

1-Ply, 1.75" 2.3E true RigidLam LVL @ 100% Floor (PLF)
L/360 LL L/240 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|-----------|-----------|-----------|-----------|-----------|------------|-----|-----|-----|-----|-----|
| 6 | LL | 182 | 351 | 759 | - | - | - | - | - | | | | | |
| | TL | 271 | 524 | 776 | 1046 | 1082 | 1348 | 1450 | 1827 | | | | | |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.8 / 4.5 | 2.4 / 6 | 2.5 / 6.2 | 3.1 / 7.7 | 3.3 / 8.3 | 4.2 / 10.5 | | | | | |
| 8 | LL | 79 | 154 | 340 | 672 | 723 | - | - | - | | | | | |
| | TL | 116 | 228 | 507 | 736 | 759 | 932 | 996 | 1229 | | | | | |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2.3 / 5.6 | 2.3 / 5.8 | 2.9 / 7.1 | 3.1 / 7.6 | 3.8 / 9.4 | | | | | |
| 10 | LL | 41 | 80 | 179 | 360 | 389 | 623 | 723 | - | | | | | |
| | TL | 59 | 118 | 266 | 529 | 556 | 711 | 758 | 925 | | | | | |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 2 / 5.1 | 2.1 / 5.3 | 2.7 / 6.8 | 2.9 / 7.3 | 3.5 / 8.9 | | | | | |
| 12 | LL | | 47 | 105 | 214 | 231 | 374 | 436 | 689 | | | | | |
| | TL | | 68 | 155 | 317 | 342 | 529 | 586 | 741 | | | | | |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 4 | 2.4 / 6.1 | 2.7 / 6.8 | 3.4 / 8.5 | | | | | |
| 14 | LL | | | 67 | 137 | 148 | 241 | 282 | 449 | | | | | |
| | TL | | | 97 | 201 | 218 | 357 | 417 | 585 | | | | | |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.8 | 2.3 / 5.6 | 3.2 / 7.9 | | | | | |
| 16 | LL | | | 45 | 93 | 100 | 164 | 192 | 308 | | | | | |
| | TL | | | 65 | 135 | 146 | 241 | 282 | 446 | | | | | |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 1.8 / 4.4 | 2.8 / 6.9 | | | | | |
| 18 | LL | | | | 66 | 71 | 116 | 136 | 220 | | | | | |
| | TL | | | | 94 | 102 | 170 | 199 | 323 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 2.3 / 5.6 | | | | | |
| 20 | LL | | | | 48 | 52 | 86 | 100 | 162 | | | | | |
| | TL | | | | 68 | 74 | 123 | 145 | 236 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.6 | | | | | |
| 22 | LL | | | | 36 | 39 | 65 | 76 | 123 | | | | | |
| | TL | | | | 50 | 54 | 92 | 108 | 178 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.9 | | | | | |
| 24 | LL | | | | | | 50 | 59 | 95 | | | | | |
| | TL | | | | | | 70 | 83 | 136 | | | | | |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | | | | | |
| 26 | LL | | | | | | 39 | 46 | 75 | | | | | |
| | TL | | | | | | 54 | 64 | 106 | | | | | |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | | | | | |
| 28 | LL | | | | | | | 37 | 61 | | | | | |
| | TL | | | | | | | 50 | 84 | | | | | |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | | | | | |
| 30 | LL | | | | | | | | 49 | | | | | |
| | TL | | | | | | | | 68 | | | | | |
| | BRG | | | | | | | | 1.5 / 3 | | | | | |
| 32 | LL | | | | | | | | 41 | | | | | |
| | TL | | | | | | | | 55 | | | | | |
| | BRG | | | | | | | | 1.5 / 3 | | | | | |
| 34 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 36 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 38 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 40 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 42 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 44 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 46 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 48 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 50 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 52 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 54 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

2-Ply, 1.75" 2.3E true RigidLam LVL @ 100% Floor (PLF)
L/360 LL L/240 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|-------------|
| 6 | LL | 365 | 703 | 1517 | - | - | - | - | - | - | - | - | - | - |
| | TL | 543 | 1049 | 1553 | 2092 | 2164 | 2696 | 2900 | 3654 | 4465 | 5397 | 6478 | 7747 | 9258 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.8 / 4.5 | 2.4 / 6 | 2.5 / 6.2 | 3.1 / 7.7 | 3.3 / 8.3 | 4.2 / 10.5 | 5.1 / 12.8 | 6.2 / 15.5 | 7.4 / 18.6 | 8.9 / 22.2 | 10.6 / 26.5 |
| 8 | LL | 158 | 307 | 680 | 1345 | 1447 | - | - | - | - | - | - | - | - |
| | TL | 232 | 456 | 1013 | 1471 | 1519 | 1863 | 1993 | 2458 | 2938 | 3463 | 4042 | 4681 | 5391 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2.3 / 5.6 | 2.3 / 5.8 | 2.9 / 7.1 | 3.1 / 7.6 | 3.8 / 9.4 | 4.5 / 11.2 | 5.3 / 13.3 | 6.2 / 15.5 | 7.2 / 17.9 | 8.2 / 20.6 |
| 10 | LL | 82 | 160 | 359 | 721 | 777 | 1247 | 1447 | - | - | - | - | - | - |
| | TL | 118 | 235 | 531 | 1057 | 1111 | 1423 | 1517 | 1851 | 2187 | 2548 | 2934 | 3350 | 3799 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 2 / 5.1 | 2.1 / 5.3 | 2.7 / 6.8 | 2.9 / 7.3 | 3.5 / 8.9 | 4.2 / 10.5 | 4.9 / 12.2 | 5.6 / 14.1 | 6.4 / 16.1 | 7.3 / 18.2 |
| 12 | LL | 47 | 94 | 211 | 428 | 462 | 749 | 872 | 1378 | - | - | - | - | - |
| | TL | 67 | 135 | 310 | 634 | 685 | 1058 | 1171 | 1483 | 1741 | 2013 | 2302 | 2607 | 2931 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 4 | 2.4 / 6.1 | 2.7 / 6.8 | 3.4 / 8.5 | 4 / 10 | 4.6 / 11.6 | 5.3 / 13.3 | 6 / 15 | 6.7 / 16.9 |
| 14 | LL | | 59 | 134 | 274 | 296 | 482 | 563 | 898 | 1302 | - | - | - | - |
| | TL | | 84 | 195 | 402 | 435 | 713 | 834 | 1170 | 1445 | 1663 | 1892 | 2132 | 2384 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.8 | 2.3 / 5.6 | 3.2 / 7.9 | 3.9 / 9.7 | 4.5 / 11.2 | 5.1 / 12.7 | 5.7 / 14.3 | 6.4 / 16 |
| 16 | LL | | 40 | 90 | 185 | 200 | 328 | 384 | 616 | 898 | 1247 | - | - | - |
| | TL | | 55 | 129 | 270 | 292 | 482 | 565 | 892 | 1148 | 1416 | 1606 | 1803 | 2008 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 1.8 / 4.4 | 2.8 / 6.9 | 3.5 / 8.9 | 4.4 / 10.9 | 4.9 / 12.4 | 5.6 / 13.9 | 6.2 / 15.5 |
| 18 | LL | | | 64 | 131 | 142 | 233 | 273 | 439 | 644 | 898 | 1205 | - | - |
| | TL | | | 89 | 188 | 204 | 339 | 398 | 646 | 904 | 1129 | 1378 | 1561 | 1734 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 2.3 / 5.6 | 3.2 / 7.9 | 3.9 / 9.8 | 4.8 / 12 | 5.4 / 13.6 | 6 / 15 |
| 20 | LL | | | 47 | 96 | 104 | 171 | 200 | 324 | 476 | 667 | 898 | 1172 | 1489 |
| | TL | | | 63 | 136 | 147 | 246 | 290 | 473 | 700 | 912 | 1113 | 1332 | 1525 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.6 | 2.7 / 6.8 | 3.5 / 8.8 | 4.3 / 10.8 | 5.2 / 12.9 | 5.9 / 14.7 |
| 22 | LL | | | | 73 | 78 | 129 | 152 | 246 | 362 | 508 | 686 | 898 | 1145 |
| | TL | | | | 100 | 109 | 184 | 216 | 355 | 528 | 745 | 916 | 1097 | 1293 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.9 | 2.3 / 5.7 | 3.2 / 8 | 3.9 / 9.8 | 4.7 / 11.7 | 5.5 / 13.8 |
| 24 | LL | | | | 56 | 61 | 100 | 117 | 190 | 281 | 396 | 535 | 703 | 898 |
| | TL | | | | 75 | 82 | 140 | 165 | 273 | 407 | 577 | 767 | 919 | 1083 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.8 | 2.7 / 6.8 | 3.6 / 9 | 4.3 / 10.7 | 5.1 / 12.6 |
| 26 | LL | | | | 44 | 48 | 79 | 93 | 151 | 223 | 314 | 426 | 559 | 717 |
| | TL | | | | 58 | 63 | 108 | 128 | 213 | 319 | 454 | 620 | 780 | 920 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.8 | 3.2 / 7.9 | 4 / 9.9 | 4.7 / 11.7 |
| 28 | LL | | | | | | 63 | 74 | 121 | 179 | 253 | 343 | 452 | 580 |
| | TL | | | | | | 85 | 101 | 169 | 254 | 363 | 497 | 658 | 790 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.6 | 2 / 5.1 | 2.7 / 6.9 | 3.6 / 9 | 4.3 / 10.8 |
| 30 | LL | | | | | | 52 | 61 | 99 | 146 | 207 | 281 | 371 | 476 |
| | TL | | | | | | 67 | 80 | 135 | 205 | 293 | 403 | 536 | 685 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.8 / 4.4 | 2.4 / 6 | 3.2 / 7.9 | 4 / 10.1 |
| 32 | LL | | | | | | 43 | 50 | 82 | 121 | 171 | 233 | 307 | 396 |
| | TL | | | | | | 54 | 64 | 109 | 167 | 240 | 331 | 441 | 571 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2.1 / 5.3 | 2.8 / 7 | 3.6 / 9 |
| 34 | LL | | | | | | | 42 | 68 | 101 | 143 | 195 | 258 | 332 |
| | TL | | | | | | | 52 | 89 | 137 | 198 | 274 | 366 | 476 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.7 | 2.5 / 6.3 | 3.2 / 8.1 |
| 36 | LL | | | | | | | | 58 | 85 | 121 | 165 | 218 | 281 |
| | TL | | | | | | | | 73 | 113 | 165 | 229 | 307 | 400 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 38 | LL | | | | | | | | 49 | 73 | 103 | 141 | 186 | 240 |
| | TL | | | | | | | | 61 | 94 | 138 | 193 | 259 | 338 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.5 |
| 40 | LL | | | | | | | | 42 | 63 | 89 | 121 | 160 | 207 |
| | TL | | | | | | | | 50 | 79 | 116 | 163 | 220 | 288 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.8 / 4.6 | 2.4 / 5.9 |
