Safe-T-Span® Pedestrian Grating Details

Designed specifically for pedestrian walkways, Fibergrate's Safe-T-Span pultruded pedestrian grating is ideal for applications where a slip resistant, corrosion resistant, durable, lightweight material is required. Safe-T-Span pedestrian pultruded grating is available in 1" and 1-1/2" depths and in several configurations and panel sizes. Safe-T-Span 1" deep pedestrian grating is designed for access areas and walkways where pedestrian traffic is the heaviest load. Pedestrian 1-1/2" deep grating is approximately three times stiffer than the 1" deep version and is used for applications where wider spans (up to 72") or lower deflection criteria are required.
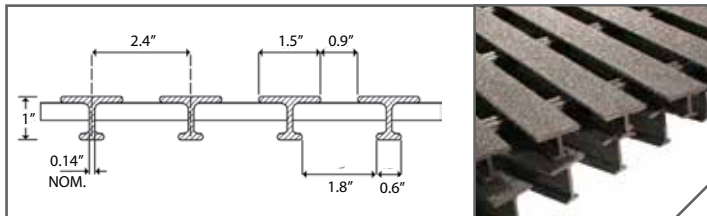
Pontoon Boardwalk in Portland, Oregon

Grating Details
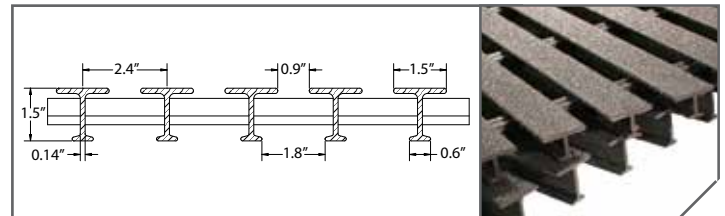Refer to chart on page 4 for Grating Selection.

1" Deep T3810

# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
5	1"	38%	2.4"	1.90 psf

Section Properties per Ft of Width: A=1.76 IN² I=0.23 IN⁴ St=0.65 IN³ Sb=0.35 IN³

Average EI = 1,120,000 lb - in² (SPAN ≥ 24")

1-1/2" Deep T3815

# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
5	1-1/2"	38%	2.4"	2.70 psf

Section Properties per Ft of Width: A=2.28 IN² I=0.66 IN⁴ St=1.23 IN³ Sb=0.69 IN³

Average EI = 3,440,000 lb - in² (SPAN ≥ 24")

1" Deep T2510 (ADA Compliant)

# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
6	1"	25%	2"	2.51 psf
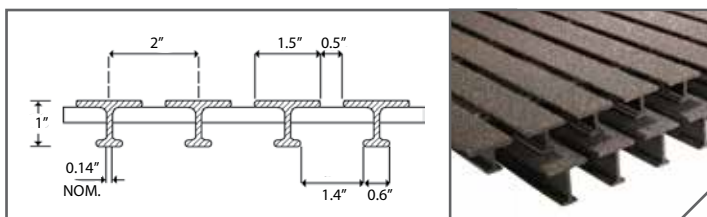
Section Properties per Ft of Width: A=2.11 IN² I=0.27 IN⁴ St=0.79 IN³ Sb=0.42 IN³

Average EI = 1,340,000 lb - in² (SPAN ≥ 24")

1-1/2" Deep T2515 (ADA Compliant)

# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
6	1-1/2"	25%	2"	2.82 psf
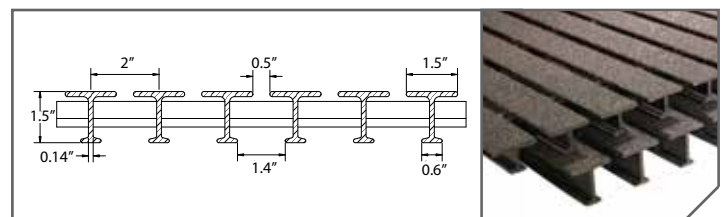
Section Properties per Ft of Width: A=2.73 IN² I=0.8 IN⁴ St=1.47 IN³ Sb=0.83 IN³

Average EI = 4,130,000 lb - in² (SPAN ≥ 24")

Aqua Grate® Pedestrian Grating Details

Aqua Grate T1210 and T1215 pultruded pedestrian grating is specifically engineered to withstand the corrosive conditions associated with recreational and general marine applications and to meet ADA guidelines. With its nominal 1/4" space between the 1-1/2" wide bearing bars, Aqua Grate offers optimum comfort and safety for bathers walking with bare feet — a must in high traffic, public recreational areas. Aqua Grate grating has a unique combination of corrosion resistance and light weight which provides easy, inexpensive installations in such facilities as swimming pools, water parks, marinas and piers.

Boat dock on Horseshoe Lake in Haliburton, Ontario.

Aqua Grate is available in a variety of lengths and widths, making it useful for a number of waterfront and recreational applications. The fine grit surface of Aqua Grate provides a high level of slip resistance, yet at the same time offers a comfortable barefoot walking surface. Protection against long-term UV exposure is provided by a synthetic surfacing veil and UV inhibitors in the resin formulation. Whether subjected to chlorinated water in public and private pools or salt water environments found in marine and waterfront applications, Aqua Grate will offer years of low cost, low maintenance service.
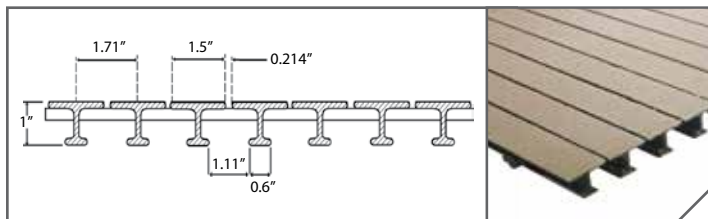

Corinthian Yacht Club Harbor in San Francisco, California.

Grating Details

Refer to chart on page 4 for Grating Selection.

1" Deep T1210 (ADA Compliant)

# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
7	1"	12%	1.714"	2.75 psf

Section Properties per Ft of Width: A=2.46 IN^2 I=0.32 IN^4 St=0.94 IN^3 Sb=0.49 IN^3
Average EI = 1,568,000 lb - in^2 (SPAN ≥ 24")

1-1/2" Deep T1215 (ADA Compliant)

# of Bars/ Ft of Width	Load Bar Depth	Open Area	Load Bar Centers	Approximate Weight
7	1-1/2"	12%	1.714"	3.07 psf
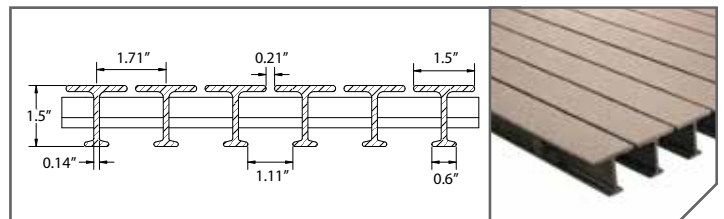
Section Properties per Ft of Width: A=3.19 IN^2 I=0.93 IN^4 St=1.72 IN^3 Sb=0.97 IN^3
Average EI = 4,827,000 lb - in^2 (SPAN ≥ 24")