

# 2.0E ALLOWABLE UNIFORM LOADS ROOF NON-SNOW 125%

## ALLOWABLE UNIFORM LOADS\* – POUNDS PER LINEAL FOOT – 1 3/4" 2.0E PWLVL

| Span (ft) | Key | One 1 3/4" 2.0E PWLVL |         |           |           |           |           |           |            |
|-----------|-----|-----------------------|---------|-----------|-----------|-----------|-----------|-----------|------------|
|           |     | 3 1/2"                | 5 1/2"  | 7 1/4"    | 9 1/4"    | 9 1/2"    | 11 1/4"   | 11 7/8"   | 14"        |
| 6         | LL  | 129                   | 499     | -         | -         | -         | -         | -         | -          |
|           | TL  | 132                   | 518     | 955       | 1286      | 1330      | 1657      | 1783      | 2246       |
|           | BRG | 1.5 / 3               | 1.5 / 3 | 1.9 / 4.8 | 2.6 / 6.5 | 2.7 / 6.7 | 3.4 / 8.4 | 3.6 / 9   | 4.5 / 11.4 |
| 7         | LL  | -                     | -       | -         | -         | -         | -         | -         | -          |
|           | TL  | 71                    | 278     | 640       | 1062      | 1098      | 1355      | 1452      | 1807       |
|           | BRG | 1.5 / 3               | 1.5 / 3 | 1.5 / 3.8 | 2.5 / 6.3 | 2.6 / 6.5 | 3.2 / 8   | 3.4 / 8.6 | 4.3 / 10.7 |
| 8         | LL  | -                     | -       | -         | -         | -         | -         | -         | -          |
|           | TL  | 162                   | 374     | 905       | 1146      | 1146      | 1225      | 1512      | 1512       |
|           | BRG | 1.5 / 3               | 1.5 / 3 | 1.5 / 3   | 2.4 / 6.1 | 2.5 / 6.3 | 3.1 / 7.7 | 3.3 / 8.3 | 4.1 / 10.2 |
| 9         | LL  | -                     | -       | -         | 704       | 762       | -         | -         | -          |
|           | TL  | 100                   | 232     | 788       | 813       | 813       | 992       | 1059      | 1299       |
|           | BRG | 1.5 / 3               | 1.5 / 3 | 1.5 / 3   | 2.4 / 6   | 2.5 / 6.2 | 3 / 7.5   | 3.2 / 8.1 | 3.9 / 9.9  |
| 10        | LL  | -                     | -       | -         | 513       | 556       | -         | -         | -          |
|           | TL  | 65                    | 151     | 675       | 708       | 708       | 875       | 933       | 1138       |
|           | BRG | 1.5 / 3               | 1.5 / 3 | 1.5 / 3   | 2.3 / 5.7 | 2.4 / 6   | 3 / 7.4   | 3.2 / 7.9 | 3.8 / 9.6  |
| 11        | LL  | -                     | -       | -         | 385       | 418       | 693       | 815       | -          |
|           | TL  | 44                    | 102     | 510       | 552       | 552       | 782       | 833       | 1013       |
|           | BRG | 1.5 / 3               | 1.5 / 3 | 1.5 / 3   | 1.9 / 4.8 | 2.1 / 5.1 | 2.9 / 7.3 | 3.1 / 7.8 | 3.8 / 9.4  |
| 12        | LL  | -                     | -       | -         | 297       | 322       | 534       | 628       | -          |
|           | TL  | -                     | 71      | 392       | 424       | 424       | 666       | 734       | 912        |
|           | BRG | -                     | 1.5 / 3 | 1.5 / 3   | 1.6 / 4   | 1.7 / 4.3 | 2.7 / 6.8 | 3 / 7.5   | 3.7 / 9.3  |
| 13        | LL  | -                     | -       | -         | 233       | 253       | 420       | 494       | 810        |
|           | TL  | -                     | 51      | 307       | 333       | 333       | 555       | 625       | 830        |
|           | BRG | -                     | 1.5 / 3 | 1.5 / 3   | 1.5 / 3.4 | 1.5 / 3.7 | 2.4 / 6.1 | 2.8 / 6.9 | 3.7 / 9.1  |
| 14        | LL  | -                     | -       | -         | 187       | 203       | 336       | 396       | 648        |
|           | TL  | -                     | 37      | 245       | 266       | 266       | 443       | 522       | 724        |
|           | BRG | -                     | 1.5 / 3 | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.2 | 2.1 / 5.3 | 2.5 / 6.2 | 3.4 / 8.6  |
| 15        | LL  | -                     | -       | -         | 152       | 165       | 273       | 322       | 527        |
|           | TL  | -                     | -       | -         | 198       | 215       | 359       | 423       | 630        |
|           | BRG | -                     | -       | -         | 1.5 / 3   | 1.5 / 3   | 1.8 / 4.6 | 2.2 / 5.4 | 3.2 / 8    |
| 16        | LL  | -                     | -       | -         | 125       | 136       | 225       | 265       | 434        |
|           | TL  | -                     | -       | -         | 163       | 177       | 295       | 348       | 553        |
|           | BRG | -                     | -       | -         | 1.5 / 3   | 1.5 / 3   | 1.6 / 4   | 1.9 / 4.8 | 3 / 7.5    |
| 17        | LL  | -                     | -       | -         | 104       | 113       | 188       | 221       | 362        |
|           | TL  | -                     | -       | -         | 135       | 146       | 245       | 289       | 476        |
|           | BRG | -                     | -       | -         | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.6 | 1.7 / 4.2 | 2.8 / 6.9  |
