

LETO[®] bamboo



100% Bamboo, Cross Laminated Plyboard.

Premium, Cross Laminated Bamboo Ply & Veneer

For Design and Architecture



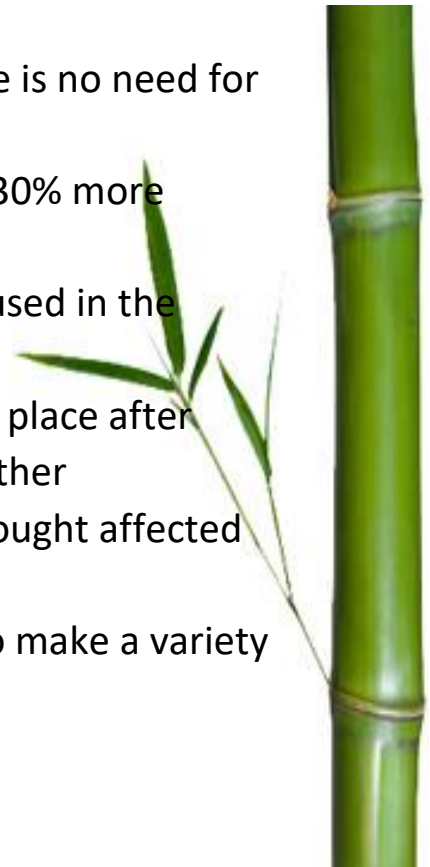
LETObamboo is a premium quality solid bamboo plywood, for those who want to make a statement. LETObamboo offers an extensive range of styles and thicknesses suitable for many applications, from hobby laser cutting to shop fitting.

Why Choose Bamboo?

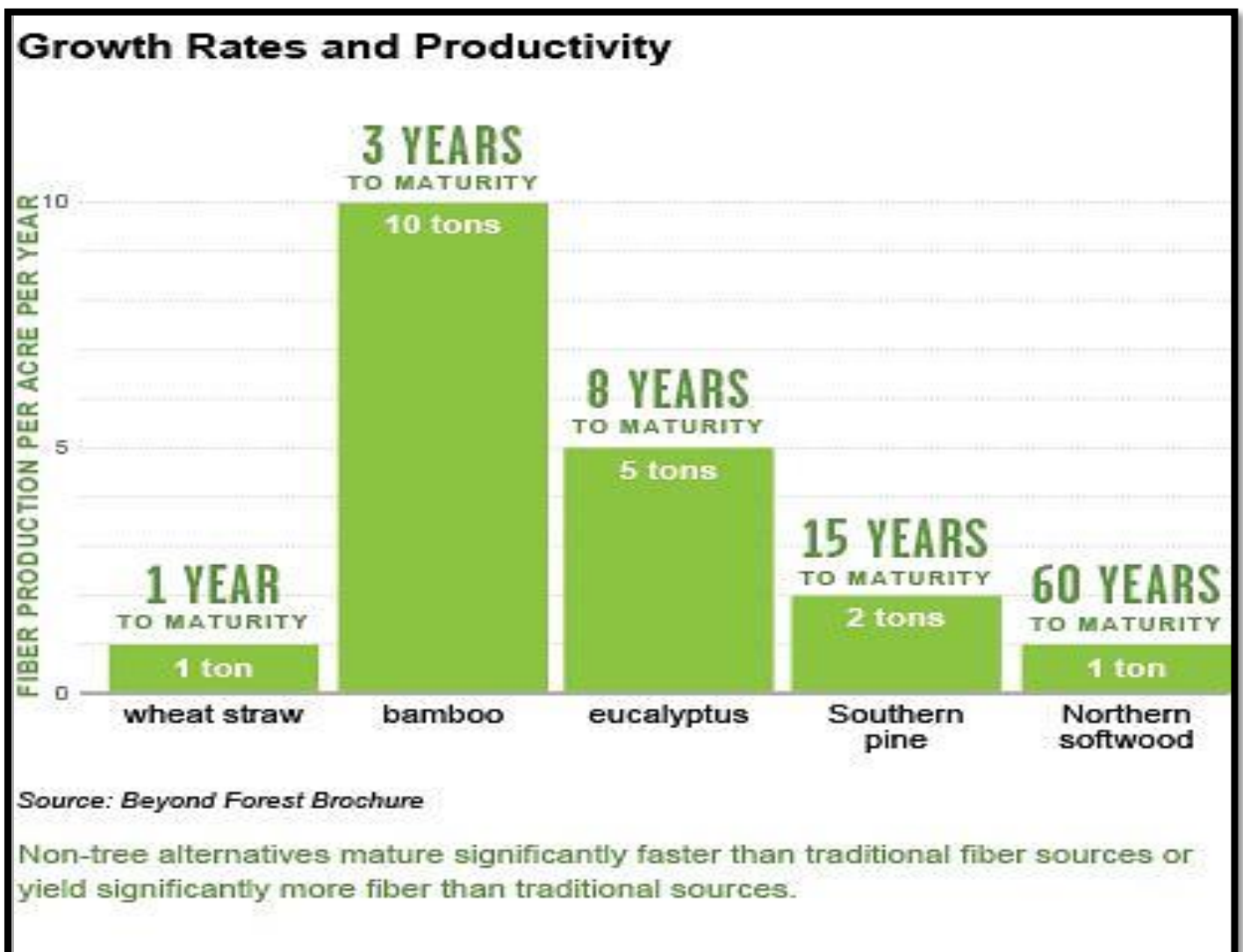
Bamboo is actually a variety of grass and is long known for its environmental benefits.

