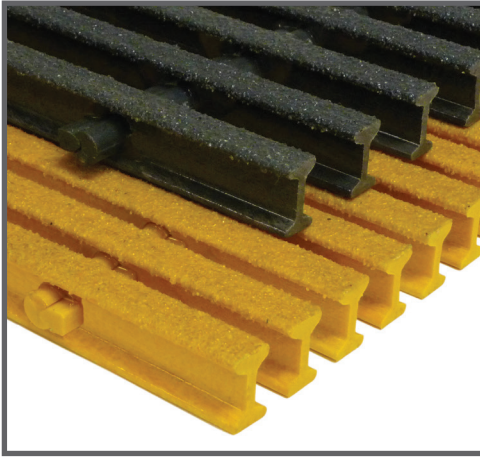


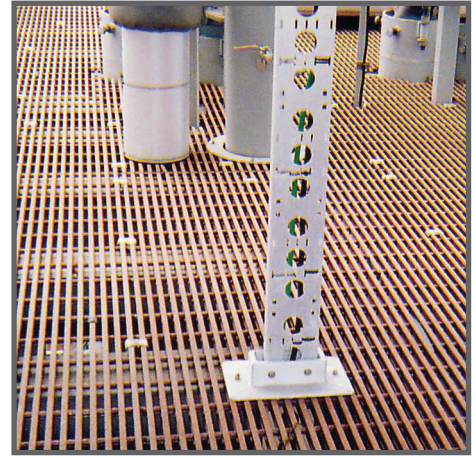
# Safe-T-Span® Industrial Grating Details



I4010 & I6010 Grating



Copper Mining Facility



Offshore Oil & Gas Platform

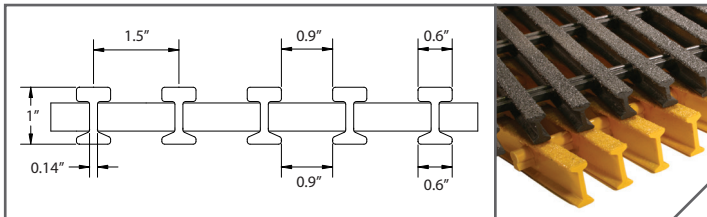
Safe-T-Span industrial grating is available in 1", 1-1/4", and 1-1/2" depths in an I-bar configuration with 40%, 50% and 60% open areas. 2" depth T-bar configuration with 33% or 50% open area is also available for applications which require wider spans or lower deflections. For details and load charts for 1-1/4" depth products, please visit our website at [www.fibergate.com](http://www.fibergate.com) > Products > Pultruded Grating > Custom Pultruded Gratings.

## Grating Details

Refer to chart on page 4 for Grating Selection.

### 1" Deep I6010

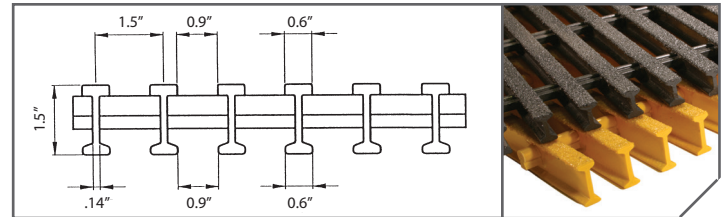
| # of Bars/<br>Ft of Width | Load Bar<br>Depth | Open<br>Area | Load Bar<br>Centers | Approximate<br>Weight |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| 8                         | 1"                | 60%          | 1-1/2"              | 2.7 psf               |



Section Properties per Ft of Width:  $A = 2.64 \text{ IN}^2$   $I = 0.33 \text{ IN}^4$   $S = 0.63 \text{ IN}^3$   
Average EI = 1,700,000 lb - in<sup>2</sup> (SPAN ≥ 24")

### 1-1/2" Deep I6015

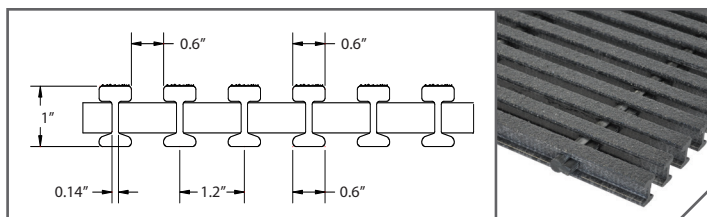
| # of Bars/<br>Ft of Width | Load Bar<br>Depth | Open<br>Area | Load Bar<br>Centers | Approximate<br>Weight |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| 8                         | 1-1/2"            | 60%          | 1-1/2"              | 3.2 psf               |



