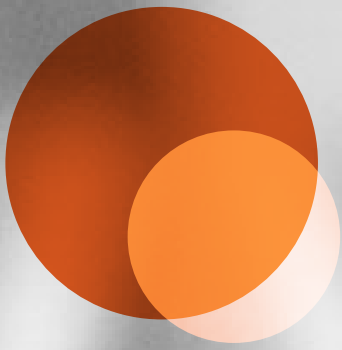
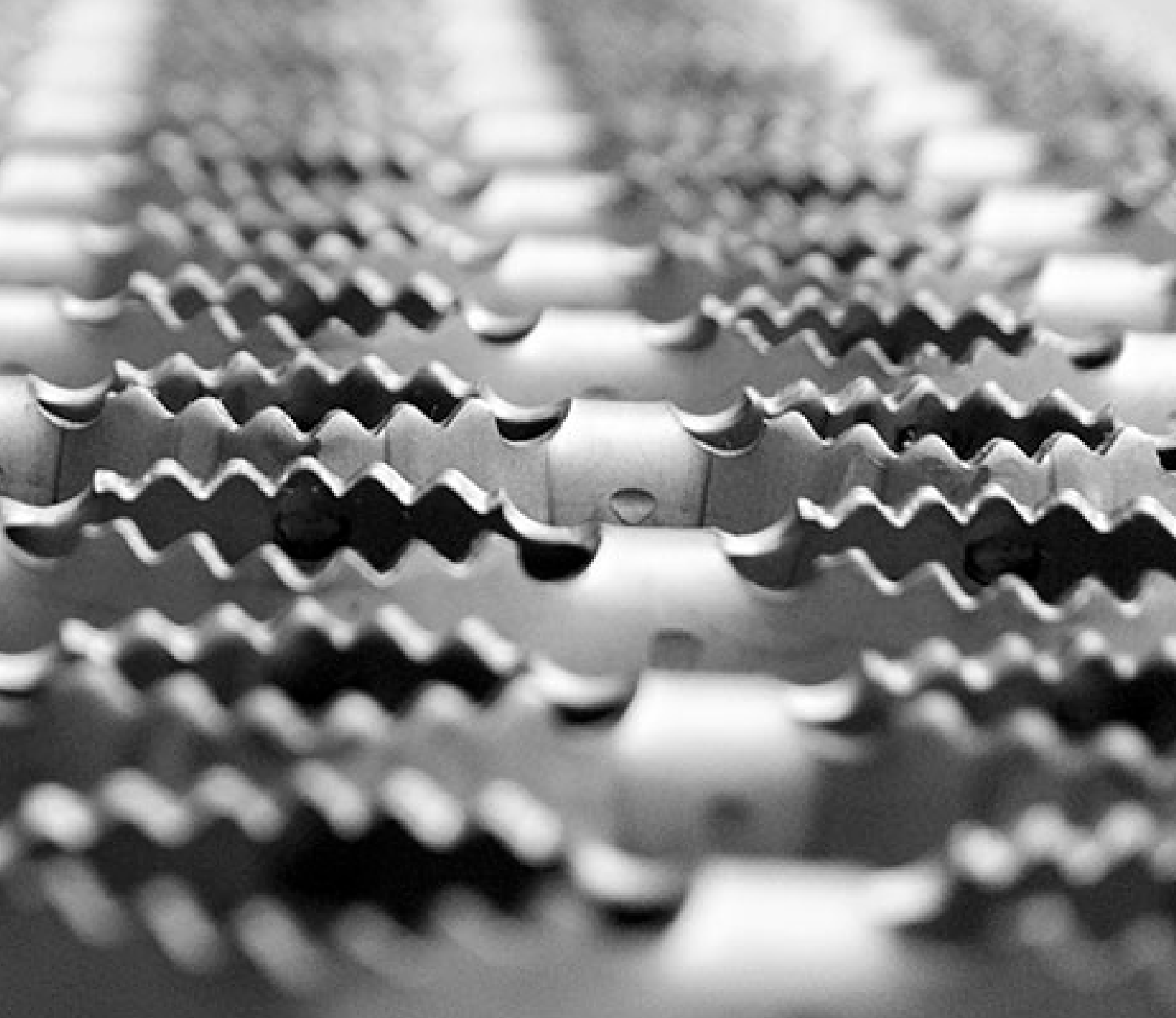




# Grip-Strut Safety Grating





## ABOUT QIUSUO

**Hebei Qiusuo Wire Mesh Products Co., Ltd.**, located in Anping, Hebei, China, is a professional decorative metal sheets manufacturer. The factory was founded in 1998. The widest products ranging from **safety gratings**, perforated metal sheets, expanded metal sheets and so on.

As a manufacturing and trading combo, we own workshops of punching, laser cutting, metal expanding, welding and quality inspection department. As a result of our high quality products and outstanding customer service, we have gained a global sales network reaching to the USA, Middle-East, Europe and Africa, etc.

Just send us your drawing and picture, we can individually tailored solutions for every customer. We have 10 experienced foreign trade sales staff in our sales department. They can answer and resolve all your problems and even can individually tailored solutions for every customer.



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## BRIEF INTRODUCTION

Personal safety has always been a highly valued issue in the process of industrial production and building construction. Safety gratings can effectively avoid the occurrence of this problem. According to different application environments and anti-skid grade requirements, we produce and offer the safety gratings with different patterns. Main products include grip-strut (diamond-grip) safety gratings, O-grip safety gratings, traction grip safety gratings and interlocking safety gratings.

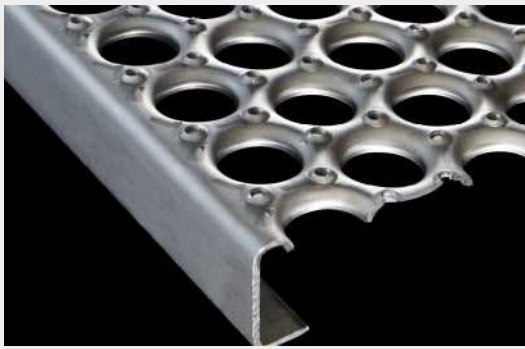


## GENERAL MATERIALS



### Pre-galvanized carbon steel

Galvanizing process can effectively prevent steel corrosion and rust, so as to prolong the service life of steel.



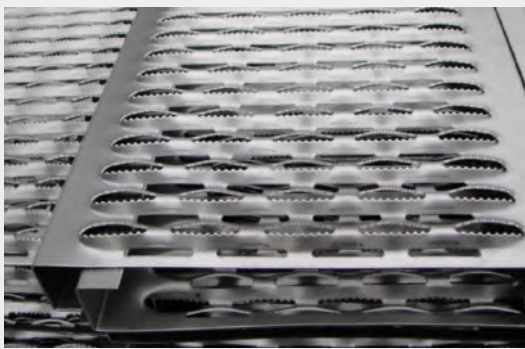
### HRPO carbon steel

Hot Rolled Pickled and Oiled (HRPO) steel is produced to protect the steel from rust and corrosion. This type of material is good for fabricating, welding, bending and cold forming. Finished products have a clean and flat surface that can be used in a variety of applications.



### Aluminum

We adopt 5052-H32 aluminum as material. Its main alloying element is magnesium, which has excellent formability, corrosion resistance, weldability and medium strength. The load capacity of 5052-H32 aluminum can be up to 0.5 lbs./ft.



### Stainless steel

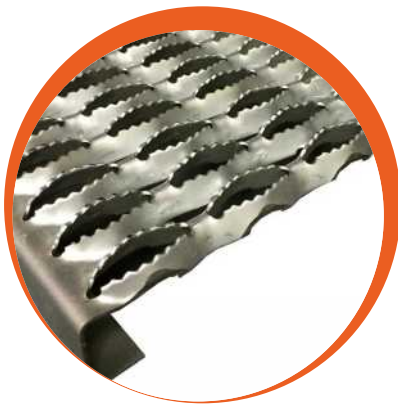
Stainless steel has good corrosion resistance, heat resistance, low temperature strength and mechanical properties. It also has good hot workability such as stamping and bending.



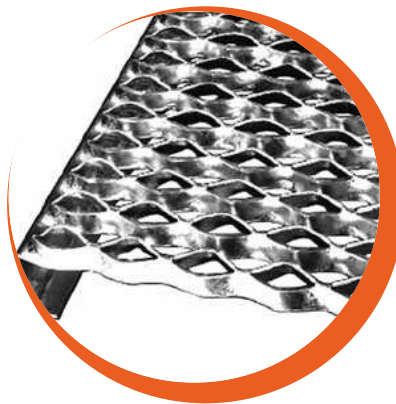


## GRIP-STRUT SAFETY GRATING

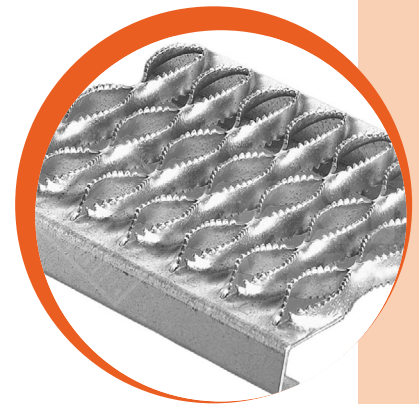
Grip-strut safety gratings, with one-piece diamond opening configuration, can avoid the deposition of fluids, ice, snow, detergents, grease, chemicals, mud, chips and debris. In the meantime, the unique designed construction can catch falling tools or any other dangerous items to prevent the accidents caused by upper unknown falling objects.



