



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 _{//} "	
EASTERN WHITE PINE	Sel. Str.	1050	625	125	350	675	1,100,000
	No. 1	875	425	125	350	575	1,100,000
	No. 2	575	275	125	350	400	900,000
EASTERN SPRUCE	Sel. Str.	1050	625	125	390	750	1,400,000
	No. 1	900	425	125	390	625	1,400,000
	No. 2	575	275	125	390	375	1,000,000
EASTERN HEMLOCK - TAMARACK	Sel. Str.	1400	925	155	555	950	1,200,000
	No. 1	1150	775	155	555	800	1,200,000
	No. 2	750	375	155	555	500	900,000

EASTERN HEMLOCK	Sel. Str. No. 1	1350	925	155	550	950	1,200,000
	No. 2	750	375	155	550	550	900,000
NORTHERN PINE	Sel. Str. No. 1	1250	850	135	435	850	1,300,000
	No. 2	675	350	135	435	725	1,300,000
BALSAM FIR	Sel. Str. No. 1	1350	900	125	305	950	1,400,000
	No. 2	725	350	125	305	800	1,400,000
NORTHERN WHITE CEDAR	Sel. Str. No. 1	900	600	115	370	600	700,000
	No. 2	500	250	115	370	500	700,000
SPF(s) <i>(Eastern Spruce Red Pine Jack Pine Balsam Fir)</i>	Sel. Str. No. 1	1050	625	125	335	675	1,200,000
	No. 2	575	300	125	335	550	1,200,000





TABLE 3
(Continued)
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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 PINE	Sel. Str.	1150	775	125	410	875	1,400,000
	No. 1	925	625	125	410	775	1,400,000
	No. 2	525	350	125	410	350	1,100,000
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. No. 1	1550	1050	180	715	1050	1,500,000
	No. 2	725	475	180	715	425	1,200,000
MIXED OAK	Sel. Str. No. 1	1350	800	155	800	825	1,000,000
	No. 2	725	375	155	800	450	800,000
RED OAK	Sel. Str. No. 1	1350	800	155	820	825	1,200,000
	No. 2	725	375	155	820	450	1,000,000
NORTHERN RED OAK	Sel. Str. No. 1	1600	950	205	885	950	1,300,000
	No. 2	875	425	205	885	500	1,000,000
WHITE OAK	Sel. Str. No. 1	1400	825	205	800	900	1,000,000
	No. 2	750	375	205	800	475	800,000