| 42 | LL | | | | | | | | | 54 | 77 | 105 | 139 | 179 |
| | TL | | | | | | | | | 66 | 98 | 139 | 188 | 247 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.4 |
| 44 | LL | | | | | | | | | 47 | 67 | 91 | 121 | 156 |
| | TL | | | | | | | | | 56 | 84 | 119 | 161 | 212 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 4.9 |
| 46 | LL | | | | | | | | | | 59 | 80 | 106 | 137 |
| | TL | | | | | | | | | | 71 | 102 | 139 | 184 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.8 / 4.5 |
| 48 | LL | | | | | | | | | | 52 | 71 | 94 | 121 |
| | TL | | | | | | | | | | 61 | 87 | 120 | 159 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.1 |
| 50 | LL | | | | | | | | | | 46 | 63 | 83 | 107 |
| | TL | | | | | | | | | | 52 | 75 | 104 | 139 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 |
| 52 | LL | | | | | | | | | | | 56 | 74 | 96 |
| | TL | | | | | | | | | | | 65 | 90 | 121 |
| | BRG | | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 |
| 54 | LL | | | | | | | | | | | 50 | 66 | 85 |
| | TL | | | | | | | | | | | 56 | 79 | 106 |
| | BRG | | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

3-Ply, 1.75" 2.3E true RigidLam LVL @ 100% Floor (PLF)
L/360 LL L/240 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|
| 10 | LL | 122 | 240 | 538 | 1081 | 1166 | 1870 | 2170 | - | - | - | - | - | - |
| | TL | 177 | 353 | 797 | 1586 | 1667 | 2134 | 2275 | 2776 | 3281 | 3821 | 4401 | 5025 | 5699 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 2 / 5.1 | 2.1 / 5.3 | 2.7 / 6.8 | 2.9 / 7.3 | 3.5 / 8.9 | 4.2 / 10.5 | 4.9 / 12.2 | 5.6 / 14.1 | 6.4 / 16.1 | 7.3 / 18.2 |
| 12 | LL | 71 | 140 | 316 | 642 | 693 | 1123 | 1308 | 2067 | - | - | - | - | - |
| | TL | 101 | 203 | 465 | 950 | 1027 | 1587 | 1757 | 2224 | 2611 | 3020 | 3452 | 3910 | 4396 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 4 | 2.4 / 6.1 | 2.7 / 6.8 | 3.4 / 8.5 | 4 / 10 | 4.6 / 11.6 | 5.3 / 13.3 | 6 / 15 | 6.7 / 16.9 |
| 14 | LL | 45 | 89 | 201 | 411 | 444 | 724 | 845 | 1347 | 1953 | - | - | - | - |
| | TL | 61 | 126 | 292 | 603 | 653 | 1070 | 1251 | 1754 | 2167 | 2495 | 2838 | 3198 | 3576 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.8 | 2.3 / 5.6 | 3.2 / 7.9 | 3.9 / 9.7 | 4.5 / 11.2 | 5.1 / 12.7 | 5.7 / 14.3 | 6.4 / 16 |
| 16 | LL | | 60 | 136 | 278 | 301 | 492 | 576 | 923 | 1347 | 1870 | - | - | - |
| | TL | | 82 | 194 | 404 | 438 | 723 | 847 | 1339 | 1722 | 2124 | 2408 | 2704 | 3012 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 1.8 / 4.4 | 2.8 / 6.9 | 3.5 / 8.9 | 4.4 / 10.9 | 4.9 / 12.4 | 5.6 / 13.9 | 6.2 / 15.5 |
| 18 | LL | | 42 | 96 | 197 | 213 | 349 | 409 | 659 | 966 | 1347 | 1807 | - | - |
| | TL | | 56 | 134 | 282 | 306 | 509 | 597 | 969 | 1356 | 1694 | 2067 | 2341 | 2600 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 2.3 / 5.6 | 3.2 / 7.9 | 3.9 / 9.8 | 4.8 / 12 | 5.4 / 13.6 | 6 / 15 |
| 20 | LL | | | 70 | 144 | 156 | 257 | 301 | 486 | 714 | 1000 | 1347 | 1757 | 2233 |
| | TL | | | 95 | 203 | 221 | 369 | 435 | 709 | 1050 | 1367 | 1669 | 1998 | 2287 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.6 | 2.7 / 6.8 | 3.5 / 8.8 | 4.3 / 10.8 | 5.2 / 12.9 | 5.9 / 14.7 |
| 22 | LL | | | 53 | 109 | 118 | 194 | 227 | 368 | 543 | 762 | 1029 | 1347 | 1717 |
| | TL | | | 69 | 150 | 163 | 275 | 325 | 533 | 792 | 1118 | 1374 | 1646 | 1940 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.9 | 2.3 / 5.7 | 3.2 / 8 | 3.9 / 9.8 | 4.7 / 11.7 | 5.5 / 13.8 |
| 24 | LL | | | 41 | 84 | 91 | 150 | 176 | 286 | 422 | 593 | 803 | 1054 | 1347 |
| | TL | | | 51 | 113 | 123 | 209 | 248 | 409 | 610 | 865 | 1150 | 1378 | 1625 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.8 | 2.7 / 6.8 | 3.6 / 9 | 4.3 / 10.7 | 5.1 / 12.6 |
| 26 | LL | | | | 66 | 72 | 118 | 139 | 226 | 334 | 471 | 638 | 839 | 1075 |
| | TL | | | | 87 | 94 | 162 | 192 | 319 | 479 | 681 | 930 | 1170 | 1380 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.8 | 3.2 / 7.9 | 4 / 9.9 | 4.7 / 11.7 |
| 28 | LL | | | | 53 | 58 | 95 | 112 | 182 | 269 | 379 | 515 | 678 | 871 |
| | TL | | | | 67 | 73 | 127 | 151 | 253 | 381 | 544 | 745 | 987 | 1185 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.6 | 2 / 5.1 | 2.7 / 6.9 | 3.6 / 9 | 4.3 / 10.8 |
| 30 | LL | | | | 43 | 47 | 77 | 91 | 148 | 219 | 310 | 422 | 556 | 714 |
| | TL | | | | 52 | 57 | 101 | 120 | 203 | 307 | 440 | 605 | 804 | 1028 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.8 / 4.4 | 2.4 / 6 | 3.2 / 7.9 | 4 / 10.1 |
| 32 | LL | | | | | | 64 | 75 | 122 | 182 | 257 | 349 | 461 | 593 |
| | TL | | | | | | 80 | 96 | 164 | 250 | 360 | 496 | 661 | 857 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2.1 / 5.3 | 2.8 / 7 | 3.6 / 9 |
| 34 | LL | | | | | | 53 | 63 | 102 | 152 | 215 | 293 | 387 | 498 |
| | TL | | | | | | 64 | 78 | 134 | 205 | 297 | 411 | 549 | 714 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.7 | 2.5 / 6.3 | 3.2 / 8.1 |
| 36 | LL | | | | | | 45 | 53 | 86 | 128 | 182 | 247 | 327 | 422 |
| | TL | | | | | | 52 | 63 | 110 | 170 | 247 | 343 | 460 | 599 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 38 | LL | | | | | | | 45 | 73 | 109 | 155 | 211 | 279 | 360 |
| | TL | | | | | | | 51 | 91 | 142 | 207 | 289 | 388 | 507 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.5 |
| 40 | LL | | | | | | | | 63 | 94 | 133 | 182 | 240 | 310 |
| | TL | | | | | | | | 75 | 119 | 175 | 245 | 330 | 432 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.8 / 4.6 | 2.4 / 5.9 |
| 42 | LL | | | | | | | | 55 | 81 | 115 | 157 | 208 | 269 |
| | TL | | | | | | | | 62 | 100 | 148 | 208 | 282 | 370 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.4 |
| 44 | LL | | | | | | | | 48 | 71 | 100 | 137 | 182 | 234 |
| | TL | | | | | | | | 52 | 84 | 125 | 178 | 242 | 318 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 4.9 |
| 46 | LL | | | | | | | | | 62 | 88 | 120 | 159 | 206 |
| | TL | | | | | | | | | 71 | 107 | 152 | 208 | 275 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.8 / 4.5 |
| 48 | LL | | | | | | | | | 55 | 77 | 106 | 140 | 182 |
| | TL | | | | | | | | | 60 | 91 | 131 | 180 | 239 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.1 |
| 50 | LL | | | | | | | | | 48 | 69 | 94 | 124 | 161 |
| | TL | | | | | | | | | 50 | 78 | 113 | 156 | 208 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 |
| 52 | LL | | | | | | | | | | 61 | 83 | 111 | 143 |
| | TL | | | | | | | | | | 67 | 98 | 136 | 182 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 |
| 54 | LL | | | | | | | | | | 55 | 75 | 99 | 128 |
| | TL | | | | | | | | | | 57 | 84 | 118 | 159 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 |
| 56 | LL | | | | | | | | | | | 67 | 89 | 115 |
| | TL | | | | | | | | | | | 73 | 103 | 139 |
| | BRG | | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 |
| 58 | LL | | | | | | | | | | | 60 | 80 | 104 |
| | TL | | | | | | | | | | | 63 | 90 | 122 |
| | BRG | | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

4-Ply, 1.75" 2.3E true RigidLam LVL @ 100% Floor (PLF)
L/360 LL L/240 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|
| 10 | LL | 163 | 320 | 717 | 1442 | 1555 | 2493 | 2893 | - | - | - | - | - | - |
| | TL | 237 | 470 | 1062 | 2114 | 2223 | 2845 | 3033 | 3701 | 4375 | 5095 | 5869 | 6700 | 7598 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 2 / 5.1 | 2.1 / 5.3 | 2.7 / 6.8 | 2.9 / 7.3 | 3.5 / 8.9 | 4.2 / 10.5 | 4.9 / 12.2 | 5.6 / 14.1 | 6.4 / 16.1 | 7.3 / 18.2 |
| 12 | LL | 95 | 187 | 422 | 856 | 924 | 1497 | 1744 | 2756 | - | - | - | - | - |
| | TL | 134 | 271 | 619 | 1267 | 1369 | 2116 | 2342 | 2966 | 3482 | 4027 | 4603 | 5213 | 5861 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 4 | 2.4 / 6.1 | 2.7 / 6.8 | 3.4 / 8.5 | 4 / 10 | 4.6 / 11.6 | 5.3 / 13.3 | 6 / 15 | 6.7 / 16.9 |
| 14 | LL | 60 | 119 | 268 | 548 | 592 | 965 | 1127 | 1796 | 2604 | - | - | - | - |
| | TL | 82 | 168 | 389 | 805 | 870 | 1427 | 1668 | 2339 | 2890 | 3327 | 3784 | 4264 | 4768 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.8 | 2.3 / 5.6 | 3.2 / 7.9 | 3.9 / 9.7 | 4.5 / 11.2 | 5.1 / 12.7 | 5.7 / 14.3 | 6.4 / 16 |
| 16 | LL | 40 | 80 | 181 | 371 | 401 | 656 | 768 | 1231 | 1796 | 2493 | - | - | - |
| | TL | 52 | 109 | 258 | 539 | 584 | 964 | 1129 | 1785 | 2296 | 2833 | 3211 | 3605 | 4016 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 1.8 / 4.4 | 2.8 / 6.9 | 3.5 / 8.9 | 4.4 / 10.9 | 4.9 / 12.4 | 5.6 / 13.9 | 6.2 / 15.5 |
