

## THE ORIGINAL 1.8E • 2400Fb

The classic BOOZERBEAM<sup>™</sup> is made of the finest materials available. Each is built with the dedicated skill of our craftsmen and quality inspected by the APA-The Engineered Wood Association. We feel the beauty strength and durability of a BOOZERBEAM<sup>™</sup> is unequaled by any other engineered wood product.

- Quality inspected by the APA-The Engineered Wood Association
- Pound-for-pound stronger than steel I-beams.
- Available in architectural appearance grade for visually exposed applications. Absolutely beautiful!
- Less expensive than LVL & PSL.
- Exceptional value in cost vs. performance.
- Cambered to offset dead load deflection (optional).
- Individually wrapped with water resistant paper.
- Available in any length up to 52'.

**1.8E BOOZERBEAM,** is available in widths of 3 1/8" 5 1/8" 6 3/4" and 7" and depths that are compatible with I-joists, conventional framing and traditional glulam.

Please contact your nearest **BOOZERBEAM** dealer for sizes available in your market.









Load Duration Factor = 1.15, Fbx = 2,400 psi, Fvx = 210 psi, Ex = 1,800,000 psi

| 3-1/8-INCH W | /IDTH |      |      |      |      |     |     |     |     |     |     | SPAN (ft) |     |     |     |     |     |    |    |    |    |
|--------------|-------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----|----|----|----|----|
| Depth (in.)  | 8     | 10   | 12   | 14   | 16   | 18  | 20  | 22  | 24  | 26  | 28  | 30        | 32  | 34  | 36  | 38  | 40  | 42 | 44 | 46 | 48 |
| 5-1/2        | 447   | 227  | 129  | 80   | 52   |     |     |     |     |     |     |           |     |     |     |     |     |    |    |    |    |
| 6-7/8        | 702   | 446  | 256  | 159  | 105  | 72  | 51  |     |     |     |     |           |     |     |     |     |     |    |    |    |    |
| 8-1/4        | 1013  | 646  | 445  | 278  | 184  | 127 | 91  | 67  |     |     |     |           |     |     |     |     |     |    |    |    |    |
| 9-1/4        | 1274  | 813  | 562  | 393  | 261  | 181 | 130 | 96  | 72  | 55  |     |           |     |     |     |     |     |    |    |    |    |
| 9-1/2        | 1344  | 857  | 593  | 427  | 283  | 197 | 141 | 104 | 79  | 60  |     |           |     |     |     |     |     |    |    |    |    |
| 9-5/8        | 1380  | 880  | 609  | 444  | 295  | 205 | 147 | 109 | 82  | 63  |     |           |     |     |     |     |     |    |    |    |    |
| 11           | 1786  | 1151 | 797  | 583  | 443  | 308 | 222 | 165 | 125 | 97  | 76  | 60        |     |     |     |     |     |    |    |    |    |
| 11-1/4       | 1839  | 1204 | 833  | 610  | 465  | 330 | 238 | 177 | 134 | 104 | 81  | 64        | 52  |     |     |     |     |    |    |    |    |
| 11-7/8       | 1975  | 1342 | 929  | 680  | 519  | 390 | 281 | 209 | 159 | 123 | 97  | 77        | 62  |     |     |     |     |    |    |    |    |
| 12-3/8       | 2088  | 1458 | 1009 | 739  | 564  | 442 | 319 | 238 | 181 | 140 | 110 | 88        | 71  | 57  |     |     |     |    |    |    |    |
| 13-3/4       | 2413  | 1784 | 1247 | 914  | 697  | 548 | 441 | 328 | 250 | 195 | 154 | 123       | 99  | 81  | 67  | 55  |     |    |    |    |    |
| 14           | 2475  | 1827 | 1293 | 947  | 723  | 569 | 459 | 347 | 265 | 206 | 163 | 130       | 105 | 86  | 71  | 59  |     |    |    |    |    |
| 15-1/8       | 2766  | 2023 | 1511 | 1107 | 845  | 665 | 536 | 440 | 336 | 262 | 207 | 166       | 135 | 110 | 91  | 76  | 63  | 53 |    |    |    |
| 16           | 3006  | 2183 | 1691 | 1239 | 946  | 745 | 601 | 494 | 399 | 311 | 247 | 198       | 161 | 132 | 109 | 91  | 76  | 64 | 54 |    |    |
| 16-1/2       | 3150  | 2277 | 1782 | 1318 | 1006 | 792 | 639 | 526 | 438 | 342 | 271 | 218       | 178 | 146 | 121 | 101 | 85  | 71 | 60 | 51 |    |
| 17-7/8       | 3568  | 2548 | 1980 | 1548 | 1182 | 931 | 752 | 619 | 517 | 436 | 347 | 280       | 228 | 188 | 156 | 131 | 110 | 93 | 79 | 68 | 58 |
| 18           | 3608  | 2573 | 1998 | 1570 | 1199 | 944 | 762 | 627 | 524 | 442 | 355 | 286       | 233 | 192 | 160 | 134 | 113 | 95 | 81 | 69 | 59 |

Notes:

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|                             |                             | . =                     |
|-----------------------------|-----------------------------|-------------------------|
| Load Duration Factor = 1.15 | +bx = 2,400  psi, +vx = 210 | psi, Ex = 1,800,000 psi |
|                             |                             |                         |

| 5-1/8-INCH W | /IDTH |      |      |      |      |      |      |      |      |      |      | SPAN (ft) |      |      |     |     |     |     |     |     |     |
|--------------|-------|------|------|------|------|------|------|------|------|------|------|-----------|------|------|-----|-----|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10   | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36  | 38  | 40  | 42  | 44  | 46  | 48  |
| 5-1/2        | 733   | 372  | 212  | 131  | 85   | 58   |      |      |      |      |      |           |      |      |     |     |     |     |     |     |     |
| 6-7/8        | 1152  | 731  | 420  | 261  | 172  | 118  | 84   | 61   |      |      |      |           |      |      |     |     |     |     |     |     |     |
| 8-1/4        | 1661  | 1059 | 730  | 456  | 302  | 209  | 149  | 110  | 82   | 62   |      |           |      |      |     |     |     |     |     |     |     |
| 9-1/4        | 2089  | 1333 | 922  | 645  | 428  | 297  | 213  | 157  | 119  | 91   | 70   | 55        |      |      |     |     |     |     |     |     |     |
| 9-1/2        | 2204  | 1406 | 973  | 700  | 465  | 323  | 232  | 171  | 129  | 99   | 77   | 60        |      |      |     |     |     |     |     |     |     |
| 9-5/8        | 2263  | 1444 | 999  | 728  | 484  | 336  | 242  | 178  | 135  | 103  | 80   | 63        |      |      |     |     |     |     |     |     |     |
| 11           | 2930  | 1888 | 1307 | 956  | 726  | 506  | 365  | 271  | 205  | 158  | 124  | 98        | 78   | 63   | 51  |     |     |     |     |     |     |
| 11-1/4       | 3017  | 1975 | 1367 | 1000 | 763  | 542  | 391  | 290  | 220  | 170  | 133  | 106       | 85   | 68   | 55  |     |     |     |     |     |     |
| 11-7/8       | 3240  | 2201 | 1524 | 1116 | 851  | 639  | 462  | 343  | 261  | 202  | 159  | 126       | 101  | 82   | 67  | 54  |     |     |     |     |     |
| 12-3/8       | 3424  | 2391 | 1656 | 1212 | 924  | 724  | 524  | 390  | 296  | 230  | 181  | 144       | 116  | 94   | 77  | 63  | 52  |     |     |     |     |
| 13-3/4       | 3957  | 2926 | 2046 | 1498 | 1143 | 899  | 722  | 538  | 411  | 319  | 252  | 202       | 163  | 133  | 109 | 90  | 75  | 62  | 52  |     |     |
| 14           | 4059  | 2996 | 2121 | 1554 | 1185 | 933  | 748  | 569  | 434  | 338  | 267  | 214       | 173  | 141  | 116 | 96  | 80  | 66  | 55  |     |     |
| 15-1/8       | 4536  | 3318 | 2477 | 1815 | 1385 | 1086 | 871  | 713  | 551  | 429  | 340  | 273       | 221  | 181  | 150 | 124 | 104 | 87  | 73  | 62  | 52  |
| 16           | 4930  | 3580 | 2774 | 2032 | 1550 | 1213 | 973  | 797  | 654  | 510  | 405  | 325       | 264  | 217  | 179 | 150 | 125 | 105 | 89  | 75  | 64  |
| 16-1/2       | 5165  | 3735 | 2923 | 2162 | 1646 | 1289 | 1034 | 847  | 705  | 561  | 445  | 358       | 291  | 239  | 198 | 165 | 139 | 117 | 99  | 84  | 71  |
| 17-7/8       | 5852  | 4179 | 3247 | 2539 | 1926 | 1508 | 1211 | 992  | 826  | 698  | 570  | 459       | 374  | 308  | 256 | 214 | 180 | 153 | 130 | 111 | 95  |
| 18           | 5918  | 4220 | 3277 | 2575 | 1953 | 1529 | 1227 | 1006 | 837  | 707  | 582  | 469       | 382  | 315  | 262 | 219 | 185 | 156 | 133 | 113 | 97  |
| 19-1/4       | 6605  | 4653 | 3589 | 2919 | 2228 | 1744 | 1401 | 1148 | 956  | 808  | 690  | 577       | 471  | 389  | 324 | 271 | 229 | 195 | 166 | 142 | 122 |
| 20-5/8       | 7434  | 5160 | 3949 | 3196 | 2550 | 1997 | 1604 | 1315 | 1096 | 926  | 792  | 684       | 583  | 482  | 402 | 338 | 286 | 243 | 208 | 179 | 154 |
| 22           | 8350  | 5704 | 4328 | 3485 | 2894 | 2267 | 1821 | 1493 | 1244 | 1052 | 900  | 777       | 677  | 589  | 492 | 414 | 351 | 299 | 257 | 221 | 191 |
| 23-3/8       | 9369  | 6289 | 4730 | 3788 | 3157 | 2553 | 2052 | 1682 | 1402 | 1186 | 1014 | 877       | 764  | 671  | 594 | 500 | 425 | 363 | 312 | 269 | 233 |
| 24-3/4       | 10509 | 6920 | 5155 | 4104 | 3408 | 2856 | 2295 | 1882 | 1570 | 1327 | 1136 | 982       | 856  | 752  | 666 | 593 | 508 | 434 | 374 | 323 | 281 |
| 26-1/8       | 11792 | 7603 | 5605 | 4436 | 3669 | 3126 | 2552 | 2093 | 1746 | 1477 | 1264 | 1093      | 953  | 838  | 741 | 660 | 591 | 515 | 443 | 384 | 334 |
| 27-1/2       | 13247 | 8343 | 6084 | 4784 | 3940 | 3347 | 2822 | 2315 | 1931 | 1634 | 1398 | 1209      | 1055 | 928  | 821 | 731 | 655 | 589 | 521 | 451 | 393 |
| 28-7/8       | 14912 | 9149 | 6593 | 5150 | 4222 | 3576 | 3101 | 2548 | 2126 | 1798 | 1540 | 1332      | 1162 | 1022 | 905 | 806 | 722 | 650 | 587 | 526 | 459 |