Section Properties per Ft of Width:  $A = 3.2 \text{ IN}^2$   $I = 0.94 \text{ IN}^4$   $S = 1.2 \text{ IN}^3$   
Average EI = 4,600,000 lb - in<sup>2</sup> (SPAN ≥ 24")

### 1" Deep I5010

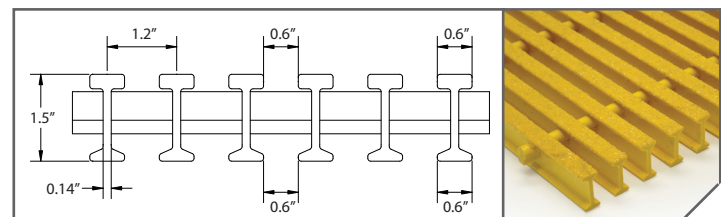
| # of Bars/<br>Ft of Width | Load Bar<br>Depth | Open<br>Area | Load Bar<br>Centers | Approximate<br>Weight |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| 10                        | 1"                | 50%          | 1.2"                | 3.3 psf               |



Section Properties per Ft of Width:  $A = 3.3 \text{ IN}^2$   $I = 0.41 \text{ IN}^4$   $S = 0.79 \text{ IN}^3$   
Average EI = 2,100,000 lb - in<sup>2</sup> (SPAN ≥ 24")

### 1-1/2" Deep I5015

| # of Bars/<br>Ft of Width | Load Bar<br>Depth | Open<br>Area | Load Bar<br>Centers | Approximate<br>Weight |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| 10                        | 1-1/2"            | 50%          | 1.2"                | 3.8 psf               |

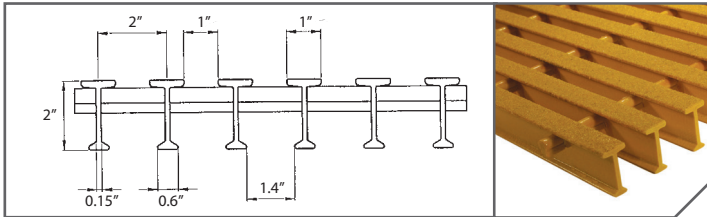


Section Properties per Ft of Width:  $A = 4 \text{ IN}^2$   $I = 1.17 \text{ IN}^4$   $S = 1.65 \text{ IN}^3$   
Average EI = 5,700,000 lb - in<sup>2</sup> (SPAN ≥ 24")

# Safe-T-Span® Industrial Grating Details

## 2" Deep T5020

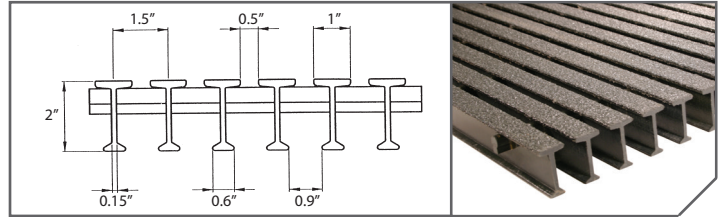
| # of Bars/<br>Ft of Width | Load Bar<br>Depth | Open<br>Area | Load Bar<br>Centers | Approximate<br>Weight |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| 6                         | 2"                | 50%          | 2"                  | 3.4 psf               |



**Section Properties per Ft of Width:** A=3.2 IN<sup>2</sup> I=1.68 IN<sup>4</sup> St=1.96 IN<sup>3</sup> Sb=1.47 IN<sup>3</sup>  
Average EI = 7,600,000 lb - in<sup>2</sup> (SPAN ≥ 24")

## 2" Deep T3320 (ADA Compliant)

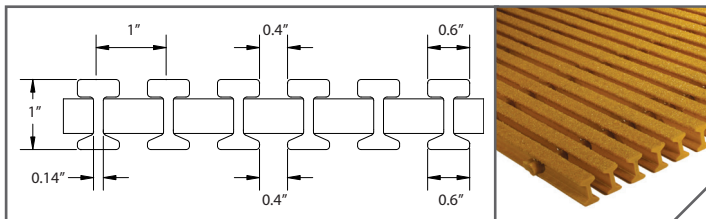
| # of Bars/<br>Ft of Width | Load Bar<br>Depth | Open<br>Area | Load Bar<br>Centers | Approximate<br>Weight |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| 8                         | 2"                | 33%          | 1-1/2"              | 3.7 psf               |



**Section Properties per Ft of Width:** A=4.28 IN<sup>2</sup> I=2.24 IN<sup>4</sup> St=2.61 IN<sup>3</sup> Sb=1.96 IN<sup>3</sup>  
Average EI = 9,200,000 lb - in<sup>2</sup> (SPAN ≥ 24")

