

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 (parallel 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 ²
Crushing Strength	36	70	Kg/cm ²
Density		624	Kg/m ³
Hardness		144	Kg
Max. Crushing Strength	247	477	Kg/cm ²
Shearing Strength		102	Kg/cm ²
Stiffness	93	116	1000 kg/cm ²
Toughness		299	Cm-kg
Specific Gravity	0.51	0.55	
Weight	608	464	Kg/m ³
Radial Shrinkage	4		%
Tangential Shrinkage	7		%