

**TABLE 3**

**BEAMS and STRINGERS (5" and THICKER)**  
 WIDTH MORE THAN 2" GREATER THAN THICKNESS  
 Design Values in Pounds Per Square Inch

Grades described in para. 25.0-25.4

Species or Group	Grade	Extreme Fiber Stress in Bending "Fb" Single Member	Tension Parallel to Grain "Ft"	Horizontal Shear "Fv"	Compression		Modulus Elasticity "E"
					Perpendicular "Fc⊥"	Parallel to Grain "Fc"	
RED MAPLE	Sel. Str.	1400	925	195	615	950	1,500,000
	No. 1	1150	750	195	615	825	1,500,000
	No. 2	650	425	195	615	375	1,200,000
MIXED MAPLE	Sel. Str.	1100	725	180	620	750	1,100,000
	No. 1	875	600	180	620	650	1,100,000
	No. 2	500	350	180	620	300	900,000
BEECH-BIRCH-HICKORY	Sel. Str.	1550	1050	180	715	1050	1,500,000
	No. 1	1250	850	180	715	900	1,500,000
	No. 2	725	475	180	715	425	1,200,000
MIXED OAK	Sel. Str.	1350	800	155	800	825	1,000,000
	No. 1	1150	550	155	800	700	1,000,000
	No. 2	725	375	155	800	450	800,000
RED OAK	Sel. Str.	1350	800	155	820	825	1,200,000
	No. 1	1150	550	155	820	700	1,200,000
	No. 2	725	375	155	820	450	1,000,000
NORTHERN RED OAK	Sel. Str.	1600	950	205	885	950	1,300,000
	No. 1	1350	675	205	885	800	1,300,000
	No. 2	875	425	205	885	500	1,000,000
WHITE OAK	Sel. Str.	1400	825	205	800	900	1,000,000
	No. 1	1200	575	205	800	775	1,000,000
	No. 2	750	375	205	800	475	800,000