## 1" Deep I4010 (ADA Compliant)

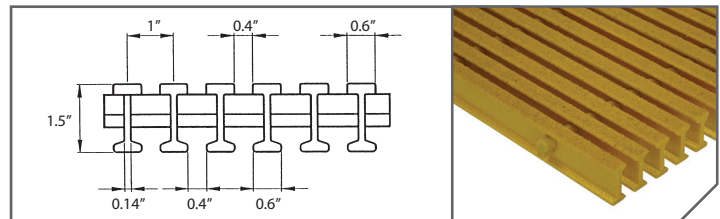
| # of Bars/<br>Ft of Width | Load Bar<br>Depth | Open<br>Area | Load Bar<br>Centers | Approximate<br>Weight |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| 12                        | 1"                | 40%          | 1"                  | 3.8 psf               |



**Section Properties per Ft of Width:** A = 3.96 IN<sup>2</sup> I = 0.5 IN<sup>4</sup> S = 0.95 IN<sup>3</sup>  
Average EI = 2,500,000 lb - in<sup>2</sup> (SPAN ≥ 24")

## 1-1/2" Deep I4015 (ADA Compliant)

| # of Bars/<br>Ft of Width | Load Bar<br>Depth | Open<br>Area | Load Bar<br>Centers | Approximate<br>Weight |
|---------------------------|-------------------|--------------|---------------------|-----------------------|
| 12                        | 1-1/2"            | 40%          | 1"                  | 4.6 psf               |



**Section Properties per Ft of Width:** A = 4.8 IN<sup>2</sup> I = 1.41 IN<sup>4</sup> S = 1.8 IN<sup>3</sup>  
Average EI = 7,000,000 lb - in<sup>2</sup> (SPAN ≥ 24")

## Safe-T-Span® High Load Capacity Grating

High Load Capacity (HI) pultruded grating is yet another product in the arsenal of engineered fiberglass reinforced plastic (FRP) solutions by Fibergrate. While capitalizing on some of the traditional benefits of pultruded grating products - high strength, corrosion resistance, slip resistance, fire retardancy, non conductivity and low maintenance - this pultruded FRP product has been engineered to carry the forklift and tractor trailer loads that traditional pultruded FRP grating products are unable to support.

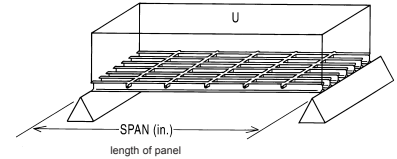
- 37%, 47%, and 58% open surface area
- Available in 1", 1-1/2", 2", 2-1/2", and 3" depths
- Rated for up to H20 loads in all five depths
- Flame spread rating of 25 or less (when tested in accordance with ASTM E-84) and a Class 1 Fire Rating
- HI37 Grating is ADA Compliant



- Standard panels consist of:
  - Fire retardant vinyl ester resin system
  - Dark gray in color
  - Aluminum oxide grit top surface

Each HI grating is specially engineered to meet specific requirements. Contact the Fibergrate engineering team to determine which grating offers the best solution for your high load needs. (Applications with traffic perpendicular to trench or with turning wheel loads, contact Fibergrate engineering for design assistance.)

# Industrial Series Uniform Load Chart

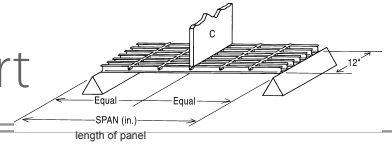


**IMPORTANT:** Load information is different for Phenolic resin gratings. Please contact Fibergrate for Phenolic load information.