| 18 | LL | | 56 | 128 | 262 | 284 | 466 | 545 | 879 | 1287 | 1796 | 2409 | - | - |
| | TL | | 74 | 178 | 376 | 408 | 678 | 796 | 1292 | 1808 | 2259 | 2756 | 3121 | 3467 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 2.3 / 5.6 | 3.2 / 7.9 | 3.9 / 9.8 | 4.8 / 12 | 5.4 / 13.6 | 6 / 15 |
| 20 | LL | | 41 | 93 | 192 | 208 | 342 | 401 | 648 | 953 | 1334 | 1796 | 2343 | 2977 |
| | TL | | 51 | 127 | 271 | 294 | 493 | 580 | 946 | 1399 | 1823 | 2225 | 2664 | 3049 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.6 | 2.7 / 6.8 | 3.5 / 8.8 | 4.3 / 10.8 | 5.2 / 12.9 | 5.9 / 14.7 |
| 22 | LL | | | 70 | 145 | 157 | 259 | 303 | 491 | 724 | 1016 | 1372 | 1796 | 2290 |
| | TL | | | 92 | 200 | 218 | 367 | 433 | 711 | 1056 | 1491 | 1832 | 2195 | 2587 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.9 | 2.3 / 5.7 | 3.2 / 8 | 3.9 / 9.8 | 4.7 / 11.7 | 5.5 / 13.8 |
| 24 | LL | | | 54 | 112 | 121 | 200 | 235 | 381 | 562 | 791 | 1071 | 1405 | 1796 |
| | TL | | | 68 | 151 | 164 | 279 | 330 | 545 | 814 | 1153 | 1534 | 1838 | 2167 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.8 | 2.7 / 6.8 | 3.6 / 9 | 4.3 / 10.7 | 5.1 / 12.6 |
| 26 | LL | | | 43 | 88 | 96 | 158 | 185 | 301 | 445 | 627 | 851 | 1119 | 1433 |
| | TL | | | 51 | 115 | 126 | 216 | 256 | 426 | 638 | 908 | 1240 | 1560 | 1840 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.8 | 3.2 / 7.9 | 4 / 9.9 | 4.7 / 11.7 |
| 28 | LL | | | | 71 | 77 | 127 | 149 | 242 | 358 | 506 | 687 | 905 | 1161 |
| | TL | | | | 89 | 97 | 169 | 201 | 337 | 508 | 725 | 994 | 1316 | 1580 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.6 | 2 / 5.1 | 2.7 / 6.9 | 3.6 / 9 | 4.3 / 10.8 |
| 30 | LL | | | | 58 | 62 | 103 | 121 | 197 | 293 | 413 | 562 | 741 | 953 |
| | TL | | | | 69 | 76 | 134 | 160 | 270 | 409 | 587 | 806 | 1071 | 1371 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.8 / 4.4 | 2.4 / 6 | 3.2 / 7.9 | 4 / 10.1 |
| 32 | LL | | | | 48 | 52 | 85 | 100 | 163 | 242 | 342 | 466 | 615 | 791 |
| | TL | | | | 54 | 60 | 107 | 128 | 219 | 333 | 480 | 662 | 882 | 1142 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2.1 / 5.3 | 2.8 / 7 | 3.6 / 9 |
| 34 | LL | | | | | | 71 | 84 | 136 | 202 | 286 | 390 | 515 | 664 |
| | TL | | | | | | 86 | 103 | 179 | 274 | 396 | 548 | 733 | 951 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.7 | 2.5 / 6.3 | 3.2 / 8.1 |
| 36 | LL | | | | | | 60 | 71 | 115 | 171 | 242 | 330 | 436 | 562 |
| | TL | | | | | | 69 | 84 | 147 | 227 | 330 | 458 | 614 | 799 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 38 | LL | | | | | | 51 | 60 | 98 | 146 | 206 | 281 | 372 | 480 |
| | TL | | | | | | 56 | 68 | 121 | 189 | 276 | 385 | 518 | 676 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.5 |
| 40 | LL | | | | | | | 52 | 84 | 125 | 177 | 242 | 320 | 413 |
| | TL | | | | | | | 55 | 100 | 158 | 233 | 326 | 440 | 576 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.8 / 4.6 | 2.4 / 5.9 |
| 42 | LL | | | | | | | | 73 | 108 | 153 | 210 | 278 | 358 |
| | TL | | | | | | | | 83 | 133 | 197 | 277 | 376 | 493 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.4 |
| 44 | LL | | | | | | | | 63 | 94 | 134 | 183 | 242 | 313 |
| | TL | | | | | | | | 69 | 112 | 167 | 237 | 322 | 425 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 4.9 |
| 46 | LL | | | | | | | | 55 | 83 | 117 | 160 | 212 | 274 |
| | TL | | | | | | | | 57 | 94 | 143 | 203 | 278 | 367 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.8 / 4.5 |
| 48 | LL | | | | | | | | | 73 | 103 | 141 | 187 | 242 |
| | TL | | | | | | | | | 80 | 122 | 175 | 240 | 319 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.1 |
| 50 | LL | | | | | | | | | 64 | 91 | 125 | 166 | 215 |
| | TL | | | | | | | | | 67 | 104 | 151 | 208 | 277 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 |
| 52 | LL | | | | | | | | | 57 | 81 | 111 | 148 | 191 |
| | TL | | | | | | | | | 56 | 89 | 130 | 181 | 242 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 |
| 54 | LL | | | | | | | | | | 73 | 100 | 132 | 171 |
| | TL | | | | | | | | | | 76 | 112 | 157 | 212 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 |
| 56 | LL | | | | | | | | | | 65 | 89 | 119 | 153 |
| | TL | | | | | | | | | | 65 | 97 | 137 | 186 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 |
| 58 | LL | | | | | | | | | | 59 | 80 | 107 | 138 |
| | TL | | | | | | | | | | 55 | 84 | 120 | 163 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

1-Ply, 1.75" 2.3E true RigidLam LVL @ 115% Roof (PLF)
L/240 LL L/180 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----|-----|-----|-----|-----|
| 6 | LL | 273 | 527 | - | - | - | - | - | - | | | | | |
| | TL | 363 | 640 | 893 | 1204 | 1245 | 1551 | 1668 | 2102 | | | | | |
| | BRG | 1.5 / 3 | 1.5 / 3.7 | 2 / 5.1 | 2.8 / 6.9 | 2.9 / 7.1 | 3.6 / 8.9 | 3.8 / 9.6 | 4.8 / 12 | | | | | |
| 8 | LL | 118 | 231 | 510 | - | - | - | - | - | | | | | |
| | TL | 156 | 305 | 603 | 847 | 874 | 1072 | 1147 | 1415 | | | | | |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.8 / 4.6 | 2.6 / 6.5 | 2.7 / 6.7 | 3.3 / 8.2 | 3.5 / 8.8 | 4.3 / 10.8 | | | | | |
| 10 | LL | 61 | 120 | 269 | 541 | 583 | - | - | - | | | | | |
| | TL | 80 | 158 | 355 | 608 | 640 | 819 | 873 | 1065 | | | | | |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 2.3 / 5.8 | 2.5 / 6.1 | 3.1 / 7.8 | 3.3 / 8.4 | 4.1 / 10.2 | | | | | |
| 12 | LL | | 70 | 158 | 321 | 347 | 562 | 654 | - | | | | | |
| | TL | | 91 | 208 | 421 | 443 | 609 | 674 | 854 | | | | | |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.9 | 2 / 5.1 | 2.8 / 7 | 3.1 / 7.8 | 3.9 / 9.8 | | | | | |
| 14 | LL | | 44 | 101 | 205 | 222 | 362 | 422 | - | | | | | |
| | TL | | 57 | 131 | 270 | 292 | 446 | 494 | 673 | | | | | |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 3.9 | 2.4 / 6 | 2.7 / 6.7 | 3.6 / 9.1 | | | | | |
| 16 | LL | | | 68 | 139 | 150 | 246 | 288 | 462 | | | | | |
| | TL | | | 87 | 181 | 196 | 323 | 377 | 514 | | | | | |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 2 / 5 | 2.3 / 5.8 | 3.2 / 7.9 | | | | | |
| 18 | LL | | | 48 | 98 | 106 | 175 | 205 | 329 | | | | | |
| | TL | | | 60 | 127 | 138 | 228 | 267 | 405 | | | | | |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 4 | 1.9 / 4.7 | 2.8 / 7.1 | | | | | |
| 20 | LL | | | | 72 | 78 | 128 | 150 | 243 | | | | | |
| | TL | | | | 92 | 100 | 166 | 195 | 317 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.5 / 3.8 | 2.5 / 6.2 | | | | | |
| 22 | LL | | | | 54 | 59 | 97 | 114 | 184 | | | | | |
| | TL | | | | 68 | 74 | 124 | 146 | 239 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 2.1 / 5.1 | | | | | |
| 24 | LL | | | | 42 | 45 | 75 | 88 | 143 | | | | | |
| | TL | | | | 52 | 56 | 95 | 112 | 184 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.4 | | | | | |
| 26 | LL | | | | | | 59 | 69 | 113 | | | | | |
| | TL | | | | | | 74 | 87 | 144 | | | | | |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | | | | | |
| 28 | LL | | | | | | 48 | 56 | 91 | | | | | |
| | TL | | | | | | 58 | 69 | 115 | | | | | |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | | | | | |
| 30 | LL | | | | | | | 45 | 74 | | | | | |
| | TL | | | | | | | 55 | 92 | | | | | |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | | | | | |
| 32 | LL | | | | | | | | 61 | | | | | |
| | TL | | | | | | | | 75 | | | | | |
| | BRG | | | | | | | | 1.5 / 3 | | | | | |
| 34 | LL | | | | | | | | 51 | | | | | |
| | TL | | | | | | | | 62 | | | | | |
| | BRG | | | | | | | | 1.5 / 3 | | | | | |
| 36 | LL | | | | | | | | 43 | | | | | |
| | TL | | | | | | | | 51 | | | | | |
| | BRG | | | | | | | | 1.5 / 3 | | | | | |
| 38 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 40 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 42 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 44 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 46 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 48 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 50 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 52 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 54 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

2-Ply, 1.75" 2.3E true RigidLam LVL @ 115% Roof (PLF)
L/240 LL L/180 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|-------------|
| 6 | LL | 547 | 1054 | - | - | - | - | - | - | - | - | - | - | - |
| | TL | 725 | 1279 | 1787 | 2408 | 2490 | 3102 | 3337 | 4204 | 5137 | 6209 | 7452 | 8912 | 10650 |
