



MERBAU DECKING



Lumbermill

LUMBERMILL SHOWROOM
Jl. Pantai Saba No.47509, Saba, Kec. Blahbatuh,
Kabupaten Gianyar, Bali 80581
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Premium tropical hardwood decking made from Merbau, *Intsia bijuga*, a highly durable species native to Southeast Asia and the Pacific.

Known for its rich reddish-brown color, high natural oil content, and exceptional durability, Merbau is ideal for demanding outdoor environments including luxury residential and commercial projects.

THICKNESS	WIDTH	LENGTH
19 mm	90 — 145 mm	1200 — 4200 mm
21 mm	90 — 145 mm	1200 — 4200 mm
25 mm	90 — 145 mm	1200 — 4200 mm
Custom	On request	Up to 4200 mm

(Custom sizes available for bulk orders)
(FSC® available on request for green building compliance)



Premium hardwood decking manufactured from selected Merbau timber. Known for its rich reddish-brown color, high natural oil content and excellent durability, Merbau is well suited for demanding outdoor environments. Typical uses include outdoor decking, pool decks, terraces, coastal installations and high-end residential or hospitality developments.

ADVANTAGES

- Excellent resistance to decay, fungi and termites
- High dimensional stability in humid climates
- Naturally rich reddish-brown appearance
- Highly durable for demanding exterior applications

TYPICAL APPLICATIONS

- Outdoor decking
- Pool surrounds
- Villa terraces
- Coastal installations
- Commercial outdoor flooring





DECLARATION OF PERFORMANCE (DOP)			
DOP No.	LM-MERBAU-01		
Identification code	Merbau Decking		
Product type	Solid hardwood decking		
Intended use	Exterior decking for terraces, pool areas and landscape architecture		
Manufacturer	Lumbermill Bali Jl. Pantai Saba No.47509, Saba, Blahbatuh Gianyar, Bali 80581 – Indonesia www.lumbermillbali.com		
System of assessment	System 4		
Moisture Content	12% — 16%		
Harmonized technical specification	EN 350 — Durability of wood		
DECLARED PERFORMANCE			
Essential Characteristics	Performance		
Thickness (mm)	19	21	25
Wood species	Intsia bijuga		
Density	800 — 900 kg/m³		
Durability class	Class 1–2 (Very durable)		
Reaction to fire	Class D		
Slip resistance	High (natural hardwood surface)		
STRENGTH VALUES (N/mm²)			
Property	Value		
Bending strength parallel	110 — 130		
Bending strength perpendicular	20 — 30		
Tensile strength parallel	120 — 150		
Tensile strength perpendicular	8 — 12		
Compression strength parallel	65 — 75		
Compression strength perpendicular	10 — 15		
Shear strength	14 — 18		



MECHANICAL PROPERTIES (N/mm²)			
Property	Value		EN 350 – Durability of wood EN 335 – Use classes for wood ISO 13061 – Physical and mechanical properties of wood
Bending modulus parallel	16 000 – 19 000		
Bending modulus perpendicular	900 – 1 200		
Tensile strength parallel	120 – 150		
Tensile modulus perpendicular	7 – 10		
Compression strength parallel	65 – 75		
Compression modulus perpendicular	10 – 15		
ADDITIONAL PROPERTIES			
Property	Value		EN 350 – Durability of wood EN 335 – Use classes for wood ISO 13061 – Physical and mechanical properties of wood
Puncture resistance	High		
Impact resistance	High		
Vapour permeability (µ) wet cup	45		
Vapour permeability (µ) dry cup	180		
Acoustic absorption (250-500 Hz)	0.10		
Acoustic absorption (1000-2000 Hz)	0.30		
Thermal conductivity	0.16 W/mK		
Pentachlorophenol content	<5 ppm		
The performance of the product identified above is in conformity with the declared performance.			
This declaration of performance is issued under the sole responsibility of the manufacturer.			
Manufacturer :	Lumbermill Bali	Place :	Bali, Indonesia