

## ▶ IPE DECK

The heartwood of IPE ranges from olive brown to blackish, though it can have lighter or darker striping that is sharply demarcated from the whitish or yellowish sapwood. IPE is a low luster wood with an oily appearance, a fine to medium texture, and a grain that ranges from straight to very irregular.

Along with its extreme hardness, strength, weight, density, and durability, IPE is also one of the most stable woods available. However, it is important to “over-dry” the wood in a kiln to avoid excessive shrinkage when installing.

IPE is an environmentally responsible choice which naturally resists rot, decay, insects, and mold without the use of toxic chemicals used in other decking products. It is naturally fire resistant and has been awarded an ‘A1’ rating. Additionally, IPE is an incredibly strong, dense wood, harvested from naturally sustainable forests only. It has very high wear durability in daily use, and is resistant to splintering and checking.

IPE is an economical natural alternative to other woods when the entire life cycle of the deck or other outdoor project is considered.

Weather has little to no effect upon the structural integrity of IPE wood. The sun will eventually transform the wood from its original reddish-brown to a beautiful silver patina.

When the additional benefits of IPE (select grade wood superior strength, extended lifespan, resistance to checking, splintering, fire, mold, and insect damage, etc.) are weighed, it is by far the superior product.

## ▶ SCIENTIFIC NAME

Tabebuia spp.

## ▶ ORIGIN

Brazil and throughout continental tropical America as well as in parts of the Lesser Antilles.

## ▶ APPEARANCE

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## ▶ PROPERTIES

Along with its extreme hardness, strength, weight, density, and durability, ipe is also one of the most stable woods available. However, it is important to “over-dry” the wood in a kiln to avoid excessive shrinkage when installing.

## ▶ SIZE

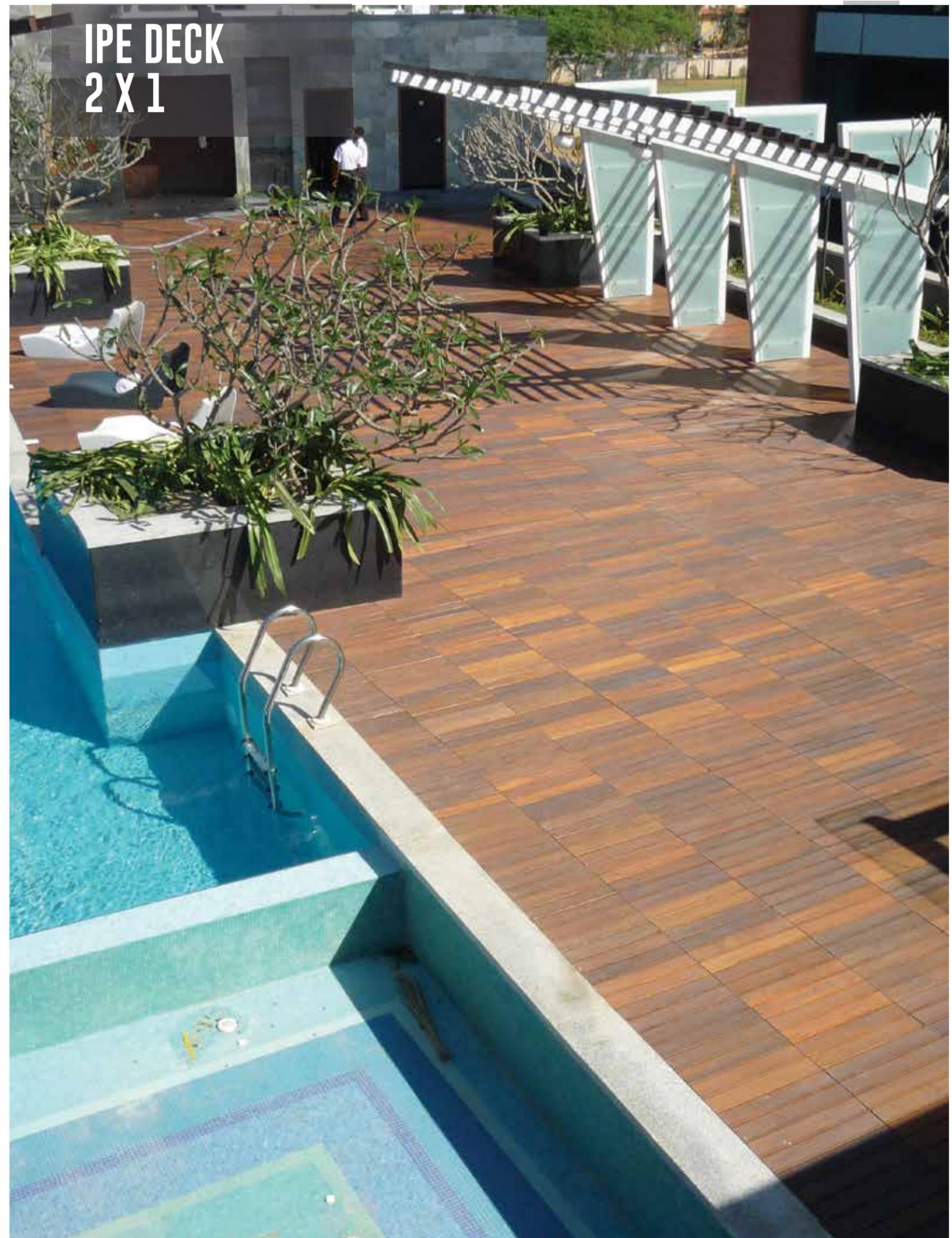
Tile form:

- 1) Length 600mm X width 200mm X thickness 18mm
- 2) Length 300mm x width 300mm x thickness 18mm, thickness of plastic base 15mm,
- 3) Plank form: L - 4ft-6ft, W - 135-140-145mm, T - 21mm.

**IPE DECK  
1 X 1**



**IPE DECK  
2 X 1**



**IPE DECK  
RANDOM LENGTH**





## ▶ COMPOSITE DECK

It's a new generation of wood plastic composite material and is made from a unique combination of recycled plastic and plant fiber according to high tech-formula, by special production equipments under certain temperature, pressure and speed.

The plastic shields the wood from the moisture and insect damage, so there's no rotting or splintering. The wood protects the plastic from UV damage and gives you a natural feel. It is known as a leading green environmental protection material in 21st century.

## ▶ PHYSICAL PROPERTIES

High strength and rigidity, skid proof, abrasion resistance, inflammation resistance, resists moisture, insects and UV, insulation, heat insulation, resists from -40c low temperature to 75c high temperature.

## ▶ ENVIRONMENTAL PROPERTIES

Contains no toxic and dangerous chemicals, no preservatives, no formaldehyde, no benzene, will no pollute air or environment; can be 100% recycled and reused, also can be biodegradable.

## ▶ APPEARANCE AND FEEL

Looks and feel like nature wood. Size is more stable than nature wood, no knurr. It is available in various color options. There is no need to spend hours staining or painting.