Choosing bamboo over other timbers 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.



Bamboo grows very rapidly compared to other hardwoods and alternative fiber based panels.



About Bamboo:

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



This variety is a giant bamboo, measuring on 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.



BAMBOO PLY

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

Depending upon the thickness to be achieved, and the surface style being created - will determine the number of ply's (layers).

The cross layering helps achieve the strength and stability, as creates the unique look of the resultant board

Using bamboo veneers and ply is like using hardwood in sheet form

The glue used is low Formaldehyde. An Australian emissions test shows very low VOC Emission Rate: <0.005 mg/m²/hr. from the bamboo: 1/10th of allowable rate of VOC emissions. Actual test results are available at www.letobamboo.com

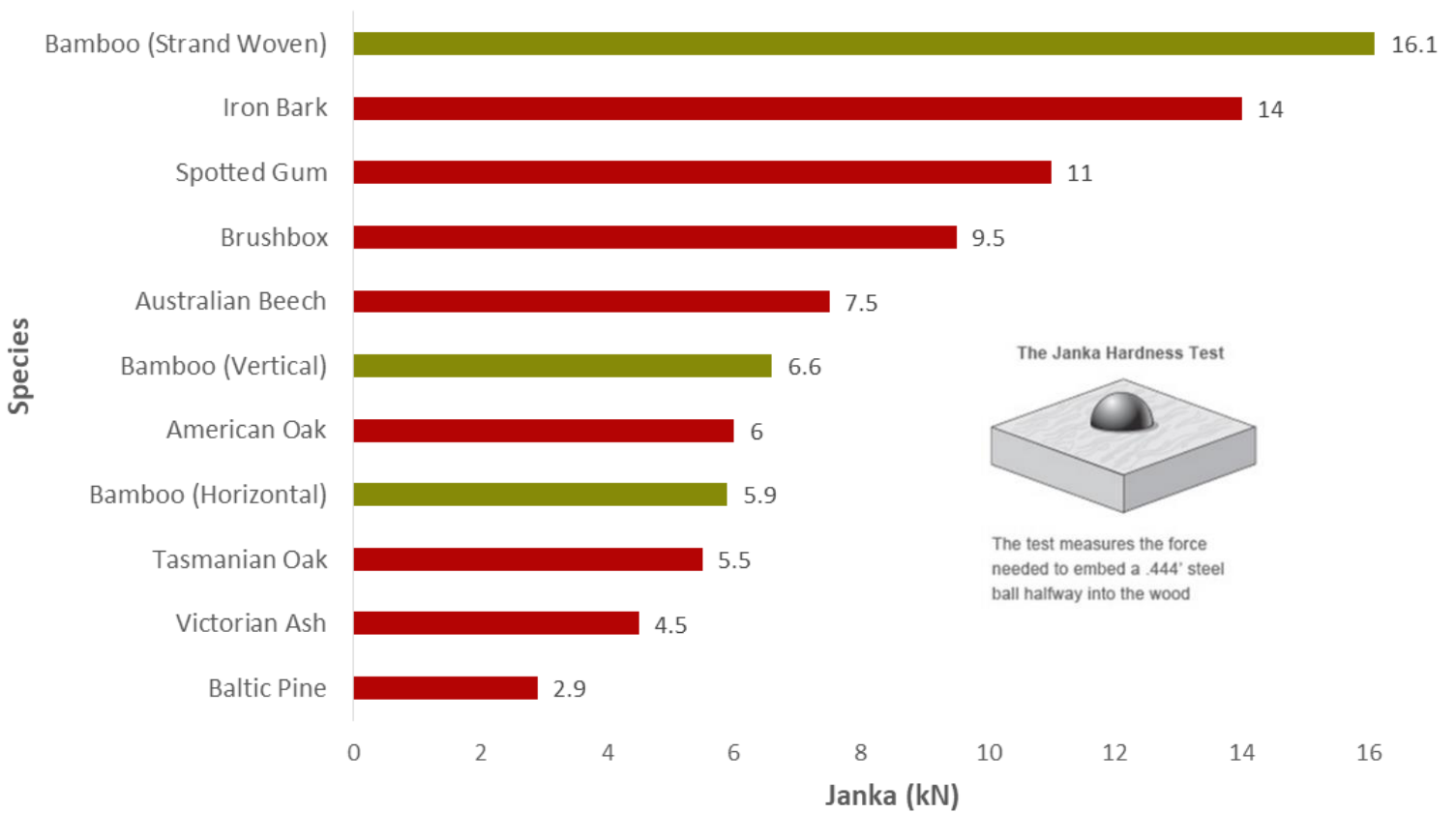
Spread of flame test results can be found at www.letobamboo.com