Serrated



Non-serrated



Heavy duty

## Grip-strut safety gratings are commonly used as

### Plank & Walkway

#### Material thickness

- Carbon steel: 9, 10, 11, 14, 16 gauge.
- Aluminum: 0.08", 0.10", 0.125".

**Diamond number:** 5-diamond, 6-diamond, 8-diamond, 10-diamond.

#### Length:

- Plank: 10', 12', 24'.
- Walkway: 10', 12'.

#### Width:

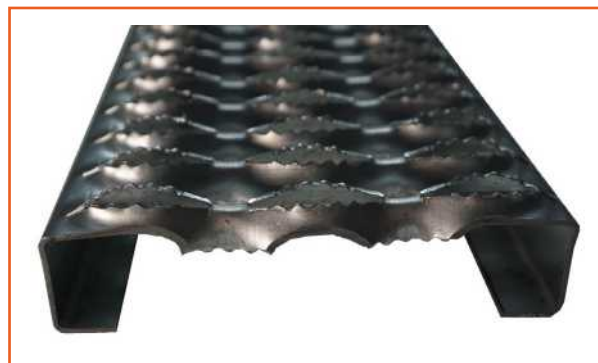
- Plank: 9-1/4", 13-3/4", 23-1/4", 36".
- Walkway: 24", 30", 36".

#### Channel height: 5", 4-1/2".

- Plank: 2", 2-1/2", 3", 4".
- Walkway: 5".

**Clear span:** 2', 2.5', 3', 3.5', 4', 4.5', 5', 5.5', 6', 6.5', 7', 7.5', 8', 9', 10', 11', 12'.

**Slip resistance:** complies with Federal Specification RR-G-1602D standards.





## GRIP-STRUT SAFETY GRATING

### Stair Treads

**Types:** standard or stair treads with nosing.

**Thickness:**

- Carbon steel: 10, 12, 14, 16 gauge..
- Aluminum: 0.125".

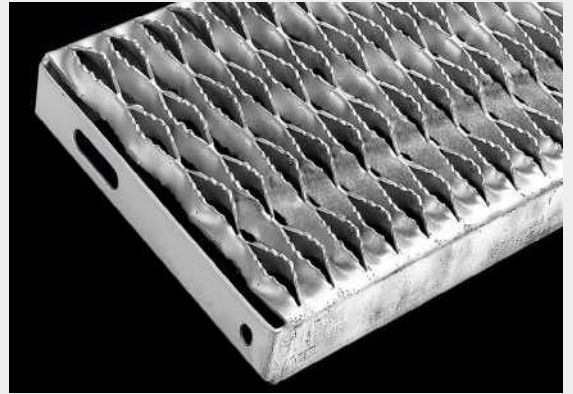
**Channel height:** 1-1/2", 2".

**Width:** 4-3/4", 5-3/4", 7", 8-1/8", 9-1/2", 10-1/2", 11-3/4", 12-3/4".

**Length:** 2", 21/2", 36", 4".

**Clear span:** 2', 2.5', 3', 4'.

**Slip resistance:** complies with Federal Specification RR-G-1602D standards.



### Ladder Rungs

**Types:** standard & reverse diamond (vertical opening & parallel opening to the length).

**Width:**

- Standard diamond: 2-1/2".
- Reverse diamond: 1-5/8".

**Height:**

- Standard diamond: 1-1/8".
- Reverse diamond: 1-5/8".

**Lengths:**

- Standard diamond: 3', 4', 10', 12'.
- Reverse diamond: 23-1/8".



### Scaffolding planks

**Width:**

- Standard: 8.85".
- Available: 6.3–19.7".

**Height:**

- Standard: 1-1/2".
- Available: 1-1/2"–2-1/2".

**Lengths:**

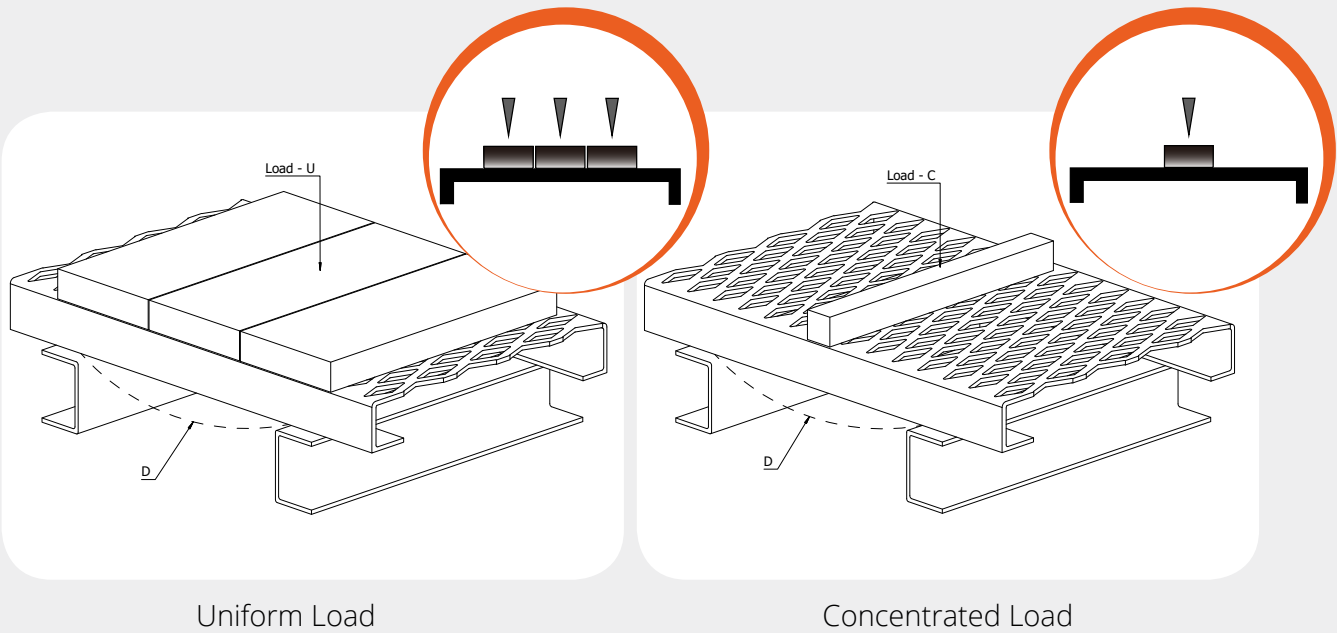
- Standard: 12'.
- Available: 3'–13'.

**Weight:** 6–12 kg.



## GRIP-STRUT SAFETY GRATING

### Key Parameter



### Standard Grip Strut Safety Grating

#### How to order

##### Model Explanation

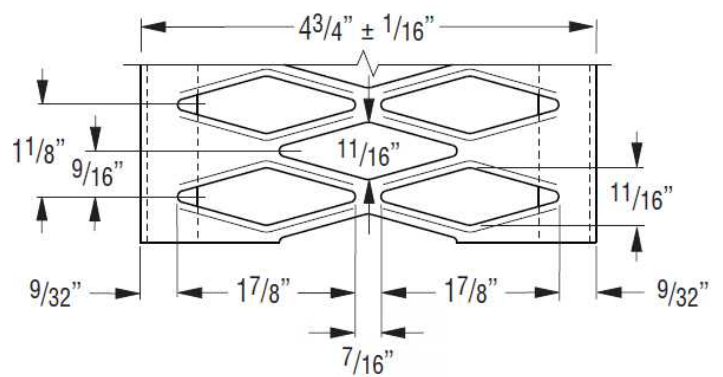
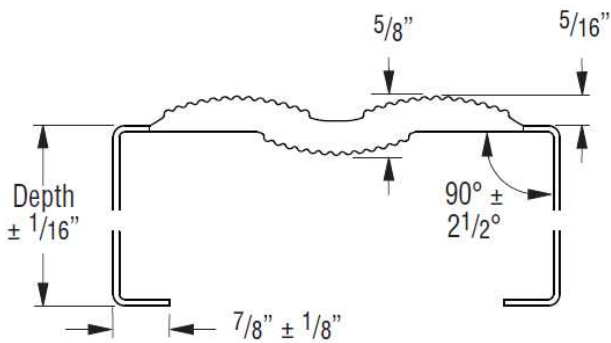
|                   |                       |                          |   |                                           |          |   |          |           |                               |
|-------------------|-----------------------|--------------------------|---|-------------------------------------------|----------|---|----------|-----------|-------------------------------|
| <b>Q</b>          | <b>G</b>              | <b>S</b>                 | - | <b>P</b>                                  | <b>S</b> | - | <b>2</b> | <b>15</b> | <b>14</b>                     |
| <b>Q</b> : Qiusuo |                       |                          |   |                                           |          |   |          |           | <b>14</b> : 14 gauge          |
|                   | <b>G</b> : grip strut |                          |   |                                           |          |   |          |           | <b>15</b> : channel depth     |
|                   |                       | <b>S</b> : standard type |   |                                           |          |   |          |           | <b>2</b> : 2-diamond          |
|                   |                       |                          |   | <b>P</b> : plank<br>( <b>W</b> : walkway) |          |   |          |           | <b>S (A/SS/SL)</b> : material |

The following are **Safe Loading Tables** of parameters for different purposes.