## ▶ PROCESSING PROPERTIES

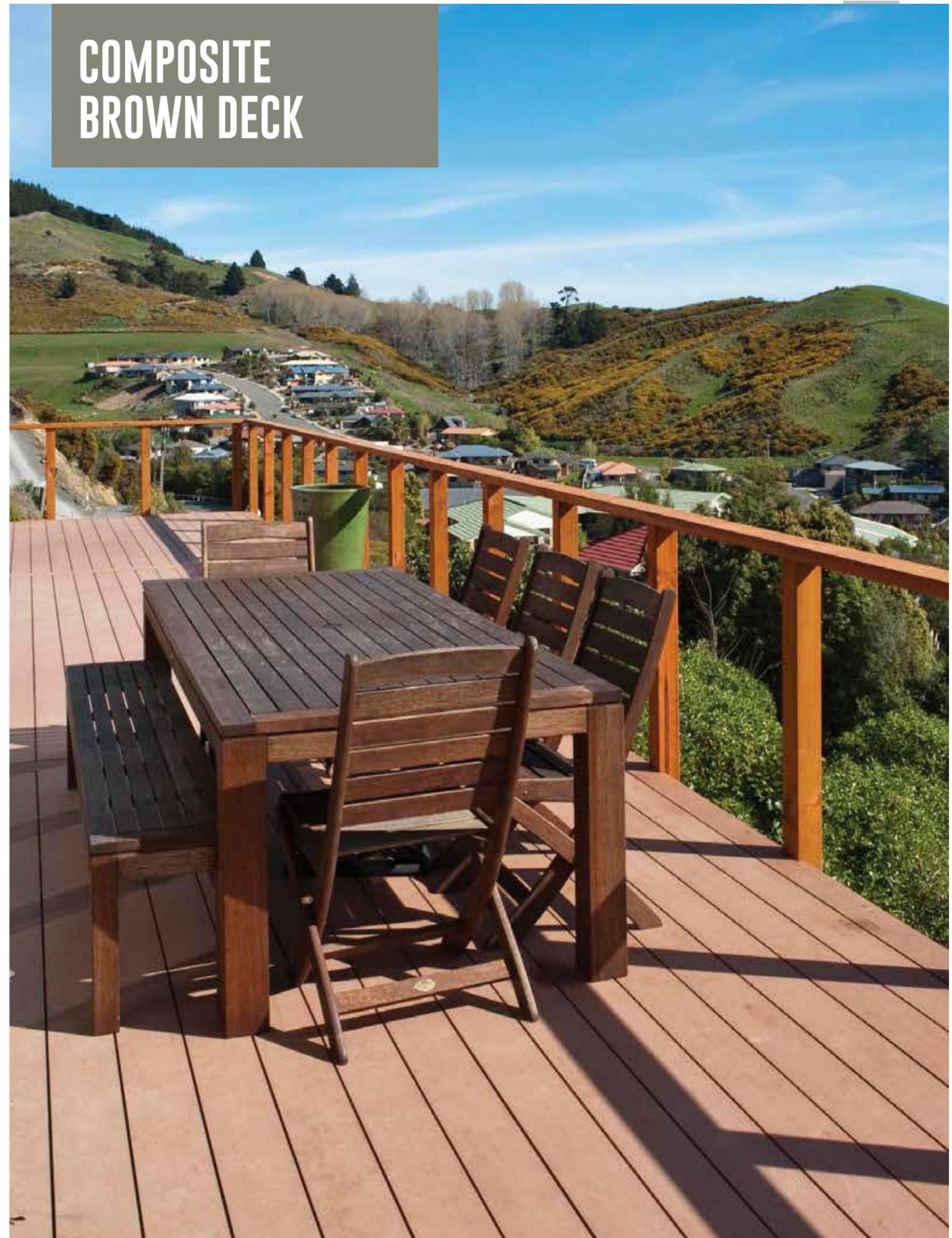
Can be treated like wood, such saw, plane, glue, nail or screw. It is very easy to install.  
SIZES: L - 2200mm, W - 135mm, T - 24mm

ITEM	TESTING PROPERTIES	UNIT	PARAMETER	STANDARDS
1	Bend Strength	Mpa	≥30	GB/T 9341-2000
2	Bend Modulus	Mpa	≥2500	GB/T 9341-2000
3	Tensile Strength	Mpa	≥15	GB/T 1040-92
4	No-gap impact strength	KJ/□	≥5	GB/T 1043-93
5	Rockwell Hardness	HRR	≥60	GB/T 9342-88
6	24h Sop up rate	%	≤2%	GB/T 17657-1999
7	Sop up thickness changing rate	%	≤1%	GB/T 17657-1999
8	Grasp Screw Strength	N	≥1000	GB/T 17657-1999
9	Burthen heat distortion Temperature	□	≥90	GB/T 1634.1-2004
10	Heat Aging (Bend strength after aging test)	Mpa	≥15	LY/T 1613-2004
11	Resistance for flammability	Class	V-1	GB/T 2408-1996
12	Moisture Rate	%	≤2	GB/T 17657-1999
13	Surface Resistance Friction	g/100r	≤0.08	GB/T 17657-1999
14	Low Temperature drop hammer	Break parameter	≤1	GB/T 8814-2004
15	Heat Condition	w/m.k		GB/T 8814-2004
16	Heat Size changing Rate	w/cm2	%	GB/T 8814-2004
17	High-low Temperature Repeat Changing Rate Density	g/cm3	%	GB/T 8814-2004
18			g/cm3	GB/T 17657-1999

**COMPOSITE  
GREY DECK**



**COMPOSITE  
BROWN DECK**





# EGO & DASSO TIE - UP

Ego has done tie up with dasso for complete Bamboo Products which includes Solid wood Bamboo flooring , Outdoor Deck Flooring ,Outdoor Wall Cladding.