| INDUSTRIAL SERIES SAFE-T-SPAN UNIFORM LOAD TABLE - DEFLECTIONS IN INCHES |       |            |      |      |      |      |      |      |                                |                         |
|--|-------|------------|------|------|------|------|------|------|--------------------------------|-------------------------|
| CLEAR SPAN (in)  | STYLE | LOAD (psf) |      |      |      |      |      |      | MAXIMUM RECOMMENDED LOAD (psf) | ULTIMATE CAPACITY (psf) |
|  |       | 50         | 100  | 200  | 300  | 500  | 1000 | 2000 |                                |                         |
| 12   | I6010 | <.01       | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 7140                           | 14280                   |
|  | I6015 | <.01       | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 15240                          | 30480                   |
|  | I5010 | <.01       | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.03 | 8920                           | 17840                   |
|  | I5015 | <.01       | <.01 | <.01 | <.01 | <.01 | <.01 | 0.01 | 19050                          | 38100                   |
|  | T5020 | <.01       | <.01 | <.01 | <.01 | <.01 | <.01 | 0.01 | 15120                          | 30240                   |
|  | I4010 | <.01       | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 10700                          | 21400                   |
|  | I4015 | <.01       | <.01 | <.01 | <.01 | <.01 | <.01 | 0.01 | 22860                          | 45720                   |
|  | T3320 | <.01       | <.01 | <.01 | <.01 | <.01 | <.01 | 0.01 | 20160                          | 40320                   |
| 18   | I6010 | <.01       | 0.01 | 0.02 | 0.02 | 0.04 | 0.08 | 0.16 | 4520                           | 9040                    |
|  | I6015 | <.01       | <.01 | <.01 | 0.01 | 0.01 | 0.03 | 0.06 | 9820                           | 19650                   |
|  | I5010 | <.01       | <.01 | 0.01 | 0.01 | 0.03 | 0.06 | 0.12 | 5640                           | 11290                   |
|  | I5015 | <.01       | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 12280                          | 24560                   |
|  | T5020 | <.01       | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.05 | 10080                          | 20160                   |
|  | I4010 | <.01       | <.01 | 0.01 | 0.02 | 0.03 | 0.05 | 0.11 | 6770                           | 13540                   |
|  | I4015 | <.01       | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 14740                          | 29490                   |
|  | T3320 | <.01       | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 13440                          | 26880                   |
| 24   | I6010 | 0.01       | 0.02 | 0.05 | 0.07 | 0.12 | 0.24 | —    | 2840                           | 5680                    |
|  | I6015 | <.01       | 0.01 | 0.02 | 0.03 | 0.04 | 0.09 | 0.17 | 4880                           | 9760                    |
|  | I5010 | <.01       | 0.01 | 0.04 | 0.05 | 0.09 | 0.19 | —    | 3550                           | 7100                    |
|  | I5015 | <.01       | <.01 | 0.01 | 0.02 | 0.03 | 0.07 | 0.13 | 6100                           | 12200                   |
|  | T5020 | <.01       | <.01 | <.01 | 0.02 | 0.03 | 0.05 | 0.11 | 5940                           | 11880                   |
|  | I4010 | 0.01       | 0.02 | 0.03 | 0.05 | 0.08 | 0.16 | 0.31 | 4260                           | 8520                    |
|  | I4015 | <.01       | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.11 | 7310                           | 14620                   |
|  | T3320 | <.01       | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 0.08 | 7920                           | 15840                   |
| 30   | I6010 | 0.03       | 0.05 | 0.11 | 0.16 | 0.27 | —    | —    | 1840                           | 3680                    |
|  | I6015 | 0.01       | 0.02 | 0.04 | 0.06 | 0.10 | 0.20 | 0.41 | 3600                           | 7200                    |
|  | I5010 | 0.02       | 0.04 | 0.08 | 0.12 | 0.21 | 0.44 | —    | 2300                           | 4600                    |
|  | I5015 | <.01       | 0.01 | 0.03 | 0.04 | 0.08 | 0.16 | 0.32 | 4500                           | 9000                    |
|  | T5020 | <.01       | 0.01 | 0.02 | 0.03 | 0.06 | 0.13 | 0.25 | 4160                           | 8320                    |
|  | I4010 | 0.02       | 0.04 | 0.07 | 0.11 | 0.18 | 0.36 | —    | 2760                           | 5520                    |
|  | I4015 | <.01       | 0.01 | 0.03 | 0.04 | 0.07 | 0.14 | 0.27 | 5400                           | 10800                   |
|  | T3320 | <.01       | 0.01 | 0.02 | 0.03 | 0.05 | 0.09 | 0.19 | 5540                           | 11080                   |
| 36   | I6010 | 0.05       | 0.10 | 0.21 | 0.31 | —    | —    | —    | 1310                           | 2620                    |
|  | I6015 | 0.02       | 0.04 | 0.08 | 0.11 | 0.19 | 0.38 | —    | 2500                           | 5000                    |
|  | I5010 | 0.04       | 0.08 | 0.16 | 0.24 | —    | —    | —    | 1640                           | 3280                    |
|  | I5015 | 0.01       | 0.03 | 0.06 | 0.08 | 0.15 | 0.30 | —    | 3120                           | 6240                    |
