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**AMERICAN FOREST & PAPER ASSOCIATION**
American Wood Council
*Engineered and Traditional Wood Products*

March 1996

# 1996 ERRATA/ADDENDUM

# to

# 1995 SBC High Wind Edition

## WOOD FRAME CONSTRUCTION MANUAL

## FOR ONE- AND TWO-FAMILY DWELLINGS

| Page(s) | Revision(s) |
|---|---|
| Foreword | The provisions of the *WFCM-SBC* are based on dead, live, and wind loads derived from provisions of the *1994 Standard Building Code* with ~~1995~~ 1996 revisions (~~*1995*~~ *1996 SBC*). In general, the framing systems described in the *WFCM-SBC* utilize repetitive member wood assemblies. |
| Foreword | For specific design cases, the user may find advantages to computing design requirements directly from ~~*1995*~~ *1996 SBC* load requirements using actual building geometry. |
| 129, 132 | Required Holddown Capacity units are in pounds (lbs). |
| 137 | 100 mph, 2x8, 24 in o.c., Replace current values with: |

| | |
|---|---|
| Douglas Fir-Larch | * |
| Douglas Fir-Larch | 18-8 |
| Douglas Fir-Larch | 17-5 |
| Douglas Fir-Larch | 13-3 |
| Hem-Fir | * |
| Hem-Fir | 18-2 |
| Hem-Fir | 17-2 |
| Hem-Fir | 13-3 |
| Southern Pine | * |
| Southern Pine | * |
| Southern Pine | 18-8 |
| Southern Pine | 14-1 |
| Southern Pine | - |
| Spruce-Pine-Fir | 19-9 |
| Spruce-Pine-Fir | 17-5 |
| Spruce-Pine-Fir | 17-5 |
| Spruce-Pine-Fir | 13-3 |

232 New Supplement Table:

## Table 8 Specific Gravity for Solid Sawn Lumber

| Species Combination | Specific Gravity[1],G | Species Combination | Specific Gravity[1], G |
|---|---|---|---|
| Aspen | 0.39 | Mountain Hemlock | 0.47 |
| Balsam Fir | 0.36 | Northern Pine | 0.42 |
| Beech-Birch-Hickory | 0.71 | Northern Red Oak | 0.68 |
| Coast Sitka Spruce | 0.39 | Northern Species | 0.35 |
| Cottonwood | 0.41 | Northern White Cedar | 0.31 |
| Douglas Fir-Larch | 0.50 | Ponderosa Pine | 0.43 |
| Douglas Fir-Larch (North) | 0.49 | Red Maple | 0.58 |
| Douglas Fir-South | 0.46 | Red Oak | 0.67 |
| Eastern Hemlock | 0.41 | Red Pine | 0.44 |
| Eastern Hemlock-Tamarack | 0.41 | Redwood, close grain | 0.44 |
| Eastern Hemlock-Tamarack (North) | 0.47 | Redwood, open grain | 0.37 |
| Eastern Softwoods | 0.36 | Sitka Spruce | 0.43 |
| Eastern Spruce | 0.41 | Southern Pine | 0.55 |
| Eastern White Pine | 0.36 | Spruce-Pine-Fir | 0.42 |
| Engelmann Spruce-Lodgepole Pine[2] (MSR 1650f and higher grades) | 0.46 | Spruce-Pine-Fir (South) | 0.36 |
| | | Western Cedars | 0.36 |
| Engelmann Spruce-Lodgepole Pine[2] (MSR 1500f and lower grades) | 0.38 | Western Cedars (North) | 0.35 |
| | | Western Hemlock | 0.47 |
| Hem-Fir | 0.43 | Western Hemlock (North) | 0.46 |
| Hem-Fir (North) | 0.46 | Western White Pine | 0.40 |
| Mixed Maple | 0.55 | Western Woods | 0.36 |
| Mixed Oak | 0.68 | White Oak | 0.73 |
| Mixed Southern Pine | 0.51 | Yellow Poplar | 0.43 |

1. Specific gravity based on weight and volume when oven-dry.
2. Applies only to Engelmann Spruce-Lodgepole Pine machine stress rated (MSR) structural lumber.