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| Load Duration | Factor = 1 | 15 | Eby = | 2 100 nei | $F_{VV} = 210 \text{ period}$ | Ex = 1 800 000 pei |  |
|---------------|------------|----|-------|-----------|-------------------------------|--------------------|--|

| 6-3/4-INCH W | /IDTH |       |      |      |      |      |      |      |      |      |      | SPAN (ft) |      |      |      |      |     |     |     |     |     |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36   | 38   | 40  | 42  | 44  | 46  | 48  |
| 5-1/2        | 966   | 490   | 280  | 173  | 113  | 76   | 53   |      |      |      |      |           |      |      |      |      |     |     |     |     |     |
| 6-7/8        | 1517  | 963   | 553  | 344  | 226  | 156  | 110  | 80   | 59   |      |      |           |      |      |      |      |     |     |     |     |     |
| 8-1/4        | 2187  | 1395  | 961  | 600  | 397  | 275  | 197  | 144  | 108  | 82   | 63   |           |      |      |      |      |     |     |     |     |     |
| 9-1/4        | 2752  | 1756  | 1214 | 850  | 564  | 392  | 281  | 207  | 156  | 119  | 93   | 72        | 57   |      |      |      |     |     |     |     |     |
| 9-1/2        | 2903  | 1852  | 1281 | 921  | 612  | 425  | 305  | 226  | 170  | 130  | 101  | 79        | 62   |      |      |      |     |     |     |     |     |
| 9-5/8        | 2980  | 1901  | 1315 | 959  | 637  | 442  | 318  | 235  | 177  | 136  | 106  | 83        | 65   | 52   |      |      |     |     |     |     |     |
| 11           | 3858  | 2486  | 1721 | 1259 | 956  | 666  | 481  | 356  | 270  | 209  | 163  | 129       | 103  | 83   | 67   | 54   |     |     |     |     |     |
| 11-1/4       | 3973  | 2601  | 1800 | 1318 | 1004 | 713  | 515  | 382  | 290  | 224  | 176  | 139       | 111  | 90   | 73   | 59   |     |     |     |     |     |
| 11-7/8       | 4267  | 2899  | 2007 | 1469 | 1120 | 841  | 608  | 452  | 343  | 266  | 209  | 166       | 133  | 108  | 88   | 72   | 58  |     |     |     |     |
| 12-3/8       | 4509  | 3149  | 2181 | 1596 | 1215 | 950  | 690  | 513  | 390  | 303  | 238  | 190       | 153  | 124  | 101  | 83   | 68  | 56  |     |     |     |
| 13-3/4       | 5212  | 3854  | 2695 | 1973 | 1495 | 1169 | 938  | 709  | 541  | 421  | 332  | 266       | 215  | 175  | 144  | 119  | 99  | 82  | 68  | 57  |     |
| 14           | 5346  | 3945  | 2794 | 2044 | 1549 | 1211 | 972  | 749  | 572  | 445  | 351  | 281       | 228  | 186  | 153  | 126  | 105 | 87  | 73  | 61  | 51  |
| 15-1/8       | 5974  | 4370  | 3263 | 2378 | 1803 | 1410 | 1132 | 926  | 725  | 565  | 447  | 359       | 291  | 239  | 197  | 164  | 137 | 115 | 96  | 81  | 68  |
| 16           | 6494  | 4715  | 3652 | 2655 | 2013 | 1575 | 1264 | 1035 | 862  | 672  | 533  | 428       | 348  | 286  | 236  | 197  | 165 | 139 | 117 | 99  | 84  |
| 16-1/2       | 6803  | 4919  | 3849 | 2820 | 2138 | 1674 | 1343 | 1100 | 916  | 739  | 586  | 471       | 383  | 315  | 261  | 218  | 183 | 154 | 130 | 111 | 94  |
| 17-7/8       | 7708  | 5504  | 4277 | 3299 | 2502 | 1959 | 1572 | 1288 | 1073 | 906  | 750  | 604       | 493  | 406  | 337  | 282  | 238 | 201 | 171 | 146 | 125 |
| 18           | 7794  | 5559  | 4317 | 3345 | 2536 | 1986 | 1594 | 1306 | 1088 | 918  | 767  | 618       | 504  | 415  | 345  | 288  | 243 | 206 | 175 | 149 | 128 |
| 19-1/4       | 8699  | 6128  | 4727 | 3815 | 2893 | 2266 | 1819 | 1491 | 1242 | 1049 | 897  | 760       | 621  | 512  | 426  | 358  | 302 | 256 | 219 | 187 | 161 |
| 20-5/8       | 9791  | 6796  | 5201 | 4209 | 3312 | 2594 | 2084 | 1708 | 1423 | 1202 | 1028 | 888       | 768  | 635  | 529  | 445  | 376 | 320 | 274 | 236 | 203 |
| 22           | 10998 | 7513  | 5701 | 4590 | 3759 | 2945 | 2365 | 1939 | 1616 | 1366 | 1168 | 1009      | 880  | 772  | 648  | 545  | 462 | 394 | 338 | 291 | 252 |
| 23-3/8       | 12340 | 8284  | 6230 | 4989 | 4158 | 3317 | 2665 | 2185 | 1821 | 1540 | 1317 | 1138      | 992  | 872  | 771  | 659  | 559 | 478 | 410 | 354 | 307 |
| 24-3/4       | 13841 | 9115  | 6789 | 5406 | 4488 | 3710 | 2981 | 2445 | 2038 | 1724 | 1475 | 1275      | 1112 | 977  | 864  | 769  | 669 | 572 | 492 | 426 | 370 |
| 26-1/8       | 15531 | 10013 | 7383 | 5843 | 4832 | 4117 | 3315 | 2719 | 2267 | 1918 | 1641 | 1419      | 1238 | 1088 | 963  | 857  | 767 | 678 | 584 | 505 | 440 |
| 27-1/2       | 17448 | 10988 | 8013 | 6301 | 5189 | 4409 | 3666 | 3007 | 2508 | 2122 | 1816 | 1570      | 1370 | 1205 | 1066 | 949  | 850 | 765 | 686 | 595 | 518 |
| 28-7/8       | 19641 | 12050 | 8683 | 6782 | 5561 | 4710 | 4034 | 3310 | 2761 | 2336 | 2000 | 1729      | 1509 | 1327 | 1175 | 1047 | 937 | 843 | 762 | 692 | 604 |

28-7/8 19641 12050 8683 6782 5561 4710 4034 3310 2761 2336 2000 1729 18
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|--------------|-------|-------|-------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|-----|-----|-----|
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| 8-1/4        | 2836  | 1808  | 1246  | 778  | 515  | 356  | 255  | 187  | 140  | 106  | 81   | 63        |      |      |      |      |      |      |     |     |     |
| 9-1/4        | 3567  | 2276  | 1574  | 1101 | 731  | 508  | 364  | 269  | 202  | 155  | 120  | 94        | 74   | 58   |      |      |      |      |     |     |     |
| 9-1/2        | 3763  | 2401  | 1661  | 1194 | 793  | 551  | 396  | 292  | 220  | 169  | 131  | 103       | 81   | 64   | 51   |      |      |      |     |     |     |
| 9-5/8        | 3863  | 2465  | 1705  | 1243 | 826  | 574  | 412  | 305  | 230  | 176  | 137  | 107       | 85   | 67   | 53   |      |      |      |     |     |     |
| 11           | 5002  | 3223  | 2231  | 1629 | 1233 | 863  | 623  | 462  | 350  | 270  | 212  | 168       | 134  | 108  | 87   | 70   | 57   |      |     |     |     |
| 11-1/4       | 5150  | 3371  | 2334  | 1702 | 1289 | 925  | 668  | 495  | 376  | 290  | 228  | 180       | 144  | 116  | 94   | 76   | 62   | 50   |     |     |     |
| 11-7/8       | 5531  | 3758  | 2602  | 1893 | 1434 | 1091 | 788  | 586  | 445  | 345  | 271  | 215       | 173  | 140  | 114  | 93   | 76   | 62   | 50  |     |     |
| 12-3/8       | 5845  | 4082  | 2826  | 2053 | 1555 | 1215 | 894  | 665  | 506  | 392  | 309  | 246       | 198  | 160  | 131  | 107  | 88   | 72   | 59  |     |     |
| 13-3/4       | 6757  | 4996  | 3473  | 2524 | 1912 | 1496 | 1199 | 919  | 701  | 545  | 430  | 344       | 278  | 227  | 187  | 154  | 128  | 106  | 89  | 74  | 61  |
| 14           | 6930  | 5114  | 3598  | 2615 | 1981 | 1550 | 1243 | 972  | 741  | 577  | 455  | 365       | 295  | 241  | 198  | 164  | 136  | 113  | 95  | 79  | 66  |
| 15-1/8       | 7744  | 5665  | 4186  | 3043 | 2306 | 1804 | 1447 | 1185 | 940  | 732  | 580  | 465       | 378  | 309  | 255  | 212  | 177  | 149  | 125 | 105 | 89  |
| 16           | 8418  | 6112  | 4673  | 3397 | 2575 | 2015 | 1617 | 1324 | 1102 | 871  | 691  | 555       | 451  | 370  | 306  | 255  | 214  | 180  | 152 | 129 | 109 |
| 16-1/2       | 8819  | 6376  | 4963  | 3609 | 2736 | 2141 | 1718 | 1407 | 1171 | 958  | 760  | 611       | 497  | 408  | 338  | 282  | 237  | 200  | 169 | 143 | 122 |
| 17-7/8       | 9992  | 7134  | 5544  | 4221 | 3201 | 2506 | 2012 | 1648 | 1372 | 1159 | 973  | 784       | 639  | 526  | 437  | 366  | 308  | 261  | 222 | 189 | 162 |
| 18           | 10104 | 7206  | 5596  | 4279 | 3245 | 2541 | 2039 | 1670 | 1391 | 1175 | 994  | 801       | 653  | 538  | 447  | 374  | 315  | 267  | 227 | 194 | 166 |
| 19-1/4       | 11277 | 7944  | 6127  | 4881 | 3702 | 2899 | 2327 | 1907 | 1588 | 1342 | 1147 | 985       | 804  | 664  | 552  | 463  | 391  | 332  | 284 | 243 | 209 |
| 20-5/8       | 12692 | 8810  | 6742  | 5457 | 4238 | 3319 | 2666 | 2185 | 1820 | 1538 | 1315 | 1135      | 989  | 823  | 686  | 577  | 488  | 415  | 355 | 305 | 263 |
| 22           | 14256 | 9739  | 7390  | 5950 | 4809 | 3767 | 3026 | 2481 | 2067 | 1747 | 1494 | 1291      | 1125 | 988  | 839  | 707  | 599  | 511  | 438 | 377 | 326 |
| 23-3/8       | 15996 | 10738 | 8075  | 6467 | 5390 | 4243 | 3409 | 2795 | 2330 | 1970 | 1685 | 1456      | 1269 | 1115 | 986  | 854  | 725  | 619  | 532 | 459 | 398 |
| 24-3/4       | 17942 | 11815 | 8801  | 7007 | 5818 | 4746 | 3814 | 3127 | 2608 | 2205 | 1886 | 1630      | 1422 | 1249 | 1105 | 983  | 867  | 742  | 638 | 552 | 479 |
| 26-1/8       | 20132 | 12980 | 9570  | 7574 | 6263 | 5277 | 4241 | 3478 | 2901 | 2453 | 2099 | 1815      | 1583 | 1391 | 1231 | 1096 | 981  | 879  | 757 | 655 | 570 |
| 27-1/2       | 22617 | 14244 | 10387 | 8168 | 6727 | 5715 | 4690 | 3847 | 3209 | 2714 | 2323 | 2009      | 1752 | 1540 | 1364 | 1214 | 1087 | 978  | 883 | 771 | 671 |
| 28-7/8       | 25460 | 15620 | 11256 | 8792 | 7209 | 6106 | 5161 | 4234 | 3532 | 2988 | 2558 | 2212      | 1930 | 1697 | 1503 | 1338 | 1198 | 1078 | 975 | 884 | 783 |

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 (8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.



#### 2400Fb-1.8E-210Fv Southern Pine Glulam Floor Beams (lbf/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 210 psi, Ex = 1,800,000 psi

| 3-1/8-INCH W | /IDTH |      |      |      |      |     |     |     |     |     |     | SPAN (ft) |     |     |    |    |    |    |    |    |    |
|--------------|-------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----------|-----|-----|----|----|----|----|----|----|----|
| Depth (in.)  | 8     | 10   | 12   | 14   | 16   | 18  | 20  | 22  | 24  | 26  | 28  | 30        | 32  | 34  | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
| 5-1/2        | 278   | 140  | 79   |      |      |     |     |     |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 6-7/8        | 546   | 277  | 158  | 97   | 63   |     |     |     |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 8-1/4        | 880   | 481  | 276  | 171  | 113  | 77  | 54  |     |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 9-1/4        | 1107  | 680  | 390  | 243  | 161  | 111 | 79  | 57  |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 9-1/2        | 1168  | 737  | 423  | 264  | 174  | 120 | 86  | 62  |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 9-5/8        | 1199  | 764  | 440  | 275  | 181  | 125 | 89  | 65  |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 11           | 1552  | 1000 | 660  | 412  | 273  | 190 | 136 | 100 | 75  | 57  |     |           |     |     |    |    |    |    |    |    |    |
| 11-1/4       | 1598  | 1046 | 706  | 442  | 293  | 203 | 146 | 107 | 81  | 62  |     |           |     |     |    |    |    |    |    |    |    |
| 11-7/8       | 1717  | 1166 | 807  | 520  | 346  | 240 | 172 | 127 | 96  | 73  | 57  |           |     |     |    |    |    |    |    |    |    |
| 12-3/8       | 1814  | 1267 | 877  | 590  | 392  | 272 | 196 | 145 | 109 | 84  | 65  | 51        |     |     |    |    |    |    |    |    |    |
| 13-3/4       | 2097  | 1550 | 1083 | 793  | 540  | 376 | 271 | 201 | 152 | 118 | 92  | 73        | 58  |     |    |    |    |    |    |    |    |
| 14           | 2151  | 1587 | 1123 | 822  | 571  | 397 | 287 | 213 | 161 | 125 | 98  | 77        | 62  |     |    |    |    |    |    |    |    |
| 15-1/8       | 2404  | 1758 | 1312 | 961  | 721  | 503 | 364 | 270 | 205 | 159 | 125 | 99        | 80  | 65  | 53 |    |    |    |    |    |    |
| 16           | 2613  | 1897 | 1469 | 1076 | 821  | 597 | 432 | 321 | 245 | 190 | 149 | 119       | 96  | 78  | 64 | 52 |    |    |    |    |    |
| 16-1/2       | 2737  | 1978 | 1548 | 1145 | 873  | 656 | 475 | 353 | 269 | 209 | 165 | 132       | 106 | 86  | 71 | 58 |    |    |    |    |    |
| 17-7/8       | 3101  | 2214 | 1720 | 1345 | 1026 | 808 | 606 | 452 | 345 | 268 | 212 | 170       | 137 | 112 | 92 | 76 | 64 | 53 |    |    |    |
| 18           | 3136  | 2236 | 1736 | 1363 | 1041 | 819 | 619 | 461 | 352 | 274 | 217 | 173       | 140 | 115 | 94 | 78 | 65 | 54 |    |    |    |

Notes:

(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
(2) Span = simply supported beam.
(3) Maximum deflection = L/360 under live load, based on live/total load = 0.8. Where additional stiffness is desired or for other live/total load ratios,

(d) instantial deletation in the field per requirements.
(4) Service condition = dry.
(5) Tabulated values represent total loads based on live/total load = 0.8 and have taken the dead weight of the beam (assumed 36 pcf) into account.

