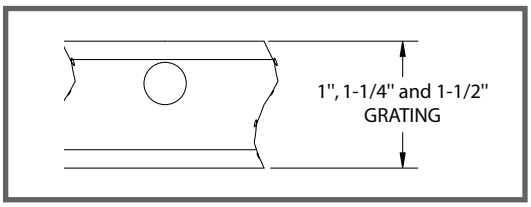
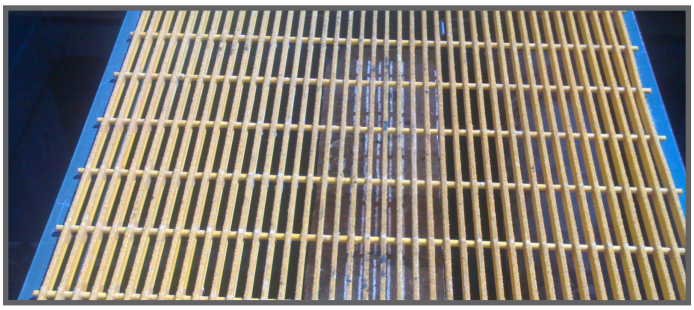
# SI73/80 Series Pultruded Grating

The SI Industrial Series of gratings is widely used in cooling tower walkways due to its large open area. The bonded rod crossbars make SI Series gratings suitable for use in pedestrian traffic areas and the 73% and 83% open areas allow for excellent air flow. The profile of the SI Series has an appearance similar to metal grating and is often used in areas where a close match to a steel or aluminum profile is desired.

## Tie Bar Representation

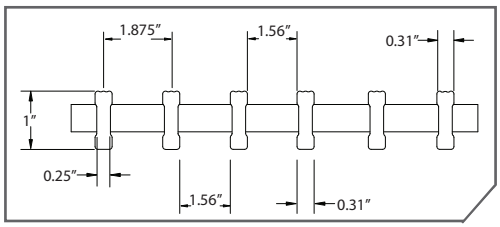


## Grating Details

### 1" Deep SI8310

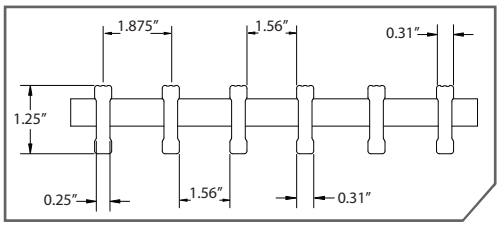
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 6 | 1" | 83% | 1.875" | 1.74 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 1.78 IN² I = 0.16 IN⁴ S= 0.32 IN³**

### 1-1/4" Deep SI83125

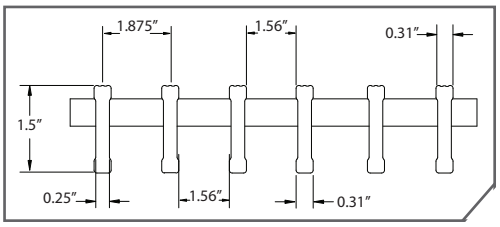
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 6 | 1-1/4" | 83% | 1.875" | 2.1 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 2.18 IN² I = 0.3 IN⁴ S= 0.48 IN³**

### 1-1/2" Deep SI8315

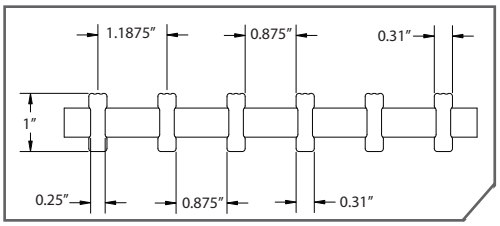
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 6 | 1-1/2" | 83% | 1.875" | 2.45 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 2.56 IN² I = 0.515 IN⁴ S= 0.686 IN³**

### 1" Deep SI7310

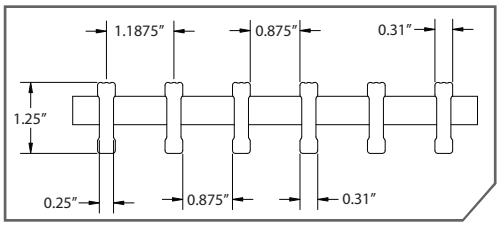
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 10 | 1" | 73% | 1.1875" | 2.7 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 2.81 IN² I = 0.248 IN⁴ S= 0.496 IN³**