Fire test - time to 'flashover' in an ISO room fire test, resulted with a Group 3 assessment.

Bamboo is extremely hard and durable: see the Janka Hardness rating adjacent for impact resistance.



Bamboo is harder than traditional hardwood, see the Janka hardness rating chart:



Styles

LETObamboo comes in 7 different styles;
all naturally beautiful and unique.



Narrow Grain Natural



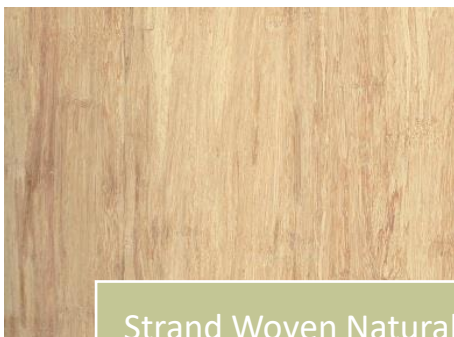
Narrow Grain Carbonised



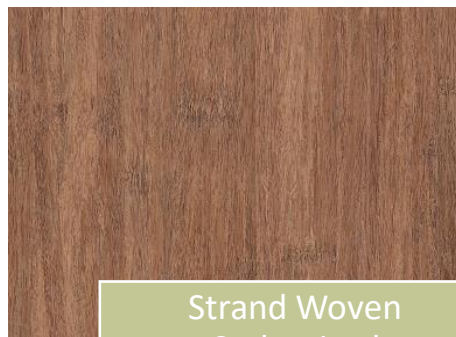
Wide Grain Natural



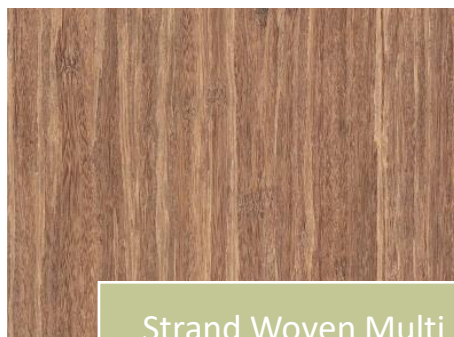
Wide Grain Carbonised



Strand Woven Natural



Strand Woven
Carbonised



Strand Woven Multi

Thicknesses

LETObamboo products come in a range of 13 different thicknesses (availability depending on style). In a standard size of 2400mm x 1200mm. (Grain direction runs with the 2400) See the table below for size and thickness information.