|  | T5020 | 0.01       | 0.02 | 0.05 | 0.07 | 0.12 | 0.23 | 0.47 | 2880                           | 5760                    |
|  | I4010 | 0.03       | 0.07 | 0.14 | 0.21 | 0.35 | —    | —    | 1960                           | 3930                    |
|  | I4015 | 0.01       | 0.03 | 0.05 | 0.08 | 0.13 | 0.25 | 0.50 | 3750                           | 7500                    |
|  | T3320 | 0.01       | 0.02 | 0.04 | 0.05 | 0.09 | 0.18 | 0.35 | 3840                           | 7680                    |
| 42   | I6010 | 0.09       | 0.19 | 0.37 | —    | —    | —    | —    | 950                            | 1900                    |
|  | I6015 | 0.04       | 0.07 | 0.14 | 0.21 | 0.35 | —    | —    | 1840                           | 3680                    |
|  | I5010 | 0.07       | 0.15 | 0.29 | 0.44 | —    | —    | —    | 1190                           | 2380                    |
|  | I5015 | 0.03       | 0.05 | 0.11 | 0.16 | 0.28 | —    | —    | 2300                           | 4600                    |
|  | T5020 | 0.02       | 0.05 | 0.09 | 0.14 | 0.23 | 0.45 | —    | 2120                           | 4240                    |
|  | I4010 | 0.06       | 0.12 | 0.25 | 0.37 | —    | —    | —    | 1430                           | 2860                    |
|  | I4015 | 0.02       | 0.05 | 0.09 | 0.14 | 0.23 | 0.47 | —    | 2760                           | 5520                    |
|  | T3320 | 0.02       | 0.03 | 0.07 | 0.10 | 0.17 | 0.34 | —    | 2820                           | 5650                    |
| 48   | I6010 | 0.14       | 0.29 | —    | —    | —    | —    | —    | 720                            | 1440                    |
|  | I6015 | 0.06       | 0.11 | 0.23 | 0.34 | —    | —    | —    | 1410                           | 2820                    |
|  | I5010 | 0.11       | 0.23 | 0.45 | —    | —    | —    | —    | 900                            | 1800                    |
|  | I5015 | 0.04       | 0.08 | 0.18 | 0.27 | 0.45 | —    | —    | 1760                           | 3520                    |
|  | T5020 | 0.04       | 0.07 | 0.14 | 0.21 | 0.36 | —    | —    | 1620                           | 3240                    |
|  | I4010 | 0.10       | 0.19 | 0.38 | —    | —    | —    | —    | 1080                           | 2160                    |
|  | I4015 | 0.04       | 0.08 | 0.15 | 0.23 | 0.38 | —    | —    | 2110                           | 4220                    |
|  | T3320 | 0.03       | 0.05 | 0.11 | 0.16 | 0.27 | —    | —    | 2160                           | 4320                    |
| 54   | I6010 | 0.25       | —    | —    | —    | —    | —    | —    | 570                            | 1140                    |
|  | I6015 | 0.10       | 0.19 | 0.39 | —    | —    | —    | —    | 1110                           | 2220                    |
|  | I5010 | 0.20       | 0.40 | —    | —    | —    | —    | —    | 710                            | 1420                    |
|  | I5015 | 0.08       | 0.15 | 0.31 | 0.46 | —    | —    | —    | 1380                           | 2770                    |
|  | T5020 | 0.06       | 0.12 | 0.24 | 0.36 | —    | —    | —    | 1280                           | 2560                    |
|  | I4010 | 0.17       | 0.34 | —    | —    | —    | —    | —    | 850                            | 1700                    |
|  | I4015 | 0.06       | 0.13 | 0.26 | 0.39 | —    | —    | —    | 1670                           | 3340                    |
|  | T3320 | 0.04       | 0.09 | 0.18 | 0.27 | 0.45 | —    | —    | 1680                           | 3360                    |
| 60   | I6010 | 0.42       | —    | —    | —    | —    | —    | —    | 460                            | 920                     |
|  | I6015 | 0.15       | 0.31 | —    | —    | —    | —    | —    | 900                            | 1800                    |
|  | I5010 | 0.33       | —    | —    | —    | —    | —    | —    | 570                            | 1150                    |
|  | I5015 | 0.12       | 0.24 | 0.49 | —    | —    | —    | —    | 1120                           | 2250                    |
|  | T5020 | 0.09       | 0.18 | 0.36 | —    | —    | —    | —    | 1040                           | 2080                    |
|  | I4010 | 0.28       | —    | —    | —    | —    | —    | —    | 690                            | 1380                    |
|  | I4015 | 0.10       | 0.21 | 0.41 | —    | —    | —    | —    | 1350                           | 2700                    |
|  | T3320 | 0.07       | 0.14 | 0.27 | 0.41 | —    | —    | —    | 1360                           | 2720                    |
| 72   | I6015 | 0.34       | —    | —    | —    | —    | —    | —    | 630                            | 1260                    |
|  | I5015 | 0.27       | —    | —    | —    | —    | —    | —    | 780                            | 1570                    |
|  | T5020 | 0.18       | 0.35 | —    | —    | —    | —    | —    | 720                            | 1440                    |
|  | I4015 | 0.23       | 0.45 | —    | —    | —    | —    | —    | 940                            | 1880                    |
|  | T3320 | 0.13       | 0.26 | —    | —    | —    | —    | —    | 950                            | 1900                    |

