



TABLE 4 **POSTS and TIMBERS (5" X 5" and LARGER)**
WIDTH NOT MORE THAN 2" GREATER THAN THICKNESS
 Design Values in Pounds Per Square Inch

Grades Described in para. 26.0-26.3

Species or Group	Grade	Extreme Fiber Stress in Bending "Fb"		Tension Parallel to Grain "Ft"	Horizontal Shear "Fv"	Compression		Modulus Elasticity "E"
		Single Member	Member			Perpendicular "Fc _⊥ "	Parallel to Grain "Fc//"	
EASTERN WHITE PINE	Sel. Str.	975		650	125	350	725	1,100,000
	No. 1	800		525	125	350	625	1,100,000
	No. 2	450		300	125	350	325	900,000
EASTERN SPRUCE	Sel. Str.	975		675	135	390	775	1,400,000
	No. 1	800		550	135	390	675	1,400,000
	No. 2	450		300	135	390	300	1,000,000
EASTERN HEMLOCK - TAMARACK	Sel. Str.	1300		875	155	555	1000	1,200,000
	No. 1	1050		700	155	555	875	1,200,000
	No. 2	600		400	155	555	400	900,000

EASTERN HEMLOCK	Sel. Str. No. 1 No. 2	1250	850	155	550	1000	1,200,000
		1050	700	155	550	875	1,200,000
		600	400	155	550	400	900,000
NORTHERN PINE	Sel. Str. No. 1 No. 2	1150	800	135	435	900	1,300,000
		950	650	135	435	800	1,300,000
		550	375	135	435	375	1,000,000
BALSAM FIR	Sel. Str. No. 1 No. 2	1250	825	125	305	1000	1,400,000
		1000	675	125	305	875	1,400,000
		575	375	125	305	400	1,100,000
NORTHERN WHITE CEDAR	Sel. Str. No. 1 No. 2	850	575	115	370	650	700,000
		675	450	115	370	550	700,000
		400	250	115	370	250	600,000
SPF(s) <i>(Eastern Spruce Red Pine Jack Pine Balsam Fir)</i>	Sel. Str. No. 1 No. 2	1000	675	125	335	700	1,200,000
		800	550	125	335	625	1,200,000
		475	325	125	335	425	1,000,000





TABLE 4
(Continued)
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 Design Values in Pounds Per Square Inch

Grades Described in para. 26.0-26.3

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 No. 2	1550	1050	180	715	1050	1,500,000
		1250	850	180	715	900	1,500,000
		725	475	180	715	425	1,200,000
MIXED OAK	Sel. Str. No. 1 No. 2	1250	850	155	800	875	1,000,000
		1000	675	155	800	775	1,000,000
		575	400	155	800	350	800,000
RED OAK	Sel. Str. No. 1 No. 2	1250	850	155	820	875	1,200,000
		1000	675	155	820	775	1,200,000
		575	400	155	820	350	1,000,000
NORTHERN RED OAK	Sel. Str. No. 1 No. 2	1500	1000	205	885	1000	1,300,000
		1200	800	205	885	875	1,300,000
		700	475	205	885	400	1,000,000
WHITE OAK	Sel. Str. No. 1 No. 2	1300	875	205	800	950	1,000,000
		1050	700	205	800	825	1,000,000
		600	400	205	800	400	800,000