### 1-1/4" Deep SI73125

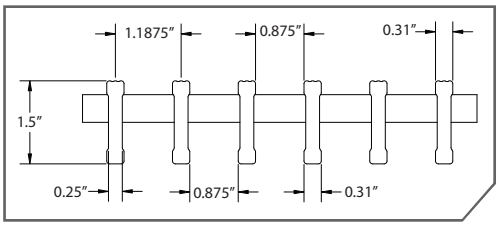
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 10 | 1-1/4" | 73% | 1.1875" | 3.3 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 3.43 IN² I = 0.477 IN⁴ S= 0.763 IN³**

### 1-1/2" Deep SI7315

| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 10 | 1-1/2" | 73% | 1.1875" | 3.8 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 4.04 IN² I = 0.813 IN⁴ S= 1.084 IN³**

# SI73/83 Series Pultruded Grating

Standard lengths are 8', 10', 12', 20' and 24'. *We recommend ordering 8',10', and 12' panels when possible to reduce freight damage and shipping costs.*

Standard color for SI gratings is yellow for vinyl ester (VF). Also available in gray.

Standard gratings are furnished with gritted, skid resistant top surface.

Standard cross bar spacing is 6" on center.

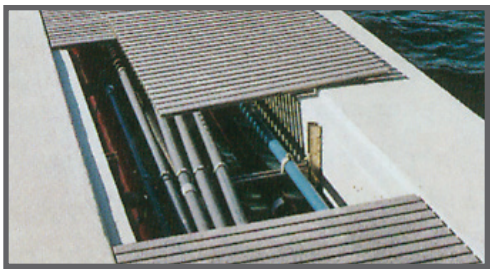
| Pultruded SI Series | | | | | | |
|---|---|---|---|---|---|---|
| **Section** | **1" SI83** | **1-1/4" SI83** | **1-1/2" SI83** | **1" SI73** | **1-1/4" SI73** | **1-1/2" SI73** |
| **Depth** | 1" | 1-1/4" | 1-1/2" | 1" | 1-1/4" | 1-1/2" |
| **Open Space** | 1-9/16" | 1-9/16" | 1-9/16" | 7/8" | 7/8" | 7/8" |
| **Standard Widths** | 35.625", 46.875" | 35.625", 46.875" | 35.625", 46.875" | 23.75", 35.63" | 23.75", 35.63" | 23.75", 35.63" |
| **Weight (Lbs/SF)** | 1.74 lbs. | 2.1 lbs. | 2.45 lbs. | 2.7 lbs. | 3.3 lbs. | 3.8 lbs. |
| **Open Area** | 83% | 83% | 83% | 73% | 73% | 73% |
| **I $in^4$/ft of width** | 0.16 | 0.30 | 0.515 | 0.248 | 0.477 | 0.813 |
| **S $in^3$/ft of width** | 0.32 | 0.48 | 0.686 | 0.496 | 0.763 | 1.084 |
| **I = Moment of Inertia • S = Section Modulus** | | | | | | |