| | BRG | 1.5 / 3 | 1.5 / 3.7 | 2 / 5.1 | 2.8 / 6.9 | 2.9 / 7.1 | 3.6 / 8.9 | 3.8 / 9.6 | 4.8 / 12 | 5.9 / 14.7 | 7.1 / 17.8 | 8.5 / 21.3 | 10.2 / 25.5 | 12.2 / 30.5 |
| 8 | LL | 236 | 461 | 1020 | - | - | - | - | - | - | - | - | - | - |
| | TL | 311 | 610 | 1206 | 1693 | 1748 | 2145 | 2293 | 2829 | 3381 | 3985 | 4651 | 5386 | 6203 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.8 / 4.6 | 2.6 / 6.5 | 2.7 / 6.7 | 3.3 / 8.2 | 3.5 / 8.8 | 4.3 / 10.8 | 5.2 / 12.9 | 6.1 / 15.2 | 7.1 / 17.8 | 8.2 / 20.6 | 9.5 / 23.7 |
| 10 | LL | 122 | 240 | 538 | 1081 | 1166 | - | - | - | - | - | - | - | - |
| | TL | 159 | 315 | 711 | 1217 | 1280 | 1637 | 1746 | 2130 | 2518 | 2932 | 3377 | 3856 | 4372 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 2.3 / 5.8 | 2.5 / 6.1 | 3.1 / 7.8 | 3.3 / 8.4 | 4.1 / 10.2 | 4.8 / 12.1 | 5.6 / 14 | 6.5 / 16.2 | 7.4 / 18.5 | 8.4 / 20.9 |
| 12 | LL | 71 | 140 | 316 | 642 | 693 | 1123 | 1308 | - | - | - | - | - | - |
| | TL | 91 | 182 | 415 | 842 | 886 | 1218 | 1348 | 1707 | 2004 | 2318 | 2650 | 3001 | 3373 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.9 | 2 / 5.1 | 2.8 / 7 | 3.1 / 7.8 | 3.9 / 9.8 | 4.6 / 11.5 | 5.3 / 13.3 | 6.1 / 15.2 | 6.9 / 17.3 | 7.8 / 19.4 |
| 14 | LL | 45 | 89 | 201 | 411 | 444 | 724 | 845 | - | - | - | - | - | - |
| | TL | 56 | 113 | 262 | 539 | 583 | 892 | 988 | 1347 | 1664 | 1915 | 2179 | 2455 | 2745 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 3.9 | 2.4 / 6 | 2.7 / 6.7 | 3.6 / 9.1 | 4.5 / 11.2 | 5.2 / 12.9 | 5.9 / 14.6 | 6.6 / 16.5 | 7.4 / 18.4 |
| 16 | LL | | 60 | 136 | 278 | 301 | 492 | 576 | 923 | - | - | - | - | - |
| | TL | | 75 | 174 | 362 | 392 | 646 | 754 | 1028 | 1323 | 1631 | 1849 | 2076 | 2312 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 2 / 5 | 2.3 / 5.8 | 3.2 / 7.9 | 4.1 / 10.2 | 5 / 12.6 | 5.7 / 14.2 | 6.4 / 16 | 7.1 / 17.8 |
| 18 | LL | | 42 | 96 | 197 | 213 | 349 | 409 | 659 | 966 | - | - | - | - |
| | TL | | 51 | 121 | 254 | 275 | 455 | 534 | 810 | 1042 | 1301 | 1587 | 1798 | 1997 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 4 | 1.9 / 4.7 | 2.8 / 7.1 | 3.6 / 9.1 | 4.5 / 11.3 | 5.5 / 13.8 | 6.2 / 15.6 | 6.9 / 17.3 |
| 20 | LL | | | 70 | 144 | 156 | 257 | 301 | 486 | 714 | 1000 | - | - | - |
| | TL | | | 87 | 184 | 199 | 332 | 390 | 635 | 841 | 1051 | 1282 | 1535 | 1757 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.5 / 3.8 | 2.5 / 6.2 | 3.3 / 8.2 | 4.1 / 10.2 | 5 / 12.4 | 5.9 / 14.8 | 6.8 / 16.9 |
| 22 | LL | | | 53 | 109 | 118 | 194 | 227 | 368 | 543 | 762 | 1029 | - | - |
| | TL | | | 64 | 136 | 148 | 248 | 292 | 478 | 693 | 866 | 1056 | 1265 | 1491 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 2.1 / 5.1 | 3 / 7.4 | 3.7 / 9.2 | 4.5 / 11.3 | 5.4 / 13.5 | 6.3 / 15.9 |
| 24 | LL | | | | 84 | 91 | 150 | 176 | 286 | 422 | 593 | 803 | 1054 | - |
| | TL | | | | 103 | 112 | 190 | 224 | 368 | 548 | 725 | 885 | 1060 | 1249 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.4 | 2.6 / 6.4 | 3.4 / 8.5 | 4.1 / 10.3 | 4.9 / 12.3 | 5.8 / 14.5 |
| 26 | LL | | | | 66 | 72 | 118 | 139 | 226 | 334 | 471 | 638 | 839 | - |
| | TL | | | | 80 | 87 | 147 | 174 | 288 | 430 | 611 | 751 | 900 | 1061 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.2 / 5.5 | 3.1 / 7.8 | 3.8 / 9.5 | 4.6 / 11.4 | 5.4 / 13.4 |
| 28 | LL | | | | 53 | 58 | 95 | 112 | 182 | 269 | 379 | 515 | 678 | 871 |
| | TL | | | | 62 | 68 | 116 | 138 | 229 | 344 | 489 | 645 | 773 | 912 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.9 / 4.8 | 2.7 / 6.7 | 3.5 / 8.8 | 4.2 / 10.6 | 5 / 12.5 |
| 30 | LL | | | | | 47 | 77 | 91 | 148 | 219 | 310 | 422 | 556 | 714 |
| | TL | | | | | 54 | 93 | 110 | 184 | 278 | 397 | 544 | 671 | 791 |
| | BRG | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.2 | 2.4 / 5.9 | 3.2 / 8 | 3.9 / 9.9 | 4.6 / 11.6 |
| 32 | LL | | | | | | 64 | 75 | 122 | 182 | 257 | 349 | 461 | 593 |
| | TL | | | | | | 75 | 89 | 150 | 227 | 326 | 447 | 587 | 693 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.1 / 5.2 | 2.8 / 7.1 | 3.7 / 9.3 | 4.4 / 10.9 |
| 34 | LL | | | | | | 53 | 63 | 102 | 152 | 215 | 293 | 387 | 498 |
| | TL | | | | | | 61 | 73 | 123 | 188 | 270 | 372 | 495 | 611 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.6 | 2.5 / 6.3 | 3.3 / 8.3 | 4.1 / 10.3 |
| 36 | LL | | | | | | | 53 | 86 | 128 | 182 | 247 | 327 | 422 |
| | TL | | | | | | | 60 | 102 | 156 | 225 | 311 | 416 | 540 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.7 | 3 / 7.5 | 3.9 / 9.6 |
| 38 | LL | | | | | | | | 73 | 109 | 155 | 211 | 279 | 360 |
| | TL | | | | | | | | 85 | 131 | 190 | 263 | 352 | 458 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2 / 5.1 | 2.7 / 6.7 | 3.5 / 8.7 |
| 40 | LL | | | | | | | | 63 | 94 | 133 | 182 | 240 | 310 |
| | TL | | | | | | | | 71 | 110 | 161 | 224 | 300 | 391 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.6 | 2.4 / 6.1 | 3.2 / 7.9 |
| 42 | LL | | | | | | | | 55 | 81 | 115 | 157 | 208 | 269 |
| | TL | | | | | | | | 60 | 93 | 137 | 191 | 257 | 336 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 44 | LL | | | | | | | | 48 | 71 | 100 | 137 | 182 | 234 |
| | TL | | | | | | | | 50 | 79 | 117 | 164 | 222 | 290 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.6 |
| 46 | LL | | | | | | | | | 62 | 88 | 120 | 159 | 206 |
| | TL | | | | | | | | | 68 | 101 | 142 | 192 | 252 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.6 | 2.4 / 6 |
| 48 | LL | | | | | | | | | 55 | 77 | 106 | 140 | 182 |
| | TL | | | | | | | | | 58 | 87 | 123 | 167 | 220 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.3 | 2.2 / 5.5 |
| 50 | LL | | | | | | | | | | 69 | 94 | 124 | 161 |
| | TL | | | | | | | | | | 75 | 107 | 146 | 192 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2 / 5.1 |
| 52 | LL | | | | | | | | | | 61 | 83 | 111 | 143 |
| | TL | | | | | | | | | | 65 | 93 | 127 | 169 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.9 / 4.7 |
| 54 | LL | | | | | | | | | | 55 | 75 | 99 | 128 |
| | TL | | | | | | | | | | 56 | 81 | 112 | 149 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.4 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

3-Ply, 1.75" 2.3E true RigidLam LVL @ 115% Roof (PLF)
L/240 LL L/180 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 10 | LL | 184 | 360 | 807 | 1622 | 1749 | - | - | - | - | - | - | - | - |
| | TL | 239 | 473 | 1066 | 1825 | 1919 | 2456 | 2619 | 3195 | 3776 | 4398 | 5066 | 5784 | 6558 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 2.3 / 5.8 | 2.5 / 6.1 | 3.1 / 7.8 | 3.3 / 8.4 | 4.1 / 10.2 | 4.8 / 12.1 | 5.6 / 14 | 6.5 / 16.2 | 7.4 / 18.5 | 8.4 / 20.9 |
| 12 | LL | 107 | 211 | 475 | 963 | 1040 | 1685 | 1962 | - | - | - | - | - | - |
| | TL | 136 | 273 | 623 | 1264 | 1329 | 1827 | 2023 | 2561 | 3006 | 3477 | 3974 | 4501 | 5060 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.9 | 2 / 5.1 | 2.8 / 7 | 3.1 / 7.8 | 3.9 / 9.8 | 4.6 / 11.5 | 5.3 / 13.3 | 6.1 / 15.2 | 6.9 / 17.3 | 7.8 / 19.4 |
| 14 | LL | 68 | 133 | 302 | 616 | 666 | 1086 | 1267 | - | - | - | - | - | - |
| | TL | 84 | 170 | 392 | 809 | 875 | 1338 | 1482 | 2020 | 2496 | 2873 | 3268 | 3682 | 4117 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 3.9 | 2.4 / 6 | 2.7 / 6.7 | 3.6 / 9.1 | 4.5 / 11.2 | 5.2 / 12.9 | 5.9 / 14.6 | 6.6 / 16.5 | 7.4 / 18.4 |
| 16 | LL | 45 | 90 | 204 | 417 | 451 | 738 | 863 | 1385 | - | - | - | - | - |
| | TL | 54 | 112 | 261 | 543 | 588 | 969 | 1131 | 1542 | 1984 | 2447 | 2774 | 3114 | 3469 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 2 / 5 | 2.3 / 5.8 | 3.2 / 7.9 | 4.1 / 10.2 | 5 / 12.6 | 5.7 / 14.2 | 6.4 / 16 | 7.1 / 17.8 |
| 18 | LL | | 63 | 144 | 295 | 319 | 524 | 614 | 988 | 1448 | - | - | - | - |
| | TL | | 77 | 181 | 381 | 413 | 683 | 802 | 1215 | 1563 | 1952 | 2381 | 2697 | 2995 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 4 | 1.9 / 4.7 | 2.8 / 7.1 | 3.6 / 9.1 | 4.5 / 11.3 | 5.5 / 13.8 | 6.2 / 15.6 | 6.9 / 17.3 |
| 20 | LL | | 46 | 105 | 216 | 234 | 385 | 451 | 729 | 1072 | 1500 | - | - | - |
| | TL | | 54 | 130 | 276 | 299 | 498 | 585 | 952 | 1262 | 1576 | 1923 | 2302 | 2635 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.5 / 3.8 | 2.5 / 6.2 | 3.3 / 8.2 | 4.1 / 10.2 | 5 / 12.4 | 5.9 / 14.8 | 6.8 / 16.9 |
| 22 | LL | | | 79 | 163 | 177 | 291 | 341 | 552 | 814 | 1143 | 1544 | - | - |
| | TL | | | 95 | 205 | 222 | 372 | 438 | 717 | 1039 | 1298 | 1585 | 1897 | 2236 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 2.1 / 5.1 | 3 / 7.4 | 3.7 / 9.2 | 4.5 / 11.3 | 5.4 / 13.5 | 6.3 / 15.9 |