Dasso is a solid, high density bamboo board, made from compressed bamboo strips, it is suitable for outdoor applications, especially as decking. Dasso uses a special, patented heat treatment process to alter the hardness, dimensional stability and durability to a level superior to the best tropical hardwood species. As for the surface view, The special symmetrical shape of the sides offers the possibility to choose between either the wave or the flat surface, and allows for quick installation with clips. Like any untreated tropical hardwood species, when exposed to outdoor circumstances, Dasso will turn grey over time creating a very natural look.

Since centuries bamboo poles and bamboo components are used in outdoor circumstances. Unfortunately many additional protective measurements are needed to guarantee a sufficient and acceptable lifetime. In dry circumstances poles will crack and the bamboo inner wood material, due to its high “sugar” components, will be easily attacked by micro-organisms and fungi. In the land of origin bamboo can be replaced fast and cost efficient, but in western countries this is not an option. Therefore, wouldn't it be great to find a way to use one of the fastest growing plants on earth as an alternative for scarce hardwood species and to make the material suitable for outdoor applications?

With the challenge Dasso started to research and test various existing methods to protect bamboo in outdoor circumstances. The initial tested wood protection methods, which are also often used by other bamboo suppliers, were not satisfying and did not perform according to Dasso's quality standard. Therefore Dasso decided to develop its own way to solve the problem by modifying the density of bamboo and combining this with a special heat treatment process to improve the durability and stability of bamboo, referred to as “density-thermo treatment” in this text. In 2008 Dasso's invention is registered internationally. In 2009 the relevant laboratory and practical tests were done, which proved that the density-thermo treatment is the right method (and currently the only efficient solution) to make bamboo suitable for outdoor applications.



Bamboo on molecular level before (left) and after(right) the density-thermo treatment: before the sugar molecules are still visible, after the treatment they have disappeared. With this treatment bamboo is no longer a feeding place for fungi and micro-organisms.