| UNIFORM LOADS - psf (Deflection in Inches) | | | | | | | | | | | CONCENTRATED LOADS - lbs/Ft of Width (Deflection in Inches) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Product** | **Load/Span** | **24"** | **30"** | **36"** | **42"** | **48"** | **54"** | **60"** | **66"** | **72"** | **Load/Span** | **24"** | **30"** | **36"** | **42"** | **48"** | **54"** | **60"** | **66"** | **72"** |
| **1" SI83** | **50** | .02 | .05 | .09 | .17 | .30 | .47 | — | — | — | **200** | .05 | .12 | .20 | .31 | .47 | — | — | — | — |
| | **100** | .03 | .10 | .19 | .34 | — | — | — | — | — | **300** | .07 | .18 | .30 | .47 | — | — | — | — | — |
| | **250** | .08 | .24 | .46 | — | — | — | — | — | — | **500** | .12 | .31 | .49 | — | — | — | — | — | — |
| | **Max Recommended Load** | 2070 | 1320 | 920 | 670 | 510 | 400 | 320 | 270 | 220 | **Max Recommended Load** | 2070 | 1660 | 1380 | 1180 | 1030 | 910 | 810 | 740 | 680 |
| | **Ultimate Capacity** | 5190 | 3320 | 2300 | 1690 | 1290 | 1010 | 810 | 670 | 560 | **Ultimate Capacity** | 5190 | 4150 | 3450 | 2950 | 2580 | 2270 | 2040 | 1860 | 1700 |
| **1-1/4" SI83** | **50** | .01 | .03 | .05 | .10 | .17 | .32 | — | — | — | **200** | .04 | .07 | .11 | .17 | .28 | .45 | — | — | — |
| | **100** | .02 | .06 | .10 | .19 | .35 | — | — | — | — | **300** | .06 | .11 | .17 | .26 | .42 | — | — | — | — |
| | **250** | .06 | .14 | .26 | .48 | — | — | — | — | — | **500** | .10 | .18 | .28 | .44 | — | — | — | — | — |
| | **Max Recommended Load** | 3220 | 2060 | 1420 | 1050 | 790 | 630 | 500 | 420 | 350 | **Max Recommended Load** | 3220 | 2570 | 2140 | 1840 | 1590 | 1420 | 1270 | 1150 | 1060 |
| | **Ultimate Capacity** | 8050 | 5150 | 3570 | 2620 | 1990 | 1580 | 1270 | 1050 | 880 | **Ultimate Capacity** | 8050 | 6430 | 5360 | 4600 | 3990 | 3570 | 3180 | 2890 | 2650 |
| **1-1/2" SI83** | **50** | <.01 | .02 | .04 | .06 | .11 | .17 | .25 | .37 | — | **200** | .03 | .05 | .08 | .12 | .17 | .24 | .32 | .43 | — |
| | **100** | .02 | .04 | .07 | .13 | .21 | .34 | — | — | — | **300** | .04 | .08 | .11 | .17 | .26 | .36 | .49 | — | — |
| | **250** | .04 | .10 | .18 | .32 | — | — | — | — | — | **500** | .06 | .13 | .19 | .29 | .43 | — | — | — | — |
| | **Max Recommended Load** | 4580 | 2930 | 2030 | 1490 | 1140 | 900 | 730 | 590 | 500 | **Max Recommended Load** | 4580 | 3670 | 3050 | 2610 | 2280 | 2030 | 1830 | 1640 | 1520 |
| | **Ultimate Capacity** | 11460 | 7340 | 5090 | 3730 | 2860 | 2250 | 1830 | 1490 | 1260 | **Ultimate Capacity** | 11460 | 9170 | 7640 | 6530 | 5720 | 5080 | 4580 | 4120 | 3800 |
| **1" SI73** | **50** | .01 | .03 | .06 | .11 | .19 | .30 | .46 | — | — | **200** | .04 | .08 | .13 | .20 | .30 | .43 | — | — | — |
| | **100** | .03 | .06 | .12 | .22 | .38 | — | — | — | — | **300** | .06 | .11 | .19 | .31 | .46 | — | — | — | — |
| | **250** | .05 | .12 | .24 | — | — | — | — | — | — | **500** | .10 | .19 | .32 | — | — | — | — | — | — |
| | **Max Recommended Load** | 3220 | 2060 | 1430 | 1050 | 800 | 630 | 510 | — | — | **Max Recommended Load** | 3220 | 2580 | 2150 | 1840 | 1610 | 1430 | 1290 | — | — |
| | **Ultimate Capacity** | 8050 | 5150 | 3570 | 2620 | 2000 | 1570 | 1270 | — | — | **Ultimate Capacity** | 8050 | 6450 | 5450 | 4600 | 4020 | 3570 | 3220 | — | — |
| **1-1/4" SI73** | **50** | .01 | .02 | .03 | .06 | .11 | .20 | .37 | — | — | **200** | .02 | .04 | .07 | .11 | .18 | .28 | .47 | — | — |
| | **100** | .02 | .03 | .07 | .12 | .22 | .40 | — | — | — | **300** | .04 | .06 | .10 | .17 | .27 | .42 | — | — | — |
| | **200** | .03 | .07 | .13 | .24 | — | — | — | — | — | **500** | .06 | .10 | .17 | .28 | — | — | — | — | — |
| | **Max Recommended Load** | 5110 | 3270 | 2270 | 1670 | 1270 | 1010 | 810 | 670 | — | **Max Recommended Load** | 5110 | 4090 | 3400 | 2920 | 2550 | 2270 | 2040 | 1850 | — |
| | **Ultimate Capacity** | 12770 | 8170 | 5670 | 4170 | 3170 | 2520 | 2020 | 1670 | — | **Ultimate Capacity** | 12770 | 10220 | 8500 | 7300 | 6370 | 5670 | 5100 | 4620 | — |
| **1-1/2" SI73** | **50** | .01 | .01 | .02 | .04 | .07 | .11 | .16 | .24 | .33 | **200** | .02 | .03 | .05 | .07 | .11 | .15 | .21 | .27 | .35 |
| | **100** | .01 | .02 | .05 | .08 | .14 | .22 | .32 | .47 | — | **300** | .02 | .04 | .07 | .11 | .16 | .23 | .31 | .41 | — |
| | **200** | .02 | .05 | .09 | .16 | .27 | .43 | — | — | — | **500** | .04 | .07 | .12 | .19 | .27 | .38 | — | — | — |
| | **Max Recommended Load** | 7250 | 4640 | 3220 | 2360 | 1810 | 1430 | 1160 | 950 | 590 | **Max Recommended Load** | 7250 | 5800 | 4830 | 4140 | 3620 | 3220 | 2900 | 2630 | 2410 |
| | **Ultimate Capacity** | 18120 | 11600 | 8050 | 5900 | 4520 | 3570 | 2900 | 2370 | 1250 | **Ultimate Capacity** | 18120 | 14500 | 12070 | 10350 | 9050 | 8050 | 7250 | 6570 | 6020 |

