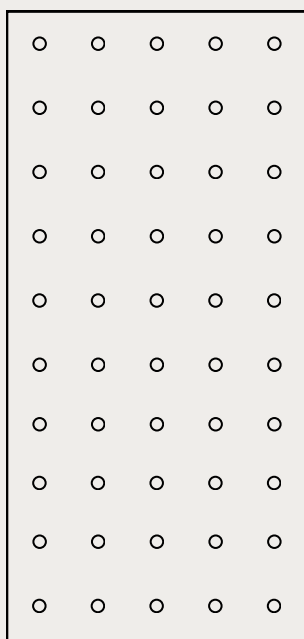




OPERA V

SYMPHONY SERIES ®

LAMINATED ENGINEERED BAMBOO
GROOVED CLADDING PANEL

PRODUCT DATA SHEET

house of
bamboo

EST. 1972

WHY SPECIFYING MATTERS

CHOOSING SUSTAINABILITY WITH CONFIDENCE

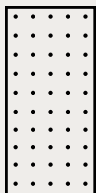


When you specify materials for your projects, it's not just about meeting technical requirements—it's about making a statement on sustainability. At House of Bamboo®, each of our products is more than just a building material; it's a commitment to ethical and environmentally responsible construction. Our engineered bamboo products come with a suite of certifications that assure you of their quality and sustainability:

- Global GreenTag Certified - Level A and Health Rate - Platinum, equating on a global scale to standards such as WELL, Green Star, LEED, IWBI, and the IS Rating Tool. This indicates the highest levels of environmental and health performance, underscoring the global relevance and rigour of our certifications.
- FSC Certification to guarantee that the bamboo is sourced from responsibly managed forests.

When specifying our materials, you must include these environmental credentials to ensure the quality of product for your clients. Additionally, by choosing House of Bamboo®, you are opting for carbon negative products, which significantly reduce greenhouse gas emissions, further cementing your project's role in combating climate change.

House of Bamboo® is accredited by third parties, ensuring specifiers that the materials they choose are genuine. Selecting House of Bamboo® means choosing eco-friendly products of superior quality and integrity. Not all engineered bamboo products are alike; insist on the best—insist on House of Bamboo®.



OPERA V

PRODUCT DATA SHEET

CLASSIFICATION

Series	Symphony Series ®
Model	Opera V
Description	Engineered 3 layer cross laminated engineered bamboo acoustic panel, with optional acoustic cloth backing. The acoustic backing is a 0.3mm P16 Black Fleece.

PHYSICAL PROPERTIES

STYLE	LAMINATED VERTICAL GRAIN
Finishes For more information on stains available, go to "Finishes Available" Page 04.	Raw
Dimensions Length [L] x Width [W] x Depth [D]	1200mm [L] x 600mm [W] x 18mm [D] 2400mm [L] x 600mm [W] x 18mm [D] [Backing Optional]

PACKAGING PROPERTIES

Length [L] x Width [W] x Depth [D]	1220mm [L] x 620mm [W] x 100mm [D] 2420mm [L] x 620mm [W] x 100mm [D]
Quantity Per Pack	5 Pieces Per Box

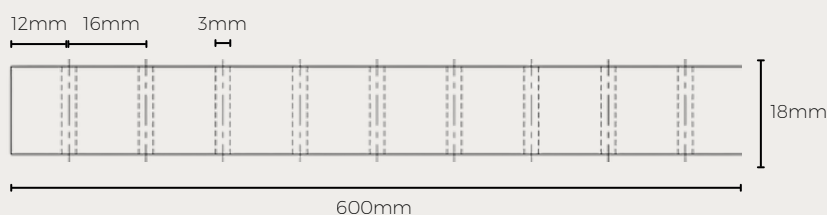
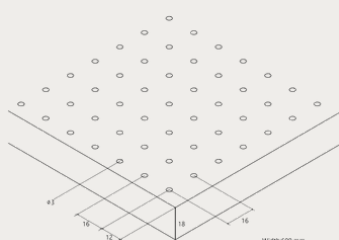
SKU BREAKDOWN

Type	Series	Model	Width	Height	Colour	SKU
ACOU = Acoustic	SYMP = Symphony	Opera 5	600mm	1200mm 2400mm	R = Raw	ACOU-SYMP-OPERA-5- W600-H1200-R

SKU LIST

ACOU-SYMP-OPERA-5-W600-H1200-R	ACOU-SYMP-OPERA-5-W600-H2400-R
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PROFILE



Note: Profile drawing are indicative and not to scale.

