

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

Eastern Hemlock-Balsam Fir

Eastern Hemlock
Balsam Fir
Tamarack

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	1875			2155	1875	
	No.1	1165	1340	1165	525	140	335	1150	1,100,000
	No.2	865	995	865	410	140	335	950	1,100,000
	No.3	525	605	525	225	140	335	550	900,000
	Construction	675	775	675	300	140	335	1050	1,000,000
	Standard	375	430	375	175	140	335	850	900,000
	Utility (2x2, 2x3, 3x3)	70	80		30	140	335	330	800,000
	Utility (2x4,3x4,4x4)	175	200	175	75	140	335	550	800,000
	Stud	495	570	495	220	140	335	550	900,000
6" wide (2x6, 3x6, & 4x6)	Select Structural	1625	1870	1625	750	140	335	1320	1,200,000
	No.1	1010	1160	1010	455	140	335	1100	1,100,000
	No.2	750	865	750	360	140	335	910	1,100,000
	No.3	455	525	455	195	140	335	525	900,000
	Stud	450	520	450	200	140	335	525	900,000
8" wide (2x8, 3x8 & 4x8)	Select Structural	1500	1725	1625	690	140	335	1260	1,200,000
	No.1	930	1070	1010	420	140	335	1050	1,100,000
	No.2	690	795	750	330	140	335	865	1,100,000
	No.3	420	485	455	180	140	335	500	900,000
10" wide (2x10, 3x10)	Select Structural	1375	1580	1500	635	140	335	1200	1,200,000
	No.1	855	985	930	385	140	335	1000	1,100,000

& 4x10)	No.2	635	730	690	305	140	335	825	1,100,000
	No.3	385	445	420	165	140	335	475	900,000
12" wide 2x12, 3x12 & 4x12	Select Structural	1250	1440	1375	575	140	335	1200	1,200,000
	No.1	775	890	855	350	140	335	1000	1,100,000
	No.2	575	660	635	275	140	335	825	1,100,000
	No.3	350	405	385	150	140	335	475	900,000
14" & wider 2x14 & wider 3x14 & wider 4x14 & wider	Select Structural	1125	1295	1250	520	140	335	1080	1,200,000
	No.1	700	805	775	315	140	335	900	1,100,000
	No.2	520	600	575	250	140	335	745	1,100,000
	No.3	315	360	350	135	140	335	430	900,000

** 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.