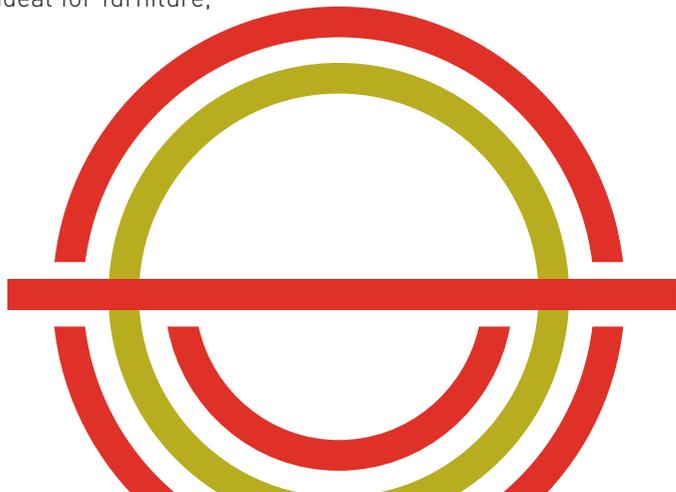


Premium, Cross Laminated Bamboo Ply & Veneer for Design & Architecture



LETObamboo is a premium quality solid bamboo plywood available in an extensive range of style and thickness combinations.

LETObamboo is suitable for commercial and residential applications and is ideal for furniture, construction and shopfitting.



About Bamboo

Bamboo is a variety of grass; the root system stays in place and sends up a new growth seasonally. No need for re-planting. The bamboo variety used for the manufacture of bamboo ply boards is **Phyllostachys Pubescens** - also known as Moso Bamboo.



This variety is a giant bamboo, measuring an average 180mm diameter. Bamboo grows like a hollow tube, with intermittent membranes at the nodes (rings around the stalk). The bamboo literally telescopes out of the ground as it grows.

The walls of the bamboo culm (stalk) taper and thin toward the upper part of the culm - usually exceeding 10m in height. This means the useable material from the culm for making bamboo ply, is sourced from the bottom 3 meters or so.



Environmental Factors

Choosing bamboo rather than timber, positively impacts the environment in several ways:

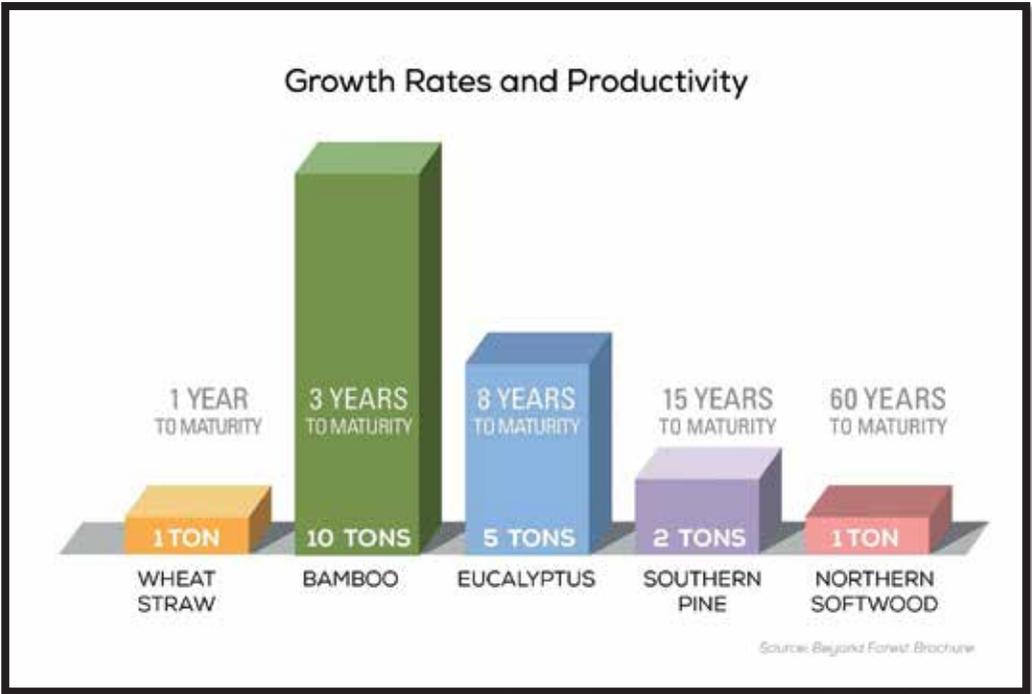
1. **Renewable resource** - bamboo is rapidly growing and there is no need for replanting.
2. **Absorbs greenhouse gasses** - bamboo is known to absorb 30% more greenhouse gasses than the average tree.
3. **Chemical Free** - no fertilizer, pesticides or herbicides are used in the growing of bamboo.
4. **Prevents soil erosion** - the root system of bamboo stays in place after harvesting, helping retain nutrients and hold the soil together.
5. **Tough** - bamboo grows in a variety of regions, from dry, drought affected areas to wetlands and snow.
6. **Minimal waste** - nearly all parts of the plant can be used to make a variety of products.
7. **Economic development** - creates jobs and livelihoods.