## ▶ DASSOXTR FEATURES



Environment-friendly



Termite-Resistant



Fire-Proof



High Stability



High hardness



20-year Durable



Corrosion-Resistant

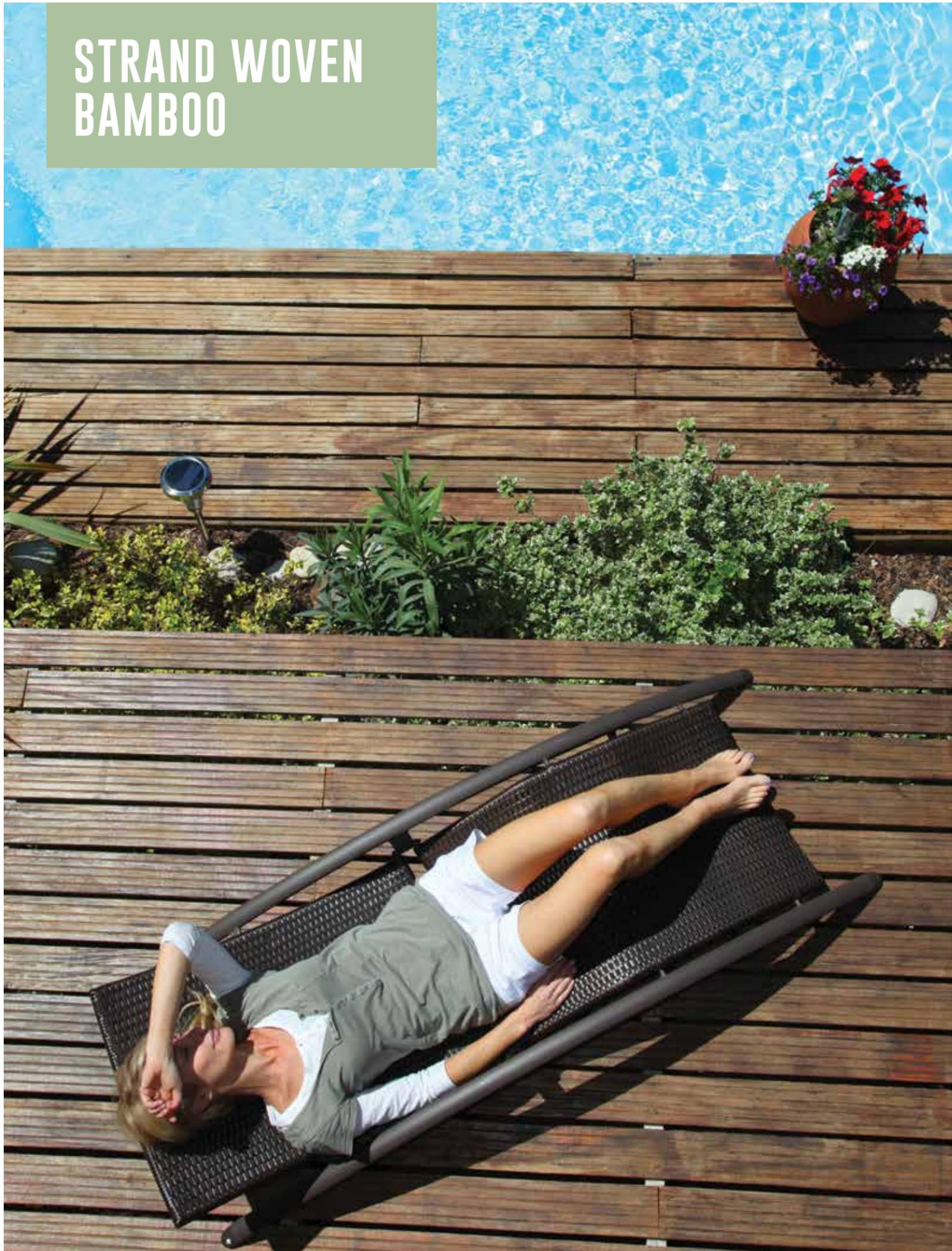


High mould-Proof



Good Dimension Stability

# STRAND WOVEN BAMBOO



## ▶ STRAND WOVEN BAMBOO

Bamboo is an environment-friendly, renewable resource that has been used as construction material for thousands of years. Ecologically the harvesting of bamboo does not affect the world already dwindling timber resources. Bamboo flooring is assembled by strips. Traditionally bamboo floor is horizontally and vertically assembled to form a solid piece of bamboo structure.

## ▶ PROPERTIES

Bamboo is naturally resistant to moisture. Its low moisture absorbing properties combine with proper treatment such as composite stranded woven bamboo, makes it ideal for high humidity climates. Strand woven bamboo is made from individual slats that are thrashed into thin strips and cold-pressed under 1800 metric tons of pressure.

## ▶ APPEARANCE

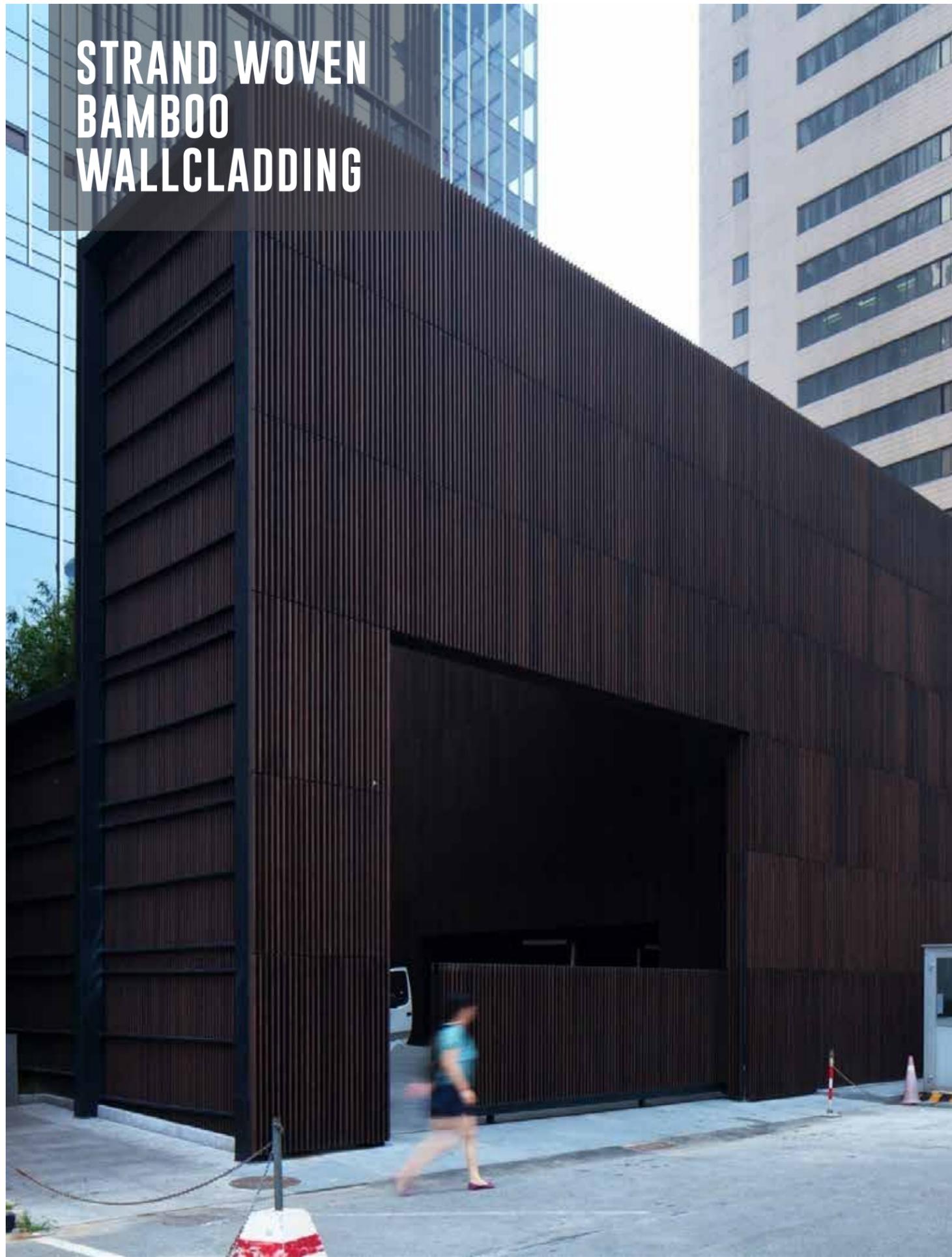
Strand woven bamboo has very distinctive type of grain. It's different from the normal bamboo floor. Strand Woven Bamboo Flooring has an amber colour achieved by heat-pressing the bamboo. Each finished piece has a slightly unique "grain" with a strikingly elegant appearance.