| 18        | LL  | -                     | -       | -         | 88        | 95        | 158       | 186       | 305        |
|           | TL  | -                     | -       | -         | 113       | 123       | 206       | 243       | 400        |
|           | BRG | -                     | -       | -         | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.2 | 1.5 / 3.8 | 2.5 / 6.2  |
| 19        | LL  | -                     | -       | -         | -         | 81        | 135       | 158       | 259        |
|           | TL  | -                     | -       | -         | -         | 104       | 174       | 206       | 339        |
|           | BRG | -                     | -       | -         | -         | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.4 | 2.2 / 5.5  |
| 20        | LL  | -                     | -       | -         | -         | -         | 115       | 136       | 222        |
|           | TL  | -                     | -       | -         | -         | -         | 149       | 175       | 290        |
|           | BRG | -                     | -       | -         | -         | -         | 1.5 / 3   | 1.5 / 3   | 2 / 5      |
| 21        | LL  | -                     | -       | -         | -         | -         | 100       | 117       | 192        |
|           | TL  | -                     | -       | -         | -         | -         | 128       | 151       | 250        |
|           | BRG | -                     | -       | -         | -         | -         | 1.5 / 3   | 1.5 / 3   | 1.8 / 4.5  |
| 22        | LL  | -                     | -       | -         | -         | -         | 87        | 102       | 167        |
|           | TL  | -                     | -       | -         | -         | -         | 110       | 131       | 216        |
|           | BRG | -                     | -       | -         | -         | -         | 1.5 / 3   | 1.5 / 3   | 1.6 / 4.1  |
| 23        | LL  | -                     | -       | -         | -         | -         | 89        | 146       | 146        |
|           | TL  | -                     | -       | -         | -         | -         | 114       | 189       | 189        |
|           | BRG | -                     | -       | -         | -         | -         | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.8  |
| 24        | LL  | -                     | -       | -         | -         | -         | -         | 129       | 129        |
|           | TL  | -                     | -       | -         | -         | -         | -         | 165       | 165        |
|           | BRG | -                     | -       | -         | -         | -         | -         | 1.5 / 3.5 | 1.5 / 3.5  |
| 25        | LL  | -                     | -       | -         | -         | -         | -         | 114       | 114        |
|           | TL  | -                     | -       | -         | -         | -         | -         | 145       | 145        |
|           | BRG | -                     | -       | -         | -         | -         | -         | 1.5 / 3.2 | 1.5 / 3.2  |
| 26        | LL  | -                     | -       | -         | -         | -         | -         | 101       | 101        |
|           | TL  | -                     | -       | -         | -         | -         | -         | 129       | 129        |
|           | BRG | -                     | -       | -         | -         | -         | -         | 1.5 / 3   | 1.5 / 3    |
| 27        | LL  | -                     | -       | -         | -         | -         | -         | 90        | 90         |
|           | TL  | -                     | -       | -         | -         | -         | -         | 114       | 114        |
|           | BRG | -                     | -       | -         | -         | -         | -         | 1.5 / 3   | 1.5 / 3    |
| 28        | LL  | -                     | -       | -         | -         | -         | -         | 81        | 81         |
|           | TL  | -                     | -       | -         | -         | -         | -         | 102       | 102        |
|           | BRG | -                     | -       | -         | -         | -         | -         | 1.5 / 3   | 1.5 / 3    |
| 29        | LL  | -                     | -       | -         | -         | -         | -         | -         | -          |
|           | TL  | -                     | -       | -         | -         | -         | -         | -         | -          |
|           | BRG | -                     | -       | -         | -         | -         | -         | -         | -          |
| 30        | LL  | -                     | -       | -         | -         | -         | -         | -         | -          |
|           | TL  | -                     | -       | -         | -         | -         | -         | -         | -          |
|           | BRG | -                     | -       | -         | -         | -         | -         | -         | -          |

\* Can be applied to the beam in addition to its own weight.  
Simple or multiple beam spans.

