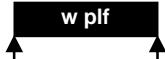


RESIDENTIAL FLOOR HEADERS (L/360)
California Building Code 2007 Edition (CBC), NDS 2005

FLOOR BEAMS
FLOOR LIVE LOAD

Structural Glued Laminated Timber
Douglas Fir-Larch



F_b **F_v** **E** **C_D** **Deflection limit.**
2400 **265** **1.8** **1.00** **Span / 360 for LIVE LOAD**
psi **psi** **million** **psi** **For Deflection only, Live Load is assumed = 80% of Total Load**

| BEAM SIZE | | BEAM Wt plf | BEAM CAPACITY, UNIFORM LOAD w, plf | | | | | | | | | | | | | | | | |
|----------------|------|----------------|------------------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| W | x D | | SPANS, ft | | | | | | | | | | | | | | | | |
| | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 |
| 3 1/8 x 6 | 4.6 | | 366 | 188 | 109 | 68 | 46 | 32 | 23 | 18 | 14 | 11 | 9 | 7 | 6 | 5 | 4 | 3 | 3 |
| 3 1/8 x 7 1/2 | 5.7 | | 715 | 366 | 212 | 133 | 89 | 63 | 46 | 34 | 26 | 21 | 17 | 14 | 11 | 9 | 8 | 7 | 6 |
| 3 1/8 x 9 | 6.8 | | 1055 | 633 | 366 | 231 | 154 | 109 | 79 | 59 | 46 | 36 | 29 | 23 | 19 | 16 | 14 | 12 | 10 |
| 3 1/8 x 10 1/2 | 8.0 | | 1436 | 919 | 582 | 366 | 245 | 172 | 126 | 94 | 73 | 57 | 46 | 37 | 31 | 26 | 22 | 18 | 16 |
| 3 1/8 x 12 | 9.1 | | 1875 | 1200 | 833 | 547 | 366 | 257 | 188 | 141 | 109 | 85 | 68 | 56 | 46 | 38 | 32 | 27 | 23 |
| 3 1/8 x 13 1/2 | 10.3 | | 2373 | 1519 | 1055 | 775 | 521 | 366 | 267 | 201 | 154 | 122 | 97 | 79 | 65 | 54 | 46 | 39 | 33 |
| 3 1/8 x 15 | 11.4 | | 2930 | 1875 | 1302 | 957 | 715 | 502 | 366 | 275 | 212 | 167 | 133 | 109 | 89 | 75 | 63 | 53 | 46 |
| 3 1/8 x 16 1/2 | 12.5 | | 3470 | 2269 | 1576 | 1158 | 886 | 669 | 487 | 366 | 282 | 222 | 178 | 144 | 119 | 99 | 84 | 71 | 61 |
| 3 1/8 x 18 | 13.7 | | 3975 | 2700 | 1875 | 1378 | 1055 | 833 | 633 | 475 | 366 | 288 | 231 | 188 | 154 | 129 | 109 | 92 | 79 |
| 3 1/8 x 19 1/2 | 14.8 | | 4533 | 3169 | 2201 | 1617 | 1238 | 978 | 792 | 604 | 466 | 366 | 293 | 238 | 196 | 164 | 138 | 117 | 101 |
| 5 1/8 x 6 | 7.5 | | 601 | 308 | 178 | 112 | 75 | 53 | 38 | 29 | 22 | 17 | 14 | 11 | 9 | 8 | 7 | 6 | 5 |
| 5 1/8 x 7 1/2 | 9.3 | | 1173 | 601 | 348 | 219 | 147 | 103 | 75 | 56 | 43 | 34 | 27 | 22 | 18 | 15 | 13 | 11 | 9 |
| 5 1/8 x 9 | 11.2 | | 1730 | 1038 | 601 | 378 | 253 | 178 | 130 | 97 | 75 | 59 | 47 | 38 | 32 | 26 | 22 | 19 | 16 |
| 5 1/8 x 10 1/2 | 13.1 | | 2354 | 1507 | 954 | 601 | 402 | 283 | 206 | 155 | 119 | 94 | 75 | 61 | 50 | 42 | 35 | 30 | 26 |
| 5 1/8 x 12 | 14.9 | | 3075 | 1968 | 1367 | 897 | 601 | 422 | 308 | 231 | 178 | 140 | 112 | 91 | 75 | 63 | 53 | 45 | 38 |
| 5 1/8 x 13 1/2 | 16.8 | | 3892 | 2491 | 1730 | 1271 | 855 | 601 | 438 | 329 | 253 | 199 | 160 | 130 | 107 | 89 | 75 | 64 | 55 |
| 5 1/8 x 15 | 18.7 | | 4805 | 3075 | 2135 | 1569 | 1173 | 824 | 601 | 451 | 348 | 273 | 219 | 178 | 147 | 122 | 103 | 88 | 75 |
| 5 1/8 x 16 1/2 | 20.6 | | 5691 | 3721 | 2584 | 1898 | 1447 | 1097 | 799 | 601 | 463 | 364 | 291 | 237 | 195 | 163 | 137 | 117 | 100 |
| 5 1/8 x 18 | 22.4 | | 6519 | 4428 | 3075 | 2259 | 1707 | 1333 | 1038 | 780 | 601 | 472 | 378 | 308 | 253 | 211 | 178 | 151 | 130 |
