



Plantation  
**COMPRESSED  
BAMBOO FLOORING**

thinking of our **FUTURE**

# Plantation OVERVIEW

Plantation Bamboo (Plantation) is owned and operated by a local team of bamboo specialists.

Plantation was founded on the belief that bamboo holds the promise of a sustainable, cost-effective and ecologically benign alternative to mature hardwood forests and products.

Over the past ten years, we have been encouraged by the number of customers who have seen the potential and beauty of bamboo. As well as a stylish and functional interior building solution, bamboo is also a product that has the ability to relieve pressure on the world's natural hardwood stocks.

We are leaders in the fast-growing industry of sustainable flooring and building products. Plantation products set the standard for quality, durability and aesthetics throughout the industry. Plantation Bamboo flooring is one of the best performing bamboo flooring options on the market, providing great value for money with a 25 year residential warranty and 15 year commercial warranty.

Plantation is a reliable company – one that offers free advice, technical support, manufacturing information and thorough product testing.

Our expertise in sustainable flooring and wide array of bamboo products is unparalleled. We are knowledgeable and passionate about what we do and we look forward to sharing this with you.

Plantation imports and sells bamboo products New Zealand wide. We have a strong relationship with a world leading and reputable international supplier.



## How you Benefit

Plantation bamboo flooring is specially made for the temperate New Zealand climate and environment. Not all bamboo flooring is the same, but you can be assured that Plantation Bamboo will provide a high quality, stable and durable flooring solution. We provide strong support for you throughout the buying process – before, during and after installation of your flooring. Customers have found this to be a huge benefit, knowing that they can buy a high quality product, at a competitive price, direct from the importer.

## Quality Management

All products comply with the highest international standards. The production is carried out with the restriction and guarantee of ISO9001 Quality Management System and ISO14001 Environment System.

Each link of the production chain has various quality control checks to ensure the highest quality bamboo flooring is produced.

## Emissions

Our bamboo flooring is considered low “VOC” (Volatile Organic Compound) and complies with the internationally recognized European E1 standard.

## Warranty

Plantation offers a 15 year commercial warranty and 25 year residential warranty.

## Durability

Bamboo flooring is one of the most durable flooring options you will find on the market. It has a Janka (international hardness) rating of 15KN, compared to other hardwood options such as Jarrah which has a Janka rating of 8.5KN, Tasmanian Oak 6.5KN and Rimu which is rated at 3.6KN



Unlike some flooring options, it is possible to sand our compressed bamboo flooring and re-finish it to give it an “as new” look at some stage in the future (maybe 10-20 years depending on wear and tear).

A wax coating on the click-locking system joints prevents squeaks and makes the floor more water resistant.

## Colour Options

We offer three compressed bamboo flooring colour options – Vanilla, Natural and Coffee.

Our compressed Natural and Coffee bamboo flooring is stain and dye free, being its natural colour. During production, the coffee flooring has been cooked a little longer, caramelising the sugars in the bamboo, giving it a slightly darker colour. The colours are consistent through the core of the plank.

The Vanilla bamboo flooring has a white wash applied over the natural base product, giving it a “creamy” light and modern look.

## Polyurethanes

Plantation Bamboo flooring comes pre-finished with ten layers of a low gloss, high performing Treffert German polyurethane (including filling and sealing layers). Being pre-finished the floor can be walked on straight after installation and there is no mess or smells normally associated with sanding, lacquering or gluing timber floors.

## Healthy and Maintenance Free

Thanks to its natural pesticides, bamboo flooring offers an easy to keep, dust free and clean flooring option. It is ideal for those with allergies or wishing to keep the internal air environment as free as possible from toxins.



## Beauty and Character

Plantation bamboo flooring provides not only a hard-wearing and durable solution but also timeless beauty and character. It features the natural beauty of timber but has the benefits that bamboo offers, including being CO2 neutral, sustainable and value for money.

During the production process the bamboo fibres are compressed at high pressure to give a stunning natural wood grain look. Being a natural product (rather than a photograph on an artificial board), there may be some slight grain and colour variations from board to board – this is all part of the natural beauty of bamboo.

## Technical Characteristics and Certifications

- Density: +/- 1050kg/m3
- Top layer thickness / Wear layer approx. 4mm
- Resistance to Indentation – Brinell Hardness:  $\geq 9.5\text{kg/mm}^2$  (EN 1534)
- Reaction to fire: Class Cfl-s1 (EN 13501-1)
- Formaldehyde emission: Class E1 ( $<0.124\text{ mg/m}^3$ , EN 717-1), Class E0 ( $<0.025\text{ mg/m}^3$ ) \*
- Thermal conductivity:  $0.26\text{ W/mK}$  (EN 12667)
- Thermal resistance:  $0.0549\text{ m}^2\text{K/W}$  (EN 12667)
- Use Class: Class 1 (EN 335)
- CO2 neutral: LCA report TU Delft (ISO 14040/44)
- Environmental Product Declaration – EPD (EN 15804)
- Contribution LEED BD+C – v4: MR 1, MR 2, MR 3 (FSC®), EQ2 v2009, MR 6, MR 7 (FSC®), IEQ 4.3
- Contribution BREEAM: HEA 2, MAT 1, MAT 3 (FSC®), MAT 5 (HD)

\* E0 Class is an unofficial formaldehyde emission class, but it is commonly used to indicate that the product has a very low emission, not detectable (n.d.) emission or is produced with No Added Formaldehyde (NAF) glues. E0 products automatically qualify for the official E1 Class according EN 717-1.

