

Safe-T-Span® Industrial Grating Details



I4010 & I6010 Grating



Copper Mining Facility



Offshore Oil & Gas Platform

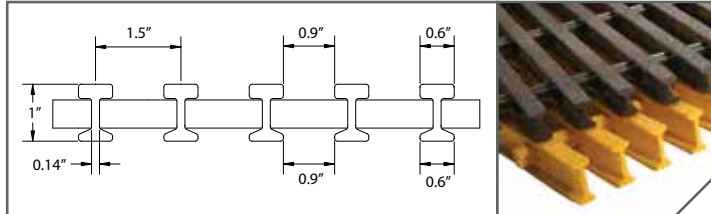
Safe-T-Span industrial grating is available in 1", 1-1/4" and 1-1/2" depths in an I-bar configuration with 40%, 50% and 60% open areas. 2" depth T-bar configuration with 33% or 50% open area is also available for applications which require wider spans or lower deflections. For details and load charts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

Grating Details

Refer to chart on page 4 for Grating Selection.

1" Deep I6010

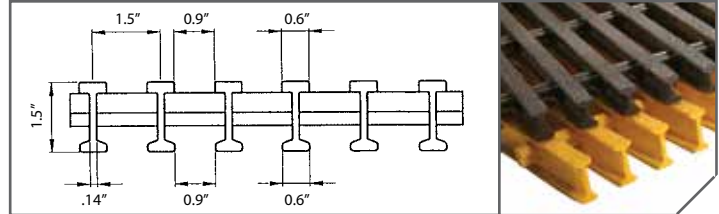
# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
8	1"	60%	1-1/2"	2.72 psf



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 - in² (SPAN ≥ 24")

1-1/2" Deep I6015

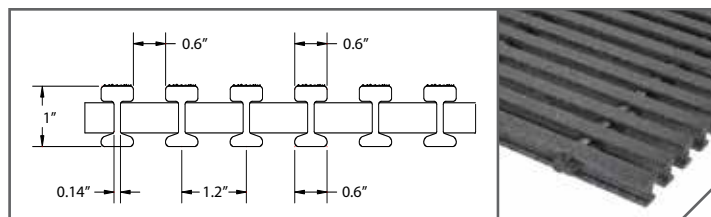
# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
8	1-1/2"	60%	1-1/2"	3.16 psf



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 - in² (SPAN ≥ 24")

1" Deep I5010

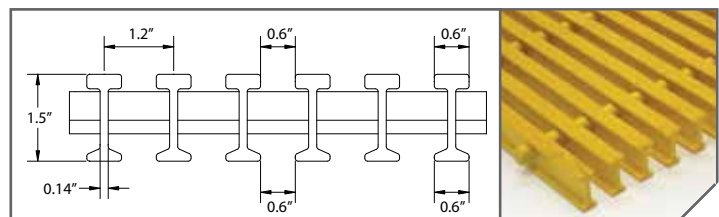
# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
10	1"	50%	1.2"	3.26 psf



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 - in² (SPAN ≥ 24")

1-1/2" Deep I5015

# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
10	1-1/2"	50%	1.2"	3.84 psf

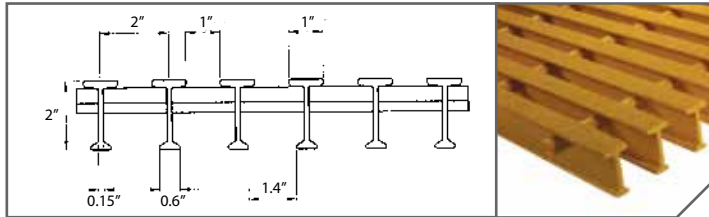


Section Properties per Ft of Width: $A = 4 \text{ IN}^2$ $I = 1.17 \text{ IN}^4$ $S = 1.65 \text{ IN}^3$
Average EI = 5,700,000 lb - in² (SPAN ≥ 24")

Safe-T-Span® Industrial Grating Details

2" Deep T5020

# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
6	2"	50%	2"	2.10 psf

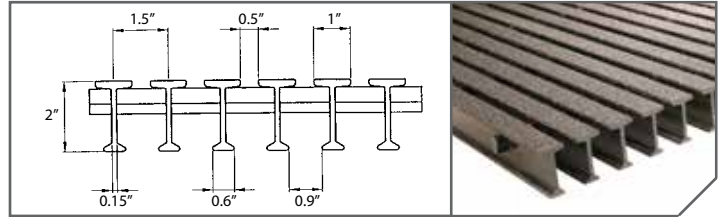


Section Properties per Ft of Width: $A=3.2 \text{ IN}^2$ $I=1.68 \text{ IN}^4$ $St=1.96 \text{ IN}^3$ $Sb=1.47 \text{ IN}^3$
Average $EI = 7,600,000 \text{ lb} \cdot \text{in}^2$ (SPAN $\geq 24'$)

2" Deep T3320 (ADA Compliant)



# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
8	2"	33%	1-1/2"	3.69 psf

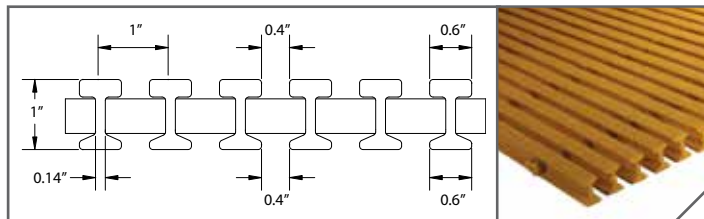


Section Properties per Ft of Width: $A=4.28 \text{ IN}^2$ $I=2.24 \text{ IN}^4$ $St=2.61 \text{ IN}^3$ $Sb=1.96 \text{ IN}^3$
Average $EI = 9,200,000 \text{ lb} \cdot \text{in}^2$ (SPAN $\geq 24'$)

1" Deep I4010 (ADA Compliant)



# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
12	1"	40%	1"	3.77 psf

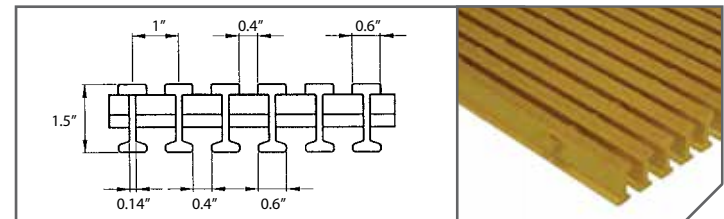


Section Properties per Ft of Width: $A = 3.96 \text{ IN}^2$ $I = 0.5 \text{ IN}^4$ $S = 0.95 \text{ IN}^3$
Average $EI = 2,500,000 \text{ lb} \cdot \text{in}^2$ (SPAN $\geq 24'$)

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



# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
12	1-1/2"	40%	1"	4.60 psf



Section Properties per Ft of Width: $A = 4.8 \text{ IN}^2$ $I = 1.41 \text{ IN}^4$ $S = 1.8 \text{ IN}^3$
Average $EI = 7,000,000 \text{ lb} \cdot \text{in}^2$ (SPAN $\geq 24'$)

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.

- 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



- 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.)