

| Bar Size       | Symbol /<br>Apprx. Wgt***<br>Lbs/Sq. Ft. |               | Ped.<br>Span | Sec. Mod.<br>Per Ft.<br>Of Width |      | Clear Span |       |       |       |       |       |       |   |   |   |       |     |     |
|----------------|--|---------------|--------------|----------------------------------|------|------------|-------|-------|-------|-------|-------|-------|---|---|---|-------|-----|-----|
|                | 2'-0"                                    | 2'-6"         |              |                                  |      | 3'-0"      | 3'-6" | 4'-0" | 4'-6" | 5'-0" | 5'-6" | 6'-0" | 6'-6"   | 7'-0"   | 8'-0"   | 9'-0" |     |     |
| 3/4" x 1/8"    | 10W4<br>6.8#                             | 10P4<br>7.2#  | 48"          | .225                             | U    | 675        | 432   | 300   | 220   | 169   | 133   | 108   | U=Safe uniform load, lb/sq ft<br>C=Safe concentrated load, lb/ft of grating<br>width, at mid-span<br>D=Deflection in inches |   |   |       |     |     |
|                | D  | .099          |              |                                  | .155 | .223       | .304  | .397  | .503  | .621  |       |       |   |   |   |       |     |     |
|                | C  | 675           |              |                                  | 540  | 450        | 386   | 338   | 300   | 270   |       |       |   |   |   |       |     |     |
|                | D  | .079          |              |                                  | .124 | .179       | .243  | .318  | .402  | .497  |       |       |   |   |   |       |     |     |
| 3/4" x 3/16"   | 10W4<br>9.9#                             | 10P4<br>10.7# | 54"          | .338                             | U    | 1013       | 648   | 450   | 331   | 253   | 200   | 162   | 134   | Data is theoretical and based on<br>18,000 psi.<br><br>Install Cross Rods on Top. |   |       |     |     |
|                | D  | .099          |              |                                  | .155 | .223       | .304  | .397  | .503  | .621  | .751  |       |   |   |   |       |     |     |
|                | C  | 1013          |              |                                  | 810  | 675        | 579   | 506   | 450   | 405   | 368   |       |   |   |   |       |     |     |
|                | D  | .079          |              |                                  | .124 | .179       | .243  | .318  | 402   | 497   | .601  |       |   |   |   |       |     |     |
| 1" x 1/8"      | 10W4<br>8.8#                             | 10P4<br>9.2#  | 60"          | .400                             | U    | 1200       | 768   | 533   | 392   | 300   | 237   | 192   | 159   | 133   | % Open Area <sup>1</sup><br>Bars    1/8"    3/16"<br>4"cc    73%    63%<br>2"cc    67%    57%<br><sup>1</sup> Open Area % for<br>reference only - %'s<br>will vary with material<br>& mfg. process. |       |     |     |
|                | D  | .074          |              |                                  | .116 | .168       | .228  | .298  | .377  | .466  | .563  | .670  |   |   |   |       |     |     |
|                | C  | 1200          |              |                                  | 960  | 800        | 686   | 600   | 533   | 480   | 436   | 400   |   |   |   |       |     |     |
|                | D  | .060          |              |                                  | .093 | .134       | .182  | .238  | .302  | .372  | .451  | .536  |   |   |   |       |     |     |
| 1" x 3/16"     | 10W4<br>13.0#                            | 10P4<br>13.8# | 67"          | .600                             | U    | 1800       | 1152  | 800   | 588   | 450   | 356   | 288   | 238   | 200   | 170   |       |     |     |
|                | D  | .074          |              |                                  | .116 | .168       | .228  | .298  | .377  | .466  | .563  | .670  | .787  |   |   |       |     |     |
|                | C  | 1800          |              |                                  | 1440 | 1200       | 1029  | 900   | 800   | 720   | 655   | 600   | 554   |   |   |       |     |     |
|                | D  | .060          |              |                                  | .093 | .134       | .182  | .238  | .302  | .372  | .451  | .536  | .629  |   |   |       |     |     |
| 1-1/4" x 1/8"  | 10W4<br>10.9#                            | 10P4<br>11.6# | 71"          | .625                             | U    | 1875       | 1200  | 833   | 612   | 469   | 370   | 300   | 248   | 208   | 178   | 153   |     |     |
|                | D  | .060          |              |                                  | .093 | .134       | .182  | .238  | .302  | .372  | .451  | .536  | .629  | .730  |   |       |     |     |
|                | C  | 1875          |              |                                  | 1500 | 1250       | 1071  | 938   | 833   | 750   | 682   | 625   | 577   | 536   |   |       |     |     |
|                | D  | .048          |              |                                  | .074 | .107       | .146  | .191  | .241  | .298  | .360  | .429  | .504  | .584  |   |       |     |     |
| 1-1/4" x 3/16" | 10W4<br>16.1#                            | 10P4<br>17.4# | 79"          | .938                             | U    | 2813       | 1800  | 1250  | 918   | 703   | 556   | 450   | 372   | 313   | 266   | 230   | 176 |     |
|                | D  | .060          |              |                                  | .093 | .134       | .182  | .238  | .302  | .372  | .451  | .536  | .629  | .730  | .953  |       |     |     |