(6) Sufficient bearing length shall be provided at supports
(7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
(8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.



#### 2400F-1.8E-210Fv Southern Pine Glulam Floor Beams (lbf/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 210 psi, Ex = 1,800,000 psi

| 5-1/8-INCH W | /IDTH |      |      |      |      |      |      |      |      |      |      | SPAN (ft) |      |     |     |     |     |     |     |     |     |
|--------------|-------|------|------|------|------|------|------|------|------|------|------|-----------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10   | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34  | 36  | 38  | 40  | 42  | 44  | 46  | 48  |
| 5-1/2        | 456   | 230  | 130  | 79   | 51   |      |      |      |      |      |      |           |      |     |     |     |     |     |     |     |     |
| 6-7/8        | 895   | 454  | 259  | 160  | 104  | 71   |      |      |      |      |      |           |      |     |     |     |     |     |     |     |     |
| 8-1/4        | 1443  | 789  | 452  | 281  | 185  | 126  | 89   | 65   |      |      |      |           |      |     |     |     |     |     |     |     |     |
| 9-1/4        | 1815  | 1115 | 640  | 399  | 263  | 181  | 129  | 94   | 70   | 52   |      |           |      |     |     |     |     |     |     |     |     |
| 9-1/2        | 1915  | 1208 | 694  | 433  | 286  | 197  | 140  | 102  | 76   | 57   |      |           |      |     |     |     |     |     |     |     |     |
| 9-5/8        | 1966  | 1254 | 722  | 450  | 298  | 205  | 146  | 107  | 79   | 60   |      |           |      |     |     |     |     |     |     |     |     |
| 11           | 2546  | 1640 | 1082 | 676  | 449  | 311  | 223  | 164  | 123  | 94   | 72   | 56        |      |     |     |     |     |     |     |     |     |
| 11-1/4       | 2621  | 1715 | 1159 | 724  | 480  | 333  | 239  | 176  | 132  | 101  | 78   | 61        |      |     |     |     |     |     |     |     |     |
| 11-7/8       | 2815  | 1912 | 1323 | 854  | 567  | 394  | 283  | 209  | 157  | 120  | 93   | 73        | 58   |     |     |     |     |     |     |     |     |
| 12-3/8       | 2975  | 2077 | 1438 | 967  | 643  | 447  | 321  | 238  | 179  | 138  | 107  | 84        | 66   | 53  |     |     |     |     |     |     |     |
| 13-3/4       | 3439  | 2542 | 1777 | 1301 | 886  | 617  | 445  | 330  | 250  | 193  | 151  | 119       | 95   | 77  | 62  |     |     |     |     |     |     |
| 14           | 3527  | 2602 | 1842 | 1349 | 936  | 652  | 470  | 349  | 265  | 204  | 160  | 127       | 101  | 81  | 66  | 53  |     |     |     |     |     |
| 15-1/8       | 3942  | 2883 | 2152 | 1576 | 1183 | 825  | 596  | 443  | 337  | 261  | 205  | 163       | 131  | 106 | 86  | 70  | 58  |     |     |     |     |
| 16           | 4285  | 3110 | 2409 | 1765 | 1345 | 979  | 708  | 527  | 401  | 311  | 245  | 195       | 157  | 128 | 104 | 86  | 71  | 58  |     |     |     |
| 16-1/2       | 4489  | 3245 | 2539 | 1877 | 1429 | 1075 | 778  | 579  | 441  | 343  | 270  | 216       | 174  | 142 | 116 | 95  | 79  | 65  | 54  |     |     |
| 17-7/8       | 5086  | 3631 | 2821 | 2205 | 1672 | 1308 | 993  | 741  | 565  | 440  | 347  | 278       | 225  | 184 | 151 | 125 | 104 | 87  | 73  | 61  | 51  |
| 18           | 5143  | 3667 | 2847 | 2236 | 1695 | 1327 | 1015 | 757  | 578  | 449  | 355  | 284       | 230  | 188 | 155 | 128 | 107 | 89  | 74  | 62  | 52  |
| 19-1/4       | 5740  | 4043 | 3117 | 2535 | 1934 | 1514 | 1215 | 929  | 710  | 553  | 438  | 351       | 285  | 234 | 193 | 160 | 134 | 112 | 95  | 80  | 67  |
| 20-5/8       | 6461  | 4484 | 3430 | 2776 | 2214 | 1733 | 1392 | 1140 | 877  | 684  | 543  | 436       | 355  | 291 | 241 | 201 | 169 | 142 | 120 | 102 | 87  |
| 22           | 7257  | 4957 | 3760 | 3027 | 2513 | 1968 | 1580 | 1295 | 1068 | 834  | 662  | 533       | 434  | 357 | 297 | 248 | 209 | 176 | 150 | 128 | 109 |
| 23-3/8       | 8143  | 5465 | 4109 | 3290 | 2741 | 2216 | 1780 | 1459 | 1216 | 1005 | 798  | 643       | 525  | 433 | 360 | 301 | 254 | 215 | 183 | 157 | 134 |
| 24-3/4       | 9134  | 6014 | 4478 | 3565 | 2959 | 2480 | 1992 | 1633 | 1361 | 1150 | 951  | 768       | 627  | 517 | 431 | 362 | 306 | 260 | 222 | 190 | 163 |
| 26-1/8       | 10249 | 6607 | 4870 | 3853 | 3186 | 2714 | 2215 | 1816 | 1514 | 1280 | 1095 | 907       | 741  | 612 | 511 | 429 | 363 | 309 | 265 | 227 | 196 |
| 27-1/2       | 11515 | 7250 | 5286 | 4155 | 3421 | 2906 | 2450 | 2009 | 1675 | 1416 | 1211 | 1047      | 868  | 718 | 599 | 504 | 427 | 364 | 312 | 269 | 232 |
| 28-7/8       | 12962 | 7951 | 5728 | 4473 | 3667 | 3105 | 2691 | 2211 | 1844 | 1559 | 1334 | 1153      | 1006 | 835 | 698 | 588 | 499 | 426 | 365 | 315 | 273 |

<u>28-778</u> 12962 7951 5728 4473 3667 3105 2691 2211 1844 1559 1334 1153 10
Notes:
(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
(2) Span = simply supported beam.
(3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
(4) Service condition = dry.
(5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
(6) Sufficient bearing loads the unporter

(6) Sufficient bearing length shall be provided at supports
 (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
 (8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.



#### 2400F-1.8E-210Fv Southern Pine Glulam Floor Beams (lbf/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 210 psi, Ex = 1,800,000 psi

| 6-3/4-INCH W | /IDTH |       |      |      |      |      |      |      |      |      |      | SPAN (ft) |      |      |     |     |     |     |     |     |     |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|-----------|------|------|-----|-----|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36  | 38  | 40  | 42  | 44  | 46  | 48  |
| 5-1/2        | 600   | 303   | 171  | 104  | 67   |      |      |      |      |      |      |           |      |      |     |     |     |     |     |     |     |
| 6-7/8        | 1178  | 598   | 341  | 210  | 137  | 93   | 65   |      |      |      |      |           |      |      |     |     |     |     |     |     |     |
| 8-1/4        | 1900  | 1039  | 595  | 370  | 243  | 167  | 118  | 85   | 62   |      |      |           |      |      |     |     |     |     |     |     |     |
| 9-1/4        | 2391  | 1468  | 843  | 525  | 347  | 239  | 170  | 124  | 92   | 69   | 52   |           |      |      |     |     |     |     |     |     |     |
| 9-1/2        | 2522  | 1592  | 914  | 570  | 376  | 260  | 185  | 135  | 100  | 75   | 57   |           |      |      |     |     |     |     |     |     |     |
| 9-5/8        | 2589  | 1651  | 951  | 593  | 392  | 270  | 193  | 141  | 105  | 79   | 60   |           |      |      |     |     |     |     |     |     |     |
| 11           | 3353  | 2159  | 1426 | 891  | 591  | 409  | 293  | 216  | 162  | 123  | 95   | 74        | 58   |      |     |     |     |     |     |     |     |
| 11-1/4       | 3452  | 2259  | 1526 | 954  | 633  | 439  | 315  | 232  | 174  | 133  | 103  | 80        | 62   |      |     |     |     |     |     |     |     |
| 11-7/8       | 3708  | 2518  | 1743 | 1124 | 747  | 518  | 372  | 275  | 207  | 159  | 123  | 96        | 76   | 60   |     |     |     |     |     |     |     |
| 12-3/8       | 3918  | 2736  | 1893 | 1274 | 847  | 588  | 423  | 313  | 236  | 181  | 141  | 111       | 88   | 70   | 55  |     |     |     |     |     |     |
| 13-3/4       | 4529  | 3348  | 2340 | 1713 | 1167 | 813  | 586  | 435  | 329  | 254  | 199  | 157       | 126  | 101  | 81  | 66  | 53  |     |     |     |     |
| 14           | 4646  | 3428  | 2426 | 1774 | 1232 | 859  | 620  | 460  | 349  | 269  | 211  | 167       | 133  | 107  | 87  | 70  | 57  |     |     |     |     |
| 15-1/8       | 5192  | 3797  | 2834 | 2065 | 1558 | 1087 | 785  | 584  | 444  | 344  | 270  | 215       | 172  | 140  | 114 | 93  | 76  | 62  | 51  |     |     |
| 16           | 5643  | 4097  | 3172 | 2306 | 1747 | 1290 | 933  | 694  | 529  | 410  | 323  | 257       | 207  | 168  | 138 | 113 | 93  | 77  | 63  | 52  |     |
| 16-1/2       | 5912  | 4274  | 3344 | 2449 | 1856 | 1416 | 1025 | 763  | 581  | 451  | 356  | 284       | 229  | 186  | 153 | 126 | 104 | 86  | 71  | 59  |     |
| 17-7/8       | 6699  | 4782  | 3715 | 2865 | 2172 | 1699 | 1308 | 976  | 744  | 579  | 458  | 366       | 297  | 242  | 199 | 165 | 137 | 114 | 96  | 80  | 67  |
| 18           | 6774  | 4830  | 3750 | 2904 | 2202 | 1723 | 1337 | 997  | 761  | 592  | 468  | 375       | 303  | 248  | 204 | 169 | 140 | 117 | 98  | 82  | 69  |
| 19-1/4       | 7560  | 5324  | 4106 | 3313 | 2512 | 1966 | 1578 | 1224 | 935  | 728  | 577  | 463       | 376  | 308  | 254 | 211 | 176 | 148 | 125 | 105 | 88  |
| 20-5/8       | 8509  | 5905  | 4518 | 3656 | 2876 | 2251 | 1807 | 1480 | 1155 | 901  | 715  | 574       | 467  | 384  | 318 | 265 | 222 | 187 | 158 | 134 | 114 |
| 22           | 9558  | 6528  | 4952 | 3987 | 3264 | 2556 | 2052 | 1681 | 1401 | 1099 | 872  | 702       | 572  | 471  | 391 | 327 | 275 | 232 | 197 | 168 | 143 |
| 23-3/8       | 10725 | 7198  | 5412 | 4333 | 3610 | 2879 | 2312 | 1895 | 1579 | 1323 | 1051 | 847       | 691  | 570  | 474 | 397 | 335 | 284 | 242 | 207 | 177 |
| 24-3/4       | 12030 | 7920  | 5898 | 4695 | 3897 | 3221 | 2587 | 2120 | 1767 | 1493 | 1253 | 1011      | 826  | 681  | 568 | 476 | 402 | 342 | 292 | 250 | 215 |
| 26-1/8       | 13499 | 8702  | 6414 | 5075 | 4196 | 3574 | 2877 | 2358 | 1966 | 1662 | 1421 | 1194      | 976  | 807  | 672 | 565 | 478 | 407 | 348 | 299 | 258 |
| 27-1/2       | 15166 | 9549  | 6961 | 5473 | 4506 | 3828 | 3182 | 2609 | 2175 | 1839 | 1573 | 1360      | 1144 | 946  | 789 | 664 | 563 | 480 | 411 | 354 | 306 |
| 28-7/8       | 17072 | 10472 | 7544 | 5891 | 4829 | 4090 | 3502 | 2871 | 2394 | 2025 | 1732 | 1498      | 1306 | 1100 | 919 | 774 | 657 | 561 | 481 | 415 | 359 |

28/1/8 17072 10472 7544 5891 4829 4090 3502 28/1 2394 2025 1732 1498 15.
Notes:
(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
(2) Span = simply supported beam.
(3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
(4) Service condition = dry.
(5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
(6) Sufficient bearing loads the unporter

(6) Sufficient bearing length shall be provided at a distance from the supports equal to the depth of the bearn.
 (7) Maximum beam shear is located at a distance from the supports equal to the depth of the bearn.
 (8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.