Growth & Production

Bamboo grows very rapidly in comparison to hardwood alternatives and fibre based products.

Refer to the chart below for details of fibre production per acre, per year.



About Bamboo Ply

To make a bamboo plied board, strips of sorted and processed bamboo are placed within a frame and glued together.

The thickness to be achieved, and the surface style being created - will determine the number of plies (layers).

Cross layering achieves the strength and stability and creates the unique look of the resultant board.

Using bamboo veneer and ply is like using **hardwood in sheet form**.

The glue used, is low formaldehyde emitting.

An Australian emissions test shows a very low VOC emission of <0.005mg/m²/hr; **less than a tenth** of the allowable rate.

Fire test - time to 'lashover' in an ISO room (re test, resulted with a Group 3 assessment).

All available test results can be found at: letobamboo.com

Samples:

- A set of all seven styles.
- Laser cutting sample kits to test on your machine.



Styles

LETObamboo is available in seven naturally beautiful and unique styles.



Narrow Grain Carbonised



Narrow Grain Natural



Wide Grain Carbonised



Wide Grain Natural



Strand Woven Multi



Strand Woven Natural

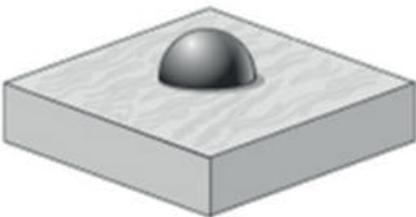
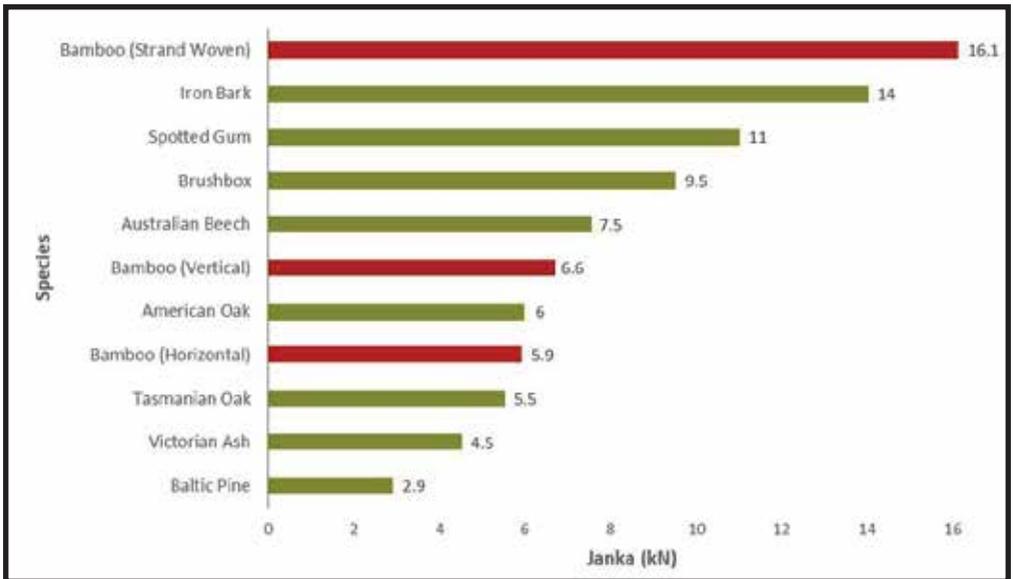


Strand Woven Carbonised

Hardness

Bamboo is harder than traditional hardwood timbers.

The Janka hardness rating chart below provides a comparison between bamboo and a range of timber alternatives.