| 24 | LL | | | 61 | 126 | 136 | 225 | 264 | 428 | 633 | 890 | 1205 | 1581 | - |
| | TL | | | 71 | 155 | 169 | 284 | 336 | 552 | 821 | 1087 | 1327 | 1589 | 1874 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.4 | 2.6 / 6.4 | 3.4 / 8.5 | 4.1 / 10.3 | 4.9 / 12.3 | 5.8 / 14.5 |
| 26 | LL | | | 48 | 99 | 108 | 178 | 208 | 339 | 501 | 706 | 957 | 1259 | - |
| | TL | | | 54 | 120 | 130 | 221 | 261 | 432 | 646 | 916 | 1127 | 1350 | 1592 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.2 / 5.5 | 3.1 / 7.8 | 3.8 / 9.5 | 4.6 / 11.4 | 5.4 / 13.4 |
| 28 | LL | | | | 80 | 86 | 143 | 167 | 272 | 403 | 569 | 773 | 1018 | 1306 |
| | TL | | | | 93 | 102 | 175 | 207 | 344 | 515 | 734 | 968 | 1160 | 1368 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.9 / 4.8 | 2.7 / 6.7 | 3.5 / 8.8 | 4.2 / 10.6 | 5 / 12.5 |
| 30 | LL | | | | 65 | 70 | 116 | 136 | 222 | 329 | 465 | 633 | 834 | 1072 |
| | TL | | | | 74 | 81 | 139 | 165 | 277 | 417 | 595 | 816 | 1006 | 1187 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.2 | 2.4 / 5.9 | 3.2 / 8 | 3.9 / 9.9 | 4.6 / 11.6 |
| 32 | LL | | | | 54 | 58 | 96 | 113 | 184 | 272 | 385 | 524 | 692 | 890 |
| | TL | | | | 59 | 64 | 112 | 134 | 225 | 341 | 488 | 671 | 881 | 1039 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.1 / 5.2 | 2.8 / 7.1 | 3.7 / 9.3 | 4.4 / 10.9 |
| 34 | LL | | | | | 48 | 80 | 94 | 153 | 228 | 322 | 439 | 580 | 747 |
| | TL | | | | | 51 | 91 | 109 | 185 | 281 | 405 | 558 | 743 | 917 |
| | BRG | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.6 | 2.5 / 6.3 | 3.3 / 8.3 | 4.1 / 10.3 |
| 36 | LL | | | | | | 68 | 79 | 129 | 192 | 272 | 371 | 491 | 633 |
| | TL | | | | | | 74 | 89 | 153 | 234 | 338 | 467 | 624 | 810 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.7 | 3 / 7.5 | 3.9 / 9.6 |
| 38 | LL | | | | | | 57 | 68 | 110 | 164 | 232 | 317 | 419 | 540 |
| | TL | | | | | | 61 | 74 | 128 | 196 | 285 | 394 | 528 | 687 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2 / 5.1 | 2.7 / 6.7 | 3.5 / 8.7 |
| 40 | LL | | | | | | 49 | 58 | 95 | 141 | 199 | 272 | 360 | 465 |
| | TL | | | | | | 50 | 61 | 107 | 165 | 241 | 335 | 450 | 587 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.6 | 2.4 / 6.1 | 3.2 / 7.9 |
| 42 | LL | | | | | | | 50 | 82 | 122 | 173 | 236 | 312 | 403 |
| | TL | | | | | | | 50 | 90 | 140 | 205 | 287 | 386 | 504 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 44 | LL | | | | | | | | 71 | 106 | 150 | 205 | 272 | 352 |
| | TL | | | | | | | | 76 | 119 | 176 | 246 | 333 | 436 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.6 |
| 46 | LL | | | | | | | | 62 | 93 | 132 | 180 | 239 | 309 |
| | TL | | | | | | | | 64 | 102 | 151 | 212 | 288 | 378 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.6 | 2.4 / 6 |
| 48 | LL | | | | | | | | 55 | 82 | 116 | 159 | 211 | 272 |
| | TL | | | | | | | | 54 | 87 | 130 | 184 | 250 | 330 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.3 | 2.2 / 5.5 |
| 50 | LL | | | | | | | | | 72 | 103 | 141 | 187 | 241 |
| | TL | | | | | | | | | 74 | 112 | 160 | 218 | 289 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2 / 5.1 |
| 52 | LL | | | | | | | | | 64 | 92 | 125 | 166 | 215 |
| | TL | | | | | | | | | 64 | 97 | 139 | 191 | 253 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.9 / 4.7 |
| 54 | LL | | | | | | | | | 58 | 82 | 112 | 149 | 192 |
| | TL | | | | | | | | | 55 | 84 | 122 | 168 | 223 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.4 |
| 56 | LL | | | | | | | | | | 73 | 100 | 133 | 173 |
| | TL | | | | | | | | | | 73 | 106 | 147 | 197 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.6 / 4.1 |
| 58 | LL | | | | | | | | | | 66 | 91 | 120 | 156 |
| | TL | | | | | | | | | | 63 | 93 | 130 | 174 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

4-Ply, 1.75" 2.3E true RigidLam LVL @ 115% Roof (PLF)
L/240 LL L/180 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 10 | LL | 245 | 481 | 1076 | 2162 | 2332 | - | - | - | - | - | - | - | - |
| | TL | 318 | 631 | 1421 | 2434 | 2559 | 3275 | 3491 | 4260 | 5035 | 5864 | 6754 | 7712 | 8744 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 2.3 / 5.8 | 2.5 / 6.1 | 3.1 / 7.8 | 3.3 / 8.4 | 4.1 / 10.2 | 4.8 / 12.1 | 5.6 / 14 | 6.5 / 16.2 | 7.4 / 18.5 | 8.4 / 20.9 |
| 12 | LL | 142 | 281 | 633 | 1284 | 1387 | 2246 | 2616 | - | - | - | - | - | - |
| | TL | 182 | 364 | 830 | 1685 | 1772 | 2436 | 2697 | 3414 | 4008 | 4636 | 5299 | 6002 | 6747 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.9 / 4.9 | 2 / 5.1 | 2.8 / 7 | 3.1 / 7.8 | 3.9 / 9.8 | 4.6 / 11.5 | 5.3 / 13.3 | 6.1 / 15.2 | 6.9 / 17.3 | 7.8 / 19.4 |
| 14 | LL | 90 | 178 | 403 | 822 | 888 | 1447 | 1690 | - | - | - | - | - | - |
| | TL | 112 | 227 | 523 | 1078 | 1166 | 1784 | 1976 | 2694 | 3328 | 3831 | 4357 | 4910 | 5489 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 3.9 | 2.4 / 6 | 2.7 / 6.7 | 3.6 / 9.1 | 4.5 / 11.2 | 5.2 / 12.9 | 5.9 / 14.6 | 6.6 / 16.5 | 7.4 / 18.4 |
| 16 | LL | 60 | 120 | 271 | 556 | 601 | 984 | 1151 | 1847 | - | - | - | - | - |
| | TL | 73 | 149 | 349 | 725 | 784 | 1292 | 1507 | 2057 | 2645 | 3263 | 3698 | 4152 | 4625 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 2 / 5 | 2.3 / 5.8 | 3.2 / 7.9 | 4.1 / 10.2 | 5 / 12.6 | 5.7 / 14.2 | 6.4 / 16 | 7.1 / 17.8 |
| 18 | LL | | 84 | 192 | 394 | 426 | 699 | 818 | 1318 | 1931 | - | - | - | - |
| | TL | | 102 | 242 | 508 | 550 | 911 | 1069 | 1619 | 2084 | 2602 | 3174 | 3595 | 3994 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 4 | 1.9 / 4.7 | 2.8 / 7.1 | 3.6 / 9.1 | 4.5 / 11.3 | 5.5 / 13.8 | 6.2 / 15.6 | 6.9 / 17.3 |
| 20 | LL | | 62 | 140 | 288 | 312 | 513 | 601 | 972 | 1429 | 2001 | - | - | - |
| | TL | | 72 | 173 | 367 | 398 | 664 | 780 | 1270 | 1682 | 2102 | 2564 | 3070 | 3513 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.5 / 3.8 | 2.5 / 6.2 | 3.3 / 8.2 | 4.1 / 10.2 | 5 / 12.4 | 5.9 / 14.8 | 6.8 / 16.9 |
| 22 | LL | | 46 | 105 | 218 | 235 | 388 | 455 | 737 | 1086 | 1524 | 2059 | - | - |
| | TL | | 52 | 127 | 273 | 296 | 496 | 584 | 956 | 1385 | 1731 | 2113 | 2530 | 2982 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 2.1 / 5.1 | 3 / 7.4 | 3.7 / 9.2 | 4.5 / 11.3 | 5.4 / 13.5 | 6.3 / 15.9 |
| 24 | LL | | | 81 | 168 | 182 | 300 | 352 | 571 | 843 | 1187 | 1606 | 2108 | - |
| | TL | | | 95 | 207 | 225 | 379 | 447 | 736 | 1095 | 1449 | 1769 | 2119 | 2498 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.4 | 2.6 / 6.4 | 3.4 / 8.5 | 4.1 / 10.3 | 4.9 / 12.3 | 5.8 / 14.5 |
| 26 | LL | | | 64 | 132 | 143 | 237 | 278 | 452 | 668 | 941 | 1277 | 1678 | - |
| | TL | | | 72 | 160 | 174 | 295 | 349 | 576 | 861 | 1222 | 1502 | 1800 | 2122 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.2 / 5.5 | 3.1 / 7.8 | 3.8 / 9.5 | 4.6 / 11.4 | 5.4 / 13.4 |
| 28 | LL | | | 51 | 106 | 115 | 190 | 223 | 363 | 538 | 759 | 1030 | 1357 | 1741 |
| | TL | | | 55 | 125 | 136 | 233 | 276 | 458 | 687 | 978 | 1290 | 1546 | 1824 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.9 / 4.8 | 2.7 / 6.7 | 3.5 / 8.8 | 4.2 / 10.6 | 5 / 12.5 |
| 30 | LL | | | | 87 | 94 | 155 | 182 | 296 | 439 | 620 | 843 | 1112 | 1429 |
| | TL | | | | 98 | 107 | 186 | 221 | 369 | 556 | 794 | 1088 | 1342 | 1583 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.2 | 2.4 / 5.9 | 3.2 / 8 | 3.9 / 9.9 | 4.6 / 11.6 |
| 32 | LL | | | | 71 | 77 | 128 | 150 | 245 | 363 | 513 | 699 | 922 | 1187 |
| | TL | | | | 78 | 85 | 150 | 178 | 300 | 454 | 651 | 895 | 1174 | 1386 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.1 / 5.2 | 2.8 / 7.1 | 3.7 / 9.3 | 4.4 / 10.9 |
| 34 | LL | | | | 60 | 65 | 107 | 125 | 204 | 304 | 430 | 585 | 773 | 996 |
| | TL | | | | 62 | 68 | 122 | 145 | 247 | 375 | 539 | 743 | 990 | 1223 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.6 | 2.5 / 6.3 | 3.3 / 8.3 | 4.1 / 10.3 |
| 36 | LL | | | | | 54 | 90 | 106 | 173 | 256 | 363 | 495 | 654 | 843 |
| | TL | | | | | 55 | 99 | 119 | 204 | 312 | 451 | 623 | 832 | 1080 |
| | BRG | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.7 | 3 / 7.5 | 3.9 / 9.6 |
| 38 | LL | | | | | | 77 | 90 | 147 | 218 | 309 | 422 | 559 | 720 |
| | TL | | | | | | 81 | 98 | 170 | 262 | 379 | 526 | 704 | 916 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2 / 5.1 | 2.7 / 6.7 | 3.5 / 8.7 |
| 40 | LL | | | | | | 66 | 77 | 126 | 188 | 266 | 363 | 481 | 620 |