NOTES
1. Deflection for uniform loads is limited to L/120 with L representing clear span length in inches. For typical pedestrian traffic, uniform load of 50 PSF is recommended with deflection not to exceed .375".
2. Deflections for concentrated loads are shown for the same span conditions as for uniform loads.
3. Deflection limits can be higher for fiberglass gratings as they are more resilient than metal materials.
4. Maximum recommended loads have been determined by applying a 2.5 Factor of Safety (FOS) to the Ultimate Capacity of the grating.

# WT Series Pultruded Grating

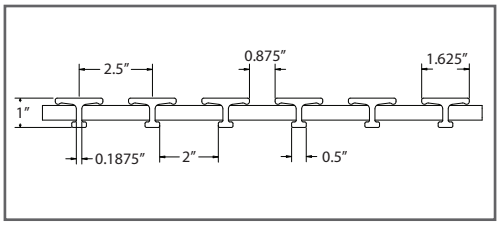
The WT Pedestrian Series is offered in a variety of sizes with open areas including 35%, 18% or even 0% and depths of 1" or 1-1/2". The T-shaped top of the load bar provides maximum surface area underfoot, thus the most comfortable walking surface and a smoother surface for two-wheel moving equipment. These designs are excellent for areas with high traffic and light hand trucks or wheeled carts. WT00 provides a cost effective solid deck surface.



## Grating Details

### 1" Deep WT3510

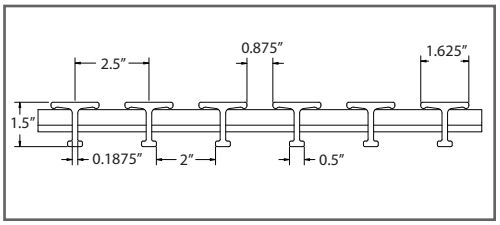
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 4 | 1" | 35% | 2.5" | 2.8 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 2.54 IN² I = 0.292 IN⁴ St= 0.82 IN³ Sb= 0.454 IN³**

### 1-1/2" Deep WT3515

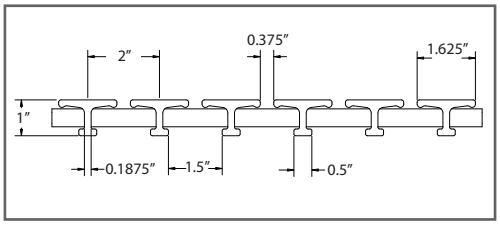
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 4 | 1-1/2" | 35% | 2.5" | 2.7 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 2.98 IN² I = 0.769 IN⁴ St= 1.38 IN³ Sb= 0.81 IN³**

### 1" Deep WT1810

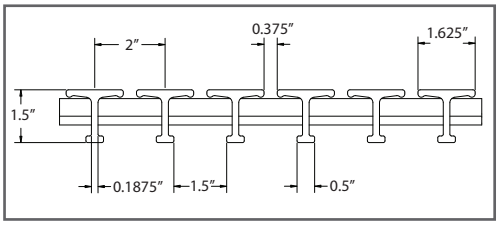
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 6 | 1" | 18% | 2" | 3.3 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 3.18 IN² I = 0.365 IN⁴ St= 1.025 IN³ Sb= 0.567 IN³**

### 1-1/2" Deep WT1815

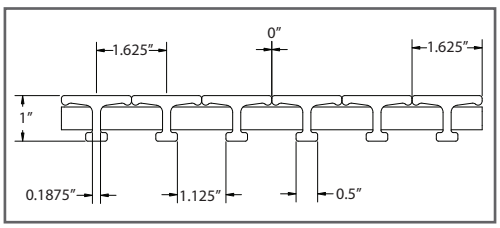
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 6 | 1-1/2" | 18% | 2" | 3.3 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 3.72 IN² I = 0.962 IN⁴ St= 1.747 IN³ Sb= 1.013 IN³**

