SOUTHERN FOREST PRODUCTS ASSOCIATION

New Design Values[1] for Southern Pine
Effective June 1, 2013

NEW SOUTHERN PINE DESIGN VALUES

All Sizes and Grades
of Visually Graded Southern Pine Dimension Lumber

values in psi (pounds per square inch)

	Bending F_b	Tension Parallel to Grain F_t	Shear Parallel to Grain F_v	Compression Perpendicular to Grain $F_{c\perp}$	Compression Parallel to Grain F_c	Modulus of Elasticity E
2" to 4" thick, 2" to 4" wide						
Dense Select Structural	2700	1900	175	660	2050	1,900,000
Select Structural	2350	1650	175	565	1900	1,800,000
NonDense Select Struc.	2050	1450	175	480	1800	1,600,000
No.1 Dense	1650	1100	175	660	1750	1,800,000
No.1	1500	1000	175	565	1650	1,600,000
No.1 NonDense	1300	875	175	480	1550	1,400,000
No.2 Dense	1200	750	175	660	1500	1,600,000
No.2	1100	675	175	565	1450	1,400,000
No.2 NonDense	1050	600	175	480	1450	1,300,000
No.3 and Stud	650	400	175	565	850	1,300,000
Construction	875	500	175	565	1600	1,400,000
Standard	475	275	175	565	1300	1,200,000
Utility	225	125	175	565	850	1,200,000
2" to 4" thick, 5" to 6" wide						
Dense Select Structural	2400	1650	175	660	1900	1,900,000
Select Structural	2100	1450	175	565	1800	1,800,000
NonDense Select Struc.	1850	1300	175	480	1700	1,600,000
No.1 Dense	1500	1000	175	660	1650	1,800,000
No.1	1350	875	175	565	1550	1,600,000
No.1 NonDense	1200	775	175	480	1450	1,400,000
No.2 Dense	1050	650	175	660	1450	1,600,000
No.2	1000	600	175	565	1400	1,400,000
No.2 NonDense	950	525	175	480	1350	1,300,000
No.3 and Stud	575	350	175	565	800	1,300,000
2" to 4" thick, 8" wide						
Dense Select Structural	2200	1550	175	660	1850	1,900,000
Select Structural	1950	1350	175	565	1700	1,800,000
NonDense Select Struc.	1700	1200	175	480	1650	1,600,000
No.1 Dense	1350	900	175	660	1600	1,800,000
No.1	1250	800	175	565	1500	1,600,000
No.1 NonDense	1100	700	175	480	1400	1,400,000
No.2 Dense	975	600	175	660	1400	1,600,000
No.2	925	550	175	565	1350	1,400,000
No.2 NonDense	875	500	175	480	1300	1,300,000
No.3 and Stud	525	325	175	565	775	1,300,000

SOUTHERN FOREST PRODUCTS ASSOCIATION

New Design Values[1] for Southern Pine
Effective June 1, 2013

NEW SOUTHERN PINE DESIGN VALUES

All Sizes and Grades
of Visually Graded Southern Pine Dimension Lumber

values in psi (pounds per square inch)

	Bending F_b	Tension Parallel to Grain F_t	Shear Parallel to Grain F_v	Compression Perpendicular to Grain $F_{c\perp}$	Compression Parallel to Grain F_c	Modulus of Elasticity E
2" to 4" thick, 10" wide						
Dense Select Structural	1950	1300	175	660	1800	1,900,000
Select Structural	1700	1150	175	565	1650	1,800,000
NonDense Select Struc.	1500	1050	175	480	1600	1,600,000
No.1 Dense	1200	800	175	660	1550	1,800,000
No.1	1050	700	175	565	1450	1,600,000
No.1 NonDense	950	625	175	480	1400	1,400,000
No.2 Dense	850	525	175	660	1350	1,600,000
No.2	800	475	175	565	1300	1,400,000
No.2 NonDense	750	425	175	480	1250	1,300,000
No.3 and Stud	475	275	175	565	750	1,300,000
2" to 4" thick, 12" wide						
Dense Select Structural	1800	1250	175	660	1750	1,900,000
Select Structural	1600	1100	175	565	1650	1,800,000
NonDense Select Struc.	1400	975	175	480	1550	1,600,000
No.1 Dense	1100	750	175	660	1500	1,800,000
No.1	1000	650	175	565	1400	1,600,000
No.1 NonDense	900	575	175	480	1350	1,400,000
No.2 Dense	800	500	175	660	1300	1,600,000
No.2	750	450	175	565	1250	1,400,000
No.2 NonDense	700	400	175	480	1250	1,300,000
No.3 and Stud	450	250	175	565	725	1,300,000

[1]On February 11, 2013, the Southern Pine Inspection Bureau published new design values for all sizes and grades of visually graded Southern Pine dimension lumber in *Supplement No.13* to the *2002 Standard Grading Rules for Southern Pine Lumber*. The new design values become effective June 1, 2013 to provide time for an orderly transition.

The Southern Forest Products Association (SFPA) does not test lumber or establish design values. Accordingly, neither SFPA, nor its members, warrant that design values are correct, and disclaim responsibility for injury or damage resulting from the use of such design values. The conditions under which lumber is used in construction may vary widely, as does the quality of workmanship. Neither SFPA, nor its members, have knowledge of the quality of the materials, workmanship or construction methods used on any construction project, and, accordingly, do not warrant the technical data, design or performance of the lumber in completed structures.