| | TL | | | | | | 67 | 81 | 142 | 221 | 321 | 447 | 600 | 783 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.6 | 2.4 / 6.1 | 3.2 / 7.9 |
| 42 | LL | | | | | | 57 | 67 | 109 | 162 | 230 | 314 | 416 | 538 |
| | TL | | | | | | 55 | 67 | 120 | 187 | 274 | 382 | 514 | 672 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 44 | LL | | | | | | | 58 | 95 | 141 | 201 | 274 | 363 | 469 |
| | TL | | | | | | | 56 | 101 | 159 | 234 | 328 | 443 | 581 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.6 |
| 46 | LL | | | | | | | | 83 | 124 | 176 | 240 | 318 | 411 |
| | TL | | | | | | | | 85 | 136 | 201 | 283 | 384 | 504 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.6 | 2.4 / 6 |
| 48 | LL | | | | | | | | 73 | 109 | 155 | 212 | 281 | 363 |
| | TL | | | | | | | | 72 | 116 | 173 | 245 | 334 | 440 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.3 | 2.2 / 5.5 |
| 50 | LL | | | | | | | | 65 | 97 | 137 | 188 | 249 | 322 |
| | TL | | | | | | | | 61 | 99 | 150 | 213 | 291 | 385 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2 / 5.1 |
| 52 | LL | | | | | | | | 58 | 86 | 122 | 167 | 222 | 287 |
| | TL | | | | | | | | 51 | 85 | 130 | 186 | 255 | 338 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.9 / 4.7 |
| 54 | LL | | | | | | | | | 77 | 109 | 149 | 198 | 256 |
| | TL | | | | | | | | | 73 | 112 | 162 | 224 | 297 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.4 |
| 56 | LL | | | | | | | | | 69 | 98 | 134 | 178 | 230 |
| | TL | | | | | | | | | 62 | 97 | 142 | 196 | 263 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.6 / 4.1 |
| 58 | LL | | | | | | | | | 62 | 88 | 121 | 160 | 207 |
| | TL | | | | | | | | | 53 | 84 | 124 | 173 | 232 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

1-Ply, 1.75" 2.3E true RigidLam LVL @ 125% Roof (PLF)
L/240 LL L/180 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|-----------|-----------|-----------|-----------|------------|------------|-----|-----|-----|-----|-----|
| 6 | LL | 273 | 527 | - | - | - | - | - | - | | | | | |
| | TL | 363 | 695 | 971 | 1309 | 1354 | 1686 | 1814 | 2285 | | | | | |
| | BRG | 1.5 / 3 | 1.6 / 4 | 2.2 / 5.6 | 3 / 7.5 | 3.1 / 7.8 | 3.9 / 9.7 | 4.2 / 10.4 | 5.2 / 13.1 | | | | | |
| 8 | LL | 118 | 231 | 510 | - | - | - | - | - | | | | | |
| | TL | 156 | 305 | 656 | 921 | 950 | 1166 | 1247 | 1538 | | | | | |
| | BRG | 1.5 / 3 | 1.5 / 3 | 2 / 5 | 2.8 / 7 | 2.9 / 7.3 | 3.6 / 8.9 | 3.8 / 9.5 | 4.7 / 11.8 | | | | | |
| 10 | LL | 61 | 120 | 269 | 541 | 583 | - | - | - | | | | | |
| | TL | 80 | 158 | 355 | 662 | 696 | 890 | 949 | 1158 | | | | | |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 2.5 / 6.3 | 2.7 / 6.7 | 3.4 / 8.5 | 3.6 / 9.1 | 4.4 / 11.1 | | | | | |
| 12 | LL | | 70 | 158 | 321 | 347 | 562 | 654 | - | | | | | |
| | TL | | 91 | 208 | 424 | 458 | 662 | 733 | 928 | | | | | |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 2 / 4.9 | 2.1 / 5.3 | 3.1 / 7.6 | 3.4 / 8.4 | 4.3 / 10.7 | | | | | |
| 14 | LL | | 44 | 101 | 205 | 222 | 362 | 422 | 674 | | | | | |
| | TL | | 57 | 131 | 270 | 292 | 477 | 537 | 733 | | | | | |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 3.9 | 2.6 / 6.4 | 2.9 / 7.2 | 3.9 / 9.9 | | | | | |
| 16 | LL | | | 68 | 139 | 150 | 246 | 288 | 462 | | | | | |
| | TL | | | 87 | 181 | 196 | 323 | 378 | 559 | | | | | |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 2 / 5 | 2.3 / 5.8 | 3.4 / 8.6 | | | | | |
| 18 | LL | | | 48 | 98 | 106 | 175 | 205 | 329 | | | | | |
| | TL | | | 60 | 127 | 138 | 228 | 267 | 433 | | | | | |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 4 | 1.9 / 4.7 | 3 / 7.5 | | | | | |
| 20 | LL | | | | 72 | 78 | 128 | 150 | 243 | | | | | |
| | TL | | | | 92 | 100 | 166 | 195 | 317 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.5 / 3.8 | 2.5 / 6.2 | | | | | |
| 22 | LL | | | | 54 | 59 | 97 | 114 | 184 | | | | | |
| | TL | | | | 68 | 74 | 124 | 146 | 239 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 2.1 / 5.1 | | | | | |
| 24 | LL | | | | 42 | 45 | 75 | 88 | 143 | | | | | |
| | TL | | | | 52 | 56 | 95 | 112 | 184 | | | | | |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.4 | | | | | |
| 26 | LL | | | | | | 59 | 69 | 113 | | | | | |
| | TL | | | | | | 74 | 87 | 144 | | | | | |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | | | | | |
| 28 | LL | | | | | | 48 | 56 | 91 | | | | | |
| | TL | | | | | | 58 | 69 | 115 | | | | | |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | | | | | |
| 30 | LL | | | | | | | 45 | 74 | | | | | |
| | TL | | | | | | | 55 | 92 | | | | | |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | | | | | |
| 32 | LL | | | | | | | | 61 | | | | | |
| | TL | | | | | | | | 75 | | | | | |
| | BRG | | | | | | | | 1.5 / 3 | | | | | |
| 34 | LL | | | | | | | | 51 | | | | | |
| | TL | | | | | | | | 62 | | | | | |
| | BRG | | | | | | | | 1.5 / 3 | | | | | |
| 36 | LL | | | | | | | | 43 | | | | | |
| | TL | | | | | | | | 51 | | | | | |
| | BRG | | | | | | | | 1.5 / 3 | | | | | |
| 38 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 40 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 42 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 44 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 46 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 48 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 50 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 52 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |
| 54 | LL | | | | | | | | | | | | | |
| | TL | | | | | | | | | | | | | |
| | BRG | | | | | | | | | | | | | |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

2-Ply, 1.75" 2.3E true RigidLam LVL @ 125% Roof (PLF)
L/240 LL L/180 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|-------------|-------------|
| 6 | LL | 547 | 1054 | - | - | - | - | - | - | - | - | - | - | - |
| | TL | 725 | 1391 | 1943 | 2618 | 2707 | 3373 | 3628 | 4571 | 5585 | 6750 | 8102 | 9688 | 11578 |
| | BRG | 1.5 / 3 | 1.6 / 4 | 2.2 / 5.6 | 3 / 7.5 | 3.1 / 7.8 | 3.9 / 9.7 | 4.2 / 10.4 | 5.2 / 13.1 | 6.4 / 16 | 7.7 / 19.3 | 9.3 / 23.2 | 11.1 / 27.7 | 13.3 / 33.1 |
| 8 | LL | 236 | 461 | 1020 | - | - | - | - | - | - | - | - | - | - |
| | TL | 311 | 610 | 1311 | 1841 | 1901 | 2332 | 2494 | 3076 | 3676 | 4333 | 5057 | 5856 | 6745 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 2 / 5 | 2.8 / 7 | 2.9 / 7.3 | 3.6 / 8.9 | 3.8 / 9.5 | 4.7 / 11.8 | 5.6 / 14.1 | 6.6 / 16.6 | 7.7 / 19.3 | 9 / 22.4 | 10.3 / 25.8 |
| 10 | LL | 122 | 240 | 538 | 1081 | 1166 | - | - | - | - | - | - | - | - |
| | TL | 159 | 315 | 711 | 1323 | 1392 | 1781 | 1898 | 2317 | 2738 | 3189 | 3672 | 4193 | 4754 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 2.5 / 6.3 | 2.7 / 6.7 | 3.4 / 8.5 | 3.6 / 9.1 | 4.4 / 11.1 | 5.2 / 13.1 | 6.1 / 15.3 | 7 / 17.6 | 8 / 20.1 | 9.1 / 22.7 |
| 12 | LL | 71 | 140 | 316 | 642 | 693 | 1123 | 1308 | - | - | - | - | - | - |
| | TL | 91 | 182 | 415 | 848 | 916 | 1325 | 1467 | 1857 | 2180 | 2521 | 2882 | 3264 | 3669 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 2 / 4.9 | 2.1 / 5.3 | 3.1 / 7.6 | 3.4 / 8.4 | 4.3 / 10.7 | 5 / 12.5 | 5.8 / 14.5 | 6.6 / 16.6 | 7.5 / 18.8 | 8.4 / 21.1 |
| 14 | LL | 45 | 89 | 201 | 411 | 444 | 724 | 845 | 1347 | - | - | - | - | - |
| | TL | 56 | 113 | 262 | 539 | 583 | 955 | 1075 | 1465 | 1810 | 2083 | 2370 | 2670 | 2985 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 3.9 | 2.6 / 6.4 | 2.9 / 7.2 | 3.9 / 9.9 | 4.9 / 12.2 | 5.6 / 14 | 6.4 / 15.9 | 7.2 / 17.9 | 8 / 20 |
| 16 | LL | | 60 | 136 | 278 | 301 | 492 | 576 | 923 | 1347 | - | - | - | - |
| | TL | | 75 | 174 | 362 | 392 | 646 | 757 | 1119 | 1439 | 1775 | 2012 | 2258 | 2515 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 2 / 5 | 2.3 / 5.8 | 3.4 / 8.6 | 4.4 / 11.1 | 5.5 / 13.6 | 6.2 / 15.5 | 6.9 / 17.4 | 7.7 / 19.3 |
| 18 | LL | | 42 | 96 | 197 | 213 | 349 | 409 | 659 | 966 | 1347 | - | - | - |
| | TL | | 51 | 121 | 254 | 275 | 455 | 534 | 866 | 1134 | 1416 | 1727 | 1956 | 2172 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 4 | 1.9 / 4.7 | 3 / 7.5 | 3.9 / 9.8 | 4.9 / 12.3 | 6 / 15 | 6.8 / 16.9 | 7.5 / 18.8 |
| 20 | LL | | | 70 | 144 | 156 | 257 | 301 | 486 | 714 | 1000 | 1347 | - | - |
| | TL | | | 87 | 184 | 199 | 332 | 390 | 635 | 916 | 1144 | 1395 | 1670 | 1911 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.5 / 3.8 | 2.5 / 6.2 | 3.5 / 8.9 | 4.4 / 11.1 | 5.4 / 13.5 | 6.4 / 16.1 | 7.4 / 18.4 |