2 plies minimum for depths greater than 14 inches.

Wax-based sealer applied to mitigate moisture issues associated with wood products during storage and construction.

### Key to Table:

LL = Maximum live load – limits deflection to L/360

TL = Maximum total load – limits deflections to L/240 (or a maximum of 0.3125" for beams 7 1/4" deep or less)

BRG = Required end / intermediate bearing length (inches), based on bearing stress of 850 psi.

# 2.0E ALLOWABLE UNIFORM LOADS ROOF NON-SNOW 125%

**ALLOWABLE UNIFORM LOADS\* – POUNDS PER LINEAL FOOT – 1 3/4" 2.0E PWLV L**

| Span (ft) | Key | Two 1 3/4" 2.0E PWLV L |         |           |           |           |           |           |            |            |            |            |            |             |
|-----------|-----|------------------------|---------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|-------------|
|           |     | 3 1/2"                 | 5 1/2"  | 7 1/4"    | 9 1/4"    | 9 1/2"    | 11 1/4"   | 11 3/8"   | 14"        | 16"        | 18"        | 20"        | 22"        | 24"         |
| 6         | LL  | 257                    | 998     | -         | -         | -         | -         | -         | -          | -          | -          | -          | -          | -           |
|           | TL  | 265                    | 1035    | 1909      | 2573      | 2661      | 3315      | 3565      | 4492       | 5489       | 6634       | 7962       | 9521       | 11252       |
|           | BRG | 1.5 / 3                | 1.5 / 3 | 1.9 / 4.8 | 2.6 / 6.5 | 2.7 / 6.7 | 3.4 / 8.4 | 3.6 / 9   | 4.5 / 11.4 | 5.5 / 13.9 | 6.7 / 16.8 | 8 / 20.1   | 9.6 / 24.1 | 11.4 / 28.4 |
| 7         | LL  | -                      | -       | -         | -         | -         | -         | -         | -          | -          | -          | -          | -          | -           |
|           | TL  | 141                    | 556     | 1279      | 2125      | 2195      | 2710      | 2905      | 3615       | 4358       | 5188       | 6120       | 7175       | 8298        |
|           | BRG | 1.5 / 3                | 1.5 / 3 | 1.5 / 3.8 | 2.5 / 6.3 | 2.6 / 6.5 | 3.2 / 8   | 3.4 / 8.6 | 4.3 / 10.7 | 5.1 / 12.9 | 6.1 / 15.3 | 7.2 / 18.1 | 8.5 / 21.2 | 9.8 / 24.5  |
| 8         | LL  | -                      | -       | -         | -         | -         | -         | -         | -          | -          | -          | -          | -          | -           |
|           | TL  | -                      | 324     | 747       | 1810      | 1868      | 2292      | 2451      | 3023       | 3613       | 4259       | 4969       | 5755       | 6571        |
|           | BRG | -                      | 1.5 / 3 | 1.5 / 3   | 2.4 / 6.1 | 2.5 / 6.3 | 3.1 / 7.7 | 3.3 / 8.3 | 4.1 / 10.2 | 4.9 / 12.2 | 5.7 / 14.4 | 6.7 / 16.8 | 7.8 / 19.4 | 8.9 / 22.2  |
| 9         | LL  | -                      | -       | -         | 1407      | 1525      | -         | -         | -          | -          | -          | -          | -          | -           |
|           | TL  | -                      | 200     | 464       | 1576      | 1625      | 1985      | 2119      | 2598       | 3084       | 3611       | 4182       | 4803       | 5437        |
|           | BRG | -                      | 1.5 / 3 | 1.5 / 3   | 2.4 / 6   | 2.5 / 6.2 | 3 / 7.5   | 3.2 / 8.1 | 3.9 / 9.9  | 4.7 / 11.7 | 5.5 / 13.7 | 6.4 / 15.9 | 7.3 / 18.2 | 8.3 / 20.6  |
| 10        | LL  | -                      | -       | -         | 1026      | 1111      | -         | -         | -          | -          | -          | -          | -          | -           |
|           | TL  | -                      | 130     | 302       | 1350      | 1416      | 1750      | 1866      | 2277       | 2691       | 3134       | 3609       | 4121       | 4637        |
|           | BRG | -                      | 1.5 / 3 | 1.5 / 3   | 2.3 / 5.7 | 2.4 / 6   | 3 / 7.4   | 3.2 / 7.9 | 3.8 / 9.6  | 4.5 / 11.4 | 5.3 / 13.2 | 6.1 / 15.2 | 7 / 17.4   | 7.8 / 19.6  |
| 11        | LL  | -                      | -       | -         | 771       | 835       | 1387      | 1631      | -          | -          | -          | -          | -          | -           |
|           | TL  | -                      | 87      | 204       | 1019      | 1105      | 1565      | 1666      | 2026       | 2385       | 2767       | 3174       | 3607       | 4041        |
|           | BRG | -                      | 1.5 / 3 | 1.5 / 3   | 1.9 / 4.8 | 2.1 / 5.1 | 2.9 / 7.3 | 3.1 / 7.8 | 3.8 / 9.4  | 4.4 / 11.1 | 5.1 / 12.9 | 5.9 / 14.8 | 6.7 / 16.8 | 7.5 / 18.8  |
| 12        | LL  | -                      | -       | -         | 594       | 643       | 1068      | 1256      | -          | -          | -          | -          | -          | -           |