#### 2400F-1.8E-210Fv Southern Pine Glulam Floor Beams (lbf/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 210 psi, Ex = 1,800,000 psi

| 8-3/4-INCH W | /IDTH |       |      |      |      |      |      |      |      |      |      | SPAN (ft) |      |      |      |      |     |     |     |     |     |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36   | 38   | 40  | 42  | 44  | 46  | 48  |
| 8-1/4        | 2463  | 1347  | 772  | 479  | 315  | 216  | 153  | 110  | 81   | 60   |      |           |      |      |      |      |     |     |     |     |     |
| 9-1/4        | 3099  | 1903  | 1093 | 681  | 449  | 310  | 220  | 160  | 119  | 89   | 67   | 51        |      |      |      |      |     |     |     |     |     |
| 9-1/2        | 3270  | 2063  | 1185 | 739  | 488  | 337  | 240  | 175  | 130  | 98   | 74   | 56        |      |      |      |      |     |     |     |     |     |
| 9-5/8        | 3356  | 2141  | 1233 | 769  | 508  | 351  | 250  | 182  | 136  | 102  | 78   | 59        |      |      |      |      |     |     |     |     |     |
| 11           | 4346  | 2799  | 1848 | 1155 | 766  | 531  | 380  | 280  | 210  | 160  | 123  | 96        | 75   | 58   |      |      |     |     |     |     |     |
| 11-1/4       | 4475  | 2929  | 1978 | 1237 | 820  | 569  | 408  | 300  | 226  | 172  | 133  | 104       | 81   | 63   |      |      |     |     |     |     |     |
| 11-7/8       | 4806  | 3264  | 2259 | 1457 | 968  | 672  | 483  | 356  | 268  | 206  | 159  | 125       | 98   | 78   | 61   |      |     |     |     |     |     |
| 12-3/8       | 5079  | 3546  | 2454 | 1652 | 1097 | 763  | 549  | 406  | 306  | 235  | 183  | 144       | 113  | 90   | 72   | 57   |     |     |     |     |     |
| 13-3/4       | 5871  | 4340  | 3016 | 2191 | 1513 | 1053 | 760  | 563  | 427  | 329  | 258  | 204       | 163  | 131  | 105  | 85   | 69  | 55  |     |     |     |
| 14           | 6022  | 4443  | 3125 | 2270 | 1598 | 1113 | 803  | 596  | 452  | 349  | 273  | 216       | 173  | 139  | 112  | 91   | 74  | 59  |     |     |     |
| 15-1/8       | 6730  | 4922  | 3636 | 2642 | 2001 | 1409 | 1018 | 757  | 575  | 445  | 350  | 278       | 224  | 181  | 147  | 120  | 98  | 80  | 66  | 53  |     |
| 16           | 7315  | 5310  | 4059 | 2950 | 2235 | 1672 | 1209 | 900  | 685  | 531  | 419  | 334       | 269  | 218  | 178  | 146  | 121 | 99  | 82  | 67  | 55  |
| 16-1/2       | 7664  | 5540  | 4311 | 3133 | 2374 | 1836 | 1329 | 989  | 754  | 585  | 461  | 368       | 297  | 242  | 198  | 163  | 135 | 111 | 92  | 76  | 63  |
| 17-7/8       | 8683  | 6199  | 4816 | 3666 | 2778 | 2174 | 1696 | 1265 | 965  | 751  | 593  | 475       | 385  | 314  | 258  | 214  | 178 | 148 | 124 | 104 | 86  |
| 18           | 8781  | 6261  | 4861 | 3716 | 2817 | 2204 | 1733 | 1292 | 986  | 767  | 606  | 486       | 393  | 321  | 264  | 219  | 182 | 152 | 127 | 106 | 89  |
| 19-1/4       | 9800  | 6902  | 5322 | 4239 | 3213 | 2515 | 2018 | 1586 | 1212 | 944  | 748  | 600       | 487  | 399  | 330  | 274  | 229 | 192 | 161 | 136 | 115 |
| 20-5/8       | 11030 | 7655  | 5856 | 4739 | 3679 | 2880 | 2312 | 1894 | 1497 | 1168 | 926  | 745       | 606  | 497  | 412  | 344  | 288 | 243 | 205 | 174 | 148 |
| 22           | 12390 | 8462  | 6420 | 5168 | 4176 | 3270 | 2625 | 2151 | 1791 | 1424 | 1131 | 910       | 742  | 610  | 507  | 424  | 356 | 301 | 256 | 218 | 186 |
| 23-3/8       | 13903 | 9331  | 7015 | 5617 | 4680 | 3683 | 2958 | 2424 | 2019 | 1706 | 1363 | 1099      | 896  | 739  | 614  | 515  | 434 | 368 | 313 | 268 | 230 |
| 24-3/4       | 15594 | 10267 | 7646 | 6086 | 5052 | 4120 | 3309 | 2712 | 2260 | 1910 | 1624 | 1311      | 1070 | 883  | 736  | 617  | 522 | 443 | 378 | 324 | 279 |
| 26-1/8       | 17499 | 11280 | 8314 | 6578 | 5439 | 4581 | 3680 | 3017 | 2515 | 2126 | 1818 | 1548      | 1265 | 1046 | 872  | 733  | 620 | 528 | 452 | 388 | 335 |
| 27-1/2       | 19659 | 12378 | 9024 | 7095 | 5841 | 4962 | 4070 | 3337 | 2782 | 2352 | 2012 | 1739      | 1482 | 1226 | 1023 | 861  | 730 | 622 | 533 | 459 | 397 |
| 28-7/8       | 22131 | 13574 | 9779 | 7637 | 6260 | 5301 | 4480 | 3673 | 3063 | 2590 | 2216 | 1915      | 1670 | 1426 | 1191 | 1003 | 851 | 727 | 624 | 538 | 466 |

Notes:

(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.

(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stabil (2) Span = simply supported beam.
 (3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
 (4) Service condition = dry.
 (5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
 (6) Sufficient bearing length shall be provided at supports
 (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
 (8) Upper-right areas limited by deflection; medium areas limited by bending strength; lower-left areas limited by shear strength.



Load Duration Factor = 1.15, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 psi

| 3-1/8-INCH W | VIDTH |      |      |      |      |     |     |     |     |     |     | SPAN (ft) |     |     |     |     |     |    |    |    |    |
|--------------|-------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----|----|----|----|----|
| Depth (in.)  | 8     | 10   | 12   | 14   | 16   | 18  | 20  | 22  | 24  | 26  | 28  | 30        | 32  | 34  | 36  | 38  | 40  | 42 | 44 | 46 | 48 |
| 5-1/2        | 447   | 227  | 129  | 80   | 52   |     |     |     |     |     |     |           |     |     |     |     |     |    |    |    |    |
| 6-7/8        | 702   | 446  | 256  | 159  | 105  | 72  | 51  |     |     |     |     |           |     |     |     |     |     |    |    |    |    |
| 8-1/4        | 1013  | 646  | 445  | 278  | 184  | 127 | 91  | 67  |     |     |     |           |     |     |     |     |     |    |    |    |    |
| 9-1/4        | 1274  | 813  | 562  | 393  | 261  | 181 | 130 | 96  | 72  | 55  |     |           |     |     |     |     |     |    |    |    |    |
| 9-1/2        | 1344  | 857  | 593  | 427  | 283  | 197 | 141 | 104 | 79  | 60  |     |           |     |     |     |     |     |    |    |    |    |
| 9-5/8        | 1380  | 880  | 609  | 444  | 295  | 205 | 147 | 109 | 82  | 63  |     |           |     |     |     |     |     |    |    |    |    |
| 11           | 1803  | 1151 | 797  | 583  | 443  | 308 | 222 | 165 | 125 | 97  | 76  | 60        |     |     |     |     |     |    |    |    |    |
| 11-1/4       | 1886  | 1204 | 833  | 610  | 465  | 330 | 238 | 177 | 134 | 104 | 81  | 64        | 52  |     |     |     |     |    |    |    |    |
| 11-7/8       | 2102  | 1342 | 929  | 680  | 519  | 390 | 281 | 209 | 159 | 123 | 97  | 77        | 62  |     |     |     |     |    |    |    |    |
| 12-3/8       | 2283  | 1458 | 1009 | 739  | 564  | 442 | 319 | 238 | 181 | 140 | 110 | 88        | 71  | 57  |     |     |     |    |    |    |    |
| 13-3/4       | 2820  | 1801 | 1247 | 914  | 697  | 548 | 441 | 328 | 250 | 195 | 154 | 123       | 99  | 81  | 67  | 55  |     |    |    |    |    |
| 14           | 2924  | 1867 | 1293 | 947  | 723  | 569 | 459 | 347 | 265 | 206 | 163 | 130       | 105 | 86  | 71  | 59  |     |    |    |    |    |
| 15-1/8       | 3414  | 2181 | 1511 | 1107 | 845  | 665 | 536 | 440 | 336 | 262 | 207 | 166       | 135 | 110 | 91  | 76  | 63  | 53 |    |    |    |
| 16           | 3821  | 2441 | 1691 | 1239 | 946  | 745 | 601 | 494 | 399 | 311 | 247 | 198       | 161 | 132 | 109 | 91  | 76  | 64 | 54 |    |    |
| 16-1/2       | 4064  | 2596 | 1799 | 1318 | 1006 | 792 | 639 | 526 | 438 | 342 | 271 | 218       | 178 | 146 | 121 | 101 | 85  | 71 | 60 | 51 |    |
| 17-7/8       | 4770  | 3048 | 2112 | 1548 | 1182 | 931 | 752 | 619 | 517 | 436 | 347 | 280       | 228 | 188 | 156 | 131 | 110 | 93 | 79 | 68 | 58 |
| 18           | 4838  | 3091 | 2142 | 1570 | 1199 | 944 | 762 | 627 | 524 | 442 | 355 | 286       | 233 | 192 | 160 | 134 | 113 | 95 | 81 | 69 | 59 |

Notes:

Notes:
(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
(2) Span = simply supported beam.
(3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
(4) Service condition = dry.
(5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
(6) Sufficient bearing length shall be provided at supports
(7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
(8) Upper-right areas limited by deflection; lower-left areas limited by bending strength.