The Janka hardness test measures the resistance of a sample of wood to denting and wear.

It measures the force required to embed an 11.28mm diameter steel ball halfway into the sample of wood.

Thickness

LETObamboo products are available in 11 thicknesses (availability depending on style), in a standard size of 2400mm x 1200mm. See the table below for detailed size and thickness information.

Thickness In mm	Board size	Wide Grain		Narrow Grain		Strand Woven		
		Natural	Carbonised	Natural	Carbonised	Natural	Carbonised	Multi
0.6	2500 x 1200 1 ply			✓	✓			
1.5	2400 x 1200 3 ply		✓	✓	✓			
2.5	2400 x 1200 5 ply		✓	✓	✓			
4.3	2400 x 1200 7 ply		✓	✓	✓			
5	2400 x 1200 1 ply	✓	✓	✓	✓	✓	✓	✓
6.5	2400 x 1200 3 ply	✓	✓	✓	✓			
8	2400 x 1200 3 ply	✓	✓	✓	✓			
12.7	2400 x 1200 3 ply	✓	✓	✓	✓	✓	✓	✓
	3050 x 1200 3 ply	✓	✓	✓	✓	✓	✓	
19	2400 x 1200 3 ply	✓	✓	✓	✓	✓	✓	✓
	3050 x 1200 3 ply	✓	✓	✓	✓	✓	✓	
25	2400 x 1200 3 ply	✓	✓	✓	✓	✓	✓	✓
30	2400 x 1200 3 ply	✓	✓	✓	✓	✓	✓	✓
	3050 x 1200 3 ply	✓	✓	✓	✓	✓	✓	
40	2400 x 1200 5 ply	✓	✓	✓	✓	✓	✓	✓
	3050 x 1200 5 ply	✓	✓	✓	✓	✓	✓	
	4000 x 900 5 ply	✓	✓	✓	✓	✓	✓	

Always check stock availability and due shipping dates.
Bold items are special order, and not always in stock.

Shaded box indicates not manufactured or not available at all.

Special Notes

- Bamboo (bre is a natural material; it is shipped at 8-15% moisture content.
- To prevent movement and/or fungal attack:
 - Store bamboo out of heat, wind, sun and rain.
 - Store bamboo sheets flat and evenly supported.
- **Bamboo should be sealed on all faces and edges as soon as possible after cutting to prevent any change.**
- The factory occasionally makes changes to face styles, core construction and colour. We attempt to give prior notice if these variations are greater than anticipated.

Suggested Uses

The table below notes some suggested uses for the various thicknesses.

For example, the thinner material is great for laser cutting, while the thicker is ideal for cabinetry, table and bench tops

Thickness	Descriptions and methods of manufacturing	Suggested Uses
0.6 mm	Veneer – single ply, fibre backed to assist in preventing glue penetration to the faces. Glue to substrates with water based PVA – can follow curves, cut with scissors, slightly translucent	Cabinet doors and edges, curved faces and structures, balustrades. Lamp and light shades
1.5 & 2.5 mm	Thin enough to bend, strong enough not to break easily.	Laser cutting and marking: Greeting cards, menus, small decorations, jewelry...
4.3 & 6.5 mm	Laser cutting, CNC cutting, traditional hand tools; scroll saws.	Light fittings, toys, signage, clocks
5 mm	1 ply used to cold press over alternative substrates	Reception desk panels. Back of island counters
8 mm	CNC cutting, laser marking, traditional hand tools and machining:	Craft and giftware, cabinetry rear panels, boxes and storage, signage, food service
12.7 mm	CNC routing patterns and cutting. Must be pre-drilled, then screwed	Ceiling and wall linings up to 3000 in height. Musical instruments
15, 19 & 25mm	CNC cutting, laser marking, traditional hand tools and machining: dovetails, mortise and tenon joints etc.	Making boxes, shelves, cabinets and tables of all descriptions. Desk tops, room dividers, decorative screens, bed heads, serving platters
30 & 40 mm	Panel / table saw. Use traditional joints (dovetail, mortise and tenon, halving joints. Japanese joining techniques. Turning on a lathe.)	Table tops, counter tops, full sized and over-size doors, stair treads.

Ordering

- Please advise of potential large orders to ensure stock is available when required.
- Sales are in full sheets, minimum order one sheet.
- Damage by user or cut sheets cannot be accepted for refund/return.
- Simple cutting service available (panel saw). Request a quote.