|           | TL  | -                      | -       | 142       | 783       | 849       | 1331      | 1468      | 1825       | 2142       | 2477       | 2832       | 3207       | 3580        |
|           | BRG | -                      | -       | 1.5 / 3   | 1.6 / 4   | 1.7 / 4.3 | 2.7 / 6.8 | 3 / 7.5   | 3.7 / 9.3  | 4.3 / 10.9 | 5 / 12.6   | 5.7 / 14.4 | 6.5 / 16.3 | 7.3 / 18.2  |
| 13        | LL  | -                      | -       | -         | 467       | 506       | 840       | 988       | -          | -          | -          | -          | -          | -           |
|           | TL  | -                      | -       | 102       | 614       | 666       | 1110      | 1249      | 1660       | 1944       | 2242       | 2556       | 2887       | 3213        |
|           | BRG | -                      | -       | 1.5 / 3   | 1.5 / 3.4 | 1.5 / 3.7 | 2.4 / 6.1 | 2.8 / 6.9 | 3.7 / 9.1  | 4.3 / 10.7 | 4.9 / 12.3 | 5.6 / 14.1 | 6.4 / 15.9 | 7.1 / 17.7  |
| 14        | LL  | -                      | -       | -         | 374       | 405       | 673       | 791       | -          | -          | -          | -          | -          | -           |
|           | TL  | -                      | -       | 74        | 490       | 531       | 887       | 1044      | 1448       | 1779       | 2047       | 2329       | 2624       | 2914        |
|           | BRG | -                      | -       | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.2 | 2.1 / 5.3 | 2.5 / 6.2 | 3.4 / 8.6  | 4.2 / 10.5 | 4.9 / 12.1 | 5.5 / 13.8 | 6.2 / 15.6 | 6.9 / 17.3  |
| 15        | LL  | -                      | -       | -         | 304       | 329       | 547       | 643       | -          | -          | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 397       | 430       | 719       | 847       | 1260       | 1604       | 1884       | 2139       | 2405       | 2665        |
|           | BRG | -                      | -       | -         | 1.5 / 3   | 1.5 / 3   | 1.8 / 4.6 | 2.2 / 5.4 | 3.2 / 8    | 4.1 / 10.2 | 4.8 / 12   | 5.4 / 13.6 | 6.1 / 15.3 | 6.8 / 16.9  |
| 16        | LL  | -                      | -       | -         | 250       | 271       | 451       | 530       | 868        | 1296       | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 326       | 353       | 591       | 696       | 1106       | 1408       | 1742       | 1977       | 2219       | 2456        |
|           | BRG | -                      | -       | -         | 1.5 / 3   | 1.5 / 3   | 1.6 / 4   | 1.9 / 4.8 | 3 / 7.5    | 3.8 / 9.6  | 4.7 / 11.8 | 5.4 / 13.4 | 6 / 15.1   | 6.7 / 16.7  |
| 17        | LL  | -                      | -       | -         | 209       | 226       | 376       | 442       | 724        | 1081       | 1539       | -          | -          | -           |
|           | TL  | -                      | -       | -         | 270       | 293       | 491       | 578       | 953        | 1246       | 1541       | 1838       | 2060       | 2276        |
|           | BRG | -                      | -       | -         | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.6 | 1.7 / 4.2 | 2.8 / 6.9  | 3.6 / 9    | 4.5 / 11.1 | 5.3 / 13.3 | 5.9 / 14.9 | 6.6 / 16.4  |
| 18        | LL  | -                      | -       | -         | 176       | 191       | 316       | 372       | 610        | 910        | 1296       | -          | -          | -           |
|           | TL  | -                      | -       | -         | 226       | 245       | 412       | 485       | 800        | 1110       | 1373       | 1662       | 1922       | 2121        |
|           | BRG | -                      | -       | -         | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.2 | 1.5 / 3.8 | 2.5 / 6.2  | 3.4 / 8.5  | 4.2 / 10.5 | 5.1 / 12.7 | 5.9 / 14.7 | 6.5 / 16.2  |
| 19        | LL  | -                      | -       | -         | 162       | 269       | 316       | 519       | 774        | 1102       | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 207       | 349       | 411       | 679       | 994        | 1231       | 1489       | 1770       | 1986       |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3   | 1.5 / 3   | 1.5 / 3.4 | 2.2 / 5.5  | 3.2 / 8.1  | 4 / 10     | 4.8 / 12   | 5.7 / 14.3 | 6.4 / 16    |
| 20        | LL  | -                      | -       | -         | 231       | 271       | 445       | 664       | 945        | 1296       | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 297       | 351       | 580       | 870       | 1109       | 1342       | 1595       | 1850       |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3   | 1.5 / 3   | 2 / 5     | 3 / 7.4    | 3.8 / 9.5  | 4.6 / 11.4 | 5.4 / 13.6 | 6.3 / 15.7 |             |
