



Plantation
**BAMBOO
PANELS**

thinking of our **FUTURE**

Plantation BAMBOO PANELS

About us

Plantation is owned and operated by a local team of bamboo flooring and bamboo panel experts. Plantation was founded on the belief that bamboo holds the promise of a sustainable, cost effective, ecologically safe alternative to mature hardwood plantations.

We have offices in Auckland, Wellington and Christchurch and service customers New Zealand wide. Our Customer Service Centre is open 7 days a week, providing product and technical support.

Our expertise in sustainable bamboo panels is unparalleled - we are knowledgeable and passionate about what we do.

Plantation Bamboo Panels

Bamboo interior panels are a stunning alternative to hardwood panel products and plywood. The success of the product lies in its fantastic strength, sustainability, great looks and amazing versatility.

We have been encouraged by the number of customers who have seen the potential of bamboo as a stylish and functional building material.

Plantation offers a range of bamboo panels with comprehensive warranties, technical and installation support, manufacturing information and thorough product testing.

Plantation bamboo panels are sustainably sourced from an FSC and ISO 9001-2000 certified factory, and qualify with the Environmental Management Standard ISO14001: 2004.

They are manufactured using advanced European technology, and are cross laminated into 3 or 5 ply to ensure long lasting stability and durability.



Vertical and Compressed Panels

Vertical Bamboo Panel: The outside surface of the bamboo panel is manufactured using vertical strips of bamboo laminated together, giving a striped, uniform look. The grain runs along the longest length of the panel. Panels are available in Natural and Coffee colours. Panel dimensions are 2440mmx1220mm. Please see Schedule 1 for product dimensions and weights.

Compressed Bamboo Panel: The outside surface of the bamboo panel is compressed bamboo, giving a natural wood grain look. A compressed panel is more dense and heavier than a similar sized vertical panel. Panels are available in Natural and Coffee colours. Panel dimensions are 1860mmx1220mm Please see Schedule 1 for product dimensions and weights.



Product Overview

- Every panel uses continuous bamboo: there are no breaks or seams across the surface of the panel. Furthermore, the edges offer a beautiful grain pattern that does not need to be edge-banded. The unique edge grain is a signature look of the panels
- The panels are unfinished, allowing you the ultimate in choice for finishes, whether it be oil, clear lacquer or stain. Mirotone are recommended suppliers of polyurethane products
- The panels are manufactured using high pressure for stability and strength
- The panels are manufactured without toxic glue resins, and fall well below E1 requirements for VOC (Volatile Organic Compounds) levels
- All of our bamboo panels are graded for quality, colour, thickness and sizing, to ensure a consistent, uniform product
- Plantation is a leader in the growing industry of bamboo panel products. These panels are an exciting new product and a superb option to give any project the 'x factor'
- Phyllostachys Pubescens (common name: Moso Bamboo) is harvested at maturity at 5-6 years for maximum fibre density, stability and hardness and is used in all Plantation bamboo products.



Supplier Information

A globally trusted supplier of product, our supplier is leading the way with the largest and most prestigious use of bamboo in the world. Going into sectors of business that no one conceived of two decades ago, for example; wind turbine blades, automotive dashboards, airport ceiling structures and the list goes on!

Our supplier of product proudly employs about 1000 people, and has 80,000m² of factory space with 7 primary processing plants. Owning its own 2,718 acres of lush, green productive bamboo forest in China, with clients including BMW, Lexus, Ikea - with high profile installations such as Madrid Airport.

Plantation is excited to be part of this global innovation and movement towards using bamboo as a truly stunning building material.

Suggested uses

Plantation bamboo panels are designed for interior, non-structural applications, such as:

- Kitchen joinery
- Bench tops
- Serving counters
- Stairs, including tread, riser, stringer, hand rails
- Furniture
- Shelving, wardrobes and cabinetry
- Overlay wall and ceiling linings
- Doors and cavity sliders

Our target customer market

- DIY
- Joiner
- Builder
- Architect
- Designer

Recommended polyurethanes

Plantation recommends the use of the Mirotone Range of Polyurethanes. Please follow Mirotone manufacturing instructions to ensure best results.



Handling & storage

The following basic steps in handling and storage are recommended to help avoid or minimise some of the problems associated with wood movement:

- Panels should be stored flat on raised runners of equal thickness
- Carry panels on edge and support horizontally to prevent cracking along the grain
- Humidity and temperature controls that are capable of maintaining a constant 40 to 60% relative humidity and 65 to 75°F (18-24° C) should be installed
- Extremes of heat and cold should be avoided
- Panels stored in an uncontrolled environment should be brought into the fabrication area 24 to 48 hours prior to being processed. Again, they should be stacked flat on raised runners of equal thickness. Evenly distributed weighting of the stack will help the panels acclimatize uniformly
- Sanding by the fabricator prior to finishing is always recommended
- All exposed panel surfaces should be sealed using Mirotone product range
- Allowance for linear expansion should be incorporated into the design of the product

- Panel products should not be taken to a job site until the site is completely ready for the product to be installed. They should be allowed to acclimatize to the job site before installation
- Wall panels should not be installed over wet or unfinished drywall
- Plantation Bamboo Panels are for interior use only
- Inspect every sheet before using, for uniformity
- Please use a sharp, fine toothed blade when cutting bamboo panels

Bamboo Panel Weights

Please see Schedule 1 for panel weight and dimensions.

Bamboo Panels Warranty

Plantation offers a 15 year warranty.

Please see Schedule 2 for further information.