- NOTES:**
- The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 2:1 factor of safety on ULTIMATE CAPACITY.
  - ULTIMATE CAPACITY represents a complete and total failure of the grating. Values are provided to illustrate the reserve strength of the grating at a given span and are NOT to be used for design. Functionality of grating is limited to MAX RECOMMENDED LOAD.
  - Walking loads, typically 50-65 PSF maximum are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 3/8" or CLEAR SPAN divided by 125; for a firmer feel, limit deflection to the lesser of 1/4" or CLEAR SPAN divided by 200.
  - The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a maximum of ONE-HALF the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance. For applications at elevated temperatures, consult factory. The designer is further referenced to the ASCE Structural Plastics Design Manual.
  - All gratings were tested in accordance with the ANSI Standard: FRP Composites Grating Manual for Pultruded and Molded Grating and Stair Treads.

# Industrial Series Concentrated Line Load Chart



**IMPORTANT:** Load information is different for Phenolic resin gratings. Please contact Fibergate for Phenolic load information.

## INDUSTRIAL SERIES SAFE-T-SPAN CONCENTRATED LINE LOAD TABLE - DEFLECTIONS IN INCHES

| CLEAR SPAN (in) | STYLE | LOAD (LBS/FT of Width) |      |      |      |      |      |      | MAXIMUM RECOM. LOAD (lbs/ft) | ULTIMATE CAPACITY (lbs/ft) |
|-----------------|-------|------------------------|------|------|------|------|------|------|------------------------------|----------------------------|
|                 |       | 50                     | 100  | 200  | 300  | 500  | 1000 | 2000 |                              |                            |
| 12              | I6010 | <.01                   | <.01 | <.01 | <.01 | 0.01 | 0.03 | 0.06 | 3570                         | 7140                       |
|                 | I6015 | <.01                   | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 7620                         | 15240                      |
|                 | I5010 | <.01                   | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.05 | 4460                         | 8920                       |
|                 | I5015 | <.01                   | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 9520                         | 19050                      |
|                 | T5020 | <.01                   | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 7560                         | 15120                      |
|                 | I4010 | <.01                   | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 5350                         | 10700                      |
|                 | I4015 | <.01                   | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 11430                        | 22860                      |
|                 | T3320 | <.01                   | <.01 | <.01 | <.01 | <.01 | <.01 | 0.01 | 10080                        | 20160                      |
| 18              | I6010 | <.01                   | 0.01 | 0.02 | 0.03 | 0.04 | 0.09 | 0.17 | 3390                         | 6780                       |
|                 | I6015 | <.01                   | <.01 | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 7370                         | 14740                      |
|                 | I5010 | <.01                   | 0.01 | 0.02 | 0.02 | 0.03 | 0.07 | 0.14 | 4230                         | 8470                       |
|                 | I5015 | <.01                   | <.01 | <.01 | 0.01 | 0.02 | 0.02 | 0.05 | 9210                         | 18420                      |
|                 | T5020 | <.01                   | <.01 | <.01 | <.01 | 0.01 | 0.03 | 0.05 | 7560                         | 15120                      |
|                 | I4010 | <.01                   | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.12 | 5080                         | 10160                      |
|                 | I4015 | <.01                   | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 11060                        | 22120                      |
|                 | T3320 | <.01                   | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 10080                        | 20160                      |
| 24              | I6010 | 0.01                   | 0.02 | 0.04 | 0.06 | 0.09 | 0.19 | 0.38 | 2840                         | 5680                       |
|                 | I6015 | <.01                   | <.01 | 0.01 | 0.02 | 0.03 | 0.07 | 0.14 | 4880                         | 9760                       |
|                 | I5010 | 0.01                   | 0.02 | 0.03 | 0.05 | 0.07 | 0.15 | 0.30 | 3550                         | 7100                       |
|                 | I5015 | <.01                   | <.01 | 0.01 | 0.02 | 0.02 | 0.06 | 0.11 | 6100                         | 12200                      |
|                 | T5020 | <.01                   | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 0.08 | 5940                         | 11880                      |