| 21        | LL  | -                      | -       | -         | 199       | 234       | 384       | 573       | 816        | 1120       | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 255       | 302       | 499       | 750       | 1005       | 1216       | 1445       | 1676       |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3   | 1.5 / 3   | 1.8 / 4.5 | 2.7 / 6.7  | 3.6 / 9    | 4.4 / 10.9 | 5.2 / 12.9 | 6 / 15     |             |
| 22        | LL  | -                      | -       | -         | 173       | 204       | 334       | 499       | 710        | 974        | 1296       | -          | -          | -           |
|           | TL  | -                      | -       | -         | 221       | 261       | 433       | 650       | 914        | 1106       | 1315       | 1525       |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3   | 1.5 / 3   | 1.6 / 4.1 | 2.5 / 6.1  | 3.4 / 8.6  | 4.2 / 10.4 | 4.9 / 12.3 | 5.7 / 14.3 |             |
| 23        | LL  | -                      | -       | -         | 178       | 292       | 436       | 621       | 852        | 1134       | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 227       | 377       | 567       | 812       | 1011       | 1201       | 1393       |            |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3   | 1.5 / 3.8 | 2.2 / 5.6 | 3.2 / 8    | 4 / 9.9    | 4.7 / 11.8 | 5.5 / 13.7 |            |             |
| 24        | LL  | -                      | -       | -         | 257       | 384       | 547       | 750       | 998        | 1276       | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 330       | 498       | 713       | 927       | 1102       | 1278       |            |            |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3.5 | 2.1 / 5.2 | 2.9 / 7.4 | 3.8 / 9.5  | 4.5 / 11.3 | 5.2 / 13.1 |            |            |             |
| 25        | LL  | -                      | -       | -         | 228       | 340       | 484       | 664       | 883        | 1129       | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 291       | 439       | 629       | 853       | 1014       | 1176       |            |            |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3.2 | 1.9 / 4.8 | 2.7 / 6.8 | 3.7 / 9.1  | 4.3 / 10.9 | 5 / 12.6   |            |            |             |
| 26        | LL  | -                      | -       | -         | 202       | 302       | 430       | 590       | 785        | 1004       | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 257       | 388       | 557       | 769       | 936        | 1086       |            |            |            |             |
|           | BRG | -                      | -       | -         | 1.5 / 3   | 1.8 / 4.4 | 2.5 / 6.3 | 3.4 / 8.6 | 4.2 / 10.4 | 4.8 / 12.1 |            |            |            |             |
| 27        | LL  | -                      | -       | -         | 181       | 270       | 384       | 527       | 701        | 896        | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 228       | 345       | 496       | 684       | 866        | 1005       |            |            |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3   | 1.6 / 4.1 | 2.3 / 5.8 | 3.2 / 8    | 4 / 10.1   | 4.7 / 11.6 |            |            |             |
| 28        | LL  | -                      | -       | -         | 162       | 242       | 344       | 472       | 629        | 804        | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 203       | 308       | 443       | 612       | 804        | 933        |            |            |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3   | 1.5 / 3.8 | 2.2 / 5.4 | 3 / 7.4    | 3.9 / 9.7  | 4.5 / 11.2 |            |            |             |
| 29        | LL  | -                      | -       | -         | 218       | 310       | 425       | 566       | 723        | -          | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 276       | 397       | 549       | 735       | 868        |            |            |            |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3.5 | 2 / 5     | 2.8 / 6.9 | 3.7 / 9.2  | 4.3 / 10.8 |            |            |            |             |
| 30        | LL  | -                      | -       | -         | 197       | 280       | 384       | 511       | 653        | -          | -          | -          | -          | -           |
|           | TL  | -                      | -       | -         | 248       | 357       | 494       | 662       | 810        |            |            |            |            |             |
|           | BRG | -                      | -       | -         | -         | 1.5 / 3.3 | 1.9 / 4.7 | 2.6 / 6.5 | 3.4 / 8.6  | 4.2 / 10.5 |            |            |            |             |