## Grip Strut Plank 2-Diamond Plank



Load Table of 2-Diamond Plank – 4-3/4" Width

U: uniform load (lb./ft.<sup>2</sup>)      C: concentrated load (lb.)      D=Deflection (in.)  
    :produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------------|----------------------------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                        |                            |                |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |
| Steel 14 ga.   | 1-1/2 (38.1)           | 2.3 (3.42)                 | QGS-PS-21514   | U | 1324 | 849  | 591  | 435  | 334  | 265  | 215  | 179  | 151  |      |      |      |      |      |      |      |      |
|                |                        |                            |                | D | 0.06 | .010 | 0.14 | 0.20 | 0.26 | 0.32 | 0.40 | 0.49 | 0.58 |      |      |      |      |      |      |      |      |
|                |                        |                            |                | C | 524  | 420  | 351  | 301  | 265  | 236  | 213  | 195  | 179  |      |      |      |      |      |      |      |      |
|                |                        |                            |                | D | 0.05 | 0.08 | 0.11 | 0.16 | 0.20 | 0.26 | 0.32 | 0.39 | 0.47 |      |      |      |      |      |      |      |      |
|                | 2 (50.8)               | 2.6 (3.87)                 | QGS-PS-22014   | U | 2198 | 1409 | 980  | 721  | 553  | 438  | 356  | 295  | 248  | 212  | 184  | 161  | 142  | 113  | 93   |      |      |
|                |                        |                            |                | D | 0.06 | 0.09 | 0.13 | 0.17 | 0.23 | 0.29 | 0.35 | 0.43 | 0.51 | 0.60 | 0.70 | 0.81 | 0.92 | 1.18 | 1.47 |      |      |
|                |                        |                            |                | C | 870  | 697  | 582  | 499  | 438  | 390  | 352  | 321  | 295  | 273  | 255  | 239  | 225  | 201  | 183  |      |      |
|                |                        |                            |                | D | 0.04 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.28 | 0.34 | 0.41 | 0.48 | 0.56 | 0.65 | 0.74 | 0.94 | 1.18 |      |      |
|                | 2-1/2 (63.5)           | 2.8 (4.17)                 | QGS-PS-22514   | U | 2522 | 1616 | 1124 | 827  | 634  | 502  | 408  | 338  | 285  | 244  | 211  | 184  | 163  | 139  | 106  | 88   | 75   |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.23 | 0.27 | 0.33 | 0.38 | 0.45 | 0.51 | 0.59 | 0.75 | 0.94 | 1.14 | 1.38 |
|                |                        |                            |                | C | 998  | 800  | 667  | 573  | 502  | 447  | 404  | 368  | 338  | 313  | 292  | 273  | 257  | 231  | 210  | 193  | 178  |
|                |                        |                            |                | D | 0.03 | 0.04 | 0.06 | 0.09 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.31 | 0.36 | 0.41 | 0.47 | 0.60 | 0.75 | 0.92 | 1.10 |
| Steel 12 ga.   | 1-1/2 (38.1)           | 3.2 (4.76)                 | QGS-PS-21512   | U | 1751 | 1123 | 782  | 576  | 443  | 351  | 286  | 237  | 200  | 172  | 149  | 131  | 116  |      |      |      |      |
|                |                        |                            |                | D | 0.07 | 0.11 | 0.15 | 0.21 | 0.27 | 0.35 | 0.43 | 0.52 | 0.62 | 0.74 | 0.86 | 0.99 | 1.14 |      |      |      |      |
|                |                        |                            |                | C | 693  | 556  | 464  | 399  | 350  | 313  | 283  | 258  | 238  | 221  | 206  | 194  | 183  |      |      |      |      |
|                |                        |                            |                | D | 0.05 | 0.08 | 0.12 | 0.17 | 0.22 | 0.28 | 0.34 | 0.42 | 0.50 | 0.59 | 0.69 | 0.79 | 0.91 |      |      |      |      |
|                | 2 (50.8)               | 3.6 (5.36)                 | QGS-PS-22012   | U | 2792 | 1790 | 1245 | 917  | 703  | 557  | 453  | 375  | 317  | 271  | 235  | 205  | 181  | 145  | 119  | 99   | 85   |
|                |                        |                            |                | D | 0.05 | 0.08 | 0.11 | 0.16 | 0.20 | 0.26 | 0.32 | 0.39 | 0.46 | 0.55 | 0.63 | 0.73 | 0.84 | 1.07 | 1.34 | 1.64 | 1.98 |
|                |                        |                            |                | C | 1105 | 886  | 739  | 635  | 557  | 496  | 448  | 409  | 376  | 348  | 325  | 305  | 287  | 258  | 235  | 216  | 201  |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.09 | 0.12 | 0.16 | 0.21 | 0.26 | 0.31 | 0.37 | 0.44 | 0.51 | 0.59 | 0.67 | 0.86 | 1.07 | 1.31 | 1.58 |
|                | 2-1/2 (63.5)           | 4.0 (5.95)                 | QGS-PS-22512   | U | 4179 | 2676 | 1860 | 1368 | 1049 | 830  | 673  | 557  | 469  | 400  | 346  | 302  | 266  | 211  | 172  | 143  | 121  |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.09 | 0.13 | 0.17 | 0.21 | 0.26 | 0.32 | 0.38 | 0.44 | 0.51 | 0.59 | 0.67 | 0.86 | 1.07 | 1.30 | 1.55 |
|                |                        |                            |                | C | 1654 | 1324 | 1104 | 948  | 830  | 739  | 666  | 606  | 557  | 515  | 479  | 448  | 421  | 376  | 341  | 312  | 288  |
|                |                        |                            |                | D | 0.03 | 0.05 | 0.07 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.69 | 0.85 | 1.04 | 1.24 |

## Grip Strut Plank 2-Diamond Plank



Load Table of 2-Diamond Plank – 4-3/4" Width

U: uniform load (lb./ft.<sup>2</sup>)

C: concentrated load (lb.)

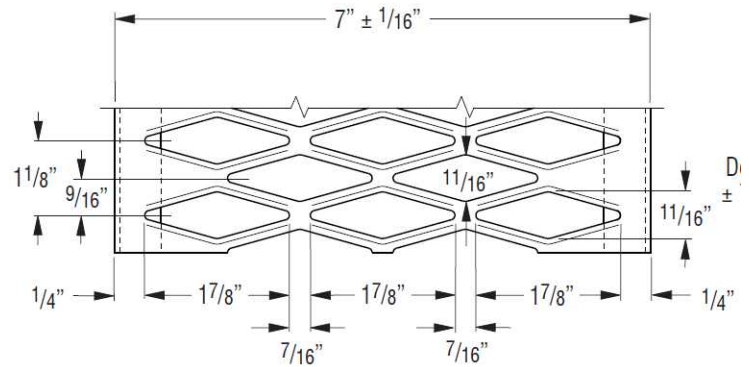
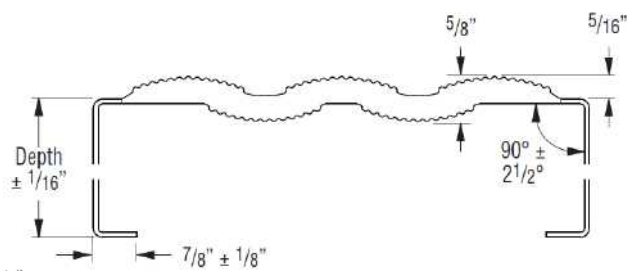
D=Deflection (in.)

:produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge         | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number      | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |
|------------------------|------------------------|----------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
|                        |                        |                            |                     | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10' | 11' | 12' |
| Alum. Alloy 5052 .080" | 1-1/2 (38.1)           | .85 (1.26)                 | <b>QGS-PA-21508</b> | U    | 998  | 639  | 443  | 326  | 248  | 196  | 159  | 131  | 110  | 94   |      |      |      |     |     |     |
|                        |                        |                            |                     | D    | 0.10 | 0.15 | 0.22 | 0.31 | 0.40 | 0.51 | 0.63 | 0.76 | 0.90 | 1.08 |      |      |      |     |     |     |
|                        |                        |                            |                     | C    | 395  | 316  | 263  | 226  | 197  | 175  | 157  | 143  | 131  | 121  |      |      |      |     |     |     |
|                        |                        |                            |                     | D    | 0.08 | 0.12 | 0.18 | 0.25 | 0.32 | 0.41 | 0.50 | 0.61 | 0.73 | 0.85 |      |      |      |     |     |     |
|                        | 2 (50.8)               | .92 (1.37)                 | <b>QGS-PA-22008</b> | U    | 1463 | 937  | 650  | 478  | 366  | 289  | 234  | 194  | 162  | 138  | 119  |      |      |     |     |     |
|                        |                        |                            |                     | D    | 0.08 | 0.13 | 0.18 | 0.25 | 0.33 | 0.42 | 0.52 | 0.63 | 0.74 | 0.87 | 1.02 |      |      |     |     |     |
|                        |                        |                            |                     | C    | 579  | 463  | 386  | 331  | 290  | 257  | 232  | 211  | 192  | 177  | 165  |      |      |     |     |     |
|                        |                        |                            |                     | D    | 0.06 | 0.10 | 0.15 | 0.20 | 0.27 | 0.34 | 0.42 | 0.51 | 0.59 | 0.69 | 0.80 |      |      |     |     |     |
|                        | 2-1/2 (63.5)           | 1.00 (1.48)                | <b>QGS-PA-22508</b> | U    | 2199 | 1407 | 977  | 718  | 550  | 434  | 352  | 291  | 244  | 208  | 179  | 156  | 137  |     |     |     |
|                        |                        |                            |                     | D    | 0.07 | 0.10 | 0.15 | 0.21 | 0.28 | 0.35 | 0.43 | 0.53 | 0.63 | 0.74 | 0.85 | 0.98 | 1.12 |     |     |     |
|                        |                        |                            |                     | C    | 870  | 696  | 580  | 497  | 435  | 387  | 348  | 316  | 290  | 268  | 249  | 232  | 218  |     |     |     |
|                        |                        |                            |                     | D    | 0.05 | 0.08 | 0.12 | 0.17 | 0.22 | 0.28 | 0.35 | 0.42 | 0.50 | 0.59 | 0.68 | 0.78 | 0.89 |     |     |     |
| Alum. Alloy 5052 .100" | 1-1/2 (38.1)           | 1.08 (1.60)                | <b>QGS-PA-21510</b> | U    | 1136 | 727  | 505  | 371  | 284  | 224  | 181  | 149  | 125  | 107  |      |      |      |     |     |     |
|                        |                        |                            |                     | D    | 0.09 | 0.15 | 0.22 | 0.30 | 0.39 | 0.50 | 0.63 | 0.76 | 0.90 | 1.08 |      |      |      |     |     |     |
|                        |                        |                            |                     | C    | 450  | 360  | 300  | 257  | 225  | 200  | 179  | 162  | 149  | 137  |      |      |      |     |     |     |
|                        |                        |                            |                     | D    | 0.07 | 0.12 | 0.17 | 0.24 | 0.31 | 0.40 | 0.51 | 0.61 | 0.73 | .85  |      |      |      |     |     |     |
|                        | 2 (50.8)               | 1.20 (1.78 )               | <b>QGS-PA-22010</b> | U    | 2049 | 1312 | 911  | 669  | 512  | 405  | 328  | 271  | 228  | 194  | 167  | 146  | 128  |     |     |     |
|                        |                        |                            |                     | D    | 0.09 | 0.14 | 0.20 | 0.28 | 0.37 | 0.46 | 0.58 | 0.70 | 0.83 | 0.98 | 1.13 | 1.30 | 1.48 |     |     |     |
|                        |                        |                            |                     | C    | 811  | 649  | 541  | 464  | 406  | 361  | 325  | 295  | 270  | 250  | 232  | 216  | 203  |     |     |     |
|                        |                        |                            |                     | D    | 0.07 | 0.11 | 0.16 | 0.22 | 0.29 | 0.37 | 0.46 | 0.51 | 0.61 | 0.73 | 0.85 | 0.98 | 1.12 |     |     |     |
|                        | 2-1/2 (63.5)           | 1.31 (1.95)                | <b>QGS-PA-22510</b> | U    | 2820 | 1805 | 1253 | 921  | 705  | 557  | 451  | 373  | 313  | 267  | 230  | 201  | 176  |     |     |     |
|                        |                        |                            |                     | D    | 0.07 | 0.11 | 0.16 | 0.22 | 0.28 | 0.36 | 0.45 | 0.54 | 0.64 | 0.76 | 0.88 | 1.01 | 1.15 |     |     |     |
|                        |                        |                            |                     | C    | 1116 | 893  | 744  | 638  | 558  | 496  | 446  | 406  | 372  | 343  | 319  | 298  | 279  |     |     |     |
|                        |                        |                            |                     | D    | 0.05 | 0.09 | 0.12 | 0.17 | 0.23 | 0.29 | 0.36 | 0.43 | 0.51 | 0.60 | .070 | 0.81 | 0.92 |     |     |     |



## Grip Strut Plank 3-Diamond Plank



**Load Table of 3-Diamond Plank – 7" Width**

U: uniform load (lb./ft.<sup>2</sup>)      C: concentrated load (lb.)      D=Deflection (in.)  
      :produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------------|----------------------------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                        |                            |                |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |
| Steel 14 ga.   | 1-1/2 (38.1)           | 3.0 (4.46)                 | QGS-PS-31514   | U | 899  | 577  | 402  | 269  | 227  | 180  | 147  | 122  | 103  |      |      |      |      |      |      |      |      |
|                |                        |                            |                | D | 0.06 | 0.10 | 0.14 | 0.20 | 0.26 | 0.33 | 0.40 | 0.49 | 0.59 |      |      |      |      |      |      |      |      |
|                |                        |                            |                | C | 524  | 421  | 351  | 302  | 265  | 237  | 214  | 196  | 180  |      |      |      |      |      |      |      |      |
|                |                        |                            |                | D | 0.05 | 0.08 | 0.11 | 0.16 | 0.21 | 0.26 | 0.32 | 0.39 | 0.47 |      |      |      |      |      |      |      |      |
|                | 2 (50.8)               | 3.2 (4.76)                 | QGS-PS-32014   | U | 1492 | 957  | 665  | 490  | 376  | 298  | 242  | 201  | 169  | 145  | 125  | 110  | 97   | 77   | 63   |      |      |
|                |                        |                            |                | D | 0.06 | 0.09 | 0.13 | 0.17 | 0.23 | 0.29 | 0.35 | 0.43 | 0.51 | 0.61 | 0.71 | 0.81 | 0.93 | 1.19 | 1.49 |      |      |
|                |                        |                            |                | C | 871  | 697  | 582  | 500  | 439  | 391  | 353  | 322  | 296  | 275  | 256  | 240  | 226  | 203  | 185  |      |      |
|                |                        |                            |                | D | 0.04 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.28 | 0.34 | 0.41 | 0.48 | 0.56 | 0.65 | 0.74 | 0.95 | 1.19 |      |      |
|                | 2-1/2 (63.5)           | 3.5 (5.21)                 | QGS-PS-32514   | U | 1712 | 1097 | 763  | 562  | 431  | 342  | 277  | 230  | 194  | 166  | 144  | 126  | 111  | 89   | 73   | 61   | 52   |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.23 | 0.27 | 0.33 | 0.39 | 0.45 | 0.52 | 0.59 | 0.76 | 0.94 | 1.16 | 1.40 |
|                |                        |                            |                | C | 999  | 800  | 668  | 574  | 503  | 448  | 405  | 369  | 340  | 315  | 293  | 275  | 259  | 233  | 212  | 195  | 181  |
|                |                        |                            |                | D | 0.03 | 0.04 | 0.06 | 0.09 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.31 | 0.36 | 0.41 | 0.47 | 0.61 | 0.76 | 0.93 | 1.12 |
| Steel 12 ga.   | 1-1/2 (38.1)           | 4.1 (6.10)                 | QGS-PS-31512   | U | 1189 | 763  | 532  | 392  | 301  | 239  | 195  | 162  | 137  | 118  | 102  | 90   | 79   |      |      |      |      |
|                |                        |                            |                | D | 0.07 | 0.11 | 0.15 | 0.21 | 0.27 | 0.35 | 0.43 | 0.52 | 0.63 | 0.74 | 0.87 | 1.00 | 1.15 |      |      |      |      |
|                |                        |                            |                | C | 694  | 556  | 465  | 400  | 352  | 314  | 284  | 260  | 240  | 223  | 208  | 196  | 185  |      |      |      |      |
|                |                        |                            |                | D | 0.05 | 0.08 | 0.12 | 0.17 | 0.22 | 0.28 | 0.34 | 0.42 | 0.50 | 0.59 | 0.69 | 0.80 | 0.92 |      |      |      |      |
|                | 2 (50.8)               | 4.5 (6.70)                 | QGS-PS-32012   | U | 1896 | 1216 | 846  | 623  | 478  | 379  | 308  | 256  | 216  | 185  | 160  | 140  | 124  | 99   | 82   | 68   | 58   |
|                |                        |                            |                | D | 0.05 | 0.08 | 0.11 | 0.16 | 0.20 | 0.26 | 0.32 | 0.39 | 0.47 | 0.55 | 0.64 | 0.74 | 0.85 | 1.08 | 1.36 | 1.67 | 2.01 |
|                |                        |                            |                | C | 1106 | 886  | 740  | 636  | 558  | 498  | 450  | 410  | 378  | 350  | 327  | 307  | 289  | 260  | 238  | 219  | 203  |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.09 | 0.12 | 0.16 | 0.21 | 0.26 | 0.31 | 0.37 | 0.44 | 0.51 | 0.59 | 0.68 | 0.87 | 1.09 | 1.33 | 1.61 |
|                | 2-1/2 (63.5)           | 4.9 (7.29)                 | QGS-PS-32512   | U | 2836 | 1817 | 1263 | 929  | 712  | 564  | 457  | 379  | 319  | 272  | 235  | 206  | 181  | 144  | 118  | 98   | 83   |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.09 | 0.13 | 0.17 | 0.21 | 0.26 | 0.32 | 0.38 | 0.44 | 0.52 | 0.59 | 0.68 | 0.86 | 1.07 | 1.31 | 1.57 |
|                |                        |                            |                | C | 1654 | 1325 | 1105 | 948  | 831  | 740  | 667  | 608  | 558  | 516  | 481  | 450  | 423  | 378  | 343  | 314  | 290  |
|                |                        |                            |                | D | 0.03 | 0.05 | 0.07 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.69 | 0.86 | 1.05 | 1.25 |
|                | 3 (76.2)               | 5.2 (7.74)                 | QGS-PS-33012   | U | 3587 | 2298 | 1597 | 1174 | 900  | 712  | 578  | 478  | 403  | 344  | 297  | 259  | 228  | 181  | 148  | 123  | 104  |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.09 | 0.13 | 0.17 | 0.21 | 0.26 | 0.32 | 0.38 | 0.44 | 0.51 | .59  | 0.67 | 0.86 | 1.07 | 1.30 | 1.55 |
|                |                        |                            |                | C | 1868 | 1675 | 1397 | 1199 | 1050 | 935  | 843  | 767  | 705  | 652  | 606  | 567  | 533  | 476  | 431  | 395  | 364  |
|                |                        |                            |                | D | 0.03 | 0.04 | 0.06 | 0.09 | 0.11 | 0.14 | 0.18 | 0.22 | 0.26 | 0.30 | 0.35 | .41  | 0.46 | 0.59 | 0.73 | 0.89 | 1.07 |



## Grip Strut Plank 3-Diamond Plank



Load Table of 3-Diamond Plank – 7" Width

U: uniform load (lb./ft.<sup>2</sup>)

C: concentrated load (lb.)