### 1" Deep WT0010

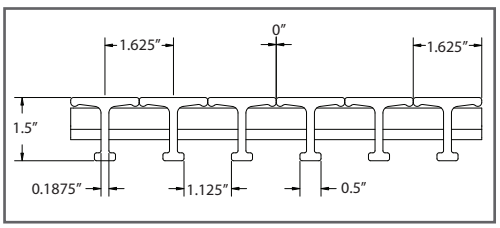
| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 7 | 1" | 0% | 1.625" | 4 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 3.91 IN² I = 0.449 IN⁴ St= 1.261 IN³ Sb= 0.697 IN³**

### 1-1/2" Deep WT0015

| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 7 | 1-1/2" | 0% | 1.625" | 4 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 4.58 IN² I = 1.183 IN⁴ St= 2.149 IN³ Sb= 1.246 IN³**

# WT Series Pultruded Grating

Standard lengths are 8', 10', 12', 20' and 24'. *ordering 8',10', and 12' panels when possible to reduce freight damage and shipping costs.*

Standard color for 1" an 1-1/2" WT gratings is light gray for both isophthalic polyester (PF) and vinyl ester (VF) resin systems.

Standard gratings are furnished with gritted, skid resistant top surface.

Standard cross bar spacing is 12" on center.

| Pultruded 1" and 1-1/2" WT Series | | | | | | |
|---|---|---|---|---|---|---|
| **Section** | **1" WT35** | **1" WT18** | **1" WT00** | **1-1/2" WT35** | **1-1/2" WT18** | **1-1/2" WT00** |
| **Depth** | 1" | 1" | 1" | 1-1/2" | 1-1/2" | 1-1/2" |
| **Open Space** | 7/8" | 3/8" | 0" | 7/8" | 3/8" | 0" |
| **Standard Widths** | 3', 4' | 3', 4' | 35", 47-1/8" | 3', 4' | 3', 4' | 35-3/4", 47-1/8" |
| **Weight (Lbs/SF)** | 2.8 lbs | 3.3 lbs | 4.0 lbs | 3.5 lbs | 3.3 lbs | 4.0 lbs |
| **Open Area** | 35% | 18% | 0% | 35% | 18% | 0% |
| **I $in^4$/ft of width** | 0.292 | 0.365 | 0.449 | 0.769 | 0.962 | 1.183 |
| **$S_T$ $in^3$/ft of width** | 0.820 | 1.025 | 1.261 | 1.380 | 1.747 | 2.149 |
| **$S_B$ $in^3$/ft of width** | .454 | .567 | .697 | .810 | 1.013 | 1.246 |
| **I = Moment of Inertia • S = Section Modulus** | | | | | | |

Custom lengths, colors, bar spacings, and finishes are available, contact Fibergrate for assistance.