\* Can be applied to the beam in addition to its own weight. Simple or multiple beam spans.

**Key to Table:**

- LL = Maximum live load – limits deflection to L/240
- TL = Maximum total load – limits deflections to L/180 (or a maximum of 0.3125" for beams 7 1/4" deep or less)
- BRG = Required end / intermediate bearing length (inches), based on bearing stress of 850 psi.

# 2.0E ALLOWABLE UNIFORM LOADS ROOF NON-SNOW 125%

## ALLOWABLE UNIFORM LOADS\* – POUNDS PER LINEAL FOOT – 1 3/4" 2.0E PWLV

| Span (ft) | Key | Three 1 3/4" 2.0E PWLV |         |         |         |          |          |          |          |          |          |          |          |           |
|-----------|-----|------------------------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|           |     | 3 1/2"                 | 5 1/2"  | 7 1/4"  | 9 1/4"  | 9 1/2"   | 11 1/4"  | 11 3/8"  | 14"      | 16"      | 18"      | 20"      | 22"      | 24"       |
| 6         | LL  | 386                    | 1498    | -       | -       | -        | -        | -        | -        | -        | -        | -        | -        |           |
|           | TL  | 397                    | 1553    | 2864    | 3859    | 3991     | 4972     | 5348     | 6738     | 8233     | 9950     | 11943    | 14282    | 16878     |
|           | BRG | 1.5/3                  | 1.5/3   | 1.9/4.8 | 2.6/6.5 | 2.7/6.7  | 3.4/8.4  | 3.6/9    | 4.5/11.4 | 5.5/13.9 | 6.7/16.8 | 8/20.1   | 9.6/24.1 | 11.4/28.4 |
| 7         | LL  | -                      | -       | -       | -       | -        | -        | -        | -        | -        | -        | -        | -        | -         |
|           | TL  | 212                    | 835     | 1919    | 3187    | 3293     | 4065     | 4357     | 5422     | 6537     | 7782     | 9180     | 10763    | 12447     |
|           | BRG | 1.5/3                  | 1.5/3   | 1.5/3.8 | 2.5/6.3 | 2.6/6.5  | 3.2/8    | 3.4/8.6  | 4.3/10.7 | 5.1/12.9 | 6.1/15.3 | 7.2/18.1 | 8.5/21.2 | 9.8/24.5  |
| 8         | LL  | -                      | -       | -       | -       | -        | -        | -        | -        | -        | -        | -        | -        | -         |
|           | TL  | 486                    | 1121    | 2715    | 2802    | 3438     | 3676     | 4535     | 5419     | 6388     | 7454     | 8632     | 9856     |           |
|           | BRG | 1.5/3                  | 1.5/3   | 2.4/6.1 | 2.5/6.3 | 3.1/7.7  | 3.3/8.3  | 4.1/10.2 | 4.9/12.2 | 5.7/14.4 | 6.7/16.8 | 7.8/19.4 | 8.9/22.2 |           |
| 9         | LL  | -                      | -       | 2111    | 2287    | -        | -        | -        | -        | -        | -        | -        | -        | -         |
|           | TL  | 301                    | 696     | 2363    | 2438    | 2977     | 3178     | 3896     | 4627     | 5416     | 6273     | 7205     | 8156     |           |
|           | BRG | 1.5/3                  | 1.5/3   | 2.4/6   | 2.5/6.2 | 3/7.5    | 3.2/8.1  | 3.9/9.9  | 4.7/11.7 | 5.5/13.7 | 6.4/15.9 | 7.3/18.2 | 8.3/20.6 |           |
| 10        | LL  | -                      | -       | 1539    | 1667    | -        | -        | -        | -        | -        | -        | -        | -        | -         |
|           | TL  | 195                    | 453     | 2025    | 2125    | 2625     | 2799     | 3415     | 4036     | 4700     | 5414     | 6181     | 6955     |           |
|           | BRG | 1.5/3                  | 1.5/3   | 2.3/5.7 | 2.4/6   | 3/7.4    | 3.2/7.9  | 3.8/9.6  | 4.5/11.4 | 5.3/13.2 | 6.1/15.2 | 7/17.4   | 7.8/19.6 |           |
| 11        | LL  | -                      | -       | 1156    | 1253    | 2080     | 2446     | -        | -        | -        | -        | -        | -        | -         |
|           | TL  | 131                    | 306     | 1529    | 1657    | 2347     | 2500     | 3039     | 3578     | 4151     | 4761     | 5411     | 6061     |           |
|           | BRG | 1.5/3                  | 1.5/3   | 1.9/4.8 | 2.1/5.1 | 2.9/7.3  | 3.1/7.8  | 3.8/9.4  | 4.4/11.1 | 5.1/12.9 | 5.9/14.8 | 6.7/16.8 | 7.5/18.8 |           |
| 12        | LL  | -                      | -       | 891     | 965     | 1602     | 1884     | -        | -        | -        | -        | -        | -        | -         |
|           | TL  | 1175                   | 1273    | 1997    | 2202    | 2737     | 3213     | 3716     | 4248     | 4811     | 5370     | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.6/4   | 1.7/4.3 | 2.7/6.8 | 3/7.5    | 3.7/9.3  | 4.3/10.9 | 5/12.6   | 5.7/14.4 | 6.5/16.3 | 7.3/18.2 | -        | -         |