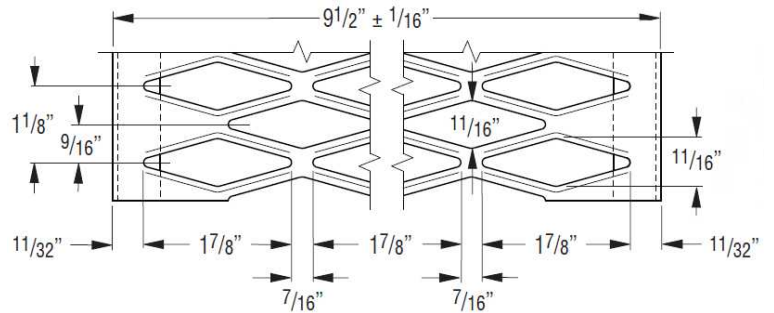
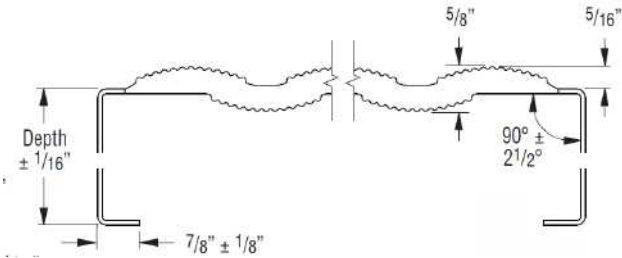
D=Deflection (in.)

    :produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge         | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number      |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |    |     |     |     |
|------------------------|------------------------|----------------------------|---------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----|-----|-----|-----|
|                        |                        |                            |                     |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9' | 10' | 11' | 12' |
| Alum. Alloy 5052 .080" | 1-1/2 (38.1)           | 1.06 (1.58)                | <b>QGS-PA-31508</b> | U | 667  | 443  | 301  | 221  | 168  | 133  | 108  |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                     | D | 0.10 | 0.15 | 0.22 | 0.31 | 0.40 | 0.51 | 0.63 |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                     | C | 395  | 316  | 263  | 226  | 197  | 175  | 157  |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                     | D | 0.08 | 0.12 | 0.18 | 0.25 | 0.32 | 0.41 | 0.50 |      |      |      |      |      |      |    |     |     |     |
|                        | 2 (50.8)               | 1.15 (1.71)                | <b>QGS-PA-32008</b> | U | 993  | 636  | 441  | 324  | 248  | 196  | 159  | 131  | 110  | 93   | 80   |      |      |    |     |     |     |
|                        |                        |                            |                     | D | 0.08 | 0.13 | 0.18 | 0.25 | 0.33 | 0.42 | 0.52 | 0.63 | 0.74 | 0.86 | 1.00 |      |      |    |     |     |     |
|                        |                        |                            |                     | C | 579  | 463  | 386  | 331  | 290  | 257  | 232  | 211  | 192  | 177  | 165  |      |      |    |     |     |     |
|                        |                        |                            |                     | D | 0.06 | 0.10 | 0.15 | 0.20 | 0.27 | 0.34 | 0.42 | 0.51 | 0.59 | 0.69 | 0.80 |      |      |    |     |     |     |
|                        | 2-1/2 (63.5)           | 1.24 (1.85)                | <b>QGS-PA-32508</b> | U | 1492 | 955  | 663  | 487  | 373  | 295  | 239  | 197  | 166  | 141  | 122  | 106  | 93   |    |     |     |     |
|                        |                        |                            |                     | D | 0.07 | 0.10 | 0.15 | 0.21 | 0.28 | 0.35 | 0.43 | 0.53 | 0.63 | 0.74 | 0.85 | 0.98 | 1.12 |    |     |     |     |
|                        |                        |                            |                     | C | 812  | 696  | 580  | 497  | 435  | 387  | 348  | 316  | 290  | 268  | 249  | 232  | 218  |    |     |     |     |
|                        |                        |                            |                     | D | 0.05 | 0.08 | 0.12 | 0.17 | 0.22 | 0.28 | 0.35 | 0.42 | 0.50 | 0.59 | 0.68 | 0.78 | 0.89 |    |     |     |     |
|                        | 3 (76.2)               | 1.33 (1.98)                | <b>QGS-PA-33008</b> | U | 1833 | 1173 | 815  | 598  | 458  | 362  | 293  | 242  | 204  | 174  | 150  | 130  | 115  |    |     |     |     |
|                        |                        |                            |                     | D | 0.06 | 0.09 | 0.14 | 0.19 | 0.25 | 0.31 | 0.39 | 0.47 | 0.56 | 0.66 | 0.77 | 0.88 | 1.00 |    |     |     |     |
|                        |                        |                            |                     | C | 846  | 846  | 713  | 611  | 535  | 475  | 428  | 389  | 356  | 329  | 305  | 285  | 267  |    |     |     |     |
|                        |                        |                            |                     | D | 0.03 | 0.07 | 0.11 | 0.15 | 0.20 | 0.25 | 0.31 | 0.38 | 0.45 | 0.53 | 0.61 | 0.70 | 0.80 |    |     |     |     |
| Alum. Alloy 5052 .100" | 1-1/2 (38.1)           | 1.34 (1.99)                | <b>QGS-PA-31510</b> | U | 771  | 494  | 343  | 252  | 193  | 152  | 122  | 101  |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                     | D | 0.09 | 0.15 | 0.22 | 0.30 | 0.39 | 0.50 | 0.63 | 0.76 |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                     | C | 450  | 360  | 300  | 257  | 225  | 200  | 179  | 162  |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                     | D | 0.07 | 0.12 | 0.17 | 0.24 | 0.31 | 0.40 | 0.51 | 0.61 |      |      |      |      |      |    |     |     |     |
|                        | 2 (50.8)               | 1.46 (2.38)                | <b>QGS-PA-32010</b> | U | 1391 | 890  | 618  | 454  | 348  | 275  | 223  | 184  | 155  | 132  | 114  | 99   | 87   |    |     |     |     |
|                        |                        |                            |                     | D | 0.09 | 0.14 | 0.20 | 0.28 | 0.37 | 0.46 | 0.58 | 0.70 | 0.83 | 0.98 | 1.13 | 1.30 | 1.48 |    |     |     |     |
|                        |                        |                            |                     | C | 811  | 649  | 541  | 464  | 406  | 361  | 325  | 295  | 270  | 250  | 232  | 216  | 203  |    |     |     |     |
|                        |                        |                            |                     | D | 0.07 | 0.11 | 0.16 | 0.22 | 0.29 | 0.37 | 0.46 | 0.56 | 0.66 | 0.78 | 0.90 | 1.04 | 1.18 |    |     |     |     |
|                        | 2-1/2 (63.5)           | 1.57 (2.34)                | <b>QGS-PA-32510</b> | U | 1913 | 1225 | 850  | 625  | 478  | 378  | 306  | 253  | 213  | 181  | 156  | 136  | 120  |    |     |     |     |
|                        |                        |                            |                     | D | 0.07 | 0.11 | 0.16 | 0.22 | 0.28 | 0.36 | 0.45 | 0.54 | 0.64 | 0.76 | 0.88 | 1.01 | 1.15 |    |     |     |     |
|                        |                        |                            |                     | C | 1116 | 893  | 744  | 638  | 558  | 496  | 446  | 406  | 372  | 343  | 319  | 298  | 279  |    |     |     |     |
|                        |                        |                            |                     | D | 0.05 | 0.09 | 0.12 | 0.17 | 0.23 | 0.29 | 0.36 | 0.43 | 0.51 | 0.60 | 0.70 | 0.81 | 0.92 |    |     |     |     |
|                        | 3 (76.2)               | 1.68 (2.50)                | <b>QGS-PA-33010</b> | U | 2470 | 1581 | 1098 | 807  | 618  | 488  | 395  | 327  | 274  | 234  | 202  | 176  | 154  |    |     |     |     |
|                        |                        |                            |                     | D | 0.05 | 0.08 | 0.12 | 0.17 | 0.22 | 0.28 | 0.34 | 0.42 | 0.50 | 0.59 | 0.68 | 0.78 | 0.89 |    |     |     |     |
|                        |                        |                            |                     | C | 1309 | 1153 | 961  | 823  | 720  | 640  | 576  | 524  | 480  | 443  | 412  | 384  | 360  |    |     |     |     |
|                        |                        |                            |                     | D | 0.04 | 0.06 | 0.10 | 0.13 | 0.17 | 0.22 | 0.27 | 0.33 | 0.40 | 0.47 | 0.54 | 0.62 | 0.71 |    |     |     |     |



## Grip Strut Plank 4-Diamond Plank



**Load Table of 4-Diamond Plank – 9-1/2" Width**

U: uniform load (lb./ft.<sup>2</sup>)

C: concentrated load (lb.)

