# STRONGWELL® DURAGRID®

**DURAGRID®** - Custom grating systems are made to specific requirements. The following load tables are the most popular.

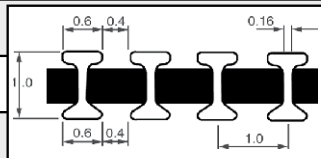## DURAGRID® I-4000 1" I Bearing Bars Spaced 1" On Center

OTHER COMMON SERIES AND SPACING (X):

| SERIES | (X) | (M)* |
|---|---|---|
| I-3000 | 0.850" | 1.17 |
| I-5000 | 1.200" | 0.84 |
| I-7000 | 2.000" | 0.50 |
| I-8000 | 3.000" | 0.33 |
| OR MULTIPLES OF ABOVE | | |

1" I BEARING BARS: VALUES PER FT OF WIDTH
A = 3.744 IN²/FT OF WIDTH　S = 0.984 IN³/FT OF WIDTH　I = 0.492 IN⁴/FT OF WIDTH
WEIGHT/FOOT = .253 LBS/FT OF BAR　　WEIGHT/FOOT = .186 LBS/FT OF CROSS ROD
APPROX. WEIGHT = 3.4 LBS/SQ. FT.

| SPAN INCHES | | 50 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 750 | 1000 | 2000 | 2500 | 3000 | 4000 | 5000 | 6000 | SAFE LOAD 2:1 SAFETY FACTOR | DEFLECTION | E x 10⁶ PSI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | Δu | 0.001 | 0.001 | 0.002 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.009 | 0.012 | 0.024 | 0.030 | 0.036 | 0.048 | 0.060 | 0.073 | 15600 | 0.189 | 3.78 |
|  | Δc | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.008 | 0.010 | 0.015 | 0.019 | 0.039 | 0.048 | 0.058 | 0.077 | 0.097 | 0.116 | 7800 | 0.151 | |
| 18 | Δu | 0.003 | 0.006 | 0.008 | 0.011 | 0.014 | 0.017 | 0.022 | 0.028 | 0.042 | 0.056 | 0.112 | 0.139 | 0.167 | 0.223 | 0.279 | 0.335 | 7431 | 0.415 | 4.15 |
|  | Δc | 0.003 | 0.006 | 0.009 | 0.012 | 0.015 | 0.018 | 0.024 | 0.030 | 0.045 | 0.060 | 0.119 | 0.149 | 0.179 | 0.238 | 0.298 | 0.357 | 5573 | 0.332 | |
| 24 | Δu | 0.008 | 0.017 | 0.025 | 0.033 | 0.041 | 0.050 | 0.066 | 0.083 | 0.124 | 0.166 | 0.332 | 0.415 | 0.498 | 0.664 | | | 4350 | 0.722 | 4.41 |
|  | Δc | 0.007 | 0.013 | 0.020 | 0.027 | 0.033 | 0.040 | 0.053 | 0.066 | 0.100 | 0.133 | 0.265 | 0.332 | 0.398 | 0.531 | 0.664 | | 4350 | 0.577 | |
| 30 | Δu | 0.019 | 0.039 | 0.058 | 0.077 | 0.096 | 0.116 | 0.154 | 0.193 | 0.289 | 0.386 | | | | | | | 2784 | 1.074 | 4.63 |
|  | Δc | 0.012 | 0.025 | 0.037 | 0.049 | 0.062 | 0.074 | 0.099 | 0.123 | 0.185 | 0.247 | 0.494 | 0.617 | | | | | 3480 | 0.859 | |
| 36 | Δu | 0.038 | 0.077 | 0.115 | 0.153 | 0.192 | 0.230 | 0.307 | 0.383 | 0.575 | | | | | | | | 1933 | 1.482 | 4.83 |
|  | Δc | 0.020 | 0.041 | 0.061 | 0.082 | 0.102 | 0.123 | 0.164 | 0.205 | 0.307 | 0.409 | | | | | | | 2900 | 1.186 | |
| 42 | Δu | 0.070 | 0.141 | 0.211 | 0.281 | 0.352 | 0.422 | 0.563 | 0.703 | | | | | | | | | 1414 | 1.988 | 4.88 |
|  | Δc | 0.032 | 0.064 | 0.096 | 0.129 | 0.161 | 0.193 | 0.257 | 0.321 | 0.482 | 0.643 | | | | | | | 2474 | 1.590 | |
| 48 | Δu | 0.118 | 0.235 | 0.353 | 0.470 | 0.588 | 0.705 | | | | | | | | | | | 1078 | 2.534 | 4.98 |
|  | Δc | 0.047 | 0.094 | 0.141 | 0.188 | 0.235 | 0.282 | 0.376 | 0.470 | | | | | | | | | 2155 | 2.026 | |

Profile diagram dimensions: 0.6, 0.4, 0.16, 1.0

*(M) - Multiplier for load table loads