

Materials, Colours & Finishes



GLOBAL
GREEN TAG
CERTIFIED



GreenRate | Level B

trust brands™



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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 colors 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.

The material feature values shown right 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 visit www.grmaustralia.com.au



Material Features

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,	+ 0.08%
Water Absorption after 24 hours	Section 23, Method A	+ 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
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 ² /kg
Biowood Premium 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, and smoke release	AS/NZS 1530.3:1999	Ignitability (0-20) = 13 heart release Spread of Flame (0-10) = 0 Heat Evolved (0-10) = 1 Smoke Developed (0-10) = 7
Anti-Fungus Test	ASTM Designation: G21-15	0 (No growth)
Asbestos Test	TUV (NIOSH) 9002 Asbestos (bulk) by Polarized Light Microscopy	No Asbestos fibers
Formaldehyde Emission	EN 717-2:1994 Determination of Formaldehyde Release – Part 2	0.03 mg/m ² /hour (Formaldehyde)
Formaldehyde Emission	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

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Brushed UV Sealed (Indoor & Outdoor Application)

Classique Range: Profile WPO18035, WPO18025A, WPO25028 & WPO30060



Spotted Gum – Bioseal UV Seal Brown



Deep Walnut – Bioseal UV Seal Brown



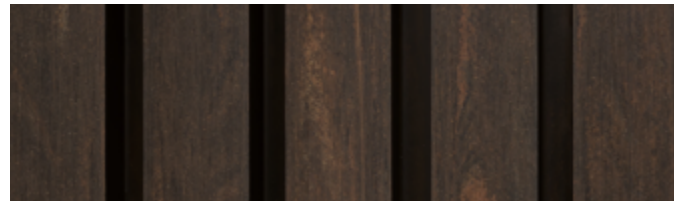
Charred Wood – Bioseal UV Seal Monument



Black Japan – Bioseal UV Seal Black



Western Red Cedar – Bioseal UV Seal Clear



American Walnut – Bioseal UV Seal Clear

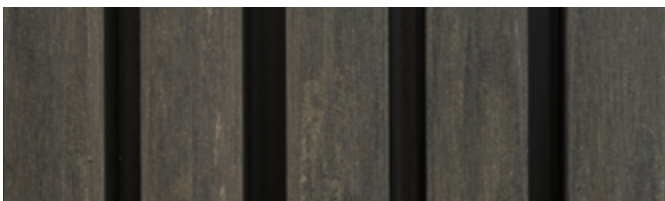
Premium Range: Profile WPO18035, WPO18025A, WPO25028 & WPO30060



Natural Oak – Bioseal UV Seal Clear



Spotted Gum with Black Rebate – Bioseal UV Brown – WPO18035



Weatherwood – Bioseal UV Seal Clear



Natural Oak with White Rebate Bioseal UV Seal Clear – WPO18035



Lexicon White – Bioseal UV Seal



Natural Oak with Black Rebate – Bioseal UV Seal Clear – WPO30060

Colors and textures shown are purely indicative. Please check our real samples for approval. Biowood is classified as natural product. Considering the presence of natural wood fibers, colors and grain variation is to be expected from batch to batch.

Materials, Colours & Finishes

Sanded UV Sealed (Indoor & Outdoor Application)

Classique Range Profiles:

WPO15018, WPO18518, WPO20018, WPO25018 & WPO60018



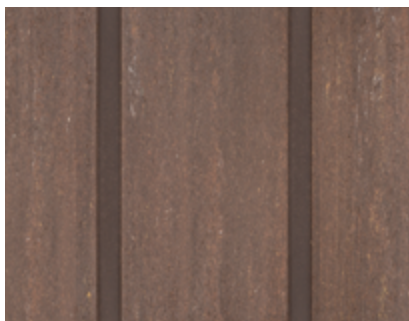
Spotted Gum – Bioseal UV Seal Brown



Black Japan – Bioseal UV Seal Black



Western Red Cedar – Bioseal UV Seal Clear



American Walnut – Bioseal UV Seal Clear

Premium Range Profiles:

WPO15018, WPO18518, WPO20018, WPO25018 & WPO60018



Charred Wood – Bioseal UV Seal Monument



Natural Oak – Bioseal UV Seal Oak



Weatherwood – Bioseal UV Seal Clear



Lexicon White – Bioseal UV Seal LW

Sanded Embossed UV Sealed (Indoor & Outdoor Application)

Premium Range Profiles:

WPO15018, WPO18518, WPO20018,
WPO25018 & WPO60018



Charred Wood – Bioseal UV Seal Monument



Natural Oak – Bioseal UV Seal Clear



Driftwood – Bioseal UV Seal Clear



Lexicon White – Bioseal UV Seal Clear

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