



TABLE 1

DIMENSION LUMBER BASE VALUES – SOFTWOODS

2" to 4" THICK by 2" and WIDER

USE WITH ADJUSTMENT TABLES A THROUGH G

Design Values in Pounds Per Square Inch

Grades Described in para. 10.0-12.4

Also Stress Rated Boards, See para. 17.0

Species or Group	Grade	Extreme Fiber Stress in Bending "Fb" Single Members	Tension Parallel to Grain "Ft"	Horizontal Shear "Fv"	Compression		Modulus Elasticity "E"
					Perpendicular "Fc⊥"	Parallel to Grain "Fc//"	
SPF(s)** (<i>Eastern Spruce</i> <i>Red Pine</i> <i>Jack Pine</i> <i>Balsam Fir</i>)	Sel. Str.	1300	575	135	335	1200	1,300,000
	No. 1	875	400	135	335	1050	1,200,000
	No. 2	775	350	135	335	1000	1,100,000
	No. 3	450	200	135	335	575	1,000,000
	Construction Standard	875	400	135	335	1200	1,000,000
	Utility	500	225	135	335	1000	900,000
	Stud	225	100	135	335	675	900,000
		600	275	135	335	625	1,000,000

EASTERN WHITE PINE	Sel. Str.								
	No. 1	1250	575	135	350	1200	1,200,000		
	No. 2	775	350	135	350	1000	1,100,000		
	No. 3	575	275	135	350	825	1,100,000		
	Construction	350	150	135	350	475	900,000		
	Standard	675	300	135	350	1050	1,000,000		
	Utility	375	175	135	350	850	900,000		
	Stud	175	75	135	350	550	800,000		
		450	200	135	350	525	900,000		
NORTHERN WHITE CEDAR	Sel. Str.								
	No. 1	775	450	120	370	750	800,000		
	No. 2	575	325	120	370	600	700,000		
	No. 3	550	325	120	370	475	700,000		
	Construction	325	175	120	370	275	600,000		
	Standard	625	375	120	370	625	700,000		
	Utility	350	200	120	370	475	600,000		
	Stud	175	100	120	370	325	600,000		
		425	250	120	370	300	600,000		





TABLE 1
(Continued)
DIMENSION LUMBER BASE VALUES – SOFTWOODS
 2" to 4" THICK by 2" and WIDER
 USE WITH ADJUSTMENT TABLES A THROUGH G
 Design Values in Pounds Per Square Inch

Grades Described in para. 10.0-12.4

Also Stress Rated Boards, See para. 17.0

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 HEMLOCK-TAMARACK**	Sel. Str.	1250	575	170	555	1200	1,200,000
	No. 1	775	350	170	555	1000	1,100,000
	No. 2	575	275	170	555	825	1,100,000
	No. 3	350	150	170	555	475	900,000
	Construction Standard	675	300	170	555	1050	1,000,000
	Utility	375	175	170	555	850	900,000
	Stud	175	75	170	555	550	800,000
		450	200	170	555	525	900,000

E. HEMLOCK - BALSAM FIR - TAMARACK	Sel. Str.	1250	575	140	335	1200	1,200,000	
	No. 1	775	350	140	335	1000	1,100,000	
	No. 2	575	275	140	335	825	1,100,000	
	No. 3	350	150	140	335	475	900,000	
	Construction	675	300	140	335	1050	1,000,000	
	Standard	375	175	140	335	850	900,000	
	Utility	175	75	140	335	550	800,000	
	Stud	450	200	140	335	525	900,000	
	EASTERN*** SOFTWOODS	Sel. Str.	1250	575	140	335	1200	1,200,000
		No. 1	775	350	140	335	1000	1,100,000
No. 2		575	275	140	335	825	1,100,000	
No. 3		350	150	140	335	475	900,000	
Construction		675	300	140	335	1050	1,000,000	
Standard		375	175	140	335	850	900,000	
Utility		175	75	140	335	550	800,000	
Stud		450	200	140	335	525	900,000	

* See para. 31.0 through 37.0 for additional information on these values.

** The same values apply to each species if stamped individually.

*** Eastern Softwoods species grouping = Any combination of the above species, excluding Northern White Cedar.