|                 | I4010 | <.01                   | 0.01 | 0.03 | 0.04 | 0.06 | 0.13 | 0.25 | 4260                         | 8520                       |
|                 | I4015 | <.01                   | <.01 | <.01 | 0.01 | 0.02 | 0.05 | 0.10 | 7310                         | 14620                      |
|                 | T3320 | <.01                   | <.01 | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 7920                         | 15840                      |
| 30              | I6010 | 0.02                   | 0.03 | 0.07 | 0.10 | 0.17 | 0.35 | —    | 2300                         | 4600                       |
|                 | I6015 | <.01                   | 0.01 | 0.03 | 0.04 | 0.06 | 0.13 | 0.26 | 4500                         | 9000                       |
|                 | I5010 | 0.02                   | 0.02 | 0.06 | 0.08 | 0.14 | 0.28 | —    | 2870                         | 5750                       |
|                 | I5015 | <.01                   | 0.01 | 0.02 | 0.03 | 0.05 | 0.10 | 0.21 | 5620                         | 11250                      |
|                 | T5020 | <.01                   | <.01 | 0.01 | 0.02 | 0.04 | 0.08 | 0.16 | 5200                         | 10400                      |
|                 | I4010 | 0.01                   | 0.02 | 0.05 | 0.07 | 0.12 | 0.23 | 0.47 | 3450                         | 6900                       |
|                 | I4015 | <.01                   | 0.01 | 0.02 | 0.03 | 0.05 | 0.11 | 0.22 | 6750                         | 13500                      |
|                 | T3320 | <.01                   | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.12 | 6930                         | 13860                      |
| 36              | I6010 | 0.03                   | 0.06 | 0.11 | 0.17 | 0.28 | —    | —    | 1970                         | 3940                       |
|                 | I6015 | 0.01                   | 0.02 | 0.04 | 0.06 | 0.10 | 0.20 | 0.40 | 3750                         | 7500                       |
|                 | I5010 | 0.02                   | 0.05 | 0.09 | 0.14 | 0.22 | 0.44 | —    | 2460                         | 4920                       |
|                 | I5015 | 0.01                   | 0.02 | 0.03 | 0.05 | 0.08 | 0.16 | 0.32 | 4680                         | 9370                       |
|                 | T5020 | <.01                   | 0.01 | 0.02 | 0.04 | 0.06 | 0.12 | 0.25 | 4320                         | 8640                       |
|                 | I4010 | 0.02                   | 0.04 | 0.07 | 0.11 | 0.18 | 0.37 | —    | 2950                         | 5900                       |
|                 | I4015 | <.01                   | 0.01 | 0.03 | 0.04 | 0.07 | 0.13 | 0.26 | 5630                         | 11260                      |
|                 | T3320 | <.01                   | 0.01 | 0.02 | 0.03 | 0.05 | 0.09 | 0.19 | 5760                         | 11520                      |
| 42              | I6010 | 0.04                   | 0.08 | 0.17 | 0.25 | 0.42 | —    | —    | 1670                         | 3340                       |
|                 | I6015 | 0.02                   | 0.03 | 0.06 | 0.10 | 0.16 | 0.32 | —    | 3220                         | 6440                       |
|                 | I5010 | 0.03                   | 0.06 | 0.14 | 0.20 | 0.34 | —    | —    | 2080                         | 4170                       |
|                 | I5015 | 0.02                   | 0.02 | 0.05 | 0.08 | 0.13 | 0.26 | —    | 4020                         | 8050                       |
|                 | T5020 | 0.01                   | 0.02 | 0.04 | 0.06 | 0.10 | 0.21 | 0.41 | 3710                         | 7420                       |
|                 | I4010 | 0.03                   | 0.06 | 0.11 | 0.17 | 0.28 | —    | —    | 2500                         | 5000                       |
|                 | I4015 | 0.01                   | 0.02 | 0.04 | 0.06 | 0.11 | 0.21 | 0.42 | 4820                         | 9640                       |
|                 | T3320 | 0.01                   | 0.02 | 0.03 | 0.05 | 0.08 | 0.16 | 0.31 | 4950                         | 9900                       |
| 48              | I6010 | 0.06                   | 0.11 | 0.23 | 0.34 | —    | —    | —    | 1440                         | 2880                       |
|                 | I6015 | 0.02                   | 0.05 | 0.09 | 0.14 | 0.23 | 0.46 | —    | 2810                         | 5620                       |
|                 | I5010 | 0.05                   | 0.09 | 0.18 | 0.27 | 0.46 | —    | —    | 1800                         | 3600                       |
|                 | I5015 | 0.02                   | 0.04 | 0.07 | 0.11 | 0.18 | 0.37 | —    | 3510                         | 7020                       |
|                 | T5020 | 0.01                   | 0.03 | 0.06 | 0.09 | 0.15 | 0.29 | —    | 3250                         | 6500                       |
|                 | I4010 | 0.04                   | 0.08 | 0.15 | 0.23 | 0.38 | —    | —    | 2160                         | 4320                       |