|                | C  | 2813          |              |                                  | 2250 | 1875       | 1607  | 1406  | 1250  | 1125  | 1023  | 938   | 865   | 804   | 703   |       |     |     |
|                | D  | .048          |              |                                  | .074 | .107       | .146  | .191  | .241  | .298  | .360  | .429  | .504  | .584  | .763  |       |     |     |
| 1-1/2" x 1/8"  | 10W4<br>13.0#                            | 10P4<br>13.7# | 82"          | .900                             | U    | 2700       | 1728  | 1200  | 882   | 675   | 533   | 432   | 357   | 300   | 256   | 220   | 169 | 133 |
|                | D  | .050          |              |                                  | .078 | .112       | .152  | .199  | .251  | .310  | .376  | .447  | .524  | .608  | .794  | 1.006 |     |     |
|                | C  | 2700          |              |                                  | 2160 | 1800       | 1543  | 1350  | 1200  | 1080  | 982   | 900   | 831   | 771   | 675   | 600   |     |     |
|                | D  | .040          |              |                                  | .062 | .089       | .122  | .159  | .201  | .248  | .300  | .358  | .420  | .487  | .636  | .804  |     |     |
| 1-1/2" x 3/16" | 10W4<br>19.2#                            | 10P4<br>20.5# | 91"          | 1.350                            | U    | 4050       | 2592  | 1800  | 1322  | 1013  | 800   | 648   | 536   | 450   | 383   | 331   | 253 | 200 |
|                | D  | .050          |              |                                  | .078 | .112       | .152  | .199  | .251  | .310  | .376  | .447  | .524  | .608  | .794  | 1.006 |     |     |
|                | C  | 4050          |              |                                  | 3240 | 2700       | 2314  | 2025  | 1800  | 1620  | 1473  | 1350  | 1246  | 1157  | 1013  | 900   |     |     |
|                | D  | .040          |              |                                  | .062 | .089       | .122  | .159  | .201  | .248  | .300  | .358  | .420  | .487  | .636  | .804  |     |     |
| 1-3/4" x 3/16" | 10W4<br>22.3#                            | 10P4<br>23.6# | 102"         | 1.838                            | U    | 5513       | 3528  | 2450  | 1800  | 1378  | 1089  | 882   | 729   | 613   | 522   | 450   | 345 | 272 |
|                | D  | .043          |              |                                  | .067 | .096       | .130  | .170  | .215  | .266  | .322  | .383  | .450  | .521  | .681  | .862  |     |     |
|                | C  | 5513          |              |                                  | 4410 | 3675       | 3150  | 2756  | 2450  | 2205  | 2005  | 1838  | 1696  | 1575  | 1378  | 1225  |     |     |
|                | D  | .034          |              |                                  | .053 | .077       | .104  | .136  | .172  | .213  | .257  | .306  | .360  | .417  | .545  | .689  |     |     |
| 2" x 3/16"     | 10W4<br>25.4#                            | 10P4<br>26.7# | 112"         | 2.400                            | U    | 7200       | 4608  | 3200  | 2351  | 1800  | 1422  | 1152  | 952   | 800   | 682   | 588   | 450 | 356 |
|                | D  | .037          |              |                                  | .058 | .084       | .114  | .149  | .189  | .233  | .282  | .335  | .393  | .456  | .596  | .754  |     |     |
|                | C  | 7200          |              |                                  | 5760 | 4800       | 4114  | 3600  | 3200  | 2880  | 2618  | 2400  | 2215  | 2057  | 1800  | 1600  |     |     |
|                | D  | .030          |              |                                  | .047 | .067       | .091  | .119  | .151  | .186  | .225  | .268  | .315  | .365  | .477  | .603  |     |     |
| 2-1/4" x 3/16" | 10W4<br>28.5#                            | 10P4<br>29.8# | 123"         | 3.038                            | U    | 9113       | 5832  | 4050  | 2976  | 2278  | 1800  | 1458  | 1205  | 1013  | 863   | 744   | 570 | 450 |
|                | D  | .033          |              |                                  | .052 | .074       | .101  | .132  | .168  | .207  | .250  | .298  | .350  | .406  | .530  | .670  |     |     |
|                | C  | 9113          |              |                                  | 7290 | 6075       | 5207  | 4556  | 4050  | 3645  | 3314  | 3038  | 2804  | 2604  | 2278  | 2025  |     |     |
|                | D  | .026          |              |                                  | .041 | .060       | .081  | .106  | .134  | .166  | .200  | .238  | .280  | .324  | .424  | .536  |     |     |
| 2-1/2" x 3/16" | 10W4<br>31.6#                            | 10P4<br>32.9# | 133"         | 3.750                            | U    | 11250      | 7200  | 5000  | 3673  | 2813  | 2222  | 1800  | 1488  | 1250  | 1065  | 918   | 703 | 556 |
|                | D  | .030          |              |                                  | .047 | .067       | .091  | .119  | .151  | .186  | .225  | .268  | .315  | .365  | .477  | .603  |     |     |
|                | C  | 11250         |              |                                  | 9000 | 7500       | 6429  | 5625  | 5000  | 4500  | 4091  | 3750  | 3462  | 3214  | 2813  | 2500  |     |     |
|                | D  | .024          |              |                                  | .037 | .054       | .073  | .095  | .121  | .149  | .180  | .215  | .252  | .292  | .381  | .483  |     |     |

\*\*\*Note: Weight depends on panel width, cross bar selection, mill tolerance and manufacturing tolerance.