D=Deflection (in.)

    : produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------------|----------------------------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                        |                            |                |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |
| Steel 14 ga.   | 1-1/2 (38.1)           | 3.6 (5.36)                 | QGS-PS-41514   | U | 663  | 426  | 296  | 219  | 168  | 134  | 109  | 90   | 77   |      |      |      |      |      |      |      |      |
|                |                        |                            |                | D | 0.06 | 0.10 | 0.14 | 0.20 | 0.26 | 0.33 | 0.41 | 0.50 | 0.59 |      |      |      |      |      |      |      |      |
|                |                        |                            |                | C | 525  | 421  | 352  | 303  | 266  | 238  | 215  | 197  | 182  |      |      |      |      |      |      |      |      |
|                |                        |                            |                | D | 0.05 | 0.08 | 0.11 | 0.16 | 0.21 | 0.26 | 0.33 | 0.40 | 0.47 |      |      |      |      |      |      |      |      |
|                | 2 (50.8)               | 3.8 (5.65)                 | QGS-PS-42014   | U | 1100 | 705  | 491  | 362  | 278  | 220  | 179  | 148  | 125  | 107  | 93   | 81   | 72   | 58   | 47   |      |      |
|                |                        |                            |                | D | 0.06 | 0.09 | 0.13 | 0.17 | 0.23 | 0.29 | 0.36 | 0.43 | 0.52 | 0.61 | 0.71 | 0.82 | 0.94 | 1.20 | 1.51 |      |      |
|                |                        |                            |                | C | 730  | 698  | 583  | 501  | 440  | 392  | 354  | 323  | 298  | 276  | 258  | 242  | 228  | 205  | 187  |      |      |
|                |                        |                            |                | D | 0.04 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.28 | 0.35 | 0.41 | 0.49 | 0.57 | 0.66 | 0.75 | 0.96 | 1.20 |      |      |
|                | 2-1/2 (63.5)           | 4.1 (6.10)                 | QGS-PS-42514   | U | 1262 | 809  | 563  | 415  | 318  | 252  | 205  | 170  | 144  | 123  | 106  | 93   | 82   | 66   | 54   | 45   |      |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.23 | 0.28 | 0.33 | 0.39 | 0.45 | 0.52 | 0.60 | 0.76 | 0.95 | 1.17 |      |
|                |                        |                            |                | C | 730  | 730  | 669  | 574  | 504  | 449  | 406  | 370  | 341  | 316  | 295  | 277  | 261  | 235  | 214  | 197  |      |
|                |                        |                            |                | D | 0.02 | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.18 | 0.22 | 0.26 | 0.31 | 0.36 | 0.42 | 0.48 | 0.61 | 0.76 | 0.94 |      |
| Steel 12 ga.   | 1-1/2 (38.1)           | 5.0 (7.44)                 | QGS-PS-41512   | U | 906  | 581  | 405  | 298  | 229  | 182  | 148  | 123  | 104  | 89   | 77   | 67   | 60   |      |      |      |      |
|                |                        |                            |                | D | 0.07 | 0.11 | 0.16 | 0.21 | 0.28 | 0.36 | 0.44 | 0.54 | 0.64 | 0.76 | 0.89 | 1.02 | 1.17 |      |      |      |      |
|                |                        |                            |                | C | 718  | 575  | 481  | 413  | 363  | 324  | 292  | 267  | 246  | 228  | 213  | 200  | 189  |      |      |      |      |
|                |                        |                            |                | D | 0.06 | 0.09 | 0.13 | 0.17 | 0.23 | 0.29 | 0.35 | 0.43 | 0.52 | 0.61 | 0.71 | 0.82 | 0.94 |      |      |      |      |
|                | 2 (50.8)               | 5.4 (8.04)                 | QGS-PS-42012   | U | 1398 | 896  | 624  | 460  | 353  | 280  | 228  | 189  | 160  | 137  | 119  | 104  | 92   | 74   | 61   | 51   | 43   |
|                |                        |                            |                | D | 0.05 | 0.08 | 0.11 | 0.16 | 0.20 | 0.26 | 0.32 | 0.39 | 0.47 | 0.55 | 0.65 | 0.75 | 0.85 | 1.10 | 1.38 | 1.69 | 2.03 |
|                |                        |                            |                | C | 1107 | 887  | 741  | 637  | 559  | 499  | 451  | 412  | 380  | 353  | 329  | 309  | 292  | 264  | 241  | 222  | 206  |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.09 | 0.12 | 0.16 | 0.21 | 0.26 | 0.31 | 0.37 | 0.44 | 0.52 | 0.60 | 0.68 | 0.88 | 1.10 | 1.35 | 1.63 |
|                | 2-1/2 (63.5)           | 5.7 (8.48)                 | QGS-PS-42512   | U | 2090 | 1339 | 931  | 685  | 525  | 416  | 338  | 280  | 236  | 201  | 174  | 152  | 134  | 107  | 87   | 73   | 62   |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.09 | 0.13 | 0.17 | 0.21 | 0.26 | 0.32 | 0.38 | 0.44 | 0.52 | 0.60 | 0.68 | 0.87 | 1.08 | 1.32 | 1.58 |
|                |                        |                            |                | C | 1400 | 1325 | 1106 | 949  | 832  | 741  | 668  | 609  | 559  | 518  | 482  | 452  | 425  | 380  | 345  | 316  | 293  |
|                |                        |                            |                | D | 0.03 | 0.05 | 0.07 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.30 | 0.36 | 0.41 | 0.48 | 0.54 | 0.69 | 0.86 | 1.05 | 1.27 |
|                | 3 (76.2)               | 6.1 (9.08)                 | QGS-PS-43012   | U | 2644 | 1694 | 1177 | 866  | 664  | 525  | 426  | 353  | 297  | 254  | 219  | 192  | 169  | 134  | 110  | 91   | 77   |
|                |                        |                            |                | D | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.27 | 0.32 | 0.38 | 0.44 | 0.51 | 0.58 | 0.74 | 0.92 | 1.12 | 1.35 |
|                |                        |                            |                | C | 1400 | 1400 | 1398 | 1200 | 1051 | 936  | 844  | 769  | 706  | 653  | 608  | 569  | 535  | 478  | 434  | 397  | 367  |
|                |                        |                            |                | D | 0.02 | 0.04 | 0.06 | 0.09 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.31 | 0.35 | 0.41 | 0.47 | 0.59 | 0.74 | 0.90 | 1.08 |

# Grip Strut Plank 4-Diamond Plank



Load Table of 4-Diamond Plank – 9-1/2" Width

U: uniform load (lb./ft.<sup>2</sup>)      C: concentrated load (lb.)      D=Deflection (in.)  

