TEAK SOLID WOOD SLAT WALL PANELS AND CEILINGS

Teak

Tectona grandis L.f. · family Lamiaceae

Natural elegance, stability and weather resistance.

One of the most valued tropical woods in the world, a reference for centuries in boatbuilding, yacht interiors and outdoor furniture. Teak combines golden beauty, stability and weather resistance, and it is the most recognized wood in the international market.



Teak 4x1 slat, 4 cm face with a 1 cm reveal



Teak bathroom wall, Oceano model



Facade clad in Teak

Identification

Trade name	**Teak**
Botanical name	***Tectona grandis***
Family	**Lamiaceae**

Other names: Teak. An Asian species; in Brazil it comes from commercial plantations, mostly in Mato Grosso.

Color and grain

Heartwood from golden to golden brown, with striking grain and a slightly oily touch from the wood's own natural oils. Left unfinished in the sun, it weathers to a silver gray over time; with varnish and maintenance, it keeps its golden tone.

Reference values for the species

Density at 15% moisture, about 41 lb/ft³	**660 kg/m³**
Janka hardness parallel, green wood, about 1,260 lbf	**5,600 N**
Bending strength modulus of rupture at 15%, about 13,300 psi	**92 MPa**
Radial and tangential shrinkage volumetric 6.7%	**2.1% and 4.6%**
Natural durability resistant to fungi, insects and weathering	**High**

Source: IPT, Teak data sheet, wood of unspecified origin. Teak from young plantations may show slightly lower density and hardness (Forests, 2024, plantations in Mato Grosso). Values from technical literature, not tests of the BTO product.

Density	Hardness	Stability	Natural durability
Medium	**Good**	**Very good**	**High**

Comparative rating among Cumaru, Teak and Tauari; not a certification.

Use recommendations

- ✓ Interior
- ✓ Covered outdoor area
- ✓ Facade and exposed area

Highly stable · Recognized worldwide · No minimum order.

BTO products in Teak

Models	**2x1, 4x1 and 8x1** 2, 4 or 8 cm face + 1 cm reveal
Thickness	**10 or 15 mm**
Piece and box	**2.00 m · 0.6 / 0.8 / 0.9 m²**
Finish	**factory varnished or unfinished**
Minimum order	**no minimum**

Drying and moisture

The wood goes through industrial kiln drying before machining: controlled drying removes excess moisture and helps minimize movement, warping and cracking. Solid wood keeps expanding and contracting with the climate: acclimate the pieces on site for at least 72 hours, out of the boxes, and leave a 1 cm (3/8 in) gap at the sides.

Installation guidelines

- Firm, dry substrate with no water infiltration; building closed in and dry.
- Treated wood battens every 30 to 45 cm (12 to 18 in), leveled.
- PU adhesive and one pin on each batten; staggered end joints over a batten.
- On ceilings, the wood goes directly on the battens, with no drywall.
- Exterior-grade varnish on all faces, before installation.
- Varnish maintenance according to sun and rain exposure.
- Technical support from the factory and installation manuals.

Maintenance

Clean with a soft, slightly damp cloth; mild soap if needed. No abrasives, solvents or bleach. Reapply varnish at the frequency recommended by the varnish manufacturer: when water no longer beads on the surface, it is time. Outdoors, with sun and rain, maintenance is more frequent. A light sanding with fresh varnish brings the surface back to a like-new look.

Origin and warranty

Solid wood purchased with Brazil's Forest Origin Document (DOF); traceability follows this documentation. 5-year warranty from the BTO invoice date against manufacturing defects, under the warranty terms for the Solid Wood Slat Panel.

Notes and limitations

- Technical values are reference values for the species, published in technical literature; they are not tests of the BTO product nor a guaranteed specification. They vary with origin, lot, moisture, grading and drying.
- IPT does not state the origin of the teak tested; teak from young plantations may show lower values.
- Color, grain, knots and small end checks vary between pieces and lots, and light changes the tone over time: these are inherent to solid wood.

Sources: IPT, Institute for Technological Research, Brazil. Wood information: Cumaru, Teak and Tauari. https://madeiras.ipt.br/ · Brazilian Forest Service, LPF (Forest Products Laboratory). Brazilian Woods Database, 2026. https://lpf.florestal.gov.br/pt-br/bd-madeiras-brasileiras · Cirad and ITTO. Tropix 7, data sheets for Cumaru, Teak and Tauari, 2026. https://tropix.cirad.fr/ · Kollert, W. et al. Global Teak Resources and Market Assessment 2022. IUFRO, FAO and ITTO, 2024. https://www.alice.cnptia.embrapa.br/alice/bitstream/doc/1164625/1/IUFRO-2024-GlobalTeakResourcesMarketAssessment.pdf · Souza, L.V.C. et al. Wood quality of young Tectona grandis trees in Mato Grosso, Brazil. Forests, v. 15, 860, 2024. https://doi.org/10.3390/f15050860 · BTO. Installation manual and warranty terms for the Solid Wood Slat Panel, version of October 24, 2026. www.btowood.com/manuais/en/manual-instalacao-garantia-painel-ripado-madeira.pdf