| 22 | LL | | | 53 | 109 | 118 | 194 | 227 | 368 | 543 | 762 | 1029 | 1347 | - |
| | TL | | | 64 | 136 | 148 | 248 | 292 | 478 | 709 | 942 | 1150 | 1377 | 1622 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 2.1 / 5.1 | 3 / 7.6 | 4 / 10 | 4.9 / 12.2 | 5.9 / 14.6 | 6.9 / 17.2 |
| 24 | LL | | | | 84 | 91 | 150 | 176 | 286 | 422 | 593 | 803 | 1054 | 1347 |
| | TL | | | | 103 | 112 | 190 | 224 | 368 | 548 | 774 | 963 | 1154 | 1360 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.4 | 2.6 / 6.4 | 3.6 / 9 | 4.5 / 11.2 | 5.4 / 13.4 | 6.3 / 15.8 |
| 26 | LL | | | | 66 | 72 | 118 | 139 | 226 | 334 | 471 | 638 | 839 | 1075 |
| | TL | | | | 80 | 87 | 147 | 174 | 288 | 430 | 611 | 818 | 980 | 1155 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.2 / 5.5 | 3.1 / 7.8 | 4.1 / 10.4 | 5 / 12.4 | 5.8 / 14.6 |
| 28 | LL | | | | 53 | 58 | 95 | 112 | 182 | 269 | 379 | 515 | 678 | 871 |
| | TL | | | | 62 | 68 | 116 | 138 | 229 | 344 | 489 | 669 | 842 | 993 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.9 / 4.8 | 2.7 / 6.7 | 3.7 / 9.2 | 4.6 / 11.5 | 5.4 / 13.5 |
| 30 | LL | | | | | 47 | 77 | 91 | 148 | 219 | 310 | 422 | 556 | 714 |
| | TL | | | | | 54 | 93 | 110 | 184 | 278 | 397 | 544 | 721 | 862 |
| | BRG | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.2 | 2.4 / 5.9 | 3.2 / 8 | 4.2 / 10.6 | 5.1 / 12.6 |
| 32 | LL | | | | | | 64 | 75 | 122 | 182 | 257 | 349 | 461 | 593 |
| | TL | | | | | | 75 | 89 | 150 | 227 | 326 | 447 | 595 | 755 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.1 / 5.2 | 2.8 / 7.1 | 3.7 / 9.4 | 4.7 / 11.8 |
| 34 | LL | | | | | | 53 | 63 | 102 | 152 | 215 | 293 | 387 | 498 |
| | TL | | | | | | 61 | 73 | 123 | 188 | 270 | 372 | 495 | 642 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.6 | 2.5 / 6.3 | 3.3 / 8.3 | 4.3 / 10.7 |
| 36 | LL | | | | | | | 53 | 86 | 128 | 182 | 247 | 327 | 422 |
| | TL | | | | | | | 60 | 102 | 156 | 225 | 311 | 416 | 540 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.7 | 3 / 7.5 | 3.9 / 9.6 |
| 38 | LL | | | | | | | | 73 | 109 | 155 | 211 | 279 | 360 |
| | TL | | | | | | | | 85 | 131 | 190 | 263 | 352 | 458 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2 / 5.1 | 2.7 / 6.7 | 3.5 / 8.7 |
| 40 | LL | | | | | | | | 63 | 94 | 133 | 182 | 240 | 310 |
| | TL | | | | | | | | 71 | 110 | 161 | 224 | 300 | 391 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.6 | 2.4 / 6.1 | 3.2 / 7.9 |
| 42 | LL | | | | | | | | 55 | 81 | 115 | 157 | 208 | 269 |
| | TL | | | | | | | | 60 | 93 | 137 | 191 | 257 | 336 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 44 | LL | | | | | | | | 48 | 71 | 100 | 137 | 182 | 234 |
| | TL | | | | | | | | 50 | 79 | 117 | 164 | 222 | 290 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.6 |
| 46 | LL | | | | | | | | | 62 | 88 | 120 | 159 | 206 |
| | TL | | | | | | | | | 68 | 101 | 142 | 192 | 252 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.6 | 2.4 / 6 |
| 48 | LL | | | | | | | | | 55 | 77 | 106 | 140 | 182 |
| | TL | | | | | | | | | 58 | 87 | 123 | 167 | 220 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.3 | 2.2 / 5.5 |
| 50 | LL | | | | | | | | | | 69 | 94 | 124 | 161 |
| | TL | | | | | | | | | | 75 | 107 | 146 | 192 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2 / 5.1 |
| 52 | LL | | | | | | | | | | 61 | 83 | 111 | 143 |
| | TL | | | | | | | | | | 65 | 93 | 127 | 169 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.9 / 4.7 |
| 54 | LL | | | | | | | | | | 55 | 75 | 99 | 128 |
| | TL | | | | | | | | | | 56 | 81 | 112 | 149 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.4 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

3-Ply, 1.75" 2.3E true RigidLam LVL @ 125% Roof (PLF)
L/240 LL L/180 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 10 | LL | 184 | 360 | 807 | 1622 | 1749 | - | - | - | - | - | - | - | - |
| | TL | 239 | 473 | 1066 | 1985 | 2087 | 2671 | 2848 | 3475 | 4107 | 4783 | 5509 | 6289 | 7131 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 2.5 / 6.3 | 2.7 / 6.7 | 3.4 / 8.5 | 3.6 / 9.1 | 4.4 / 11.1 | 5.2 / 13.1 | 6.1 / 15.3 | 7 / 17.6 | 8 / 20.1 | 9.1 / 22.7 |
| 12 | LL | 107 | 211 | 475 | 963 | 1040 | 1685 | 1962 | - | - | - | - | - | - |
| | TL | 136 | 273 | 623 | 1271 | 1373 | 1987 | 2200 | 2785 | 3270 | 3781 | 4322 | 4895 | 5503 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 2 / 4.9 | 2.1 / 5.3 | 3.1 / 7.6 | 3.4 / 8.4 | 4.3 / 10.7 | 5 / 12.5 | 5.8 / 14.5 | 6.6 / 16.6 | 7.5 / 18.8 | 8.4 / 21.1 |
| 14 | LL | 68 | 133 | 302 | 616 | 666 | 1086 | 1267 | 2021 | - | - | - | - | - |
| | TL | 84 | 170 | 392 | 809 | 875 | 1432 | 1612 | 2198 | 2715 | 3125 | 3555 | 4005 | 4478 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 3.9 | 2.6 / 6.4 | 2.9 / 7.2 | 3.9 / 9.9 | 4.9 / 12.2 | 5.6 / 14 | 6.4 / 15.9 | 7.2 / 17.9 | 8 / 20 |
| 16 | LL | 45 | 90 | 204 | 417 | 451 | 738 | 863 | 1385 | 2021 | - | - | - | - |
| | TL | 54 | 112 | 261 | 543 | 588 | 969 | 1135 | 1678 | 2158 | 2662 | 3017 | 3387 | 3773 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 2 / 5 | 2.3 / 5.8 | 3.4 / 8.6 | 4.4 / 11.1 | 5.5 / 13.6 | 6.2 / 15.5 | 6.9 / 17.4 | 7.7 / 19.3 |
| 18 | LL | | 63 | 144 | 295 | 319 | 524 | 614 | 988 | 1448 | 2021 | - | - | - |
| | TL | | 77 | 181 | 381 | 413 | 683 | 802 | 1298 | 1701 | 2124 | 2590 | 2934 | 3259 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 4 | 1.9 / 4.7 | 3 / 7.5 | 3.9 / 9.8 | 4.9 / 12.3 | 6 / 15 | 6.8 / 16.9 | 7.5 / 18.8 |
| 20 | LL | | 46 | 105 | 216 | 234 | 385 | 451 | 729 | 1072 | 1500 | 2021 | - | - |
| | TL | | 54 | 130 | 276 | 299 | 498 | 585 | 952 | 1373 | 1716 | 2093 | 2505 | 2867 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.5 / 3.8 | 2.5 / 6.2 | 3.5 / 8.9 | 4.4 / 11.1 | 5.4 / 13.5 | 6.4 / 16.1 | 7.4 / 18.4 |
| 22 | LL | | | 79 | 163 | 177 | 291 | 341 | 552 | 814 | 1143 | 1544 | 2021 | - |
| | TL | | | 95 | 205 | 222 | 372 | 438 | 717 | 1063 | 1413 | 1725 | 2065 | 2434 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 2.1 / 5.1 | 3 / 7.6 | 4 / 10 | 4.9 / 12.2 | 5.9 / 14.6 | 6.9 / 17.2 |
| 24 | LL | | | 61 | 126 | 136 | 225 | 264 | 428 | 633 | 890 | 1205 | 1581 | 2021 |
| | TL | | | 71 | 155 | 169 | 284 | 336 | 552 | 821 | 1162 | 1445 | 1730 | 2040 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.4 | 2.6 / 6.4 | 3.6 / 9 | 4.5 / 11.2 | 5.4 / 13.4 | 6.3 / 15.8 |
| 26 | LL | | | 48 | 99 | 108 | 178 | 208 | 339 | 501 | 706 | 957 | 1259 | 1612 |
| | TL | | | 54 | 120 | 130 | 221 | 261 | 432 | 646 | 916 | 1227 | 1470 | 1733 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.2 / 5.5 | 3.1 / 7.8 | 4.1 / 10.4 | 5 / 12.4 | 5.8 / 14.6 |
| 28 | LL | | | | 80 | 86 | 143 | 167 | 272 | 403 | 569 | 773 | 1018 | 1306 |
| | TL | | | | 93 | 102 | 175 | 207 | 344 | 515 | 734 | 1003 | 1263 | 1490 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.9 / 4.8 | 2.7 / 6.7 | 3.7 / 9.2 | 4.6 / 11.5 | 5.4 / 13.5 |
| 30 | LL | | | | 65 | 70 | 116 | 136 | 222 | 329 | 465 | 633 | 834 | 1072 |
| | TL | | | | 74 | 81 | 139 | 165 | 277 | 417 | 595 | 816 | 1082 | 1293 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.2 | 2.4 / 5.9 | 3.2 / 8 | 4.2 / 10.6 | 5.1 / 12.6 |
| 32 | LL | | | | 54 | 58 | 96 | 113 | 184 | 272 | 385 | 524 | 692 | 890 |
| | TL | | | | 59 | 64 | 112 | 134 | 225 | 341 | 488 | 671 | 892 | 1133 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.1 / 5.2 | 2.8 / 7.1 | 3.7 / 9.4 | 4.7 / 11.8 |
| 34 | LL | | | | | 48 | 80 | 94 | 153 | 228 | 322 | 439 | 580 | 747 |
| | TL | | | | | 51 | 91 | 109 | 185 | 281 | 405 | 558 | 743 | 962 |
| | BRG | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.6 | 2.5 / 6.3 | 3.3 / 8.3 | 4.3 / 10.7 |
| 36 | LL | | | | | | 68 | 79 | 129 | 192 | 272 | 371 | 491 | 633 |
| | TL | | | | | | 74 | 89 | 153 | 234 | 338 | 467 | 624 | 810 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.7 | 3 / 7.5 | 3.9 / 9.6 |
| 38 | LL | | | | | | 57 | 68 | 110 | 164 | 232 | 317 | 419 | 540 |
| | TL | | | | | | 61 | 74 | 128 | 196 | 285 | 394 | 528 | 687 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2 / 5.1 | 2.7 / 6.7 | 3.5 / 8.7 |
| 40 | LL | | | | | | 49 | 58 | 95 | 141 | 199 | 272 | 360 | 465 |
| | TL | | | | | | 50 | 61 | 107 | 165 | 241 | 335 | 450 | 587 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.6 | 2.4 / 6.1 | 3.2 / 7.9 |
| 42 | LL | | | | | | | 50 | 82 | 122 | 173 | 236 | 312 | 403 |