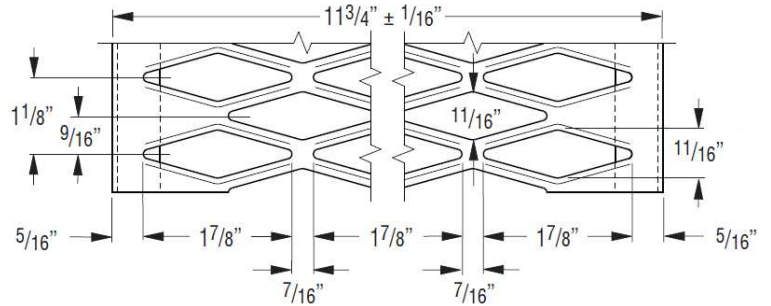
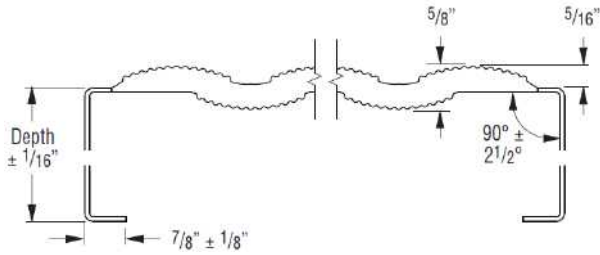
 :produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge         | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |     |  |
|------------------------|------------------------|----------------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|--|
|                        |                        |                            |                | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10' | 11' | 12' |  |
| Stain-less 304 16 ga.  | 2 (50.8)               | 3.2 (4.76)                 | QGS-PSS-42016  | U    | 720  | 462  | 322  | 238  | 183  | 145  | 118  | 98   | 83   | 71   | 59   |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.05 | 0.08 | 0.11 | 0.16 | 0.20 | 0.26 | 0.32 | 0.39 | 0.47 | 0.55 | 0.61 |      |      |     |     |     |  |
|                        |                        |                            |                | C    | 570  | 457  | 382  | 329  | 289  | 258  | 234  | 214  | 197  | 184  | 165  |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.16 | 0.21 | 0.26 | 0.31 | 0.38 | 0.44 | 0.49 |      |      |     |     |     |  |
| Stain-less 316L 16 ga. | 2 (50.8)               | 3.2 (4.76)                 | QGS-PSL-42016  | U    | 626  | 400  | 278  | 204  | 156  | 123  | 100  | 82   | 69   | 59   | 51   |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.04 | 0.06 | 0.10 | 0.13 | 0.17 | 0.22 | 0.27 | 0.32 | 0.39 | 0.45 | 0.53 |      |      |     |     |     |  |
|                        |                        |                            |                | C    | 492  | 397  | 330  | 283  | 248  | 220  | 198  | 180  | 165  | 152  | 141  |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.03 | 0.05 | 0.08 | 0.10 | 0.14 | 0.17 | 0.22 | 0.26 | 0.31 | 0.36 | 0.42 |      |      |     |     |     |  |
| Alum. Alloy 5052 .080" | 1-1/2 (38.1)           | 1.28 (1.90)                | QGS-PA-41508   | U    | 499  | 319  | 222  | 163  | 124  | 98   |      |      |      |      |      |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.10 | 0.15 | 0.22 | 0.31 | 0.40 | 0.51 |      |      |      |      |      |      |      |     |     |     |  |
|                        |                        |                            |                | C    | 395  | 316  | 263  | 226  | 197  | 175  |      |      |      |      |      |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.08 | 0.12 | 0.18 | 0.25 | 0.32 | 0.41 |      |      |      |      |      |      |      |     |     |     |  |
|                        | 2 (50.8)               | 1.37 (2.03)                | QGS-PA-42008   | U    | 732  | 468  | 325  | 239  | 183  | 145  | 117  | 97   | 81   | 69   |      |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.08 | 0.13 | 0.18 | 0.25 | 0.33 | 0.42 | 0.52 | 0.63 | 0.74 | 0.87 |      |      |      |     |     |     |  |
|                        |                        |                            |                | C    | 568  | 463  | 386  | 331  | 290  | 257  | 232  | 211  | 192  | 177  |      |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.06 | 0.10 | 0.15 | 0.20 | 0.27 | 0.34 | 0.42 | 0.51 | 0.59 | 0.69 |      |      |      |     |     |     |  |
|                        | 2-1/2 (63.5)           | 1.46 (2.17)                | QGS-PA-42508   | U    | 1099 | 704  | 489  | 359  | 275  | 217  | 176  | 145  | 122  | 104  | 90   | 78   | 69   |     |     |     |  |
|                        |                        |                            |                | D    | 0.07 | 0.10 | 0.15 | 0.21 | 0.28 | 0.35 | 0.43 | 0.53 | 0.63 | 0.74 | 0.85 | 0.98 | 1.12 |     |     |     |  |
|                        |                        |                            |                | C    | 568  | 568  | 568  | 497  | 435  | 387  | 348  | 316  | 290  | 268  | 249  | 232  | 218  |     |     |     |  |
|                        |                        |                            |                | D    | 0.05 | 0.07 | 0.12 | 0.17 | 0.22 | 0.28 | 0.35 | 0.42 | 0.50 | 0.59 | 0.68 | 0.78 | 0.89 |     |     |     |  |
|                        | 3 (76.2)               | 1.55 (2.30)                | QGS-PA-43008   | U    | 1350 | 864  | 600  | 441  | 338  | 267  | 216  | 179  | 150  | 128  | 110  | 96   | 84   |     |     |     |  |
|                        |                        |                            |                | D    | 0.06 | 0.09 | 0.14 | 0.19 | 0.25 | 0.31 | 0.39 | 0.47 | 0.56 | 0.66 | 0.77 | 0.88 | 1.00 |     |     |     |  |
|                        |                        |                            |                | C    | 568  | 568  | 568  | 568  | 535  | 475  | 428  | 389  | 356  | 329  | 305  | 285  | 267  |     |     |     |  |
|                        |                        |                            |                | D    | 0.02 | 0.05 | 0.09 | 0.14 | 0.20 | 0.25 | 0.31 | 0.38 | 0.45 | 0.53 | 0.61 | 0.70 | 0.80 |     |     |     |  |
| Alum. Alloy 5052 .100" | 1-1/2 (38.1)           | 1.62 (2.41)                | QGS-PA-41510   | U    | 568  | 364  | 253  | 186  | 142  | 112  |      |      |      |      |      |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.09 | 0.15 | 0.22 | 0.30 | 0.39 | 0.50 |      |      |      |      |      |      |      |     |     |     |  |
|                        |                        |                            |                | C    | 450  | 360  | 300  | 257  | 225  | 200  |      |      |      |      |      |      |      |     |     |     |  |
|                        |                        |                            |                | D    | 0.07 | 0.12 | 0.17 | 0.24 | 0.31 | 0.40 |      |      |      |      |      |      |      |     |     |     |  |
|                        | 2 (50.8)               | 1.74 (2.58)                | QGS-PA-42010   | U    | 1025 | 656  | 455  | 335  | 256  | 202  | 164  | 136  | 114  | 97   | 84   | 73   | 64   |     |     |     |  |
|                        |                        |                            |                | D    | 0.09 | 0.14 | 0.20 | 0.28 | 0.37 | 0.46 | 0.58 | 0.70 | 0.83 | 0.98 | 1.13 | 1.30 | 1.48 |     |     |     |  |
|                        |                        |                            |                | C    | 811  | 649  | 541  | 464  | 406  | 361  | 325  | 295  | 270  | 250  | 232  | 216  | 203  |     |     |     |  |
|                        |                        |                            |                | D    | 0.07 | 0.11 | 0.16 | 0.22 | 0.29 | 0.37 | 0.46 | 0.56 | 0.66 | 0.78 | 0.90 | 1.04 | 1.18 |     |     |     |  |
|                        | 2-1/2 (63.5)           | 1.85 (2.75)                | QGS-PA-42510   | U    | 1410 | 902  | 627  | 460  | 352  | 278  | 226  | 186  | 157  | 133  | 115  | 100  | 88   |     |     |     |  |
|                        |                        |                            |                | D    | 0.07 | 0.11 | 0.16 | 0.22 | 0.28 | 0.36 | 0.44 | 0.54 | 0.64 | 0.76 | 0.88 | 1.01 | 1.15 |     |     |     |  |
|                        |                        |                            |                | C    | 886  | 886  | 744  | 638  | 558  | 496  | 446  | 406  | 372  | 343  | 319  | 298  | 279  |     |     |     |  |
|                        |                        |                            |                | D    | 0.05 | 0.09 | 0.12 | 0.17 | 0.23 | 0.29 | 0.36 | 0.43 | 0.51 | 0.60 | .70  | 0.81 | 0.92 |     |     |     |  |
|                        | 3 (76.2)               | 1.97 (2.93)                | QGS-PA-43010   | U    | 1820 | 1165 | 809  | 594  | 455  | 360  | 291  | 241  | 202  | 172  | 149  | 129  | 114  |     |     |     |  |
|                        |                        |                            |                | D    | 0.05 | 0.08 | 0.12 | 0.17 | 0.22 | 0.28 | 0.34 | 0.42 | 0.50 | 0.59 | 0.68 | 0.78 | 0.89 |     |     |     |  |
|                        |                        |                            |                | C    | 886  | 886  | 886  | 823  | 720  | 640  | 576  | 524  | 480  | 443  | 412  | 384  | 360  |     |     |     |  |
|                        |                        |                            |                | D    | 0.02 | 0.05 | 0.09 | 0.13 | 0.17 | 0.22 | 0.27 | 0.33 | 0.40 | 0.47 | 0.54 | 0.62 | 0.71 |     |     |     |  |





## Grip Strut Plank 5-Diamond Plank



Load Table of 5-Diamond Plank – 11-3/4" Width

U: uniform load (lb./ft.<sup>2</sup>)      C: concentrated load (lb.)      D=Deflection (in.)