| 5 1/8 x 19 1/2 | 24.3 | | 7434 | 5197 | 3609 | 2630 | 1987 | 1552 | 1244 | 991 | 764 | 601 | 481 | 391 | 322 | 269 | 226 | 192 | 165 |
| 5 1/8 x 21 | 26.2 | | 8451 | 5850 | 4185 | 3028 | 2288 | 1786 | 1432 | 1172 | 954 | 750 | 601 | 488 | 402 | 335 | 283 | 240 | 206 |
| 5 1/8 x 22 1/2 | 28.0 | | 9587 | 6519 | 4772 | 3452 | 2608 | 2036 | 1632 | 1336 | 1113 | 923 | 739 | 601 | 495 | 413 | 348 | 296 | 253 |
| 5 1/8 x 24 | 29.9 | | 10865 | 7243 | 5394 | 3902 | 2948 | 2302 | 1845 | 1510 | 1258 | 1064 | 897 | 729 | 601 | 501 | 422 | 359 | 308 |
| 5 1/8 x 26 1/2 | 33.0 | | 13392 | 8595 | 6328 | 4711 | 3559 | 2779 | 2227 | 1823 | 1519 | 1284 | 1099 | 951 | 808 | 674 | 568 | 483 | 414 |
| 6 3/4 x 6 | 9.8 | | 791 | 405 | 234 | 148 | 99 | 69 | 51 | 38 | 29 | 23 | 18 | 15 | 12 | 10 | 9 | 7 | 6 |
| 6 3/4 x 7 1/2 | 12.3 | | 1545 | 791 | 458 | 288 | 193 | 136 | 99 | 74 | 57 | 45 | 36 | 29 | 24 | 20 | 17 | 14 | 12 |
| 6 3/4 x 9 | 14.8 | | 2278 | 1367 | 791 | 498 | 334 | 234 | 171 | 128 | 99 | 78 | 62 | 51 | 42 | 35 | 29 | 25 | 21 |
| 6 3/4 x 10 1/2 | 17.2 | | 3101 | 1985 | 1256 | 791 | 530 | 372 | 271 | 204 | 157 | 123 | 99 | 80 | 66 | 55 | 47 | 40 | 34 |
| 6 3/4 x 12 | 19.7 | | 4050 | 2592 | 1800 | 1181 | 791 | 556 | 405 | 304 | 234 | 184 | 148 | 120 | 99 | 82 | 69 | 59 | 51 |
| 6 3/4 x 13 1/2 | 22.1 | | 5126 | 3281 | 2278 | 1674 | 1126 | 791 | 577 | 433 | 334 | 262 | 210 | 171 | 141 | 117 | 99 | 84 | 72 |
| 6 3/4 x 15 | 24.6 | | 6328 | 4050 | 2813 | 2047 | 1545 | 1085 | 791 | 594 | 458 | 360 | 288 | 234 | 193 | 161 | 136 | 115 | 99 |
| 6 3/4 x 16 1/2 | 27.1 | | 7496 | 4901 | 3391 | 2454 | 1854 | 1444 | 1053 | 791 | 609 | 479 | 384 | 312 | 257 | 214 | 181 | 153 | 132 |
| 6 3/4 x 18 | 29.5 | | 8586 | 5832 | 4001 | 2895 | 2187 | 1708 | 1367 | 1027 | 791 | 622 | 498 | 405 | 334 | 278 | 234 | 199 | 171 |
| 6 3/4 x 19 1/2 | 32.0 | | 9791 | 6832 | 4658 | 3370 | 2546 | 1988 | 1594 | 1304 | 1006 | 791 | 633 | 515 | 424 | 354 | 298 | 253 | 217 |
| 6 3/4 x 21 | 34.5 | | 11130 | 7705 | 5363 | 3880 | 2931 | 2289 | 1834 | 1502 | 1251 | 988 | 791 | 643 | 530 | 442 | 372 | 316 | 271 |
| 6 3/4 x 22 1/2 | 36.9 | | 12626 | 8586 | 6114 | 4423 | 3342 | 2609 | 2091 | 1712 | 1426 | 1205 | 973 | 791 | 652 | 543 | 458 | 389 | 334 |
| 6 3/4 x 24 | 39.4 | | 14310 | 9540 | 6911 | 5000 | 3777 | 2950 | 2364 | 1935 | 1612 | 1363 | 1166 | 960 | 791 | 659 | 556 | 472 | 405 |
| 6 3/4 x 26 1/2 | 43.5 | | 17638 | 11320 | 8334 | 6036 | 4560 | 3561 | 2854 | 2336 | 1946 | 1645 | 1408 | 1218 | 1064 | 888 | 748 | 636 | 545 |
| 6 3/4 x 27 | 44.3 | | 18399 | 11708 | 8586 | 6254 | 4725 | 3690 | 2957 | 2421 | 2017 | 1705 | 1459 | 1262 | 1102 | 939 | 791 | 673 | 577 |
| 6 3/4 x 28 1/2 | 46.8 | | 20915 | 12947 | 9376 | 6931 | 5236 | 4089 | 3277 | 2683 | 2235 | 1889 | 1617 | 1399 | 1221 | 1075 | 930 | 791 | 678 |

NOTES

1. Horizontal shear at "d" distance from support controls design in area left of solid line. (**Bold Italics**)
2. Deflection controls design in area right of double line. (**Bold**)
3. Bending stress controls design in area between solid and double lines.

DIVISION OF BUILDING AND SAFETY
COUNTY OF VENTURA

B & S
STD B-48

BUILDING OFFICIAL _____ *Jim MacDonald*

DATE: 01/01/08