|                 | I4015 | 0.02                   | 0.03 | 0.06 | 0.09 | 0.15 | 0.30 | —    | 4220                         | 8440                       |
|                 | T3320 | 0.01                   | 0.02 | 0.04 | 0.07 | 0.11 | 0.22 | 0.44 | 4330                         | 8660                       |
| 54              | I6010 | 0.09                   | 0.18 | 0.36 | —    | —    | —    | —    | 1280                         | 2560                       |
|                 | I6015 | 0.03                   | 0.07 | 0.14 | 0.21 | 0.35 | —    | —    | 2500                         | 5000                       |
|                 | I5010 | 0.07                   | 0.14 | 0.29 | 0.43 | —    | —    | —    | 1600                         | 3200                       |
|                 | I5015 | 0.02                   | 0.06 | 0.11 | 0.17 | 0.28 | —    | —    | 3120                         | 6250                       |
|                 | T5020 | 0.02                   | 0.04 | 0.08 | 0.13 | 0.21 | 0.42 | —    | 2890                         | 5780                       |
|                 | I4010 | 0.06                   | 0.12 | 0.24 | 0.36 | —    | —    | —    | 1920                         | 3840                       |
|                 | I4015 | 0.03                   | 0.05 | 0.09 | 0.14 | 0.23 | 0.46 | —    | 3750                         | 7500                       |
|                 | T3320 | 0.02                   | 0.03 | 0.06 | 0.10 | 0.16 | 0.32 | —    | 3780                         | 7560                       |
| 60              | I6010 | 0.13                   | 0.27 | —    | —    | —    | —    | —    | 1150                         | 2300                       |
|                 | I6015 | 0.05                   | 0.10 | 0.20 | 0.30 | 0.49 | —    | —    | 2250                         | 4500                       |
|                 | I5010 | 0.10                   | 0.22 | 0.43 | —    | —    | —    | —    | 1430                         | 2870                       |
|                 | I5015 | 0.04                   | 0.08 | 0.16 | 0.24 | 0.39 | —    | —    | 2810                         | 5620                       |
|                 | T5020 | 0.03                   | 0.06 | 0.12 | 0.17 | 0.29 | —    | —    | 2600                         | 5200                       |
|                 | I4010 | 0.09                   | 0.18 | 0.36 | —    | —    | —    | —    | 1730                         | 3460                       |
|                 | I4015 | 0.04                   | 0.07 | 0.13 | 0.20 | 0.33 | —    | —    | 3380                         | 6760                       |
|                 | T3320 | 0.02                   | 0.04 | 0.09 | 0.13 | 0.22 | 0.44 | —    | 3400                         | 6800                       |
| 72              | I6010 | 0.26                   | —    | —    | —    | —    | —    | —    | 960                          | 1920                       |
|                 | I6015 | 0.09                   | 0.18 | 0.36 | —    | —    | —    | —    | 1880                         | 3760                       |
|                 | I5010 | 0.21                   | 0.41 | —    | —    | —    | —    | —    | 1200                         | 2400                       |
|                 | I5015 | 0.07                   | 0.14 | 0.29 | 0.43 | —    | —    | —    | 2350                         | 4700                       |
|                 | T5020 | 0.05                   | 0.09 | 0.19 | 0.28 | 0.47 | —    | —    | 2170                         | 4340                       |
|                 | I4010 | 0.17                   | 0.34 | —    | —    | —    | —    | —    | 1440                         | 2880                       |
|                 | I4015 | 0.06                   | 0.12 | 0.24 | 0.36 | —    | —    | —    | 2810                         | 5620                       |
|                 | T3320 | 0.04                   | 0.07 | 0.14 | 0.21 | 0.35 | —    | —    | 2830                         | 5660                       |

**NOTES:**

- The designer should not exceed the MAX RECOMMENDED LOAD at any given span. MAX RECOMMENDED LOAD represents a 2:1 factor of safety on ULTIMATE CAPACITY.
- ULTIMATE CAPACITY represents a complete and total failure of the grating. Values are provided to illustrate the reserve strength of the grating at a given span and are NOT to be used for design. Functionality of grating is limited to MAX RECOMMENDED LOAD.
- Walking loads, typically 50-65 PSF maximum are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 3/8" or CLEAR SPAN divided by 125; for a firmer feel, limit deflection to the lesser of 1/4" or CLEAR SPAN divided by 200.
- The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a maximum of ONE-HALF the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance. For applications at elevated temperatures, consult factory. The designer is further referenced to the ASCE Structural Plastics Design Manual.
- All gratings were tested in accordance with the ANSI Standard: FRP Composites Grating Manual for Pultruded and Molded Grating and Stair Treads.