



| PRIM MATL                 | GAUGE/ THICK | DEPTH (mm)    | LBS./LF (kg/m) | LOAD/ DEFL | CLEAR SPAN |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------|--------------|---------------|----------------|------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                           |              |               |                |            | 24"        | 30"  | 36"  | 42"  | 48"  | 54"  | 60"  | 66"  | 72"  | 78"  | 84"  | 90"  | 96"  | 108" | 120" | 132" | 144" |
| ALUMINUM                  | .1250"       | 2" (50.8)     | 2.80 (4.10)    | U          | 992        | 635  | 441  | 324  | 248  | 196  | 158  | 131  | 110  | 94   | 81   | 70   | 62   | 49   | 40   | 33   | 27   |
|                           |              |               |                | D          | 0.07       | 0.10 | 0.16 | 0.21 | 0.28 | 0.35 | 0.44 | 0.53 | 0.63 | 0.74 | 0.86 | 0.98 | 1.12 | 1.42 | 1.75 | 2.11 | 2.52 |
|                           |              |               |                | C          | 1652       | 1322 | 1102 | 944  | 826  | 734  | 661  | 601  | 551  | 508  | 472  | 441  | 413  | 367  | 330  | 300  | 275  |
|                           |              |               |                | D          | 0.05       | 0.08 | 0.13 | 0.17 | 0.22 | 0.28 | 0.35 | 0.42 | 0.50 | 0.59 | 0.69 | 0.79 | 0.89 | 1.13 | 1.40 | 1.69 | 2.01 |
| CARBON & GALVANIZED STEEL | 13           | 1-1/2" (38.1) | 5.70 (8.50)    | U          | 714        | 457  | 317  | 233  | 179  | 142  | 116  | 96   | 82   | 69   | 60   | 52   | 45   | 36   | 29   | 24   | 21   |
|                           |              |               |                | D          | 0.04       | 0.07 | 0.10 | 0.13 | 0.17 | 0.21 | 0.26 | 0.32 | 0.39 | 0.45 | 0.52 | 0.60 | 0.68 | 0.86 | 1.05 | 1.27 | 1.56 |
|                           |              |               |                | C          | 964        | 771  | 642  | 551  | 495  | 481  | 434  | 397  | 366  | 337  | 314  | 293  | 274  | 243  | 220  | 199  | 183  |
|                           |              |               |                | D          | 0.03       | 0.04 | 0.07 | 0.09 | 0.12 | 0.17 | 0.21 | 0.26 | 0.31 | 0.36 | 0.42 | 0.48 | 0.55 | 0.69 | 0.85 | 1.03 | 1.23 |
|                           |              | 2" (50.8)     | 6.00 (8.90)    | U          | 1072       | 666  | 476  | 350  | 268  | 212  | 173  | 143  | 121  | 103  | 90   | 78   | 69   | 55   | 44   | 36   | 31   |
|                           |              |               |                | D          | 0.03       | 0.05 | 0.07 | 0.10 | 0.13 | 0.16 | 0.20 | 0.24 | 0.29 | 0.34 | 0.40 | 0.46 | 0.53 | 0.67 | 0.82 | 0.98 | 1.19 |
|                           |              |               |                | C          | 1452       | 1162 | 968  | 830  | 726  | 645  | 581  | 528  | 509  | 489  | 470  | 439  | 411  | 366  | 329  | 299  | 274  |
|                           |              |               |                | D          | 0.02       | 0.03 | 0.05 | 0.06 | 0.09 | 0.12 | 0.14 | 0.17 | 0.22 | 0.27 | 0.32 | 0.37 | 0.42 | 0.53 | 0.65 | 0.79 | 0.94 |
|                           | 11           | 1-1/2" (38.1) | 6.80 (10.1)    | U          | 781        | 500  | 347  | 255  | 196  | 156  | 127  | 105  | 89   | 76   | 66   | 58   | 52   | 41   | 34   | 29   | 25   |
|                           |              |               |                | D          | 0.04       | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.29 | 0.34 | 0.40 | 0.47 | 0.53 | 0.61 | 0.77 | 0.96 | 1.20 | 1.45 |
|                           |              |               |                | C          | 1257       | 1006 | 838  | 718  | 629  | 559  | 503  | 457  | 419  | 387  | 359  | 335  | 314  | 279  | 253  | 234  | 219  |
|                           |              |               |                | D          | 0.03       | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.19 | 0.23 | 0.27 | 0.32 | 0.31 | 0.43 | 0.49 | 0.62 | 0.76 | 0.94 | 1.14 |
|                           |              | 2" (50.8)     | 7.10 (10.5)    | U          | 1250       | 800  | 555  | 408  | 314  | 249  | 201  | 167  | 141  | 121  | 104  | 91   | 80   | 64   | 53   | 44   | 37   |
|                           |              |               |                | D          | 0.03       | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.18 | 0.22 | 0.26 | 0.31 | 0.35 | 0.41 | 0.46 | 0.59 | 0.74 | 0.91 | 1.08 |
|                           |              |               |                | C          | 1924       | 1539 | 1283 | 1099 | 962  | 855  | 770  | 700  | 641  | 592  | 550  | 514  | 484  | 434  | 395  | 363  | 337  |
|                           |              |               |                | D          | 0.02       | 0.04 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.21 | 0.24 | 0.28 | 0.33 | 0.37 | 0.48 | 0.59 | 0.73 | 0.87 |
| 3" (76.2)                 | 7.90 (11.7)  | U             | 2675           | 1712       | 1189       | 873  | 669  | 528  | 428  | 354  | 297  | 254  | 219  | 190  | 167  | 132  | 107  | 89   | 74   |      |      |
|                           |              | D             | 0.02           | 0.04       | 0.05       | 0.07 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.24 | 0.28 | 0.31 | 0.36 | 0.45 | 0.56 | 0.68 | 0.81 |      |      |
|                           |              | C             | 3531           | 2825       | 2354       | 2018 | 1766 | 1569 | 1412 | 1284 | 1177 | 1141 | 1106 | 1070 | 1003 | 892  | 802  | 730  | 669  |      |      |
|                           |              | D             | 0.01           | 0.02       | 0.03       | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.20 | 0.23 | 0.25 | 0.29 | 0.36 | 0.45 | 0.54 | 0.65 |      |      |

U - Uniform Load - Lbs./Sf. D - Deflection in Inches C - Concentrated Load - Lbs./Ft. of Width at Mid Span | Span and loading values to the left of the bolded black line produce a deflection of 1/4" or less under a uniform load of 100 Lbs./Sf., allowing for safe pedestrian comfort. Span and loading values to the right of the bolded black line are applicable to other types of loads at the discretion of a licensed engineer. Technical information provided is theoretical and for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. McNICHOLS shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Plank Grating.