

# Plantation Teak

Plantation Teak comes from cultivations of South America and has a burnished yellow color, with a high aesthetic value.

It can be used for floorings subjected to a medium level of foot traffic, for private, residential and commercial uses.

Because of its presence of sapwood, a feature of the material resulting from its cultivation in plantation, it is recommended, especially if used for floorings, to pre-oil it and to follow a regular maintenance in order to guarantee an adequate durability.



## physical properties

<b>botanical name</b>	Tectona grandis
<b>average mass density</b>	586 Kg/m <sup>3</sup>
<b>dimensional stability</b>	stable
<b>average Janka hardness</b>	5.16 kN
<b>average volumetric shrinkage coefficient</b>	6.9%
<b>average total tangential shrinkage (TS)</b>	4.4%
<b>average total radial shrinkage (RS)</b>	2.3%
<b>average TS/RS ratio</b>	1.9
<b>average fiber saturation point</b>	23%



## mechanical properties

average bending strength	95 MPa
average modulus of elasticity	10,000 MPa
average crushing strength	41 MPa

## natural durability (UNI EN 335, UNI EN 350)

fungi	from very durable to moderately durable - class 1/3
dry wood borers	durable - class D
termites	from moderately durable to not durable - class M/S
use class	outside not in contact with the ground - class 3
use in marine environments - class 5	no

*Data source: LTM and Cirad. LTM: Wood technology laboratory of the Federal University of Paraná (BR). Cirad, a French research centre that responds to international requests in the fields of agricultural and sustainable development (<https://tropix.cirad.fr>). Measurements made in accordance with ISO standards on small samples without a conditioning cycle; the shrinkage relates to the anatomical directions of the wood and not to the geometric directions as required by the EN standard.*

*Plantation Teak is not included in the category of products regulated by the UNI 11538-1 due to its characteristics related to the presence of sapwood.*

*Tolerance: the dimensions of the boards indicated by Ravaiole Legnami are nominal, with variations up to a maximum of 5% in case of milling.*

*Color changes and the greying process are natural effects on wood when it is exposed to atmospheric agents: in order to avoid this, a regular maintenance with specific products is recommended.*