| 13        | LL  | -                      | -       | 700     | 759     | 1260     | 1482     | 2429     | -        | -        | -        | -        | -        | -         |
|           | TL  | 152                    | 921     | 999     | 1665    | 1874     | 2490     | 2916     | 3363     | 3834     | 4330     | 4819     | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3.4 | 1.5/3.7 | 2.4/6.1 | 2.8/6.9  | 3.7/9.1  | 4.3/10.7 | 4.9/12.3 | 5.6/14.1 | 6.4/15.9 | 7.1/17.7 | -        | -         |
| 14        | LL  | -                      | -       | 608     | 1009    | 1187     | 1944     | -        | -        | -        | -        | -        | -        | -         |
|           | TL  | 111                    | 735     | 797     | 1330    | 1566     | 2173     | 2668     | 3071     | 3493     | 3936     | 4371     | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 1.5/3.2 | 2.1/5.3 | 2.5/6.2  | 3.4/8.6  | 4.2/10.5 | 4.9/12.1 | 5.5/13.8 | 6.2/15.6 | 6.9/17.3 | -        | -         |
| 15        | LL  | -                      | -       | 456     | 494     | 820      | 965      | 1581     | 2360     | -        | -        | -        | -        | -         |
|           | TL  | 595                    | 646     | 1078    | 1270    | 1890     | 2406     | 2825     | 3208     | 3607     | 3998     | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 1.8/4.6 | 2.2/5.4 | 3.2/8    | 4.1/10.2 | 4.8/12   | 5.4/13.6 | 6.1/15.3 | 6.8/16.9 | -        | -        | -         |
| 16        | LL  | -                      | -       | 376     | 407     | 676      | 795      | 1303     | 1944     | -        | -        | -        | -        | -         |
|           | TL  | 488                    | 530     | 886     | 1044    | 1659     | 2112     | 2613     | 2965     | 3329     | 3684     | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 1.6/4   | 1.9/4.8 | 3/7.5    | 3.8/9.6  | 4.7/11.8 | 5.4/13.4 | 6/15.1   | 6.7/16.7 | -        | -        | -         |
| 17        | LL  | -                      | -       | 313     | 339     | 564      | 663      | 1086     | 1621     | 2308     | -        | -        | -        | -         |
|           | TL  | 405                    | 439     | 736     | 867     | 1429     | 1869     | 2312     | 2756     | 3090     | 3415     | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 1.5/3.6 | 1.7/4.2 | 2.8/6.9  | 3.6/9    | 4.5/11.1 | 5.3/13.3 | 5.9/14.9 | 6.6/16.4 | -        | -        | -         |
| 18        | LL  | -                      | -       | 264     | 286     | 475      | 558      | 915      | 1366     | 1944     | -        | -        | -        | -         |
|           | TL  | 339                    | 368     | 618     | 728     | 1201     | 1664     | 2060     | 2492     | 2883     | 3182     | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 1.5/3.2 | 1.5/3.8 | 2.5/6.2  | 3.4/8.5  | 4.2/10.5 | 5.1/12.7 | 5.9/14.7 | 6.5/16.2 | -        | -        | -         |
| 19        | LL  | -                      | -       | 243     | 404     | 475      | 778      | 1161     | 1653     | -        | -        | -        | -        | -         |
|           | TL  | 311                    | 523     | 617     | 1018    | 1491     | 1846     | 2234     | 2655     | 2979     | -        | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 1.5/3.4 | 2.2/5.5 | 3.2/8.1  | 4/10     | 4.8/12   | 5.7/14.3 | 6.4/16   | -        | -        | -        | -         |
| 20        | LL  | -                      | -       | 346     | 407     | 667      | 996      | 1418     | 1944     | -        | -        | -        | -        | -         |
|           | TL  | 446                    | 526     | 870     | 1306    | 1664     | 2014     | 2393     | 2775     | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 2/5     | 3/7.4   | 3.8/9.5  | 4.6/11.4 | 5.4/13.6 | 6.3/15.7 | -        | -        | -        | -        | -         |
| 21        | LL  | -                      | -       | 299     | 352     | 576      | 860      | 1224     | 1680     | -        | -        | -        | -        | -         |
|           | TL  | 383                    | 453     | 749     | 1125    | 1507     | 1824     | 2168     | 2514     | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 1.8/4.5 | 2.7/6.7 | 3.6/9    | 4.4/10.9 | 5.2/12.9 | 6/15     | -        | -        | -        | -        | -         |
| 22        | LL  | -                      | -       | 260     | 306     | 501      | 748      | 1065     | 1461     | 1944     | -        | -        | -        | -         |