| Load Duration Factor = 1.15, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 psi |   |
|---|---|
|   | _ |

| 5-1/8-INCH W | /IDTH |       |      |      |      |      |      |      |      |      |      | SPAN (ft) | )    |      |     |     |     |     |     |     |     |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|-----------|------|------|-----|-----|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36  | 38  | 40  | 42  | 44  | 46  | 48  |
| 5-1/2        | 733   | 372   | 212  | 131  | 85   | 58   |      |      |      |      |      |           |      |      |     |     |     |     |     |     |     |
| 6-7/8        | 1152  | 731   | 420  | 261  | 172  | 118  | 84   | 61   |      |      |      |           |      |      |     |     |     |     |     |     |     |
| 8-1/4        | 1661  | 1059  | 730  | 456  | 302  | 209  | 149  | 110  | 82   | 62   |      |           |      |      |     |     |     |     |     |     |     |
| 9-1/4        | 2089  | 1333  | 922  | 645  | 428  | 297  | 213  | 157  | 119  | 91   | 70   | 55        |      |      |     |     |     |     |     |     |     |
| 9-1/2        | 2204  | 1406  | 973  | 700  | 465  | 323  | 232  | 171  | 129  | 99   | 77   | 60        |      |      |     |     |     |     |     |     |     |
| 9-5/8        | 2263  | 1444  | 999  | 728  | 484  | 336  | 242  | 178  | 135  | 103  | 80   | 63        |      |      |     |     |     |     |     |     |     |
| 11           | 2957  | 1888  | 1307 | 956  | 726  | 506  | 365  | 271  | 205  | 158  | 124  | 98        | 78   | 63   | 51  |     |     |     |     |     |     |
| 11-1/4       | 3094  | 1975  | 1367 | 1000 | 763  | 542  | 391  | 290  | 220  | 170  | 133  | 106       | 85   | 68   | 55  |     |     |     |     |     |     |
| 11-7/8       | 3448  | 2201  | 1524 | 1116 | 851  | 639  | 462  | 343  | 261  | 202  | 159  | 126       | 101  | 82   | 67  | 54  |     |     |     |     |     |
| 12-3/8       | 3745  | 2391  | 1656 | 1212 | 924  | 724  | 524  | 390  | 296  | 230  | 181  | 144       | 116  | 94   | 77  | 63  | 52  |     |     |     |     |
| 13-3/4       | 4625  | 2954  | 2046 | 1498 | 1143 | 899  | 722  | 538  | 411  | 319  | 252  | 202       | 163  | 133  | 109 | 90  | 75  | 62  | 52  |     |     |
| 14           | 4795  | 3063  | 2121 | 1554 | 1185 | 933  | 748  | 569  | 434  | 338  | 267  | 214       | 173  | 141  | 116 | 96  | 80  | 66  | 55  |     |     |
| 15-1/8       | 5598  | 3576  | 2477 | 1815 | 1385 | 1086 | 871  | 713  | 551  | 429  | 340  | 273       | 221  | 181  | 150 | 124 | 104 | 87  | 73  | 62  | 52  |
| 16           | 6266  | 4003  | 2774 | 2032 | 1550 | 1213 | 973  | 797  | 654  | 510  | 405  | 325       | 264  | 217  | 179 | 150 | 125 | 105 | 89  | 75  | 64  |
| 16-1/2       | 6665  | 4258  | 2950 | 2162 | 1646 | 1289 | 1034 | 847  | 705  | 561  | 445  | 358       | 291  | 239  | 198 | 165 | 139 | 117 | 99  | 84  | 71  |
| 17-7/8       | 7824  | 4999  | 3464 | 2539 | 1926 | 1508 | 1211 | 992  | 826  | 698  | 570  | 459       | 374  | 308  | 256 | 214 | 180 | 153 | 130 | 111 | 95  |
| 18           | 7934  | 5069  | 3513 | 2575 | 1953 | 1529 | 1227 | 1006 | 837  | 707  | 582  | 469       | 382  | 315  | 262 | 219 | 185 | 156 | 133 | 113 | 97  |
| 19-1/4       | 9075  | 5799  | 4020 | 2937 | 2228 | 1744 | 1401 | 1148 | 956  | 808  | 690  | 577       | 471  | 389  | 324 | 271 | 229 | 195 | 166 | 142 | 122 |
| 20-5/8       | 10420 | 6659  | 4616 | 3362 | 2550 | 1997 | 1604 | 1315 | 1096 | 926  | 792  | 684       | 583  | 482  | 402 | 338 | 286 | 243 | 208 | 179 | 154 |
| 22           | 11858 | 7579  | 5242 | 3814 | 2894 | 2267 | 1821 | 1493 | 1244 | 1052 | 900  | 777       | 677  | 589  | 492 | 414 | 351 | 299 | 257 | 221 | 191 |
| 23-3/8       | 13388 | 8557  | 5902 | 4295 | 3259 | 2553 | 2052 | 1682 | 1402 | 1186 | 1014 | 877       | 764  | 671  | 594 | 500 | 425 | 363 | 312 | 269 | 233 |
| 24-3/4       | 15011 | 9596  | 6599 | 4803 | 3645 | 2856 | 2295 | 1882 | 1570 | 1327 | 1136 | 982       | 856  | 752  | 666 | 593 | 508 | 434 | 374 | 323 | 281 |
| 26-1/8       | 16727 | 10674 | 7335 | 5338 | 4052 | 3176 | 2552 | 2093 | 1746 | 1477 | 1264 | 1093      | 953  | 838  | 741 | 660 | 591 | 515 | 443 | 384 | 334 |
| 27-1/2       | 18536 | 11799 | 8108 | 5902 | 4480 | 3511 | 2822 | 2315 | 1931 | 1634 | 1398 | 1209      | 1055 | 928  | 821 | 731 | 655 | 589 | 521 | 451 | 393 |
| 28-7/8       | 20438 | 12978 | 8919 | 6493 | 4929 | 3864 | 3106 | 2548 | 2126 | 1798 | 1540 | 1332      | 1162 | 1022 | 905 | 806 | 722 | 650 | 587 | 526 | 459 |
| Notes:       |       |       |      |      |      |      |      |      |      |      |      |           |      |      |     |     |     |     |     |     |     |

Notes: (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability. (2) Span = simply supported beam. (3) Maximum deflection = L/180 under total load. Other deflection limits may apply. (4) Service condition = dry. (5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account. (2) Outfinite hearing loads and have taken the dead weight of the beam (assumed 36 pcf) into account.

(6) Sufficient bearing length shall be provided at supports
(7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
(8) Upper-right areas limited by deflection; lower-left areas limited by bending strength.



| Load Duration Factor = 1.15. Fbx = 2.400 psi. | Fvx = 300 psi. Ex = 1.800.000 psi |
|---|-----------------------------------|
|   |                                   |
|   |                                   |

| 6-3/4-INCH W | /IDTH |       |       |      |      |      |      |      |      |      |      | SPAN (ft) |      |      |      |      |     |     |     |     |     |
|--------------|-------|-------|-------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12    | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36   | 38   | 40  | 42  | 44  | 46  | 48  |
| 5-1/2        | 966   | 490   | 280   | 173  | 113  | 76   | 53   |      |      |      |      |           |      |      |      |      |     |     |     |     |     |
| 6-7/8        | 1517  | 963   | 553   | 344  | 226  | 156  | 110  | 80   | 59   |      |      |           |      |      |      |      |     |     |     |     |     |
| 8-1/4        | 2187  | 1395  | 961   | 600  | 397  | 275  | 197  | 144  | 108  | 82   | 63   |           |      |      |      |      |     |     |     |     |     |
| 9-1/4        | 2752  | 1756  | 1214  | 850  | 564  | 392  | 281  | 207  | 156  | 119  | 93   | 72        | 57   |      |      |      |     |     |     |     |     |
| 9-1/2        | 2903  | 1852  | 1281  | 921  | 612  | 425  | 305  | 226  | 170  | 130  | 101  | 79        | 62   |      |      |      |     |     |     |     |     |
| 9-5/8        | 2980  | 1901  | 1315  | 959  | 637  | 442  | 318  | 235  | 177  | 136  | 106  | 83        | 65   | 52   |      |      |     |     |     |     |     |
| 11           | 3895  | 2486  | 1721  | 1259 | 956  | 666  | 481  | 356  | 270  | 209  | 163  | 129       | 103  | 83   | 67   | 54   |     |     |     |     |     |
| 11-1/4       | 4075  | 2601  | 1800  | 1318 | 1004 | 713  | 515  | 382  | 290  | 224  | 176  | 139       | 111  | 90   | 73   | 59   |     |     |     |     |     |
| 11-7/8       | 4541  | 2899  | 2007  | 1469 | 1120 | 841  | 608  | 452  | 343  | 266  | 209  | 166       | 133  | 108  | 88   | 72   | 58  |     |     |     |     |
| 12-3/8       | 4932  | 3149  | 2181  | 1596 | 1215 | 950  | 690  | 513  | 390  | 303  | 238  | 190       | 153  | 124  | 101  | 83   | 68  | 56  |     |     |     |
| 13-3/4       | 6092  | 3890  | 2695  | 1973 | 1495 | 1169 | 938  | 709  | 541  | 421  | 332  | 266       | 215  | 175  | 144  | 119  | 99  | 82  | 68  | 57  |     |
| 14           | 6316  | 4034  | 2794  | 2044 | 1549 | 1211 | 972  | 749  | 572  | 445  | 351  | 281       | 228  | 186  | 153  | 126  | 105 | 87  | 73  | 61  | 51  |
| 15-1/8       | 7374  | 4710  | 3263  | 2378 | 1803 | 1410 | 1132 | 926  | 725  | 565  | 447  | 359       | 291  | 239  | 197  | 164  | 137 | 115 | 96  | 81  | 68  |
| 16           | 8253  | 5272  | 3652  | 2655 | 2013 | 1575 | 1264 | 1035 | 862  | 672  | 533  | 428       | 348  | 286  | 236  | 197  | 165 | 139 | 117 | 99  | 84  |
| 16-1/2       | 8778  | 5608  | 3879  | 2820 | 2138 | 1674 | 1343 | 1100 | 916  | 739  | 586  | 471       | 383  | 315  | 261  | 218  | 183 | 154 | 130 | 111 | 94  |
| 17-7/8       | 10304 | 6584  | 4537  | 3299 | 2502 | 1959 | 1572 | 1288 | 1073 | 906  | 750  | 604       | 493  | 406  | 337  | 282  | 238 | 201 | 171 | 146 | 125 |
| 18           | 10449 | 6676  | 4599  | 3345 | 2536 | 1986 | 1594 | 1306 | 1088 | 918  | 767  | 618       | 504  | 415  | 345  | 288  | 243 | 206 | 175 | 149 | 128 |
| 19-1/4       | 11953 | 7636  | 5244  | 3815 | 2893 | 2266 | 1819 | 1491 | 1242 | 1049 | 897  | 760       | 621  | 512  | 426  | 358  | 302 | 256 | 219 | 187 | 161 |
| 20-5/8       | 13724 | 8738  | 6002  | 4366 | 3312 | 2594 | 2084 | 1708 | 1423 | 1202 | 1028 | 888       | 768  | 635  | 529  | 445  | 376 | 320 | 274 | 236 | 203 |
| 22           | 15617 | 9912  | 6809  | 4954 | 3759 | 2945 | 2365 | 1939 | 1616 | 1366 | 1168 | 1009      | 880  | 772  | 648  | 545  | 462 | 394 | 338 | 291 | 252 |
| 23-3/8       | 17633 | 11158 | 7666  | 5578 | 4233 | 3317 | 2665 | 2185 | 1821 | 1540 | 1317 | 1138      | 992  | 872  | 771  | 659  | 559 | 478 | 410 | 354 | 307 |
| 24-3/4       | 19737 | 12476 | 8572  | 6238 | 4734 | 3710 | 2981 | 2445 | 2038 | 1724 | 1475 | 1275      | 1112 | 977  | 864  | 769  | 669 | 572 | 492 | 426 | 370 |
| 26-1/8       | 21934 | 13866 | 9528  | 6934 | 5263 | 4125 | 3315 | 2719 | 2267 | 1918 | 1641 | 1419      | 1238 | 1088 | 963  | 857  | 767 | 678 | 584 | 505 | 440 |
| 27-1/2       | 24243 | 15327 | 10532 | 7666 | 5819 | 4561 | 3666 | 3007 | 2508 | 2122 | 1816 | 1570      | 1370 | 1205 | 1066 | 949  | 850 | 765 | 686 | 595 | 518 |
| 28-7/8       | 26666 | 16859 | 11586 | 8434 | 6402 | 5018 | 4034 | 3310 | 2761 | 2336 | 2000 | 1729      | 1509 | 1327 | 1175 | 1047 | 937 | 843 | 762 | 692 | 604 |
| Notes:       |       |       |       |      |      |      |      |      |      |      |      |           |      |      |      |      |     |     |     |     |     |