| UNIFORM LOADS - psf (Deflection in Inches) | | | | | | | | | | | CONCENTRATED LOADS - lbs/Ft of Width (Deflection in Inches) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Product** | **Load/Span** | **24"** | **30"** | **36"** | **42"** | **48"** | **54"** | **60"** | **66"** | **72"** | **Load/Span** | **24"** | **30"** | **36"** | **42"** | **48"** | **54"** | **60"** | **66"** | **72"** |
| **1" WT35** | **50** | .02 | .04 | .09 | .15 | .26 | .37 | — | — | — | **200** | .06 | .11 | .18 | .28 | .41 | — | — | — | — |
| | **100** | .04 | .08 | .17 | .30 | — | — | — | — | — | **300** | .09 | .16 | .27. | .42 | — | — | — | — | — |
| | **250** | .07 | .17 | .34 | — | — | — | — | — | — | **500** | .15 | .27 | .46 | — | — | — | — | — | — |
| | Max Recommended Load | 1700 | 1080 | 740 | 530 | 400 | — | — | — | — | Max Recommended Load | 1700 | 1350 | 1110 | 930 | 800 | — | — | — | — |
| | Ultimate Capacity | 4250 | 2700 | 1850 | 1320 | 1000 | — | — | — | — | Ultimate Capacity | 4250 | 3370 | 2770 | 2320 | 2000 | — | — | — | — |
| **1" WT18** | **50** | .01 | .03 | .07 | .12 | .20 | — | — | — | — | **200** | .05 | .09 | .15 | .22 | .33 | .42 | — | — | — |
| | **100** | .03 | .07 | .14 | .24 | — | — | — | — | — | **300** | .07 | .13 | .22 | .34 | — | — | — | — | — |
| | **200** | .06 | .14 | .27 | — | — | — | — | — | — | **500** | .12 | .22 | .37 | — | — | — | — | — | — |
| | Max Recommended Load | 2130 | 1350 | 920 | 660 | 500 | — | — | — | — | Max Recommended Load | 2130 | 1690 | 1380 | 1160 | 1000 | — | — | — | — |
| | Ultimate Capacity | 5320 | 3370 | 2300 | 1650 | 1250 | — | — | — | — | Ultimate Capacity | 5320 | 4220 | 3450 | 2900 | 2500 | — | — | — | — |
| **1" WT00** | **50** | .01 | .03 | .06 | .10 | .17 | .24 | .33 | — | — | **200** | .04 | .07 | .12 | .18 | .27 | .34 | .43 | — | — |
| | **100** | .02 | .06 | .11 | .20 | .33 | — | — | — | — | **300** | .06 | .11 | .18 | .27 | .40 | — | — | — | — |
| | **200** | .05 | .11 | .22 | — | — | — | — | — | — | **500** | .10 | .18 | .30 | — | — | — | — | — | — |
| | Max Recommended Load | 2620 | 1660 | 1140 | 820 | 610 | — | — | — | — | Max Recommended Load | 2620 | 2080 | 1710 | 1430 | 1230 | — | — | — | — |
| | Ultimate Capacity | 6550 | 4150 | 2850 | 2050 | 1525 | — | — | — | — | Ultimate Capacity | 6550 | 5200 | 4275 | 3570 | 3070 | — | — | — | — |
| **1-1/2" WT35** | **50** | .01 | .02 | .04 | .07 | .10 | .15 | .20 | .26 | .32 | **200** | .03 | .06 | .09 | .12 | .17 | .21 | .25 | .30 | .34 |
| | **100** | .02 | .04 | .08 | .13 | .21 | .29 | .40 | — | — | **300** | .05 | .08 | .13 | .19 | .25 | .31 | .38 | .45 | — |
| | **200** | .04 | .09 | .16 | .27 | — | — | — | — | — | **500** | .08 | .14 | .22 | .31 | — | — | — | — | — |
| | Max Recommended Load | 3040 | 1930 | 1320 | 950 | 710 | 560 | 450 | 370 | 310 | Max Recommended Load | 3040 | 2410 | 1980 | 1660 | 1420 | 1270 | 1140 | 1030 | 950 |
| | Ultimate Capacity | 7600 | 4820 | 3300 | 2370 | 1770 | 1400 | 1125 | 920 | 770 | Ultimate Capacity | 7550 | 6020 | 4950 | 4150 | 3550 | 3170 | 2850 | 2570 | 2370 |
| **1-1/2" WT18** | **50** | .01 | .02 | .03 | .05 | .08 | .12 | .16 | .21 | .26 | **200** | .02 | .04 | .07 | .10 | .13 | .17 | .20 | .24 | .28 |
| | **100** | .02 | .03 | .06 | .11 | .17 | .23 | .32 | .41 | — | **300** | .04 | .07 | .10 | .15 | .20 | .25 | .30 | .36 | .41 |
| | **200** | .03 | .07 | .13 | .22 | .33 | — | — | — | — | **500** | .06 | .11 | .17 | .25 | .33 | .42 | — | — | — |
| | Max Recommended Load | 3810 | 2410 | 1650 | 1180 | 890 | 700 | 570 | 470 | 390 | Max Recommended Load | 3810 | 3020 | 2470 | 2080 | 1780 | 1580 | 1420 | 1290 | 1190 |
| | Ultimate Capacity | 9525 | 6025 | 4120 | 2950 | 2220 | 1750 | 1420 | 1170 | 970 | Ultimate Capacity | 9520 | 7550 | 6170 | 5200 | 4450 | 3950 | 3550 | 3220 | 2970 |
| **1-1/2" WT00** | **50** | .01 | .02 | .03 | .04 | .07 | .10 | .13 | .17 | .21 | **200** | .02 | .04 | .06 | .08 | .11 | .13 | .16 | .19 | .22 |
| | **100** | .01 | .03 | .05 | .09 | .13 | .19 | .26 | .33 | .42 | **300** | .03 | .05 | .08 | .12 | .16 | .20 | .25 | .29 | .34 |
| | **200** | .02 | .06 | .11 | .18 | .27 | .38 | — | — | — | **500** | .05 | .09 | .14 | .20 | .27 | .34 | .41 | .49 | — |
| | Max Recommended Load | 4690 | 2970 | 2030 | 1460 | 1090 | 860 | 700 | 580 | 480 | Max Recommended Load | 4690 | 3710 | 3040 | 2560 | 2190 | 1950 | 1750 | 1590 | 1460 |
| | Ultimate Capacity | 11720 | 7420 | 5070 | 3650 | 2720 | 2150 | 1750 | 1450 | 1200 | Ultimate Capacity | 6720 | 9270 | 7600 | 6400 | 5470 | 4870 | 4370 | 3970 | 3560 |