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| Page(s) | Revision(s) |
|---|---|
| 32 | Table 2.2A - Footnote 7 - Tabulated unit uplift connection loads shall be permitted to be multiplied by ~~0.60~~ 0.70 for framing not located within 6' of corners for buildings less than 30 feet in width (W), or W/5 for buildings greater than 30 feet in width. |
| 33 | Table 2.2B - Footnote 5 - Tabulated ridge connection loads shall be permitted to be multiplied by ~~0.60~~ 0.70 for framing not located within 6' of corners for buildings less than 30 feet in width (W), or W/5 for buildings greater than 30 feet in width. |
| 111 | Table 3.2 - Footnote 2 - Tabulated uplift and lateral connection requirements shall be permitted to be multiplied by ~~0.60~~ 0.70 and 0.85, respectively, for framing not located within 8 feet of building corners. |
| 113 | Table 3.3 - Footnote 3 - Tabulated uplift and lateral connection requirements shall be permitted to be multiplied by ~~0.60~~ 0.70 and 0.85, respectively, for framing not located within 8 feet of building corners. |
| 118 | Table 3.5 - Footnote 2 - Tabulated uplift and lateral connection requirements shall be permitted to be multiplied by ~~0.60~~ 0.70 and 0.85, respectively, for framing not located within 8 feet of building corners. |

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Page(s) Revision(s)

33 Replace 5:12, 6:12, and 7:12-12:12 rows in Table 2.2B with:

| | | | | | | |
|---|---|---|---|---|---|---|
| 5:12 | 12 | 145 | 190 | 240 | 295 |
| | 24 | 289 | 380 | 480 | 589 |
| | 36 | 434 | 570 | 720 | 884 |
| | 48 | 579 | 760 | 960 | 1179 |
| | 60 | 724 | 950 | 1200 | 1473 |
| 6:12 | 12 | 131 | 171 | 216 | 264 |
| | 24 | 262 | 342 | 431 | 528 |
| | 36 | 393 | 514 | 647 | 792 |
| | 48 | 524 | 685 | 862 | 1057 |
| | 60 | 655 | 856 | 1078 | 1321 |
| 7:12-12:12 | 12 | 123 | 160 | 201 | 245 |
| | 24 | 246 | 320 | 401 | 490 |
| | 36 | 369 | 479 | 602 | 736 |
| | 48 | 492 | 639 | 802 | 981 |
| | 60 | 615 | 799 | 1003 | 1226 |

102 Revise Section 3.2.5.2 to read:

3.2.5.2 Jack Rafters

Jack rafters shall be attached to the wall assembly in accordance with 3.2.1.2 and 3.2.2.1 and attached to hip rafters in accordance with Table 3.4 using a roof span based on the cumulative span of opposing jack rafters.

117 Replace 5:12, 6:12, and 7:12-12:12 rows in Table 3.4 with:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5:12 | 12 | 2 | 2 | 2 | 3 | 145 | 190 | 240 | 295 |
| | 16 | 2 | 2 | 3 | 4 | 193 | 253 | 320 | 393 |
| | 20 | 2 | 3 | 4 | 4 | 241 | 317 | 400 | 491 |
| | 24 | 3 | 3 | 4 | 5 | 289 | 380 | 480 | 589 |
| | 28 | 3 | 4 | 5 | 6 | 338 | 443 | 560 | 688 |
| | 32 | 4 | 4 | 5 | 7 | 386 | 507 | 640 | 786 |
| | 36 | 4 | 5 | 6 | 7 | 434 | 570 | 720 | 884 |
| 6:12 | 12 | 2 | 2 | 2 | 3 | 131 | 171 | 216 | 264 |
| | 16 | 2 | 2 | 3 | 3 | 175 | 228 | 287 | 352 |
| | 20 | 2 | 3 | 3 | 4 | 218 | 285 | 359 | 440 |
| | 24 | 3 | 3 | 4 | 5 | 262 | 342 | 431 | 528 |
| | 28 | 3 | 4 | 4 | 5 | 306 | 399 | 503 | 616 |
| | 32 | 3 | 4 | 5 | 6 | 350 | 457 | 575 | 704 |
| | 36 | 4 | 5 | 6 | 7 | 393 | 514 | 647 | 792 |
| 7:12 - 12:12 | 12 | 1 | 2 | 2 | 2 | 123 | 160 | 201 | 245 |
| | 16 | 2 | 2 | 3 | 3 | 164 | 213 | 267 | 327 |
| | 20 | 2 | 3 | 3 | 4 | 205 | 266 | 334 | 409 |
| | 24 | 2 | 3 | 4 | 4 | 246 | 320 | 401 | 490 |
| | 28 | 3 | 3 | 4 | 5 | 287 | 373 | 468 | 572 |
| | 32 | 3 | 4 | 5 | 6 | 328 | 426 | 535 | 654 |
| | 36 | 3 | 4 | 5 | 6 | 369 | 479 | 602 | 736 |