Strand woven bamboo floors have a rich texture that is extremely durable. It is about as hard as iron wood or Brazilian cherry, but much easier to work with and more affordable too. Bamboo Outdoor Decking is finished with special natural oil that provides greater resistance to external weather conditions. It is waterproof and anti-microbial providing healthy, long lasting durability.

As there is a lot of nutrition in raw bamboo, like saccharide, protein, it's not mould-proof, with poor dimensional stability. After being processed by our patent technology, its structure is totally changed, nutrient contents are all removed, which greatly improves the mold-resistance and dimensional stability.  
 SIZE: L - 1860mm, W - 137mm, T - 18mm

▶ ITEM	TESTING PROPERTIES	UNIT	PARAMETER	STANDARDS
1	Size Tolerance	mm	T± 0.2mm, W ±0.5mm, L ± 1mm	GB/T 15036.2-2001
2	MC Content		≤14%	GB/T 17657-1999
3	Water Absorbability in 24H	Mpa	≤2.2%	GB/T 1040-92
4	Size Stability – Thickness		Expanding rate – 0.703%	GB/T 17657-1999
5	Size Stability – Thickness		Shrinking rate – 0.223%	GB/T 17657-1999
6	Size Stability – Length		Expanding rate – 0.012%	GB/T 17657-1999
7	Size Stability – Length		Shrinking rate – 0.007%	GB/T 17657-1999
8	Hardness	Mpa	≥200	GB/T 17657-1999
9	Anti Fungus	Grade	1	GB/T 13942.1
10	Anti Termite		Anti termite grade	NY/T1153.4-2006
11	Antisepsis		USRV58	EN1339-200
12	PCP□pentachlorophenol□	Mg/kg	<0.5	EN 717-2-1995
13	Contents	Grade	E1 (<0.1 ppm)	EN 717-2-1995
14	Formaldehyde Emission	KN	22.4 / 600mm	EN 1533-2000
15	Rupture Strength	w/m.k	0.14-0.18	EN 12664-2001
16	Thermal Conductivity	w/cm2	0.5	GB/T 11785-2005
17	Flammability Density	g/cm3	>-1.0	GB/T 17657-1999

**STRAND WOVEN  
BAMBOO  
WALLCLADDING**



**STRAND WOVEN  
BAMBOO  
FLOORING**