## Flooring Dimensions

Colour: Vanilla, Natural & Coffee  
(1850 x 137 x 14mm)

Pack content: 1.52sqm, contains 6 planks (weighing 23.4kgs)



*Please see our website for a range of beautiful photos of our compressed bamboo flooring options*

## Installer Information

We provide installation instructions and a video guide for DIY'ers or builders (available on our website). We can also suggest a range of specialist installation providers and services around most of New Zealand.

## Supplier Information

Plantation has an exclusive partnership with our supplier MOSO International ([www.moso.eu](http://www.moso.eu)). With 20 years' experience in the relatively young bamboo industry, MOSO International is the pioneer in innovative bamboo solutions for indoors and outdoors. MOSO®, with its head office in the Netherlands, is recognized as the global A-brand in bamboo because of its focus on sustainability, product quality and innovation.

**Sustainability** - MOSO has put a lot of effort in proving the ecological soundness of its products. All green claims are backed up by impact studies such as carbon footprint, eco-labels etc. from independent institutes

**Quality** - unlike many other companies sourcing in China, MOSO® Quality Control inspectors inspect and are involved in the production process from A to Z

**Innovation** - based on the unique, versatile qualities of bamboo, MOSO has always played a leading role in developing new, leading edge solutions.

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

## For more information

Please visit our informative website ([plantationbamboo.co.nz](http://plantationbamboo.co.nz)) or contact any of our team members to discuss your specific project and options further - **think bamboo, think Plantation!**



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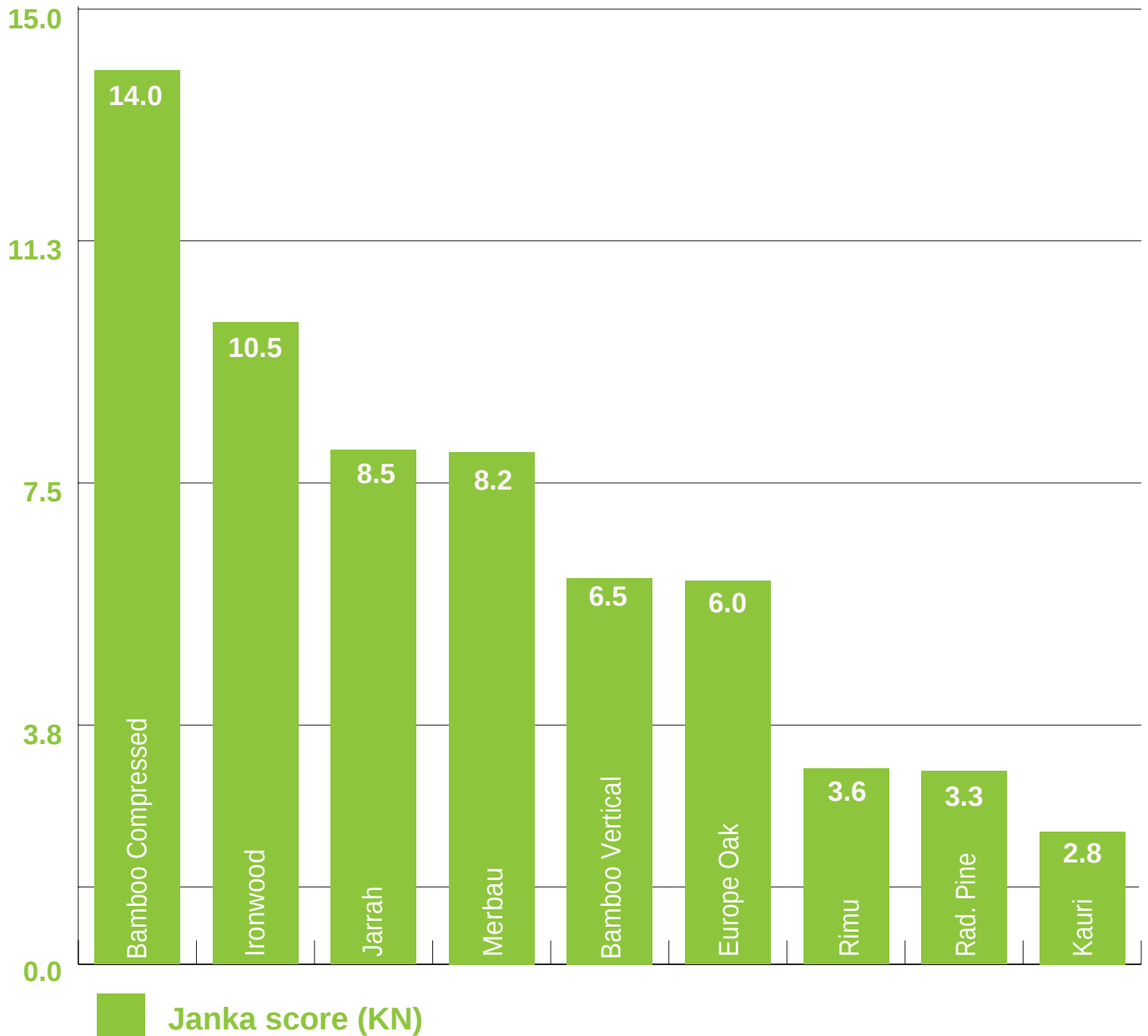
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# Janka Rating (Bamboo Hardness)



The hardness of wood is calculated by the Janka hardness test, which measures the force required to embed an 11.28mm steel ball into wood to half the ball's diameter. It determines the ability of a type of wood to withstand denting and wear. The higher the Janka rating, the harder the wood