PRODUCT TECHNICAL SPECIFICATION AND TOLERANCE

PROPERTIES	STANDARD
Indoor Emissions	Class E1 [$<0.124 \text{ mg/m}^3$] [EN 717-1]
Hardness [Brinell]	$> 4 \text{ kg/mm}^2$ [EN 1534]
Durability	Class 1 (EN 350 / CEN/TS 15083-2)
Fire Rating	Group 3 [AS ISO 9705:2003] : B grade Bfl-s1 (EN 13501-1)
BAL Rating	N/A
Density of Material kg/m^3	680 kg/m^3
Tolerance	Length: $\pm 0.5 \text{ mm}$ per m Width: $\pm 0.5 \text{ mm}$ per m Thickness: $\pm 0.5 \text{ mm}$ per m
Moisture Content	9% - 13%
H3 Treatment [For External Applications]	As per Australian Standards 1604

CERTIFICATIONS

Global GreenTag Standards	GreenRate Level A HealthRate Platinum
International Living Future Institute	Declare Label LBC Red List Approved Material 1-10 Interior Performance: CDPH Standard Method v1.2-2017 1-14 Responsible Sourcing: Product Available with FSC Chain of Custody; Low Risk Wood
FSC	Certified [Available on Request]
Rating Tools	Green Star – AU- GBCA IS Rating – ISCA USGBC LEED V4.0 and v4.1 Rating Tool Credit WELL Features - IWBI
Fire Rating Level	Class 3 (Refer to National Construction Code.)

HOB GREENTAG CERTIFICATION

Green Building, Interiors & Infrastructure Sustainability Rating Tools	Recognized in Product & Materials Credits and WELL Features	Global GreenTag International Certifications & Declarations			
		GreenRATE Level A	LCARATE	Product Health Declaration	Environmental Product Declaration
WELL, Green Star	VOC, IAC	✓		✓	
LEED	USGBC	✓			
WELL - IWBI	EPDs			✓	
IS Rating Tool	Sustainable Product Ecolabel Certification	✓	✓	✓	✓

PRODUCT HEALTH DECLARATION AND HEALTHRATE CERTIFICATION

House of Bamboo's Engineered Laminated bamboo products are made with rapidly renewable materials. The products are tested against AS/NZ 3837. House of Bamboo's Engineered Laminated bamboo products are resistant to termites and require minimal maintenance when installed internally.

ACOUSTIC PROPERTIES

Frequency[Hz]	Sound Absorption Coefficient
	Output
250	0.85
500	0.78
1000	0.66
2000	0.64

The optional acoustic fabric is the 0.3mm P16 Black Fleece Backing. Noise Reduction Coefficient [NRC] is met by optimising this particular acoustic impedance to maximize sound absorption.
Calculated NRC with Optional P16 Black Fleece Backing = 0.73

FLAMMABILITY PROPERTIES OF THE 0.3MM P16 BLACK FLEECE BACKING

UJ94	MVSS-302	SAEJ369a	AS 1530.3			
NT	Self Exiting	Self Exiting	Ignitability	Spread of Flame	Heat Evolved	Smoke Develop
			0	0	0	4

MECHANICAL PROPERTIES OF THE 0.3 P16 BLACK FLEECE BACKING

Weight	Tear Resistance	Tensile Strength	Elongation
80g/sqm	TP	TP	%

CHEMICAL RESISTANCE OF THE 0.3MM P16 BLACK FLEECE BACKING

Acetone	MEK	PETROL	DIESEL	10% HCL SOLUTION	10% NaOH SOLUTION	CARBONTETRACHLORIDE
Good	Fair	Excellent	Excellent	Good	Good	Excellent

