

# TECHNICAL SPECIFICATIONS ~~TEAK (TECTONA GRANDIS)~~



## Tree Size

Bark width is 5-10 mm

Bole length is 0-10 m

Tree height is 10-20 m

## Strength Properties

Density (dry weight) = 38-45 lbs/cu. ft.

Bending strength (MOR) = medium

Max. crushing strength = medium

Shearing strength (parallel to grain) = Low

Shrinkage, Radial = very small

Shrinkage, Tangential = very small

Max. crushing strength = high

Hardness (side grain) = soft

Modulus of Elasticity (stiffness) = Medium

Shearing strength (parallel to grain) = Medium

Modulus of Elasticity (stiffness) = low

Bending strength (MOR) = high

Shrinkage, Tangential = small

Density (dry weight) = 31-37 lbs/cu. Ft.

Bending strength (MOR) = low

Shrinkage, Radial = small

Density (dry weight) = 46-52 lbs/cu. Ft.

Toughness-Hammer drop (Impact Strength) = low

Modulus of Elasticity (stiffness) = very low

Toughness-Hammer drop (Impact Strength) = very low

Shrinkage, Volumetric = moderate

Shrinkage, Radial = large

Shearing strength (parallel to grain) = high

Hardness (side grain) = medium

Density (dry weight) = 23-30 lbs/cu. ft.





Item	Green	Dry	Metric
Bending Strength	71	1036	kg/cm2
Crushing Strength	7	74	kg/cm2
Density		624	kg/m3
Hardness		470	kg
Impact Strength	83	63	cm
Maximum Crushing Strength	376	4	kg/cm2
Shearing Strength		130	kg/cm2
Static Bending	399	13	kg/cm2
Stiffness	106	121	1000 kg/cm2
Toughness		261	cm-kg
Work to Maximum Load	0.63	0.77	cm-kg/cm3
Specific Gravity	0.52	0.57	
Weight	608	92	kg/m3
Radial Shrinkage	2		%
Tangential Shrinkage			%

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