Notes:
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Load Duration Factor = 1.15, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 psi

| 8-3/4-INCH W | /IDTH |       |       |       |      |      |      |      |      |      |      | SPAN (ft) |      |      |      |      |      |      |     |     |     |
|--------------|-------|-------|-------|-------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12    | 14    | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36   | 38   | 40   | 42   | 44  | 46  | 48  |
| 8-1/4        | 2836  | 1808  | 1246  | 778   | 515  | 356  | 255  | 187  | 140  | 106  | 81   | 63        |      |      |      |      |      |      |     |     |     |
| 9-1/4        | 3567  | 2276  | 1574  | 1101  | 731  | 508  | 364  | 269  | 202  | 155  | 120  | 94        | 74   | 58   |      |      |      |      |     |     |     |
| 9-1/2        | 3763  | 2401  | 1661  | 1194  | 793  | 551  | 396  | 292  | 220  | 169  | 131  | 103       | 81   | 64   | 51   |      |      |      |     |     |     |
| 9-5/8        | 3863  | 2465  | 1705  | 1243  | 826  | 574  | 412  | 305  | 230  | 176  | 137  | 107       | 85   | 67   | 53   |      |      |      |     |     |     |
| 11           | 5049  | 3223  | 2231  | 1629  | 1233 | 863  | 623  | 462  | 350  | 270  | 212  | 168       | 134  | 108  | 87   | 70   | 57   |      |     |     |     |
| 11-1/4       | 5282  | 3371  | 2334  | 1702  | 1289 | 925  | 668  | 495  | 376  | 290  | 228  | 180       | 144  | 116  | 94   | 76   | 62   | 50   |     |     |     |
| 11-7/8       | 5886  | 3758  | 2602  | 1893  | 1434 | 1091 | 788  | 586  | 445  | 345  | 271  | 215       | 173  | 140  | 114  | 93   | 76   | 62   | 50  |     |     |
| 12-3/8       | 6394  | 4082  | 2826  | 2053  | 1555 | 1215 | 894  | 665  | 506  | 392  | 309  | 246       | 198  | 160  | 131  | 107  | 88   | 72   | 59  |     |     |
| 13-3/4       | 7897  | 5043  | 3473  | 2524  | 1912 | 1496 | 1199 | 919  | 701  | 545  | 430  | 344       | 278  | 227  | 187  | 154  | 128  | 106  | 89  | 74  | 61  |
| 14           | 8187  | 5229  | 3598  | 2615  | 1981 | 1550 | 1243 | 972  | 741  | 577  | 455  | 365       | 295  | 241  | 198  | 164  | 136  | 113  | 95  | 79  | 66  |
| 15-1/8       | 9558  | 6098  | 4186  | 3043  | 2306 | 1804 | 1447 | 1185 | 940  | 732  | 580  | 465       | 378  | 309  | 255  | 212  | 177  | 149  | 125 | 105 | 89  |
| 16           | 10698 | 6807  | 4673  | 3397  | 2575 | 2015 | 1617 | 1324 | 1102 | 871  | 691  | 555       | 451  | 370  | 306  | 255  | 214  | 180  | 152 | 129 | 109 |
| 16-1/2       | 11379 | 7229  | 4963  | 3609  | 2736 | 2141 | 1718 | 1407 | 1171 | 958  | 760  | 611       | 497  | 408  | 338  | 282  | 237  | 200  | 169 | 143 | 122 |
| 17-7/8       | 13357 | 8453  | 5805  | 4221  | 3201 | 2506 | 2012 | 1648 | 1372 | 1159 | 973  | 784       | 639  | 526  | 437  | 366  | 308  | 261  | 222 | 189 | 162 |
| 18           | 13545 | 8569  | 5884  | 4279  | 3245 | 2541 | 2039 | 1670 | 1391 | 1175 | 994  | 801       | 653  | 538  | 447  | 374  | 315  | 267  | 227 | 194 | 166 |
| 19-1/4       | 15462 | 9770  | 6710  | 4881  | 3702 | 2899 | 2327 | 1907 | 1588 | 1342 | 1147 | 985       | 804  | 664  | 552  | 463  | 391  | 332  | 284 | 243 | 209 |
| 20-5/8       | 17691 | 11180 | 7679  | 5587  | 4238 | 3319 | 2666 | 2185 | 1820 | 1538 | 1315 | 1135      | 989  | 823  | 686  | 577  | 488  | 415  | 355 | 305 | 263 |
| 22           | 20067 | 12683 | 8712  | 6339  | 4809 | 3767 | 3026 | 2481 | 2067 | 1747 | 1494 | 1291      | 1125 | 988  | 839  | 707  | 599  | 511  | 438 | 377 | 326 |
| 23-3/8       | 22588 | 14277 | 9809  | 7137  | 5416 | 4243 | 3409 | 2795 | 2330 | 1970 | 1685 | 1456      | 1269 | 1115 | 986  | 854  | 725  | 619  | 532 | 459 | 398 |
| 24-3/4       | 25254 | 15964 | 10968 | 7982  | 6057 | 4746 | 3814 | 3127 | 2608 | 2205 | 1886 | 1630      | 1422 | 1249 | 1105 | 983  | 867  | 742  | 638 | 552 | 479 |
| 26-1/8       | 28065 | 17742 | 12191 | 8872  | 6734 | 5277 | 4241 | 3478 | 2901 | 2453 | 2099 | 1815      | 1583 | 1391 | 1231 | 1096 | 981  | 879  | 757 | 655 | 570 |
| 27-1/2       | 31021 | 19611 | 13476 | 9809  | 7445 | 5835 | 4690 | 3847 | 3209 | 2714 | 2323 | 2009      | 1752 | 1540 | 1364 | 1214 | 1087 | 978  | 883 | 771 | 671 |
| 28-7/8       | 34120 | 21571 | 14824 | 10791 | 8192 | 6421 | 5161 | 4234 | 3532 | 2988 | 2558 | 2212      | 1930 | 1697 | 1503 | 1338 | 1198 | 1078 | 975 | 884 | 783 |

Notes:

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#### 2400Fb-1.8E-300Fv Southern Pine Glulam Floor Beams (lbf/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 psi

| 3-1/8-INCH W | /IDTH |      |      |      |      |     |     |     |     |     |     | SPAN (ft) |     |     |    |    |    |    |    |    |    |
|--------------|-------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----------|-----|-----|----|----|----|----|----|----|----|
| Depth (in.)  | 8     | 10   | 12   | 14   | 16   | 18  | 20  | 22  | 24  | 26  | 28  | 30        | 32  | 34  | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
| 5-1/2        | 278   | 140  | 79   |      |      |     |     |     |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 6-7/8        | 546   | 277  | 158  | 97   | 63   |     |     |     |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 8-1/4        | 880   | 481  | 276  | 171  | 113  | 77  | 54  |     |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 9-1/4        | 1107  | 680  | 390  | 243  | 161  | 111 | 79  | 57  |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 9-1/2        | 1168  | 737  | 423  | 264  | 174  | 120 | 86  | 62  |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 9-5/8        | 1199  | 764  | 440  | 275  | 181  | 125 | 89  | 65  |     |     |     |           |     |     |    |    |    |    |    |    |    |
| 11           | 1567  | 1000 | 660  | 412  | 273  | 190 | 136 | 100 | 75  | 57  |     |           |     |     |    |    |    |    |    |    |    |
| 11-1/4       | 1639  | 1046 | 706  | 442  | 293  | 203 | 146 | 107 | 81  | 62  |     |           |     |     |    |    |    |    |    |    |    |
| 11-7/8       | 1827  | 1166 | 807  | 520  | 346  | 240 | 172 | 127 | 96  | 73  | 57  |           |     |     |    |    |    |    |    |    |    |
| 12-3/8       | 1984  | 1267 | 877  | 590  | 392  | 272 | 196 | 145 | 109 | 84  | 65  | 51        |     |     |    |    |    |    |    |    |    |
| 13-3/4       | 2451  | 1565 | 1083 | 793  | 540  | 376 | 271 | 201 | 152 | 118 | 92  | 73        | 58  |     |    |    |    |    |    |    |    |
| 14           | 2541  | 1622 | 1123 | 822  | 571  | 397 | 287 | 213 | 161 | 125 | 98  | 77        | 62  |     |    |    |    |    |    |    |    |
| 15-1/8       | 2967  | 1895 | 1312 | 961  | 721  | 503 | 364 | 270 | 205 | 159 | 125 | 99        | 80  | 65  | 53 |    |    |    |    |    |    |
| 16           | 3321  | 2121 | 1469 | 1076 | 821  | 597 | 432 | 321 | 245 | 190 | 149 | 119       | 96  | 78  | 64 | 52 |    |    |    |    |    |
| 16-1/2       | 3532  | 2256 | 1563 | 1145 | 873  | 656 | 475 | 353 | 269 | 209 | 165 | 132       | 106 | 86  | 71 | 58 |    |    |    |    |    |
| 17-7/8       | 4146  | 2649 | 1835 | 1345 | 1026 | 808 | 606 | 452 | 345 | 268 | 212 | 170       | 137 | 112 | 92 | 76 | 64 | 53 |    |    |    |
| 18           | 4205  | 2686 | 1861 | 1363 | 1041 | 819 | 619 | 461 | 352 | 274 | 217 | 173       | 140 | 115 | 94 | 78 | 65 | 54 |    |    |    |

Notes:

(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
(2) Span = simply supported beam.
(3) Maximum deflection = L/360 under live load, based on live/total load = 0.8. Where additional stiffness is desired or for other live/total load ratios,

(d) instantial deletation in the field per requirements.
(4) Service condition = dry.
(5) Tabulated values represent total loads based on live/total load = 0.8 and have taken the dead weight of the beam (assumed 36 pcf) into account.

(6) Sufficient bearing length shall be provided at supports
(7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
(8) Upper-right areas limited by deflection; lower-left areas limited by bending strength.



#### 2400F-1.8E-300Fv Southern Pine Glulam Floor Beams (lbf/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 psi

| 5-1/8-INCH W | /IDTH |       |      |      |      |      |      |      |      |      |      | SPAN (ft) |      |     |     |     |     |     |     |     |     |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|-----------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12   | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34  | 36  | 38  | 40  | 42  | 44  | 46  | 48  |
| 5-1/2        | 456   | 230   | 130  | 79   | 51   |      |      |      |      |      |      |           |      |     |     |     |     |     |     |     |     |
| 6-7/8        | 895   | 454   | 259  | 160  | 104  | 71   |      |      |      |      |      |           |      |     |     |     |     |     |     |     |     |
| 8-1/4        | 1443  | 789   | 452  | 281  | 185  | 126  | 89   | 65   |      |      |      |           |      |     |     |     |     |     |     |     |     |
| 9-1/4        | 1815  | 1115  | 640  | 399  | 263  | 181  | 129  | 94   | 70   | 52   |      |           |      |     |     |     |     |     |     |     |     |
| 9-1/2        | 1915  | 1208  | 694  | 433  | 286  | 197  | 140  | 102  | 76   | 57   |      |           |      |     |     |     |     |     |     |     |     |
| 9-5/8        | 1966  | 1254  | 722  | 450  | 298  | 205  | 146  | 107  | 79   | 60   |      |           |      |     |     |     |     |     |     |     |     |
| 11           | 2570  | 1640  | 1082 | 676  | 449  | 311  | 223  | 164  | 123  | 94   | 72   | 56        |      |     |     |     |     |     |     |     |     |
| 11-1/4       | 2688  | 1715  | 1159 | 724  | 480  | 333  | 239  | 176  | 132  | 101  | 78   | 61        |      |     |     |     |     |     |     |     |     |
| 11-7/8       | 2996  | 1912  | 1323 | 854  | 567  | 394  | 283  | 209  | 157  | 120  | 93   | 73        | 58   |     |     |     |     |     |     |     |     |
| 12-3/8       | 3254  | 2077  | 1438 | 967  | 643  | 447  | 321  | 238  | 179  | 138  | 107  | 84        | 66   | 53  |     |     |     |     |     |     |     |
| 13-3/4       | 4020  | 2566  | 1777 | 1301 | 886  | 617  | 445  | 330  | 250  | 193  | 151  | 119       | 95   | 77  | 62  |     |     |     |     |     |     |
| 14           | 4167  | 2661  | 1842 | 1349 | 936  | 652  | 470  | 349  | 265  | 204  | 160  | 127       | 101  | 81  | 66  | 53  |     |     |     |     |     |
| 15-1/8       | 4866  | 3107  | 2152 | 1576 | 1183 | 825  | 596  | 443  | 337  | 261  | 205  | 163       | 131  | 106 | 86  | 70  | 58  |     |     |     |     |
| 16           | 5446  | 3478  | 2409 | 1765 | 1345 | 979  | 708  | 527  | 401  | 311  | 245  | 195       | 157  | 128 | 104 | 86  | 71  | 58  |     |     |     |
| 16-1/2       | 5793  | 3700  | 2563 | 1877 | 1429 | 1075 | 778  | 579  | 441  | 343  | 270  | 216       | 174  | 142 | 116 | 95  | 79  | 65  | 54  |     |     |
| 17-7/8       | 6800  | 4344  | 3010 | 2205 | 1672 | 1308 | 993  | 741  | 565  | 440  | 347  | 278       | 225  | 184 | 151 | 125 | 104 | 87  | 73  | 61  | 51  |
| 18           | 6896  | 4405  | 3052 | 2236 | 1695 | 1327 | 1015 | 757  | 578  | 449  | 355  | 284       | 230  | 188 | 155 | 128 | 107 | 89  | 74  | 62  | 52  |
| 19-1/4       | 7888  | 5040  | 3492 | 2551 | 1934 | 1514 | 1215 | 929  | 710  | 553  | 438  | 351       | 285  | 234 | 193 | 160 | 134 | 112 | 95  | 80  | 67  |
| 20-5/8       | 9057  | 5787  | 4011 | 2920 | 2214 | 1733 | 1392 | 1140 | 877  | 684  | 543  | 436       | 355  | 291 | 241 | 201 | 169 | 142 | 120 | 102 | 87  |
| 22           | 10307 | 6586  | 4555 | 3313 | 2513 | 1968 | 1580 | 1295 | 1068 | 834  | 662  | 533       | 434  | 357 | 297 | 248 | 209 | 176 | 150 | 128 | 109 |
| 23-3/8       | 11638 | 7437  | 5128 | 3730 | 2830 | 2216 | 1780 | 1459 | 1216 | 1005 | 798  | 643       | 525  | 433 | 360 | 301 | 254 | 215 | 183 | 157 | 134 |
| 24-3/4       | 13049 | 8340  | 5734 | 4172 | 3165 | 2480 | 1992 | 1633 | 1361 | 1150 | 951  | 768       | 627  | 517 | 431 | 362 | 306 | 260 | 222 | 190 | 163 |
| 26-1/8       | 14541 | 9277  | 6374 | 4638 | 3519 | 2757 | 2215 | 1816 | 1514 | 1280 | 1095 | 907       | 741  | 612 | 511 | 429 | 363 | 309 | 265 | 227 | 196 |
| 27-1/2       | 16114 | 10255 | 7046 | 5127 | 3891 | 3049 | 2450 | 2009 | 1675 | 1416 | 1211 | 1047      | 868  | 718 | 599 | 504 | 427 | 364 | 312 | 269 | 232 |
| 28-7/8       | 17767 | 11281 | 7751 | 5641 | 4281 | 3355 | 2696 | 2211 | 1844 | 1559 | 1334 | 1153      | 1006 | 835 | 698 | 588 | 499 | 426 | 365 | 315 | 273 |

