



March 2012

ADDENDUM
to the 2012 and previous versions of
DESIGN VALUES FOR JOISTS AND RAFTERS
(a supplement to *Span Tables for Joists and Rafters*)

Effective June 1, 2012, design values for No. 2 Dense and lower grades of visually-graded Southern Pine and No. 2 and lower grades of visually-graded Mixed Southern Pine lumber, 2"- 4" thick, 2"- 4" wide, will change. The design values to use with the *Span Tables for Joists and Rafters* are shown below (values that will change on June 1, 2012 are shown as underlined):

TABLE W-1 DESIGN VALUES FOR JOISTS AND RAFTERS - VISUALLY GRADED LUMBER^{1,2}

These F_b values are for use where repetitive members are spaced not more than 24 inches. For wider spacing, F_b values shall be reduced 13%. Values for surfaced dry or surfaced green lumber apply at 19% maximum moisture content in use.

| Species and Grade | Size | Design Value in Bending, F_b | | | Compression perpendicular to grain, $F_{c\perp}$ | Modulus of Elasticity, E | Grading Rules Agency |
|----------------------------|------|--------------------------------|--------------|---------------|--|--------------------------|----------------------|
| | | Normal Duration | Snow Loading | 7-Day Loading | | | |
| MIXED SOUTHERN PINE | | | | | | | |
| No.2 | 2x4 | <u>1,210</u> | <u>1,390</u> | <u>1,510</u> | 565 | 1,400,000 | SPIB |
| No.3 and Stud | | <u>690</u> | <u>795</u> | <u>865</u> | 565 | 1,200,000 | |
| Construction | | <u>920</u> | <u>1,060</u> | <u>1,150</u> | 565 | 1,300,000 | |
| Standard | | <u>520</u> | <u>595</u> | <u>645</u> | 565 | 1,200,000 | |
| Utility | | <u>230</u> | <u>265</u> | <u>290</u> | 565 | 1,100,000 | |
| SOUTHERN PINE | | | | | | | |
| No.2 Dense | 2x4 | <u>1,325</u> | <u>1,520</u> | <u>1,655</u> | 660 | <u>1,500,000</u> | SPIB |
| No.2 | | <u>1,210</u> | <u>1,390</u> | <u>1,510</u> | 565 | <u>1,400,000</u> | |
| No.2 Non-Dense | | <u>1,120</u> | <u>1,290</u> | <u>1,400</u> | 480 | <u>1,200,000</u> | |
| No.3 and Stud | | <u>690</u> | <u>795</u> | <u>865</u> | 565 | <u>1,200,000</u> | |
| Construction | | <u>920</u> | <u>1,060</u> | <u>1,150</u> | 565 | <u>1,300,000</u> | |
| Standard | | <u>520</u> | <u>595</u> | <u>645</u> | 565 | <u>1,200,000</u> | |
| Utility | | <u>230</u> | <u>265</u> | <u>290</u> | 565 | <u>1,100,000</u> | |

See *Span Tables for Joists and Rafters* for footnotes to Table W-1.