

# TECHNICAL SPECIFICATIONS FOR ELLIOSTIS PINE (PINUS ELLIOSTIS)



## Tree Size

Tree height is 30-40 m  
Tree height is 20-30 m  
Sapwood width is 5-10 cm  
Bark width is 5-10 mm  
Bark width is 15-20 mm  
Bark width is 10-15 mm  
Trunk diameter is 100-150 cm

## Strength Properties

Modulus of Elasticity (stiffness) = very low  
Bending strength (MOR) = low  
Max. crushing strength = medium  
Density (dry weight) = 31-37 lbs/cu. ft.  
Hardness (side grain) = very soft  
Bending strength (MOR) = medium  
Shrinkage, Tangential = large  
Shrinkage, Radial = large  
Shearing strength (parallel to grain) = very low  
Shearing strength (perpendicular to grain) = low  
Density (dry weight) = 46-52 lbs/cu. ft.  
Density (dry weight) = 38-45 lbs/cu. ft.  
Density (dry weight) = 23-30 lbs/cu. ft.  
Compression strength (parallel to grain) = high  
Bending strength (MOR) = high

## Images:





## NUMERIC DATA

Item	Air Dried	Kiln Dried	Metric Unit
Bending Strength	557	968	Kg/cm <sup>2</sup>
Crushing Strength	36	70	Kg/cm <sup>2</sup>
Density		624	Kg/m <sup>3</sup>
Hardness		144	Kg
Max. Crushing Strength	247	477	Kg/cm <sup>2</sup>
Shearing Strength		102	Kg/cm <sup>2</sup>
Stiffness	93	116	1000 kg/cm <sup>2</sup>
Toughness		299	Cm-kg
Specific Gravity	0.51	0.55	
Weight	608	464	Kg/m <sup>3</sup>
Radial Shrinkage	4		%
Tangential Shrinkage	7		%

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