|           | TL  | 331                    | 392     | 649     | 975     | 1371     | 1659     | 1972     | 2287     | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3   | 1.6/4.1 | 2.5/6.1 | 3.4/8.6  | 4.2/10.4 | 4.9/12.3 | 5.7/14.3 | -        | -        | -        | -        | -         |
| 23        | LL  | -                      | -       | 268     | 439     | 655      | 932      | 1279     | 1702     | -        | -        | -        | -        | -         |
|           | TL  | 341                    | 566     | 851     | 1218    | 1516     | 1802     | 2090     | -        | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3.8 | 2.2/5.6 | 3.2/8   | 4/9.9    | 4.7/11.8 | 5.5/13.7 | -        | -        | -        | -        | -        | -         |
| 24        | LL  | -                      | -       | 386     | 576     | 820      | 1125     | 1498     | 1914     | -        | -        | -        | -        | -         |
|           | TL  | 496                    | 746     | 1069    | 1390    | 1653     | 1917     | -        | -        | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3.5                | 2.1/5.2 | 2.9/7.4 | 3.8/9.5 | 4.5/11.3 | 5.2/13.1 | -        | -        | -        | -        | -        | -        | -         |
| 25        | LL  | -                      | -       | 341     | 510     | 726      | 996      | 1325     | 1694     | -        | -        | -        | -        | -         |
|           | TL  | 436                    | 658     | 943     | 1279    | 1521     | 1764     | -        | -        | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3.2                | 1.9/4.8 | 2.7/6.8 | 3.7/9.1 | 4.3/10.9 | 5/12.6   | -        | -        | -        | -        | -        | -        | -         |
| 26        | LL  | -                      | -       | 304     | 453     | 645      | 885      | 1178     | 1506     | -        | -        | -        | -        | -         |
|           | TL  | 386                    | 582     | 836     | 1153    | 1404     | 1628     | -        | -        | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.8/4.4 | 2.5/6.3 | 3.4/8.6 | 4.2/10.4 | 4.8/12.1 | -        | -        | -        | -        | -        | -        | -         |
| 27        | LL  | -                      | -       | 271     | 405     | 576      | 790      | 1052     | 1344     | -        | -        | -        | -        | -         |
|           | TL  | 342                    | 518     | 744     | 1026    | 1299     | 1508     | -        | -        | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.6/4.1 | 2.3/5.8 | 3.2/8   | 4/10.1   | 4.7/11.6 | -        | -        | -        | -        | -        | -        | -         |
| 28        | LL  | -                      | -       | 243     | 363     | 517      | 709      | 943      | 1205     | -        | -        | -        | -        | -         |
|           | TL  | 305                    | 462     | 664     | 918     | 1206     | 1400     | -        | -        | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3                  | 1.5/3.8 | 2.2/5.4 | 3/7.4   | 3.9/9.7  | 4.5/11.2 | -        | -        | -        | -        | -        | -        | -         |
| 29        | LL  | -                      | -       | 327     | 465     | 638      | 849      | 1085     | -        | -        | -        | -        | -        | -         |
|           | TL  | 414                    | 595     | 823     | 1102    | 1303     | -        | -        | -        | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3.5                | 2/5     | 2.8/6.9 | 3.7/9.2 | 4.3/10.8 | -        | -        | -        | -        | -        | -        | -        | -         |
| 30        | LL  | -                      | -       | 295     | 420     | 576      | 767      | 980      | -        | -        | -        | -        | -        | -         |
|           | TL  | 371                    | 535     | 741     | 992     | 1215     | -        | -        | -        | -        | -        | -        | -        | -         |
|           | BRG | 1.5/3.3                | 1.9/4.7 | 2.6/6.5 | 3.4/8.6 | 4.2/10.5 | -        | -        | -        | -        | -        | -        | -        | -         |

\* Can be applied to the beam in addition to its own weight. Simple or multiple beam spans.

### Key to Table:

- LL = Maximum live load – limits deflection to L/240
- TL = Maximum total load – limits deflections to L/180 (or a maximum of 0.3125" for beams 7/8" deep or less)
- BRG = Required end / intermediate bearing length (inches), based on bearing stress of 850 psi.