28-7/8 17/6/ 11281 7/51 5641 4281 3355 2696 2211 1844 1559 1334 1153 1
 Notes:
 (1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
 (2) Span = simply supported beam.
 (3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
 (4) Service condition = dry.
 (5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
 (6) Sufficient bearing loads and have taken the dead weight of the beam (assumed 36 pcf) into account.

(6) Sufficient bearing length shall be provided at supports
(7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
(8) Upper-right areas limited by deflection; lower-left areas limited by bending strength.



#### 2400F-1.8E-300Fv Southern Pine Glulam Floor Beams (lbf/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 psi

| 6-3/4-INCH W | VIDTH |       |       |      |      |      |      |      |      |      |      | SPAN (ft) |      |      |     |     |     |     |     |     |     |
|--------------|-------|-------|-------|------|------|------|------|------|------|------|------|-----------|------|------|-----|-----|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12    | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36  | 38  | 40  | 42  | 44  | 46  | 48  |
| 5-1/2        | 600   | 303   | 171   | 104  | 67   |      |      |      |      |      |      |           |      |      |     |     |     |     |     |     |     |
| 6-7/8        | 1178  | 598   | 341   | 210  | 137  | 93   | 65   |      |      |      |      |           |      |      |     |     |     |     |     |     |     |
| 8-1/4        | 1900  | 1039  | 595   | 370  | 243  | 167  | 118  | 85   | 62   |      |      |           |      |      |     |     |     |     |     |     |     |
| 9-1/4        | 2391  | 1468  | 843   | 525  | 347  | 239  | 170  | 124  | 92   | 69   | 52   |           |      |      |     |     |     |     |     |     |     |
| 9-1/2        | 2522  | 1592  | 914   | 570  | 376  | 260  | 185  | 135  | 100  | 75   | 57   |           |      |      |     |     |     |     |     |     |     |
| 9-5/8        | 2589  | 1651  | 951   | 593  | 392  | 270  | 193  | 141  | 105  | 79   | 60   |           |      |      |     |     |     |     |     |     |     |
| 11           | 3385  | 2159  | 1426  | 891  | 591  | 409  | 293  | 216  | 162  | 123  | 95   | 74        | 58   |      |     |     |     |     |     |     |     |
| 11-1/4       | 3541  | 2259  | 1526  | 954  | 633  | 439  | 315  | 232  | 174  | 133  | 103  | 80        | 62   |      |     |     |     |     |     |     |     |
| 11-7/8       | 3946  | 2518  | 1743  | 1124 | 747  | 518  | 372  | 275  | 207  | 159  | 123  | 96        | 76   | 60   |     |     |     |     |     |     |     |
| 12-3/8       | 4286  | 2736  | 1893  | 1274 | 847  | 588  | 423  | 313  | 236  | 181  | 141  | 111       | 88   | 70   | 55  |     |     |     |     |     |     |
| 13-3/4       | 5294  | 3380  | 2340  | 1713 | 1167 | 813  | 586  | 435  | 329  | 254  | 199  | 157       | 126  | 101  | 81  | 66  | 53  |     |     |     |     |
| 14           | 5489  | 3504  | 2426  | 1774 | 1232 | 859  | 620  | 460  | 349  | 269  | 211  | 167       | 133  | 107  | 87  | 70  | 57  |     |     |     |     |
| 15-1/8       | 6409  | 4092  | 2834  | 2065 | 1558 | 1087 | 785  | 584  | 444  | 344  | 270  | 215       | 172  | 140  | 114 | 93  | 76  | 62  | 51  |     |     |
| 16           | 7173  | 4581  | 3172  | 2306 | 1747 | 1290 | 933  | 694  | 529  | 410  | 323  | 257       | 207  | 168  | 138 | 113 | 93  | 77  | 63  | 52  |     |
| 16-1/2       | 7629  | 4873  | 3369  | 2449 | 1856 | 1416 | 1025 | 763  | 581  | 451  | 356  | 284       | 229  | 186  | 153 | 126 | 104 | 86  | 71  | 59  |     |
| 17-7/8       | 8956  | 5721  | 3941  | 2865 | 2172 | 1699 | 1308 | 976  | 744  | 579  | 458  | 366       | 297  | 242  | 199 | 165 | 137 | 114 | 96  | 80  | 67  |
| 18           | 9082  | 5802  | 3995  | 2904 | 2202 | 1723 | 1337 | 997  | 761  | 592  | 468  | 375       | 303  | 248  | 204 | 169 | 140 | 117 | 98  | 82  | 69  |
| 19-1/4       | 10390 | 6636  | 4556  | 3313 | 2512 | 1966 | 1578 | 1224 | 935  | 728  | 577  | 463       | 376  | 308  | 254 | 211 | 176 | 148 | 125 | 105 | 88  |
| 20-5/8       | 11929 | 7594  | 5215  | 3792 | 2876 | 2251 | 1807 | 1480 | 1155 | 901  | 715  | 574       | 467  | 384  | 318 | 265 | 222 | 187 | 158 | 134 | 114 |
| 22           | 13575 | 8614  | 5916  | 4303 | 3264 | 2556 | 2052 | 1681 | 1401 | 1099 | 872  | 702       | 572  | 471  | 391 | 327 | 275 | 232 | 197 | 168 | 143 |
| 23-3/8       | 15328 | 9698  | 6661  | 4846 | 3676 | 2879 | 2312 | 1895 | 1579 | 1323 | 1051 | 847       | 691  | 570  | 474 | 397 | 335 | 284 | 242 | 207 | 177 |
| 24-3/4       | 17157 | 10843 | 7449  | 5419 | 4111 | 3221 | 2587 | 2120 | 1767 | 1493 | 1253 | 1011      | 826  | 681  | 568 | 476 | 402 | 342 | 292 | 250 | 215 |
| 26-1/8       | 19067 | 12051 | 8279  | 6024 | 4571 | 3581 | 2877 | 2358 | 1966 | 1662 | 1421 | 1194      | 976  | 807  | 672 | 565 | 478 | 407 | 348 | 299 | 258 |
| 27-1/2       | 21075 | 13321 | 9153  | 6660 | 5054 | 3960 | 3182 | 2609 | 2175 | 1839 | 1573 | 1360      | 1144 | 946  | 789 | 664 | 563 | 480 | 411 | 354 | 306 |
| 28-7/8       | 23181 | 14653 | 10068 | 7327 | 5561 | 4358 | 3502 | 2871 | 2394 | 2025 | 1732 | 1498      | 1306 | 1100 | 919 | 774 | 657 | 561 | 481 | 415 | 359 |

28/1/8 23181 14653 10068 / 32/ 5561 4358 3502 28/1 2394 2025 1/32 1498 15.
Notes:
(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.
(2) Span = simply supported beam.
(3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
(4) Service condition = dry.
(5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
(6) Sufficient bearing loads the unporter

(6) Sufficient bearing length shall be provided at supports
(7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
(8) Upper-right areas limited by deflection; lower-left areas limited by bending strength.



#### 2400F-1.8E-300Fv Southern Pine Glulam Floor Beams (lbf/ft)

Load Duration Factor = 1.0, Fbx = 2,400 psi, Fvx = 300 psi, Ex = 1,800,000 psi

| 8-3/4-INCH W | /IDTH |       |       |      |      |      |      |      |      |      |      | SPAN (ft) |      |      |      |      |     |     |     |     |     |
|--------------|-------|-------|-------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|-----|-----|-----|-----|-----|
| Depth (in.)  | 8     | 10    | 12    | 14   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30        | 32   | 34   | 36   | 38   | 40  | 42  | 44  | 46  | 48  |
| 8-1/4        | 2463  | 1347  | 772   | 479  | 315  | 216  | 153  | 110  | 81   | 60   |      |           |      |      |      |      |     |     |     |     |     |
| 9-1/4        | 3099  | 1903  | 1093  | 681  | 449  | 310  | 220  | 160  | 119  | 89   | 67   | 51        |      |      |      |      |     |     |     |     |     |
| 9-1/2        | 3270  | 2063  | 1185  | 739  | 488  | 337  | 240  | 175  | 130  | 98   | 74   | 56        |      |      |      |      |     |     |     |     |     |
| 9-5/8        | 3356  | 2141  | 1233  | 769  | 508  | 351  | 250  | 182  | 136  | 102  | 78   | 59        |      |      |      |      |     |     |     |     |     |
| 11           | 4387  | 2799  | 1848  | 1155 | 766  | 531  | 380  | 280  | 210  | 160  | 123  | 96        | 75   | 58   |      |      |     |     |     |     |     |
| 11-1/4       | 4590  | 2929  | 1978  | 1237 | 820  | 569  | 408  | 300  | 226  | 172  | 133  | 104       | 81   | 63   |      |      |     |     |     |     |     |
| 11-7/8       | 5115  | 3264  | 2259  | 1457 | 968  | 672  | 483  | 356  | 268  | 206  | 159  | 125       | 98   | 78   | 61   |      |     |     |     |     |     |
| 12-3/8       | 5556  | 3546  | 2454  | 1652 | 1097 | 763  | 549  | 406  | 306  | 235  | 183  | 144       | 113  | 90   | 72   | 57   |     |     |     |     |     |
| 13-3/4       | 6863  | 4381  | 3016  | 2191 | 1513 | 1053 | 760  | 563  | 427  | 329  | 258  | 204       | 163  | 131  | 105  | 85   | 69  | 55  |     |     |     |
| 14           | 7115  | 4543  | 3125  | 2270 | 1598 | 1113 | 803  | 596  | 452  | 349  | 273  | 216       | 173  | 139  | 112  | 91   | 74  | 59  |     |     |     |
| 15-1/8       | 8307  | 5298  | 3636  | 2642 | 2001 | 1409 | 1018 | 757  | 575  | 445  | 350  | 278       | 224  | 181  | 147  | 120  | 98  | 80  | 66  | 53  |     |
| 16           | 9298  | 5914  | 4059  | 2950 | 2235 | 1672 | 1209 | 900  | 685  | 531  | 419  | 334       | 269  | 218  | 178  | 146  | 121 | 99  | 82  | 67  | 55  |
| 16-1/2       | 9890  | 6281  | 4311  | 3133 | 2374 | 1836 | 1329 | 989  | 754  | 585  | 461  | 368       | 297  | 242  | 198  | 163  | 135 | 111 | 92  | 76  | 63  |
| 17-7/8       | 11610 | 7345  | 5042  | 3666 | 2778 | 2174 | 1696 | 1265 | 965  | 751  | 593  | 475       | 385  | 314  | 258  | 214  | 178 | 148 | 124 | 104 | 86  |
| 18           | 11773 | 7446  | 5112  | 3716 | 2817 | 2204 | 1733 | 1292 | 986  | 767  | 606  | 486       | 393  | 321  | 264  | 219  | 182 | 152 | 127 | 106 | 89  |
| 19-1/4       | 13439 | 8490  | 5829  | 4239 | 3213 | 2515 | 2018 | 1586 | 1212 | 944  | 748  | 600       | 487  | 399  | 330  | 274  | 229 | 192 | 161 | 136 | 115 |
| 20-5/8       | 15378 | 9716  | 6672  | 4852 | 3679 | 2880 | 2312 | 1894 | 1497 | 1168 | 926  | 745       | 606  | 497  | 412  | 344  | 288 | 243 | 205 | 174 | 148 |
| 22           | 17443 | 11022 | 7570  | 5506 | 4176 | 3270 | 2625 | 2151 | 1791 | 1424 | 1131 | 910       | 742  | 610  | 507  | 424  | 356 | 301 | 256 | 218 | 186 |
| 23-3/8       | 19635 | 12408 | 8523  | 6200 | 4703 | 3683 | 2958 | 2424 | 2019 | 1706 | 1363 | 1099      | 896  | 739  | 614  | 515  | 434 | 368 | 313 | 268 | 230 |
| 24-3/4       | 21953 | 13874 | 9531  | 6934 | 5260 | 4120 | 3309 | 2712 | 2260 | 1910 | 1624 | 1311      | 1070 | 883  | 736  | 617  | 522 | 443 | 378 | 324 | 279 |
| 26-1/8       | 24397 | 15420 | 10593 | 7708 | 5848 | 4581 | 3680 | 3017 | 2515 | 2126 | 1818 | 1548      | 1265 | 1046 | 872  | 733  | 620 | 528 | 452 | 388 | 335 |
| 27-1/2       | 26967 | 17045 | 11711 | 8521 | 6466 | 5066 | 4070 | 3337 | 2782 | 2352 | 2012 | 1739      | 1482 | 1226 | 1023 | 861  | 730 | 622 | 533 | 459 | 397 |
| 28-7/8       | 29661 | 18749 | 12883 | 9375 | 7115 | 5575 | 4480 | 3673 | 3063 | 2590 | 2216 | 1915      | 1670 | 1426 | 1191 | 1003 | 851 | 727 | 624 | 538 | 466 |