151 Dead Load = 10 psf, 2x12, 24 in o.c., Replace current values in Table 3.24A with:

| | | |
|---|---|---|
| Douglas Fir-Larch | SS | * |
| Douglas Fir-Larch | #1 | 22- 6 |
| Douglas Fir-Larch | #2 | 21- 0 |
| Douglas Fir-Larch | #3 | 15-11 |
| Hem-Fir | SS | * |
| Hem-Fir | #1 | 21-11 |
| Hem-Fir | #2 | 20- 9 |
| Hem-Fir | #3 | 15-11 |
| Southern Pine | SS | * |
| Southern Pine | #1 | 25- 2 |
| Southern Pine | #2 | 22- 2 |
| Southern Pine | #3 | 17- 1 |
| Spruce-Pine-Fir | SS | 25- 2 |
| Spruce-Pine-Fir | #1 | 21- 0 |
| Spruce-Pine-Fir | #2 | 21- 0 |
| Spruce-Pine-Fir | #3 | 15-11 |

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Page(s) Revision(s)

140-144 Replace 4-2x8 spans and number of jack studs in Tables 3.21A-E with the following values:

| | | | Building Width (ft.) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 20 | | 28 | | 36 | |
| | | | Maximum Header/Girder Spans for Common Lumber Species[1] and Required Number of Jack Studs (NJ) | | | | | |
| | Headers Supporting | Size | (ft-in) | NJ | (ft-in) | NJ | (ft-in) | NJ |
| TABLE 3.21A | Roof and Ceiling | 4-2x8 | 9-2 | 1 | 8-4 | 1 | 7-9 | 1 |
| TABLE 3.21B | Roof, Ceiling, and One Floor (Center Bearing) | 4-2x8 | 8-1 | 1 | 7-5 | 1 | 6-10 | 2 |
| TABLE 3.21C | Roof, Ceiling, and One Floor (Clear Span) | 4-2x8 | 7-5 | 1 | 6-6 | 2 | 5-10 | 2 |
| TABLE 3.21D | Roof, Ceiling, and Two Floors (Center Bearing) | 4-2x8 | 7-1 | 1 | 6-3 | 2 | 5-8 | 2 |
| TABLE 3.21E | Roof, Ceiling, and Two Floors (Clear Span) | 4-2x8 | 5-10 | 2 | 5-1 | 2 | 4-6 | 2 |

147-148 Replace 4-2x8 spans and number of jack studs in Tables 3.22A-B with the following values:

| | | | Building Width (ft.) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 20 | | 28 | | 36 | |
| | | | Maximum Header/Girder Spans for Common Lumber Species[1] and Required Number of Jack Studs (NJ) | | | | | |
| | Headers Supporting | Size | (ft-in) | NJ | (ft-in) | NJ | (ft-in) | NJ |
| TABLE 3.22A | Roof and Ceiling | 4-2x8 | 9-0 | 1 | 7-8 | 1 | 6-9 | 1 |
| TABLE 3.22B | Roof, Ceiling, and One Floor (Center Bearing) | 4-2x8 | 6-1 | 1 | 5-3 | 2 | 4-8 | 2 |