Thickness in mm	Sheet Size		Wide Grain Natural	Wide Grain Carbonised	Narrow Grain Natural	Narrow Grain Carbonised	Strand Woven Natural	Strand Woven Carbonised	Strand Woven Multi
0.6	2400 x 1200	1 ply			√	√			
1.5	2400 x 1200	3 ply	√	√	√	√			
2.5	2400 x 1200	5 ply	√	√	√	√			
4.3	2400 x 1200	5 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	√	√	√	√	√	√	√
12.7	3000 x 1200	3 ply	√	√	√	√	√	√	
15	2400 x 1200	3 ply	√	√	√	√			
19	2400 x 1200	3 ply	√	√	√	√	√	√	√
19	3000 x 1200	3 ply	√	√	√	√	√	√	
25	2400 x 1200	3 ply	√	√	√	√	√	√	√
30	2400 x 1200	3 ply	√	√	√	√	√	√	√
40	2400 x 1200	5 ply	√	√	√	√	√	√	√
40	3000 x 1200	5 ply	√	√	√	√	√	√	
40	4000 x 900	5 ply	√	√	√	√	√	√	

Suggested Uses:

For each thickness, there are suggested uses, for example the thinner material is great for laser cutting cake toppers and accessories, whereas the thicker material can be used for cabinetry and benchtops.

Thickness	Descriptions and methods of manufacturing	Suggested Uses
0.6mm	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, 2.5mm	Thin enough to bend, strong enough not to break easily.	Laser cutting and marking: Greeting cards, menus, small decorations, jewelry...
4.3, 6.5, 8mm	Laser cutting, CNC cutting, traditional hand tools; scroll saws.	Light fittings, toys, signage, clocks
5mm	1 ply used to cold press over alternative substrates	Reception desk panels. Back of island counters.
12.7mm	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, 40mm	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.



Suggested Finishes

Suggested Finishes:

All sides must be finished (sealed).

We suggest you use non-toxic finishes when possible.

Bamboo is laminated using the Dynorit SPS adhesive system from Dyno Wood and Specialty Adhesives (from Norway) – which surpasses the E1 requirements.

Used in conjunction with non-toxic, low/no VOC's, and low formaldehyde emitting finishes, will assist in reduced poisoning of the Earth.

Our aim is to recycle safely, and not to add to toxic, wasteful and harmful landfill. Please see our Take Back Policy on our website.

IF you are using finishes other than those suggested, test on a small sample first. All bamboo boards should be sealed on all faces to avoid mold growth; particularly in humid locations. We do not recommend the use of bamboo boards for exterior application without being sealed on all faces with either Livos Decking Oil, Quantum Bio Oil or Dulux Intergrain Exterior.

Seal boards immediately after cutting. We suggest non-toxic finishes:

- Plant based oil finishes
- Water based acrylic finishes
- Can be stained e.g. limewash

Please see our website or request a full list of the finishes we recommend.

Ordering, Cutting and Samples:

- Check stock before ordering
- Please advise of potential large orders to ensure stock arrives on time
- Delivery to Melbourne metro is by LETObamboo
- Free pick up!
- Color match checking service
- Minimum order is one full sheet
- Simple cutting service available (panel saw)
- Free sample boxes with all seven styles and selected thicknesses can be sent at no charge
- Free special laser cutting sample kits available to try on your machine
- Store bamboo sheets flat and evenly supported out of heat, sun and rain



Possibilities!



Ideas:

- Bench and table tops
- Stool tops
- Cabinets and cabinetry
- Shelving
- Stair treads
- Wall and ceiling cladding
- Shop fittings
- Food service
- Commercial and educational
- Crafts and giftware
- Jewelry
- Signage
- Doors
- Decorative Screens
- Instruments
- Boxes and storage
- Speaker boxes
- Skateboard decks
- Cake Toppers



Bendigo Library by MGS Architects



Kelly's Cake Toppers



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