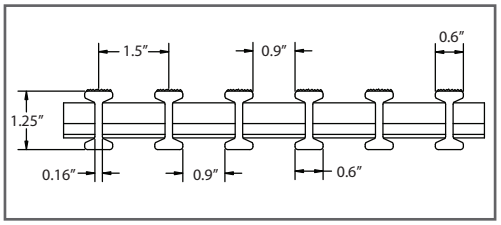
NOTES
1. Deflection for uniform loads is limited to L/120 with L representing clear span length in inches. For typical pedestrian traffic, uniform load of 50 PSF is recommended with deflection not to exceed .375".
2. Deflections for concentrated loads are shown for the same span conditions as for uniform loads.
3. Deflection limits can be higher for fiberglass gratings as they are more resilient than metal materials.
4. Maximum recommended loads have been determined by applying a 2.5 Factor of Safety (FOS) to the Ultimate Capacity of the grating.

# 1-1/4" Safe-T-Span® Industrial Grating

## Grating Details

**1-1/4" Deep I60125**

| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 8 | 1-1/4" | 60% | 1.5" | 2.6 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 2.96 IN² I = 0.578 IN⁴ S = 0.928 IN³**

Safe-T-Span industrial grating is also available in 1-1/4" depth in the 40% and 60% open areas.

| I60125 PULTRUDED SERIES UNIFORM LOAD TABLE - DEFLECTIONS IN INCHES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CLEAR SPAN (in) | UNIFORM LOADS (psf) 50 | 100 | 200 | 300 | 500 | 1000 | 2000 | MAXIMUM RECOMMENDED LOAD (psf) | ULTIMATE CAPACITY (psf) |
| 12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | 0.04 | 7990 | 15990 |
| 18 | <0.01 | <0.01 | 0.01 | 0.02 | 0.03 | 0.05 | 0.10 | 4090 | 8180 |
| 24 | <0.01 | 0.01 | 0.03 | 0.04 | 0.07 | 0.15 | 0.29 | 2970 | 5950 |
| 30 | 0.02 | 0.03 | 0.07 | 0.10 | 0.17 | 0.34 | — | 2180 | 4360 |
| 36 | 0.03 | 0.07 | 0.13 | 0.20 | 0.33 | — | — | 1650 | 3310 |
| 42 | 0.06 | 0.12 | 0.24 | 0.36 | — | — | — | 1290 | 2580 |
| 48 | 0.10 | 0.20 | 0.40 | — | — | — | — | 1020 | 2040 |
| 54 | 0.16 | 0.31 | — | — | — | — | — | 850 | 1700 |
| 60 | 0.24 | 0.47 | — | — | — | — | — | 710 | 1430 |
| 72 | 0.47 | — | — | — | — | — | — | 510 | 1020 |

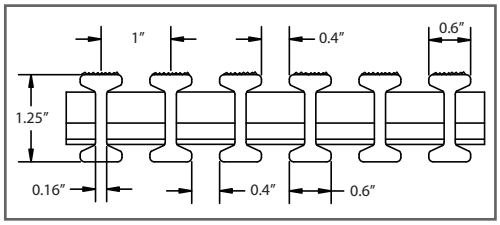
| I60125 PULTRUDED SERIES LINE LOAD TABLE - DEFLECTIONS IN INCHES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CLEAR SPAN (in) | LINE LOADS (LBS/FT of Width) 50 | 100 | 200 | 300 | 500 | 1000 | 2000 | MAXIMUM RECOMMENDED LOAD (lb/ft) | ULTIMATE CAPACITY (lb/ft) |
| 12 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 0.03 | 0.06 | 3990 | 7990 |
| 18 | <0.01 | <0.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.11 | 3060 | 6130 |
| 24 | <0.01 | 0.01 | 0.02 | 0.04 | 0.06 | 0.12 | 0.24 | 2970 | 5950 |
| 30 | 0.01 | 0.02 | 0.04 | 0.06 | 0.11 | 0.22 | 0.43 | 2730 | 5460 |
| 36 | 0.02 | 0.04 | 0.07 | 0.11 | 0.18 | 0.35 | — | 2480 | 4960 |
| 42 | 0.03 | 0.05 | 0.11 | 0.16 | 0.27 | — | — | 2260 | 4520 |
| 48 | 0.04 | 0.08 | 0.16 | 0.24 | 0.40 | — | — | 2040 | 4090 |
| 54 | 0.06 | 0.11 | 0.22 | 0.34 | — | — | — | 1910 | 3830 |
| 60 | 0.08 | 0.15 | 0.30 | 0.45 | — | — | — | 1780 | 3570 |
| 72 | 0.13 | 0.25 | — | — | — | — | — | 1530 | 3060 |