| | TL | | | | | | | 50 | 90 | 140 | 205 | 287 | 386 | 504 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 44 | LL | | | | | | | | 71 | 106 | 150 | 205 | 272 | 352 |
| | TL | | | | | | | | 76 | 119 | 176 | 246 | 333 | 436 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.6 |
| 46 | LL | | | | | | | | 62 | 93 | 132 | 180 | 239 | 309 |
| | TL | | | | | | | | 64 | 102 | 151 | 212 | 288 | 378 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.6 | 2.4 / 6 |
| 48 | LL | | | | | | | | 55 | 82 | 116 | 159 | 211 | 272 |
| | TL | | | | | | | | 54 | 87 | 130 | 184 | 250 | 330 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.3 | 2.2 / 5.5 |
| 50 | LL | | | | | | | | | 72 | 103 | 141 | 187 | 241 |
| | TL | | | | | | | | | 74 | 112 | 160 | 218 | 289 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2 / 5.1 |
| 52 | LL | | | | | | | | | 64 | 92 | 125 | 166 | 215 |
| | TL | | | | | | | | | 64 | 97 | 139 | 191 | 253 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.9 / 4.7 |
| 54 | LL | | | | | | | | | 58 | 82 | 112 | 149 | 192 |
| | TL | | | | | | | | | 55 | 84 | 122 | 168 | 223 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.4 |
| 56 | LL | | | | | | | | | | 73 | 100 | 133 | 173 |
| | TL | | | | | | | | | | 73 | 106 | 147 | 197 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.6 / 4.1 |
| 58 | LL | | | | | | | | | | 66 | 91 | 120 | 156 |
| | TL | | | | | | | | | | 63 | 93 | 130 | 174 |
| | BRG | | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

4-Ply, 1.75" 2.3E true RigidLam LVL @ 125% Roof (PLF)
L/240 LL L/180 TL
Douglas-fir
ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

| Span (ft) | Depth | 4.375" | 5.5" | 7.25" | 9.25" | 9.5" | 11.25" | 11.875" | 14" | 16" | 18" | 20" | 22" | 24" |
|-----------|-------|---------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 10 | LL | 245 | 481 | 1076 | 2162 | 2332 | - | - | - | - | - | - | - | - |
| | TL | 318 | 631 | 1421 | 2647 | 2783 | 3562 | 3797 | 4633 | 5476 | 6377 | 7345 | 8386 | 9509 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 2.5 / 6.3 | 2.7 / 6.7 | 3.4 / 8.5 | 3.6 / 9.1 | 4.4 / 11.1 | 5.2 / 13.1 | 6.1 / 15.3 | 7 / 17.6 | 8 / 20.1 | 9.1 / 22.7 |
| 12 | LL | 142 | 281 | 633 | 1284 | 1387 | 2246 | 2616 | - | - | - | - | - | - |
| | TL | 182 | 364 | 830 | 1695 | 1831 | 2650 | 2933 | 3714 | 4360 | 5042 | 5763 | 6527 | 7337 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 2 / 4.9 | 2.1 / 5.3 | 3.1 / 7.6 | 3.4 / 8.4 | 4.3 / 10.7 | 5 / 12.5 | 5.8 / 14.5 | 6.6 / 16.6 | 7.5 / 18.8 | 8.4 / 21.1 |
| 14 | LL | 90 | 178 | 403 | 822 | 888 | 1447 | 1690 | 2694 | - | - | - | - | - |
| | TL | 112 | 227 | 523 | 1078 | 1166 | 1909 | 2149 | 2931 | 3620 | 4167 | 4740 | 5340 | 5970 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.6 / 3.9 | 2.6 / 6.4 | 2.9 / 7.2 | 3.9 / 9.9 | 4.9 / 12.2 | 5.6 / 14 | 6.4 / 15.9 | 7.2 / 17.9 | 8 / 20 |
| 16 | LL | 60 | 120 | 271 | 556 | 601 | 984 | 1151 | 1847 | 2694 | - | - | - | - |
| | TL | 73 | 149 | 349 | 725 | 784 | 1292 | 1513 | 2238 | 2878 | 3549 | 4023 | 4517 | 5031 |
| | BRG | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 2 / 5 | 2.3 / 5.8 | 3.4 / 8.6 | 4.4 / 11.1 | 5.5 / 13.6 | 6.2 / 15.5 | 6.9 / 17.4 | 7.7 / 19.3 |
| 18 | LL | | 84 | 192 | 394 | 426 | 699 | 818 | 1318 | 1931 | 2694 | - | - | - |
| | TL | | 102 | 242 | 508 | 550 | 911 | 1069 | 1731 | 2268 | 2832 | 3454 | 3912 | 4345 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 4 | 1.9 / 4.7 | 3 / 7.5 | 3.9 / 9.8 | 4.9 / 12.3 | 6 / 15 | 6.8 / 16.9 | 7.5 / 18.8 |
| 20 | LL | | 62 | 140 | 288 | 312 | 513 | 601 | 972 | 1429 | 2001 | 2694 | - | - |
| | TL | | 72 | 173 | 367 | 398 | 664 | 780 | 1270 | 1831 | 2287 | 2791 | 3340 | 3822 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.5 / 3.8 | 2.5 / 6.2 | 3.5 / 8.9 | 4.4 / 11.1 | 5.4 / 13.5 | 6.4 / 16.1 | 7.4 / 18.4 |
| 22 | LL | | 46 | 105 | 218 | 235 | 388 | 455 | 737 | 1086 | 1524 | 2059 | 2694 | - |
| | TL | | 52 | 127 | 273 | 296 | 496 | 584 | 956 | 1418 | 1885 | 2300 | 2753 | 3245 |
| | BRG | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 2.1 / 5.1 | 3 / 7.6 | 4 / 10 | 4.9 / 12.2 | 5.9 / 14.6 | 6.9 / 17.2 |
| 24 | LL | | | 81 | 168 | 182 | 300 | 352 | 571 | 843 | 1187 | 1606 | 2108 | 2694 |
| | TL | | | 95 | 207 | 225 | 379 | 447 | 736 | 1095 | 1549 | 1927 | 2307 | 2719 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.4 | 2.6 / 6.4 | 3.6 / 9 | 4.5 / 11.2 | 5.4 / 13.4 | 6.3 / 15.8 |
| 26 | LL | | | 64 | 132 | 143 | 237 | 278 | 452 | 668 | 941 | 1277 | 1678 | 2150 |
| | TL | | | 72 | 160 | 174 | 295 | 349 | 576 | 861 | 1222 | 1636 | 1960 | 2311 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.2 / 5.5 | 3.1 / 7.8 | 4.1 / 10.4 | 5 / 12.4 | 5.8 / 14.6 |
| 28 | LL | | | 51 | 106 | 115 | 190 | 223 | 363 | 538 | 759 | 1030 | 1357 | 1741 |
| | TL | | | 55 | 125 | 136 | 233 | 276 | 458 | 687 | 978 | 1337 | 1684 | 1986 |
| | BRG | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.9 / 4.8 | 2.7 / 6.7 | 3.7 / 9.2 | 4.6 / 11.5 | 5.4 / 13.5 |
| 30 | LL | | | | 87 | 94 | 155 | 182 | 296 | 439 | 620 | 843 | 1112 | 1429 |
| | TL | | | | 98 | 107 | 186 | 221 | 369 | 556 | 794 | 1088 | 1442 | 1724 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.2 | 2.4 / 5.9 | 3.2 / 8 | 4.2 / 10.6 | 5.1 / 12.6 |
| 32 | LL | | | | 71 | 77 | 128 | 150 | 245 | 363 | 513 | 699 | 922 | 1187 |
| | TL | | | | 78 | 85 | 150 | 178 | 300 | 454 | 651 | 895 | 1189 | 1510 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2.1 / 5.2 | 2.8 / 7.1 | 3.7 / 9.4 | 4.7 / 11.8 |
| 34 | LL | | | | 60 | 65 | 107 | 125 | 204 | 304 | 430 | 585 | 773 | 996 |
| | TL | | | | 62 | 68 | 122 | 145 | 247 | 375 | 539 | 743 | 990 | 1283 |
| | BRG | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.3 | 1.9 / 4.6 | 2.5 / 6.3 | 3.3 / 8.3 | 4.3 / 10.7 |
| 36 | LL | | | | | 54 | 90 | 106 | 173 | 256 | 363 | 495 | 654 | 843 |
| | TL | | | | | 55 | 99 | 119 | 204 | 312 | 451 | 623 | 832 | 1080 |
| | BRG | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.7 / 4.1 | 2.3 / 5.7 | 3 / 7.5 | 3.9 / 9.6 |
| 38 | LL | | | | | | 77 | 90 | 147 | 218 | 309 | 422 | 559 | 720 |
| | TL | | | | | | 81 | 98 | 170 | 262 | 379 | 526 | 704 | 916 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 2 / 5.1 | 2.7 / 6.7 | 3.5 / 8.7 |
| 40 | LL | | | | | | 66 | 77 | 126 | 188 | 266 | 363 | 481 | 620 |
| | TL | | | | | | 67 | 81 | 142 | 221 | 321 | 447 | 600 | 783 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.6 | 2.4 / 6.1 | 3.2 / 7.9 |
| 42 | LL | | | | | | 57 | 67 | 109 | 162 | 230 | 314 | 416 | 538 |
| | TL | | | | | | 55 | 67 | 120 | 187 | 274 | 382 | 514 | 672 |
| | BRG | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.1 | 1.7 / 4.2 | 2.2 / 5.6 | 2.9 / 7.2 |
| 44 | LL | | | | | | | 58 | 95 | 141 | 201 | 274 | 363 | 469 |
| | TL | | | | | | | 56 | 101 | 159 | 234 | 328 | 443 | 581 |
| | BRG | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 | 2 / 5.1 | 2.6 / 6.6 |
| 46 | LL | | | | | | | | 83 | 124 | 176 | 240 | 318 | 411 |
| | TL | | | | | | | | 85 | 136 | 201 | 283 | 384 | 504 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.5 | 1.9 / 4.6 | 2.4 / 6 |
| 48 | LL | | | | | | | | 73 | 109 | 155 | 212 | 281 | 363 |
| | TL | | | | | | | | 72 | 116 | 173 | 245 | 334 | 440 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.7 / 4.3 | 2.2 / 5.5 |
| 50 | LL | | | | | | | | 65 | 97 | 137 | 188 | 249 | 322 |
| | TL | | | | | | | | 61 | 99 | 150 | 213 | 291 | 385 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.6 / 3.9 | 2 / 5.1 |
| 52 | LL | | | | | | | | 58 | 86 | 122 | 167 | 222 | 287 |
| | TL | | | | | | | | 51 | 85 | 130 | 186 | 255 | 338 |
| | BRG | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.7 | 1.9 / 4.7 |
| 54 | LL | | | | | | | | | 77 | 109 | 149 | 198 | 256 |
| | TL | | | | | | | | | 73 | 112 | 162 | 224 | 297 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.4 | 1.8 / 4.4 |
| 56 | LL | | | | | | | | | 69 | 98 | 134 | 178 | 230 |
| | TL | | | | | | | | | 62 | 97 | 142 | 196 | 263 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.2 | 1.6 / 4.1 |
| 58 | LL | | | | | | | | | 62 | 88 | 121 | 160 | 207 |
| | TL | | | | | | | | | 53 | 84 | 124 | 173 | 232 |
| | BRG | | | | | | | | | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3 | 1.5 / 3.8 |

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 750 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 750 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.