

**Size Adjusted Values For Dimension Lumber  
2" to 4" Thick by 2" and Wider**

**Eastern White Pine**

*Design values in pounds per square inch (psi)*

*Apply other adjustments, Tables C through G, when appropriate.  
Grades described in Standard Rules for Northeastern Lumber.*

Size 2" to 4" Thick by:	Grade	Extreme Fiber Stress in Bending ( $F_b$ )			Tension Parallel to Grain ( $F_t$ )	Horizontal Shear ( $F_v$ )	Compression		Modulus of Elasticity (E)
		2" & 3" Thick Single Use	2" & 3" Thick Repetitive Use	4" Thick ** Single Use			Perpendicular to Grain ( $F_c$ )	Parallel to Grain ( $F_c$ )	
		2" to 4" wide (2x2, 2x3, 3x3, 3x4)	Select Structural No.1 No.2 No.3 Construction Standard Utility (2x2, 2x3, 3x3) Utility (2x4,3x4,4x4) Stud	1875 1165 865 525 675 375 70 175 495			2155 1340 995 605 775 430 80 200 570	1875 1165 865 525 675 375 175 75 495	
6" wide (2x6, 3x6, & 4x6)	Select Structural No.1 No.2 No.3 Stud	1625 1000 750 455 450	1870 1160 865 525 520	1625 1010 750 455 450	750 455 360 195 200	135 135 135 135 135	350 350 350 350 350	1320 1100 910 525 525	1,200,000 1,100,000 1,100,000 1,000,000 1,000,000
8" wide (2x8, 3x8 & 4x8)	Select Structural No.1 No.2 No.3	1500 930 690 420	1725 1070 795 485	1625 1010 750 455	690 420 330 180	135 135 135 135	350 350 350 350	1260 1050 865 500	1,200,000 1,100,000 1,100,000 900,000
10" wide (2x10, 3x10 & 4x10)	Select Structural No.1 No.2	1375 855 635	1580 985 730	1500 930 690	635 385 305	135 135 135	350 350 350	1200 1000 825	1,200,000 1,100,000 1,100,000

	No.3	385	445	420	165	135	350	475	1,000,000
12" wide	Select Structural	1250	1440	1375	575	135	350	1200	1,200,000
2x12, 3x12	No.1	775	890	855	350	135	350	1000	1,100,000
& 4x12	No.2	575	660	635	275	135	350	825	1,100,000
	No.3	350	405	385	150	135	350	475	1,000,000
14" & wider	Select Structural	1125	1295	1250	520	135	350	1080	1,200,000
2x14 & wider	No.1	700	805	775	315	135	350	900	1,100,000
3x14 & wider	No.2	520	600	575	250	135	350	745	1,100,000
4x14 & wider	No.3	315	360	350	135	135	350	430	1,000,000

\*\* If using 4" thick lumber (4x6, 4x8, 4x10, 4x12, 4x14, and wider) in repetitive systems, multiply the 4" thick single Fb value by 1.15 to yield the repetitive member value.  
Example: SPFs No.1 4x8 repetitive Fb is 1105 x 1.15 = 1270 psi.

**Note:** Due to rounding to the nearest 5, some numbers are slightly different in this table than when the **Size** and **Repetitive Member** adjustments from Tables A and B in the *Standard Grading Rules for Northeastern Lumber* are applied to **Base Values** for dimension lumber.