# 1-1/4" Safe-T-Span® Industrial Grating

## Grating Details

**1-1/4" Deep I40125**

| # of Bars/ Ft of Width | Load Bar Depth | Open Area | Load Bar Centers | Approx. Weight |
|---|---|---|---|---|
| 12 | 1-1/4" | 40% | 1" | 4 lbs./ft² |




**Section Properties per Ft of Width:**
**A = 4.44 IN² I = 0.868 IN⁴ S= 1.388 IN³**

Safe-T-Span industrial grating is also available in 1-1/4" depth in the 40% and 60% open areas.

| I40125 PULTRUDED SERIES UNIFORM LOAD TABLE - DEFLECTIONS IN INCHES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CLEAR SPAN (in) | UNIFORM LOADS (psf) | | | | | | | MAXIMUM RECOMMENDED LOAD (psf) | ULTIMATE CAPACITY (psf) |
| | 50 | 100 | 200 | 300 | 500 | 1000 | 2000 | | |
| 12 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | 0.04 | 11880 | 23770 |
| 18 | <0.01 | <0.01 | <0.01 | 0.01 | 0.02 | 0.04 | 0.08 | 7240 | 14490 |
| 24 | <0.01 | <0.01 | 0.02 | 0.03 | 0.05 | 0.10 | 0.20 | 4780 | 9570 |
| 30 | 0.01 | 0.02 | 0.04 | 0.07 | 0.11 | 0.22 | 0.43 | 3360 | 6720 |
| 36 | 0.02 | 0.04 | 0.08 | 0.12 | 0.21 | 0.41 | — | 2540 | 5080 |
| 42 | 0.04 | 0.07 | 0.15 | 0.22 | 0.37 | — | — | 1930 | 3870 |
| 48 | 0.06 | 0.13 | 0.25 | 0.38 | — | — | — | 1530 | 3070 |
| 54 | 0.10 | 0.20 | 0.40 | — | — | — | — | 1230 | 2460 |
| 60 | 0.15 | 0.31 | — | — | — | — | — | 1010 | 2020 |
| 72 | 0.32 | — | — | — | — | — | — | 720 | 1450 |

| I40125 PULTRUDED SERIES LINE LOAD TABLE - DEFLECTIONS IN INCHES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CLEAR SPAN (in) | LINE LOADS (LBS/FT of Width) | | | | | | | MAXIMUM RECOMMENDED LOAD (lb/ft) | ULTIMATE CAPACITY (lb/ft) |
| | 50 | 100 | 200 | 300 | 500 | 1000 | 2000 | | |
| 12 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 0.03 | 0.06 | 5940 | 11880 |
| 18 | <0.01 | <0.01 | <0.01 | 0.01 | 0.02 | 0.04 | 0.09 | 5430 | 10870 |
| 24 | <0.01 | <0.01 | 0.02 | 0.02 | 0.04 | 0.08 | 0.16 | 4780 | 9570 |
| 30 | <0.01 | 0.01 | 0.03 | 0.04 | 0.07 | 0.11 | 0.22 | 4290 | 8590 |
| 36 | 0.01 | 0.02 | 0.04 | 0.07 | 0.11 | 0.22 | 0.44 | 3810 | 7620 |
| 42 | 0.02 | 0.03 | 0.07 | 0.10 | 0.17 | 0.34 | — | 3440 | 6880 |
| 48 | 0.03 | 0.05 | 0.10 | 0.15 | 0.25 | 0.50 | — | 3070 | 6150 |
| 54 | 0.04 | 0.07 | 0.14 | 0.21 | 0.36 | — | — | 2850 | 5700 |
| 60 | 0.05 | 0.10 | 0.20 | 0.29 | 0.49 | — | — | 2620 | 5250 |
| 72 | 0.08 | 0.17 | 0.34 | — | — | — | — | 2170 | 4350 |