



Bangkirai hardwood decking is manufactured from *Shorea laevis* and other Shorea species, commonly known as Yellow Balau. This dense tropical hardwood is widely used for exterior decking, boardwalks and structural outdoor applications due to its high strength, durability and natural resistance to decay and insects. Sustainably sourced from Indonesia and Southeast Asia, Bangkirai is particularly suitable for humid, coastal and tropical climates where long-term performance and structural stability are essential.

THICKNESS	WIDTH	LENGTH
21 mm	90 — 145 mm	1800 — 4800 mm
25 mm	90 — 145 mm	1800 — 4800 mm
28 mm	90 — 145 mm	1800 — 4800 mm



Bangkirai decking boards are designed for exterior architectural installations and landscape structures requiring durable hardwood materials.

Naturally resistant to moisture, insects and decay, making Bangkirai suitable for exterior decking, terraces, coastal structures, public walkways and landscape architecture in humid or tropical environments.

ADVANTAGES

- High-density tropical hardwood
- Natural resistance to termites and decay
- Excellent performance in humid climates
- High load-bearing capacity
- Long service life

TYPICAL APPLICATIONS

- Outdoor decks and terraces
- Resort and hospitality walkways
- Public boardwalks and promenades
- Poolside decking areas
- Residential and commercial exterior flooring





DECLARATION OF PERFORMANCE (DOP)			
DOP No.	LM-BKD-01		
Identification code	Bangkirai Hardwood Decking		
Product type	Solid tropical hardwood decking boards		
Intended use	Exterior decking in humid or outdoor environments		
Manufacturer	Lumbermill Bali Jl. Pantai Saba No.47509, Saba, Blahbatuh Gianyar, Bali 80581 – Indonesia www.lumbermillbali.com		
System of assessment	System 2+		
Moisture Content	12% - 18%		
Harmonized technical specification	EN 350 – Durability of wood		
DECLARED PERFORMANCE			
Essential Characteristics	Performance		
Thickness (mm)	21	25	28
Density	850-950 kg/m³		
Durability class	Class 2-3 (Durable to moderately durable)		
Use class	Class 4		
Reaction to fire	Class D		
Resistance to fungi	Naturally durable		
Termite resistance	High		
Weather resistance	Excellent		
STRENGTH VALUES (N/mm²)			
Property	Value		
Bending strength	~120		
Tensile strength	~90		
Compression strength	~85		
Shear resistance	~13		



MODULUS OF ELASTICITY (N/mm²)			
Property	Value		EN 350 – Durability of wood EN 335 – Use classes for wood ISO 13061 – Physical and mechanical properties of wood
Modulus of elasticity (MOE)	18,000 MPa		
Bending modulus	14,000 – 18,000 MPa		
Compression modulus	8,000 – 11,000 MPa		
ADDITIONAL PROPERTIES			
Property	Value		EN 350 – Durability of wood EN 335 – Use classes for wood ISO 13061 – Physical and mechanical properties of wood
Shrinkage (tangential)	7,30%		
Shrinkage (radial)	4,20%		
Stability	Moderately stable		
Impact resistance	High		
Thermal conductivity	~0.16 W/mK		
Slip resistance	High (natural hardwood surface)		
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