



## Outdoor Wood Floor

IPE Deck

Technical Data Sheet





## Outdoor Wood Floor - IPE Deck

### Technical Data

#### Origin ipe Brazilian Walnut hardwood

Ipe is the commercial name for the botanical species of *Tabebuia* spp. It belongs to the family of Bignoniaceae *Tabebuia avellanedae*, *Tabebuia ipe* and *Tabebuia serratifolia* and comes from the tropical forests of Central and South America. Worldwide, most Ipe comes from Brazil, other countries (Amazon countries) are Peru, Bolivia, Colombia, Surinam, Panama.

#### Tree features

The Ipe tree will average 30 to 40 meters high, with a trunk diameter of 60-90 cm. The branches free stem is erect, cylindrical, and between 8 and 40 meters long, and sometimes with carrot call.

#### Color and drawing

The heartwood is brown, sometimes greenish yellowish brown and has often light to dark striped areas. The sapwood is yellowish gray. The wood structure is fairly even, with a fine grain and pronounced without drawing. Ipe has a straight grain, sometimes interlocked.

#### Durability

The heartwood is very durable (natural durability class I). The sapwood is not durable (natural durability class V).

#### Drying and moisture

Ipe dries slowly with little risk of distortion. Air dries rapidly with very slight checking or warping. Machining material generates a fine,

Weight of the Ipe lumber varies between 1050 kg/ m<sup>3</sup>

#### Seasoning ipe rough sawn wood

Ipe can be made very smooth. If the wood has a crosshair, scrape it with a small cutting angle. Material can be difficult to work and difficult to saw. Hardness of material can cause a blunting effect to cutting edges. High quality carbide and diamond tipped blades are recommended as well as pre-drilling when surface fastening. When editing is toxic dust. Good dust extraction and drilling are designated because yellow dust that may cause breathing problems and dermatitis. Ipe is highly resistant to all insect and fungal attacks.

#### Finish

The finish of the wood surface is good. Ipe Lapacho contains a substance content (dark) turns red when it comes into contact with ammonia or alkaline products. In the longitudinal plane provides moreover yellow, sometimes slightly greenish stripes on.

#### Applications ipe lumber

- Outside structures
- Cladding
- Furniture
- Garden wood
- Outside stairs
- Diverse interior joinery such as parquet, floorboards and stairs
- Furniture
- Decking and terraces (around swimming pools)
- Turning and carving

#### Professional info ipe hardwood

Average density*		1050 kg / m <sup>3</sup>
Radial shrinkage	60-30% rh **	1.3%
	90-60% rh **	0.8%
Tangential shrinkage	60-30% rh **	1.6%
	90-60% rh **	1.2%
Work	60-30% rh **	2.9%
	90-60% rh **	2%
Flexural Strength		178 N / mm <sup>2</sup>
Modulus of elasticity	3 308 000 PSI	19 000 N / mm <sup>2</sup>
Bending strength		26 000 PSI
Compressive strength (parallel to the fiber)		91 N / mm <sup>2</sup>
Weight (CU.FT)		60-75 lbs
Shear strength		14.4 N / mm <sup>2</sup>
Hardness (Janka) - Head	2 650 PSI	14400 N
Hardness (Janka) - Along		16700 N

In wood moisture content of 15 percent / \*\* relative air humidity

Data is subject to change.

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