MATERIAL SPECIFICATION

Composition LBC Declare Label Red List Approved Material	99% Phyllostachys Edulis Bamboo Fibre 1% Resin
Material Identification	Scientific Classification: Family Poaceae, Genus Phyllostachys, Species P. edulis.
Treatments for External Application	Mould proof treated-H3 [External] as per Australian Standards AS 1604
Recommended Use	Screens, Cladding, Fencing Joinery
Hazard Identification	Not classified as Hazardous according to the Globally Harmonised System of Classification and labeling of Chemicals (GHS), including Work, Health and Safety Regulations, Australia. Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

*The lifespan of wood, bamboo and other natural materials can be compared by means of a classification according to the European standard EN 350. In the wood industry the classification is common knowledge:
Durability Class 1 = very durable, expected life span 25 years or more // Durability Class 2 = durable, expected life span 15-25 years // Durability Class 3 = moderately durable, expected life span 10-15 years // Durability Class 4 = little durable, expected life span 5-10 years // Durability Class 5 = not durable, expected life span 5 years or less

ACCESSORIES

Bamboo Capping Square 	Finish	Length [L] x Width [W] x Height [H]	SKU
	Raw	5800mm [L] x 38mm [W] x 48mm [H] 5800mm [L] x 40mm [W] x 70mm [H]	CAPP-VERT-SQUARE-38-W48-H5800-R CAPP-VERT-SQUARE-40-W70-H5800-R
	Teak	5800mm [L] x 38mm [W] x 48mm [H] 5800mm [L] x 40mm [W] x 70mm [H]	CAPP-VERT-SQUARE-30-W38-H5800-T CAPP-VERT-SQUARE-40-W70-H5800-T

FINISHES AVAILABLE - CUSTOM ORDERS

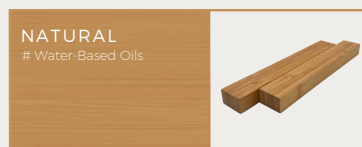
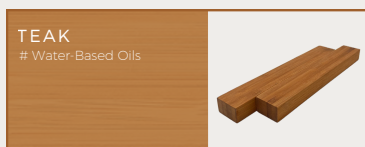
WOCA Denmark® water-based Oil [https://wocadenmark.com/]	Colours Available: Natural, Teak, Black, Grey, Walnut, Bangkirai, Larch, Antracite, White, Hazelnut, Merbau, Stone Grey, Thunder Grey.
Vernites® water-based finish with tintometric system based on 26 colour options, that can be modified to get different intensity and gloss levels. [https://www.vernitesaustralia.com.au/]	Colours Available: Pino, Noce, Hemlock, Teak, Castagno, Noce Rossiccio, Mogano, Larice, Noce Chiaro, Douglas, Noce Acerba, Noce CR, Noce Scuro, Verde Scuro.
Application of Finishes	Please check supplier Product Data Sheet and Safety Data sheets prior to application.
Measurements	Please contact our Sales Team to discuss the available options.

*Please contact our Sales Team to discuss order as cost may differ from standard products.

HANDLING & STORAGE

Precautions for Safe Handling	Material should be stored in a cool dry area. Exposure to moisture may cause mould or mildew to form on the surface of the material.
Minimise Handling	To reduce potential damage to materials, minimize handling and utilize team lifting procedures.
Proper Stacking	Materials should be stored flat on raised blocking of equal thickness and spacing. Recommended spacing for spacers is every 30 to 60 cm.
Light	Avoid long exposure to direct sunlight for unfinished materials.
Acclimation	Materials should be allowed to acclimate to the installation environment and humidity prior to installation. Recommended acclimation time is 48 to 72 hours.

COLOUR CHART



STATEMENT OF RESPONSIBILITY

This publication's technical information and application suggestions are based on the best of our current knowledge. Since the material provided here is general in nature, no guarantee of correctness, dependability, or completeness—either expressed or implied—is offered, save as required by Commonwealth or State law. Moreover, no assumption can be made regarding a product's suitability for a given use or application. The responsibility of verifying that products are appropriate for the purposes for which they are intended falls on the owner, his agent, or the contractor.

TALK TO US ABOUT THE BAMBOO YOU NEVER KNEW

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	Sunday: Closed
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