

Type and grade	Allowable Stresses											
	Bending		Tension parallel to grain		Horizontal shear		Compression perpendicular to grain		Compression parallel to grain		Modulus of elasticity	
	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	ksi	GPa
Framing Lumber: 2 in. to 4 in. thick by 2 in. and wider												
Douglas Fir-Larch												
Select Structural	1,450	10.0	1,000	6.9	95	0.66	625	4.3	1,700	11.7	1,900	13.1
No. 2	875	6.0	575	4.0	95	0.66	625	4.3	1,300	9.0	1,600	11.0
Hem-Fir												
Select Structural	1,400	9.7	900	6.2	75	0.52	405	2.8	1,500	10.3	1,600	11.0
No. 2	850	5.9	500	3.4	75	0.52	405	2.8	1,250	8.6	1,300	9.0
Spruce-Pine-Fir (South)												
Select Structural	1,300	9.0	575	4.0	70	0.48	335	2.3	1,200	8.3	1,300	9.0
No. 2	750	5.2	325	2.2	70	0.48	335	2.3	975	6.7	1,100	7.6
Western Cedars												
Select Structural	1,000	6.9	600	4.1	75	0.52	425	2.9	1,000	6.9	1,100	7.6
No. 2	700	4.8	425	2.9	75	0.52	425	2.9	650	4.5	1,000	6.9
Beams: 5 in. and thicker, width more than 2 in. greater than thickness												
Douglas Fir-Larch												
Select Structural	1,600	11.0	950	6.6	85	0.59	625	4.3	1,100	7.6	1,600	11.0
No. 2	875	6.0	425	2.9	85	0.59	625	4.3	600	4.1	1,300	9.0
Hem-Fir												
Select Structural	1,250	8.6	725	5.0	70	0.48	405	2.8	925	6.4	1,300	9.0
No. 2	675	4.7	325	2.2	70	0.48	405	2.8	475	3.3	1,100	7.6
Spruce-Pine-Fir (South)												
Select Structural	1,050	7.2	625	4.3	65	0.45	335	2.3	675	4.7	1,200	8.3
No. 2	575	4.0	300	2.1	65	0.45	335	2.3	350	2.4	1,000	6.9
Western Cedars												
Select Structural	1,150	7.9	700	4.8	70	0.48	425	2.9	875	6.0	1,000	6.9
No. 2	625	4.3	325	2.2	70	0.48	425	2.9	475	3.3	800	5.5
Posts: 5 in. by 5 in. and larger, width not more than 2 in. greater than thickness												
Douglas Fir-Larch												
Select Structural	1,500	10.3	1,000	6.9	85	0.59	625	4.3	1,150	7.9	1,600	11.0
No. 2	700	4.8	475	3.3	85	0.59	625	4.3	475	3.3	1,300	9.0
Hem-Fir												
Select Structural	1,200	8.3	800	5.5	70	0.48	405	2.8	975	6.7	1,300	9.0
No. 2	525	3.6	350	2.4	70	0.48	405	2.8	375	2.6	1,100	7.6
Spruce-Pine-Fir (South)												
Select Structural	1,000	6.9	675	4.7	65	0.45	335	2.3	700	4.8	1,200	8.3
No. 2	350	2.4	225	1.6	65	0.45	335	2.3	225	1.6	1,000	6.9
Western Cedars												
Select Structural	1,100	7.6	720	5.0	70	0.48	425	2.9	925	6.4	1,000	6.9
No. 2	500	3.4	350	2.4	70	0.48	425	2.9	375	2.6	800	5.5