

Standard Grading Rules for Southern Pine Lumber

Management of Change Form



Name of Person Requesting the Change: Linda Brown

Date of Requested Change: 4/6/2022

Request Title: Correction of Mixed Southern Pine Design Values

Printed Date: 4/6/2022

Change Category:

- | | |
|--------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Proposal to align with National Grading Rule | <input type="checkbox"/> Proposal to align with SPIB governance |
| <input type="checkbox"/> Proposal to align with ALSC Enforcement Regs | <input type="checkbox"/> Proposal based Resource Monitoring Program |
| <input type="checkbox"/> Proposal to align with PS 20 | <input type="checkbox"/> Grade Rule - Addition |
| <input checked="" type="checkbox"/> Editorial change to existing content | <input type="checkbox"/> Grade Rule – Removal |

Description of Proposed Change: *(In very few words, what does the proposed change accomplish?)*

Correction of one F_b value and three $F_{c//}$ values for Mixed Southern Pine.

Rationale: *(Briefly explain why the proposal should be adopted?)*

A stakeholder pointed out the inconsistency regarding 2x8 #3/Stud $F_{c//}$ value. Upon complete review, three other inconsistencies were identified. When new values were published for Southern Pine in 2013, Mixed Southern Pine values were dropped to be no higher than Southern Pine.

The four values in question were not dropped to the correct values.

Proposal: *(Show new, revised, or deleted text exactly as it would appear in the legislative format: **Line-through text** to be deleted. Underline text to be added. If possible, avoid using the "track changes" tool; instead, use the "strikethrough" and "underline" features in the font menu. Please note section(s) to be deleted if revisions are extensive and include replacement text. Please make every effort to include the text within this section, not as a separate attachment. Do not include unaffected sections, tables, or figures unless it is necessary to demonstrate the relationship of proposed revisions.)*

MIXED SOUTHERN PINE DIMENSION LUMBER						
Grade	Extreme Fiber in Bending "F _b "	Tension Parallel to Grain "F _t "	Horizontal Shear "F _v "	Compression Perpendicular to Grain "F _{cL} "	Compression Parallel to Grain "F _{cP} "	Modulus of Elasticity (million psi) "E"
Applies to 2" - 4" Thick - 2" - 4" Wide Only ⁽¹⁾						
Select Structural	2050	1200	175	565	1800	1.6
No. 1	1450	875	175	565	1650	1.5
No. 2	1100	675	175	565	1450	1.4
No. 3 and Stud	650	400	175	565	850	1.2
Construction Standard	850 875	500	175	565	1600	1.3
Utility ⁽²⁾	475	275	175	565	1300	1.2
Utility ⁽²⁾	225	125	175	565	850	1.1
Applies to 2" - 4" Thick - 5" - 6" Wide Only ⁽¹⁾						
Select Structural	1850	1100	175	565	1700	1.6
No. 1	1300	750	175	565	1550	1.5
No. 2	1000	600	175	565	1350 1400	1.4
No. 3 and Stud	575	350	175	565	775 800	1.2

Appendix A Table 10: Design Values for Mixed Southern Pine (Virginia Pine and Pond Pine) Dimension Lumber – 2" - 4" Thick

MIXED SOUTHERN PINE DIMENSION LUMBER						
Grade	Extreme Fiber in Bending "F _b "	Tension Parallel to Grain "F _t "	Horizontal Shear "F _v "	Compression Perpendicular to Grain "F _{cL} "	Compression Parallel to Grain "F _{cP} "	Modulus of Elasticity (million psi) "E"
Applies to 2" - 4" Thick - 8" Wide Only ⁽¹⁾⁽²⁾						
Select Structural	1750	1000	175	565	1600	1.6
No. 1	1200	700	175	565	1450	1.5
No. 2	925	550	175	565	1350	1.4
No. 3 and Stud	525	325	175	565	800 775	1.2
Applies to 2" - 4" Thick - 10" Wide Only ⁽¹⁾⁽²⁾						
Select Structural	1500	875	175	565	1600	1.6
No. 1	1050	600	175	565	1450	1.5
No. 2	800	475	175	565	1300	1.4
No. 3 and Stud	475	275	175	565	750	1.2
Applies to 2" - 4" Thick - 12" Wide Only ⁽¹⁾⁽²⁾⁽³⁾						
Select Structural	1400	825	175	565	1550	1.6
No. 1	975	575	175	565	1400	1.5
No. 2	750	450	175	565	1250	1.4
No. 3 and Stud	450	250	175	565	725	1.2

Appendix A Table 11: Design Values for Mixed Southern Pine (Virginia Pine and Pond Pine) Dimension Lumber – 2" - 4" Thick

Supporting Information:

The following excerpt from the December 2012 Design Value submission to the ALSC BOR documents the decision to drop any Mixed Southern Pine design value to a number no higher than the corresponding value for Southern Pine:

“Because of some of the current reductions of design values for Southern Pine, there are some cases, primarily No.2 and lower grades, where some properties of Mixed Southern Pine would have higher design values for some properties than for the major species of Southern Pine. This creates logistics issues when one considers that a very great percentage of the “Mixed Southern Pine” consists of the major species of Southern Pine. Therefore, the values to be published for the classification of “Mixed Southern Pine” are proposed to be the lower of: 1) the previous Mixed Southern Pine design values or 2) the newly proposed values for (major) Southern Pine. The proposed values are shown in Table 15. Note that Mixed Southern Pine does not include the dense and nondense classifications.”

END FORM