Notes:

(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and lateral stability.

(1) For preliminary design use only. Final design should include a complete analysis, including bearing stresses and late (2) Span = simply supported beam.
 (3) Maximum deflection = L/180 under total load. Other deflection limits may apply.
 (4) Service condition = dry.
 (5) Tabulated values represent total loads and have taken the dead weight of the beam (assumed 36 pcf) into account.
 (6) Sufficient bearing length shall be provided at supports
 (7) Maximum beam shear is located at a distance from the supports equal to the depth of the beam.
 (8) Upper-right areas limited by deflection; lower-left areas limited by bending strength.



### INSTALLATION AND STORAGE REQUIREMENTS AND USE MEASURES APPLICABLE TO ALL BOOZER PRODUCTS.

(Revised as of January 18, 2019)

Specific use, storage and installation requirements and instructions applicable to all Boozer products, including but not limited to Boozer Glued Laminated Timber Beams, Treated Beams, Columns, Joists, and Headers (the "Product") may be found at http://boozer-beam.com/products/. The following precautions should be taken both when handling any BoozerBeam<sup>™</sup> Product and in determining where to use and dispose of the Product. These requirements and instructions are provided as part of and incorporated by reference into Boozer's Limited Warranty.

- The Product should not be exposed to the elements (sun, rain, snow, water, moisture, excessive heat, excessive cold, etc.), other than very short periods prior to installation.
- The Product should not be used in direct water or marine applications, below grade, or in applications in which the Product is in direct contact with the soil. Columns may be installed on concrete if a installed onto a metal plate that separates the columns from the concrete.
- The Product should not be used where it will be in frequent or prolonged contact with bare skin, unless an effective sealer has been applied.
- The Product is not suitable for food garden uses.
- All shipping containers, plastic, or other wrapping applied during shipment should be removed from the Product prior to installation.
- Do not use the Product for cutting-boards or countertops.
- For all interior applications, the purchaser is responsible for ensuring that the installation of a treated product complies with all applicable indoor air quality standards (IAQs) as prescribed by the federal or applicable state or local regulatory authority.
- Dispose of the Product by ordinary trash collection or burial. Treated wood should not be burned in open fires or in stoves, fireplaces, or residential boilers because toxic chemicals may be produced as part of the smoke and ashes. Treated wood from commercial or industrial use (e.g., construction sites) may be burned only in commercial or industrial incinerators or boilers in accordance with state and federal regulations.
- Avoid frequent or prolonged inhalation of sawdust from the Product. When sawing and machining treated wood, wear a dust mask. Whenever possible, these operations should be performed outdoors to avoid indoor accumulations of airborne sawdust from treated wood.
- When power sawing and machining, wear goggles to protect eyes from flying particles.
- After working with the Product, and before eating, drinking, and use of tobacco products, wash all exposed skin areas thoroughly and completely.
- If oily preservatives or Product sawdust accumulate on clothes, launder before reuse of the clothes. Work clothes exposed to the Product or its sawdust or preservatives should be washed separately from other clothing.
- While in storage, the Product should be kept dry and under cover and not be exposed to standing water or marine conditions.
- It is the purchaser and intended user of the Product's sole responsibility to install the Product correctly and to select the proper-sized Product for its/his/her intended use.
- When storing a Product for any extended amount of time, the Product should be stored on its down-side, with gravity acting on the Product as it would in its eventual installation.
- All Products should be installed with the standard, as-designed orientation (e.g., for Beams, with the narrow side down). For Products with a specific or designated orientation instruction (which should appear on the Product), that instruction should be strictly followed.

# **BOOZERBEANT** LIMITED WARRANTY (Revised as of January 18, 2019)

1. <u>LIMITED WARRANTY COVERAGE</u>: Boozer Laminated Beam Company, Inc. ("Boozer") warrants (for installation within the U.S.) to the purchaser and all transferees prior to and including the first owner of the structure to which the Product (as hereafter defined) is properly installed (each a "<u>Covered Person</u>") that each Product sold by Boozer, including but not limited to Boozer Glued Laminated Timber Beams, Treated Beams, Columns, Joists, and Headers (the "<u>Product</u>"), when manufactured is free from defects in material and manufacture and, when used for its intended purpose and in accordance with Boozer's installation and use requirements, will perform in accordance with the published Product specifications. This Limited Warranty only covers defects and failures of the Product that result in structural failure of the Product. If the Product is defective in material or manufacture (when used for its intended purpose and in accordance will replace the Product with a non-defective Product (or equivalent product, if the Product is no longer available) at no charge. Boozer's replacement of the defective Product pursuant to this Section 1 of this Limited Warranty SHALL BE THE SOLE AND EXCLUSIVE REMEDY available to the Covered Person with respect to defects in material or manufacture or any performance of the Product that is not in accordance with relevant specifications. Boozer will not refund or pay any costs in connection with labor or accessory materials or for any other damages regardless of whether caused by the Product or otherwise.

- 2. <u>CONDITIONS OF WARRANTY</u>: Boozer's liability hereunder to the Covered Person shall be subject to the following terms and conditions:
- (a) The claimant must provide reasonable proof that he/she is a Covered Person.
- (b) The Product must be properly stored and installed in accordance with Boozer's installation, storage and use requirements (available at: <u>http://boozerbeam.com/products/</u>) and all applicable building codes, rules, and ordinances ("<u>Applicable Building Rules</u>") adopted by federal, state or local governments or government agencies and applicable to the installation. Failure to install the Product in accordance with Boozer's installation requirements and all Applicable Building Rules voids this Limited Warranty.
- (c) The Covered Person must provide written notice of any claim under this Limited Warranty to Boozer within 45 days after discovery of any claimed Product failure covered by this Limited Warranty and before beginning any permanent repair. The notice must describe the location of the Product, details of the failure, and provide all information necessary for Boozer to investigate the claim. Photos of the Product, showing defect or failure, should accompany the notice. Before any permanent repair, the Covered Person must allow Boozer or Boozer's agent to enter the property and structure where the Product is installed, and examine, photograph and take samples of the Product.
- (d) Upon discovery of a possible Product defect or failure, the Covered Person must immediately, and at the Covered Person's own expense, provide for protection of all property that could be affected until the problem or failure is remedied.
- (e) Only defects and failures that result in the structural failure of the Product are covered by this Limited Warranty
- 3. <u>EXCLUSIONS</u>: This Limited Warranty does not cover loss, damage or defects resulting from or in any way attributable to: (a) any Product failure due to any reason other than structural failure or defect in material and manufacture; (b) the improper storage, shipping, handling or installation of the Product (including, without limitation, failure of the Product to be installed in strict compliance with Boozer's installation, storage and use requirements and all Applicable Building Rules) or improper installation of other accessories; (c) repair or alteration of the Product; (d) settlement or structural movement or movement of materials to which the Product is attached; (e) damage from incorrect or improper design of the structure; (f) exceeding any applicable maximum designed weight or wind loads; (g) acts of God including, but not limited to, hurricanes, tornados, floods, earthquakes, extreme weather or other natural phenomena, (including, but not limited to, unusual climate conditions); (h) performance of any paints or coatings; (i) lack of proper maintenance;

(j) damage during the construction process; (k) damage caused by the weathering of the Product including, but not limited to including but not limited to, raised grain, splitting, checking, twisting, warping, shrinkage, swelling; or de-lamination; (l) damage caused by the use of inappropriate fasteners; (m) any Product failure or damage due to water or marine applications; (n) discoloration or minor cosmetic defects; (o) failure due to moisture or exposure to elements; (p) wet use applications or any application in which the Product is enclosed and moisture cannot naturally evaporate from the Product; (q) any application in which the Product is in direct contact with the ground (except, in the case of Treated Columns, when the column is mounted on a metal plate on a concrete slab, in accordance with Boozer's general and specific installation requirements and Applicable Building Rules); (r) failures or defects if the Product is subjected to further processing or alteration after shipment; (s) damage due to fungal decay of or termite attack (any such warranty on a Treated Product will be provided, if at all, by a third-party applicator as provided in Paragraph 4, below); (t) any unapproved pressure or topical treatment; or (u) any other neglect, abuse, or misuse by the Covered Person or a third party. In addition, only defects and failures of the Product that result in the structural failure of the Product are covered by this Limited Warranty.

- 4.<u>TREATED PRODUCTS ONLY</u>: To the extent a Covered Person has purchased or possesses a Boozer Product that has been treated with a chemical designed to deter or prevent insect damage or fungal growth on the Product (a "Treated Product"), Boozer assigns to such Covered Person any and all warranties applicable to the Treated Product, if any, against fungal damage or insect attack provided to Boozer from the manufacturers and applicators of such product.
- 5. <u>DISCLAIMER</u>: The statements in this Limited Warranty constitute the only warranty extended by Boozer for the Product. BOOZER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT AS PROVIDED BY APPLICABLE STATE LAW IN WHICH CASE THE DURATION OF ANY APPLICABLE IMPLIED WARRANTIES ARE LIMITED TO THE FULLEST EXTENT ALLOWED BY APPLICABLE LAW. NO OTHER WARRANTY IS OR WILL BE MADE BY OR ON BEHALF OF THE MANUFACTURER OR THE SELLER OR BY OPERATION OF LAW OR BY USAGE OF TRADE OR COURSE OF DEALING WITH RESPECT TO THE PRODUCT OR ITS INSTALLATION, STORAGE, HANDLING, MAINTENANCE, USE, REPLACEMENT OR REPAIR.
- 6. EXCLUSION OF INCIDENTAL AND CONSEQUENTIAL DAMAGES: EXCEPT AS EXPRESSLY OVERRIDDEN BY APPLICABLE LAW, IN NO EVENT WILL BOOZER BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NONDELIVERY OR FROM THE USE, MISUSE, OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT.
- 7. <u>SETTLEMENT OF CLAIM</u>: Any warranty payment or material replacement by Boozer pursuant to Section 1 hereof shall constitute a full settlement and release of all claims of any Covered Person or their successors and assigns hereunder for damages or other relief, and shall be a complete bar to any litigation arising out of this warranty or the Covered Person's purchase or use of the Product filed subsequent to the Covered Person's acceptance of such compensation.