# TROPICAL

Nood Values from test (ASTM D143)				Compression			
	Wood Name	Extreme Fiber Stress in Bending "FB" Single Member	Modulus of Elasticity	Parallel to Grain	Perpendicular to Grain	Shear parallel to Grain	
Inputs	Garapa	12,140	2,435,000	12,140	2,900	1,395	•

# Allowable values For Wood (Based on ASTM D245)

Dimension Lumber 1" to 4" thick by 2" and wider

	Grade	Extreme Fiber Stress in Bending "FB" Single Member	Modulus of Elasticity	Compression		
Wood Name				Parallel to Grain ll	Perpendicular to Grain	Shear parallel to Grain
	Architectural	3,200	2,590,000	3,550	1,735	605
Carana	FEQ	2,550	2,590,000	3,050	1,735	305
Garapa	COM/ SEL	2,100	2,590,000	2,300	1,735	305
	FAS	2,100	2,590,000	2,300	1,735	305

Values in PSI Beam & Stringers

4" and thicker, width more than 2" grater than thickness

	Grade	Extreme Fiber Stress in Bending "FB" Single Member	Modulus of Elasticity	Compression		Shear
Wood Name				Parallel to Grain ll	Perpendicular to Grain	parallel to Grain
	Architectural	4,200	2,590,000	4,000	1,735	605
Carana	FEQ	2,800	2,590,000	3,050	1,735	305
Garapa	COM/ SEL	2,100	2,590,000	2,300	1,735	305
	FAS	2,100	2,590,000	2,300	1,735	305

Values in PSI

Additional Grading notes:

# Architectural:

- 1. It is not allow pin knots bigger than 1/2" at any face and/or edge
- 2. Maximum permitted slope is 1" in 10"

## FEQ:

- 1. It is not allow knots bigger than 3/4" at narrow face or edges
- 2. It is not allow centerline knots bigger than 1-3/4" at wide face
- 3. It is not allow edge knots bigger than 3/4" at wide face
- 4. Maximum permitted slope is 1" in 8"
- 5. Length of end split and surface split shall be per ASTM D245 (5.4.3)

COM/ SEL / FAS:

- 1. It is not allow knots bigger than 3/4" at narrow face or edges
- 2. It is not allow centerline knots bigger than 1-3/4" at wide face
- 3. It is not allow edge knots bigger than 3/4" at wide face
- 4. Maximum permitted slope is 1" in 6"
- 5. Length of end split and surface split shall be per ASTM D245 (5.4.3)

## Notes:

1. Grader shall classify, measure and inspect knots, splits, checks and shakes as Standard ASTM D 245 mandates, for dimension lumber and Beams & stringers.

2. Use allowable values in conjunction of adjusted coefficients.

3. Results are for preliminary design only; not valid for construction unless accompanied by a sealed test report by an accredited laboratory.