Schedule 1

Panel dimension and weight

Vertical Bamboo Panel:

| dimensions | thickness | per panel |
|---------------|-----------|-----------|
| 2440 x 1220mm | x 15 mm | 29.0 kgs |
| | x 18 mm | 34.8 kgs |
| | x 20 mm | 38.7 kgs |
| | x 30 mm | 58.1 kgs |
| | x 40 mm | 77.4 kgs |

Compressed Bamboo Panel

| dimensions | thickness | per panel |
|---------------|-----------|-----------|
| 1860 x 1220mm | x 15 mm | 37.4 kgs |
| | x 18 mm | 45.0 kgs |
| | x 20 mm | 49.9 kgs |
| | x 30 mm | 74.9 kgs |
| | x 40 mm | 99.8 kgs |



Schedule 2

Limited Warranty for Domestic or Commercial Use

Bamboo Interior Panels

Effective from 01 September 2013 until further notice.

Plantation wants you to be happy and confident in your investment. Plantation is committed to providing the finest bamboo products in the market.

The Plantation name is synonymous with quality, durability, beauty and uniqueness. Our superior design, production technologies and style allow us to provide one of the best warranties in the industry subject only to a few common sense exclusions.

Limited Warranty

Plantation warrants that the bamboo sold under this Warranty is, at the time of sale, free of defects in material and manufacture, and that it adheres to our strict specifications for the bamboo model.

Plantation further warrants that when professionally fabricated, the Plantation Bamboo Interior Panels will not delaminate or separate as a result of a manufacturing defect for a period of 15 years from the date of sale (herein considered "Plantation Bamboo Interior Panel Warranty Period").

Plantation Bamboo Interior Panels must not be exposed to variations in heat, humidity, moisture or dryness, including water saturation, or any other sources of relative moisture, or changes in ambient moisture or humidity.

No Warranty coverage is provided for impact damage, normal wear and tear, dimples, gouges, scratches or surface damage caused by failure to protect and maintain material properly.

No Warranty coverage is provided for variations in color, grain, natural characteristics or markings which are ordinary to natural products or which develop over time because of natural processes such as exposure to sunlight or other environmental conditions.

No Warranty coverage is provided for damage or defects resulting from, or in any way caused by improper storage, handling, and installation of Plantation Bamboo Interior Panels (includes improper installation of substructure/subsurface material and its' preparation).

No Warranty coverage is provided for misuse, negligence, lack of maintenance, application of solvents (including corrosives or other chemicals) presence of abrasives (such as sand, pebbles, rocks etc).

No Warranty coverage is provided for color changes, fading, or damage caused by the sun, and excessive point loads where proper protection is not used.

No Warranty coverage is provided for moisture problems at site, movement or settling of the structure or substructure material to which Plantation Interior Panels are attached.

No Warranty coverage is provided for natural catastrophic events or events beyond the control of the manufacturer.

As with any natural product, slight variations and inconsistencies inherent in the product occur (such as minor surface imperfections), and are considered normal and acceptable within the product's manufacturing guidelines. If unacceptable panels are found, prior to or during the installation, they are NOT to be installed, and should be set aside.

All panels must be reviewed with regards to quality prior to the installation. Installation of Plantation Bamboo Interior Panels with visually unacceptable defects is not a warrantable claim.

If a problem arises with Plantation Bamboo Interior Panels, the owner of the panels must notify Plantation within 10 days of the discovery of any non-conformity through written notice.

The written notice must describe the situation thoroughly, including the location, installation date, and installers' / fabricators name and contact information. The owner must give Plantation a reasonable amount of time to inspect the panel prior to any subsequent repair efforts.

Plantation, using their discretion, will replace the non-conforming product at their cost, or refund the purchase price to the owner. Plantation's warranty only covers material, and not the labor to install or remove material.

Exclusion of Incidental and Consequential Damages

In no event shall Plantation be liable for any incidental, special, indirect or consequential damages, whether resulting from delayed or non-delivery or from the use, misuse, or inability to use the product or from defects in the product.

Please view www.plantationbamboo.co.nz for further product information



Summary

Plantation is excited about the opportunity to work with you.
Please contact any of our team members to discuss your project and potential options further - **think bamboo, think Plantation!**

Contacts

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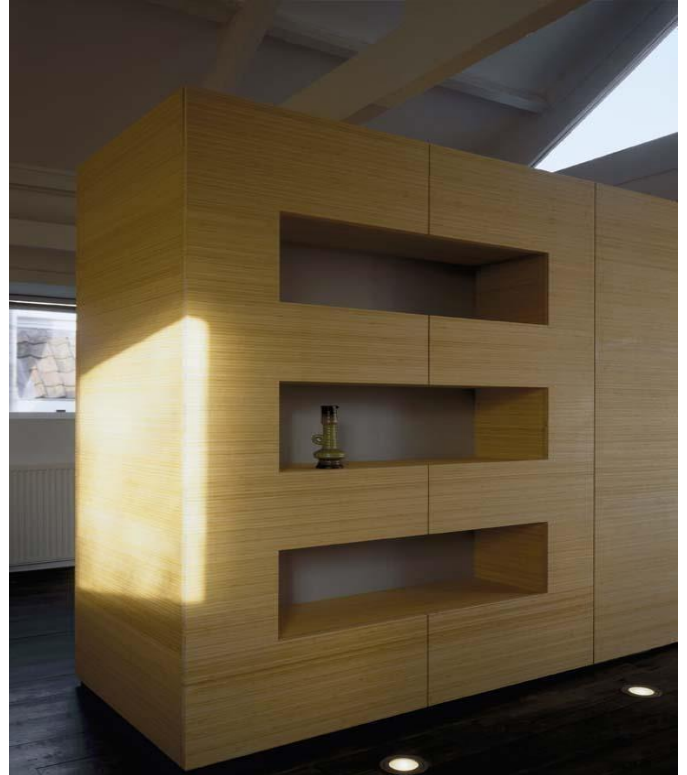
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