

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

SPFs (Spruce-Pine-Fir South)

*Red Spruce
 Black Spruce
 White Spruce
 Red Pine
 Jack Pine
 Balsam Fir*

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, 2x4, 3x3, 3x4, 4x4)	Select Structural No.1 No.2 No.3 Construction Standard Utility (2x2, 2x3, 3x3) Utility (2x4,3x4,4x4) Stud	1950 1310 1165 675 850 475 90 225 660			2245 1505 1340 775 980 545 105 260 760	1950 1310 1165 675 850 475 n/a 225 660	
6" wide (2x6, 3x6, & 4x6)	Select Structural No.1 No.2 No.3 Stud	1690 1140 1010 585 600	1945 1310 1160 675 690	1690 1140 1010 585 600	750 520 425 260 250	135 135 135 135 135	335 335 335 335 335	1320 1155 1075 605 600	1,300,000 1,200,000 1,100,000 1,000,000 1,000,000
8" wide (2x8, 3x8 & 4x8)	Select Structural No.1 No.2 No.3	1560 1050 930 540	1795 1210 1070 620	1690 1140 1010 585	690 480 390 240	135 135 135 135	335 335 335 335	1260 1105 1025 580	1,300,000 1,200,000 1,100,000 1,000,000
10" wide (2x10, 3x10 & 4x10)	Select Structural No.1 No.2 No.3	1430 965 855 495	1645 1110 985 570	1560 1050 930 540	635 440 360 220	135 135 135 135	335 335 335 335	1200 1050 975 550	1,300,000 1,200,000 1,100,000 1,000,000
12" wide 2x12, 3x12 & 4x12	Select Structural No.1 No.2 No.3	1300 875 775 450	1495 1005 890 520	1430 965 855 495	575 400 325 200	135 135 135 135	335 335 335 335	1200 1050 975 550	1,300,000 1,200,000 1,100,000 1,000,000

14" & wider	Select Structural	1170	1345	1300	520	135	335	1080	1,300,000
2x14 & wider	No.1	790	920	875	360	135	335	945	1,200,000
3x14 & wider	No.2	700	805	775	295	135	335	880	1,100,000
4x14 & wider	No.3	405	465	450	180	135	335	495	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: SPF's No.1 4x8 repetitive Fb is $1140 \times 1.15 = 1310$ 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.