowood is not responsible under the terms of this warranty for the purchaser's claim, the purchaser shall promptly reimburse the investigation costs incurred by Biowood.

Exclusion of damages

Consequential loss shall mean the indirect or special loss and or damage arising from a breach of the purchase contract, tort (including negligence), under statute and or any other basis in law or equity including, but without limitation, the following:

- i. loss of profits;
- ii. loss of revenue;
- iii. loss of production;
- iv. loss or denial of opportunity;
- v. loss of access to markets;
- vi. loss of goodwill;
- vii. loss of business reputation or future reputation or publicity;
- viii. damage to credit rating;
- ix. and or loss of use;
- x. or any similar loss whether in the reasonable contemplation of the parties at the time of the execution of the purchase.

Effective law

This warranty is subject to the laws of Australia & New Zealand. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Nothing in this warranty limits or restricts, or is intended to derogate from, any right or remedy which the purchaser or ultimate user of the product may have pursuant to Australian state and/or Australian Federal Consumer Protection Legislation, New Zealand Sale of Goods Act, Consumer Guarantees Act, Fair Trading Act or any other relevant and applicable New Zealand legislation.



Proudly supplied by

Dahlsens SINCE 1877
For the Builder.

Dahlsens
dahlsens.com.au
enquiries@dahlsens.com.au
1300 324 573