    :produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number      |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------------|----------------------------|---------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                        |                            |                     |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |
| Steel 14 ga.   | 1-1/2 (38.1)           | 4.2 (6.25)                 | <b>QGS-PS-51514</b> | U | 536  | 344  | 240  | 177  | 136  | 108  | 88   | 74   | 62   |      |      |      |      |      |      |      |      |
|                |                        |                            |                     | D | 0.06 | 0.10 | 0.14 | 0.20 | 0.26 | 0.33 | 0.41 | 0.50 | 0.60 |      |      |      |      |      |      |      |      |
|                |                        |                            |                     | C | 525  | 422  | 353  | 304  | 267  | 239  | 216  | 198  | 183  |      |      |      |      |      |      |      |      |
|                |                        |                            |                     | D | 0.05 | 0.08 | 0.12 | 0.16 | 0.21 | 0.26 | 0.33 | 0.40 | 0.48 |      |      |      |      |      |      |      |      |
|                | 2 (50.8)               | 4.4 (6.55)                 | <b>QGS-PS-52014</b> | U | 890  | 571  | 397  | 293  | 225  | 178  | 145  | 120  | 102  | 87   | 76   | 66   | 59   | 47   |      |      |      |
|                |                        |                            |                     | D | 0.06 | 0.09 | 0.13 | 0.17 | 0.23 | 0.29 | 0.36 | 0.43 | 0.52 | 0.61 | 0.71 | 0.83 | 0.95 | 1.21 |      |      |      |
|                |                        |                            |                     | C | 707  | 699  | 584  | 502  | 440  | 393  | 355  | 324  | 299  | 277  | 259  | 243  | 230  | 207  |      |      |      |
|                |                        |                            |                     | D | 0.04 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.29 | 0.35 | 0.42 | 0.49 | 0.57 | 0.66 | 0.76 | 0.97 |      |      |      |
|                | 2-1/2 (63.5)           | 4.7 (6.99)                 | <b>QGS-PS-52514</b> | U | 1021 | 655  | 456  | 336  | 258  | 204  | 166  | 138  | 116  | 100  | 86   | 76   | 67   | 54   | 44   |      |      |
|                |                        |                            |                     | D | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.23 | 0.28 | 0.33 | 0.39 | 0.45 | 0.52 | 0.60 | 0.77 | 0.96 |      |      |
|                |                        |                            |                     | C | 707  | 707  | 669  | 575  | 505  | 450  | 407  | 371  | 342  | 317  | 296  | 278  | 262  | 236  | 216  |      |      |
|                |                        |                            |                     | D | 0.02 | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.18 | 0.22 | 0.26 | 0.31 | 0.36 | 0.42 | 0.48 | 0.62 | 0.77 |      |      |
| Steel 12 ga.   | 1-1/2 (38.1)           | 5.9 (8.78)                 | <b>QGS-PS-51512</b> | U | 710  | 456  | 318  | 235  | 181  | 144  | 117  | 98   | 83   | 71   | 62   | 55   | 49   |      |      |      |      |
|                |                        |                            |                     | D | 0.07 | 0.11 | 0.15 | 0.21 | 0.27 | 0.35 | 0.44 | 0.53 | 0.64 | 0.76 | 0.89 | 1.03 | 1.18 |      |      |      |      |
|                |                        |                            |                     | C | 695  | 558  | 467  | 402  | 354  | 317  | 287  | 263  | 244  | 227  | 213  | 201  | 190  |      |      |      |      |
|                |                        |                            |                     | D | 0.05 | 0.08 | 0.12 | 0.17 | 0.22 | 0.28 | 0.35 | 0.43 | 0.51 | 0.60 | 0.71 | 0.82 | 0.95 |      |      |      |      |
|                | 2 (50.8)               | 6.2 (9.23)                 | <b>QGS-PS-52012</b> | U | 1131 | 725  | 505  | 372  | 286  | 227  | 185  | 154  | 130  | 111  | 97   | 85   | 75   | 60   | 50   | 42   |      |
|                |                        |                            |                     | D | 0.05 | 0.08 | 0.11 | 0.16 | 0.20 | 0.26 | 0.32 | 0.39 | 0.47 | 0.56 | 0.65 | 0.75 | 0.86 | 1.11 | 1.39 | 1.70 |      |
|                |                        |                            |                     | C | 1107 | 888  | 742  | 638  | 561  | 501  | 453  | 414  | 382  | 355  | 332  | 312  | 295  | 266  | 243  | 224  |      |
|                |                        |                            |                     | D | 0.04 | 0.06 | 0.09 | 0.12 | 0.16 | 0.21 | 0.26 | 0.31 | 0.38 | 0.44 | 0.52 | 0.60 | 0.69 | 0.89 | 1.11 | 1.36 |      |
|                | 1-1/2 (63.5)           | 6.6 (9.82)                 | <b>QGS-PS-52512</b> | U | 1691 | 1083 | 753  | 554  | 425  | 337  | 273  | 226  | 151  | 141  | 123  | 109  | 87   | 71   | 59   | 59   | 50   |
|                |                        |                            |                     | D | 0.04 | 0.06 | 0.09 | 0.13 | 0.17 | 0.21 | 0.26 | 0.32 | 0.38 | 0.45 | 0.52 | 0.60 | 0.68 | 0.87 | 1.09 | 1.33 | 1.60 |
|                |                        |                            |                     | C | 1115 | 1115 | 1106 | 950  | 833  | 742  | 669  | 610  | 561  | 519  | 484  | 453  | 426  | 382  | 347  | 319  | 295  |
|                |                        |                            |                     | D | 0.02 | 0.04 | 0.07 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.30 | 0.36 | 0.41 | 0.48 | 0.55 | 0.70 | 0.87 | 1.06 | 1.28 |
|                | 3 (76.2)               | 7.0 (10.40)                | <b>QGS-PS-53012</b> | U | 2138 | 1370 | 952  | 701  | 537  | 425  | 345  | 286  | 241  | 206  | 178  | 155  | 137  | 109  | 89   | 74   | 63   |
|                |                        |                            |                     | D | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.27 | 0.32 | 0.38 | 0.44 | 0.51 | 0.58 | 0.74 | 0.93 | 1.13 | 1.36 |
|                |                        |                            |                     | C | 1115 | 1115 | 1115 | 1115 | 1052 | 937  | 845  | 770  | 707  | 654  | 609  | 570  | 537  | 480  | 436  | 399  | 369  |
|                |                        |                            |                     | D | 0.02 | 0.03 | 0.05 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.31 | 0.36 | 0.41 | 0.47 | 0.60 | 0.74 | 0.90 | 1.09 |

# Grip Strut Plank 5-Diamond Plank



Load Table of 5-Diamond Plank - 11-3/4" Width

U: uniform load (lb./ft.<sup>2</sup>)

C: concentrated load (lb.)

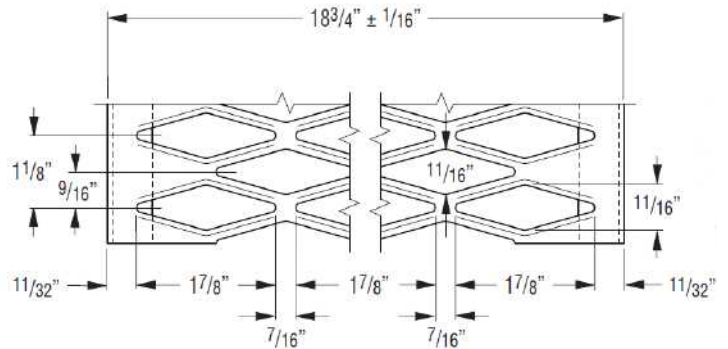
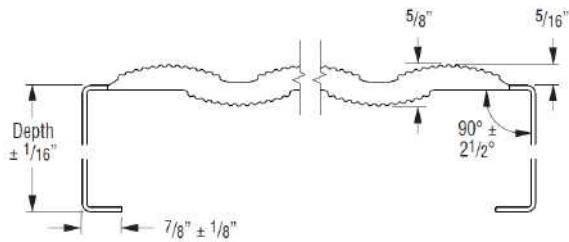
D=Deflection (in.)

   : produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge         | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |    |     |     |     |
|------------------------|------------------------|----------------------------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----|-----|-----|-----|
|                        |                        |                            |                |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9' | 10' | 11' | 12' |
| Stainless 304 16 ga.   | 2 (50.8)               | 3.7 (5.51)                 | QGS-PSS-52016  | U | 583  | 374  | 261  | 192  | 148  | 118  | 96   | 80   | 68   | 58   | 48   |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.05 | 0.08 | 0.11 | 0.16 | 0.20 | 0.26 | 0.32 | 0.39 | 0.47 | 0.56 | 0.48 |      |      |    |     |     |     |
|                        |                        |                            |                | C | 464  | 458  | 323  | 330  | 290  | 259  | 235  | 215  | 199  | 185  | 165  |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.03 | 0.06 | 0.09 | 0.12 | 0.16 | 0.21 | 0.26 | 0.32 | 0.38 | 0.45 | 0.49 |      |      |    |     |     |     |
| Stainless 316L 16 ga.  | 2 (50.8)               | 3.7 (5.51)                 | QGS-PSL-52016  | U | 406  | 324  | 225  | 165  | 126  | 100  | 81   | 66   | 56   | 47   |      |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.04 | 0.06 | 0.10 | 0.13 | 0.17 | 0.22 | 0.27 | 0.32 | 0.39 | 0.45 |      |      |      |    |     |     |     |
|                        |                        |                            |                | C | 398  | 397  | 330  | 283  | 248  | 220  | 198  | 180  | 165  | 152  |      |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.03 | 0.05 | 0.08 | 0.10 | 0.14 | 0.17 | 0.22 | 0.26 | 0.31 | 0.36 |      |      |      |    |     |     |     |
| Alum. Alloy 5052 .080" | 1-1/2 (38.1)           | 1.49 (2.22)                | QGS-PA-41508   | U | 403  | 255  | 179  | 132  | 100  |      |      |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.10 | 0.15 | 0.22 | 0.31 | 0.40 |      |      |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | C | 395  | 316  | 263  | 226  | 197  |      |      |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.08 | 0.12 | 0.18 | 0.25 | 0.32 |      |      |      |      |      |      |      |      |    |     |     |     |
|                        | 2 (50.8)               | 1.59 (2.36)                | QGS-PA-42008   | U | 592  | 379  | 263  | 193  | 148  | 117  | 95   | 78   |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.08 | 0.13 | 0.18 | 0.25 | 0.33 | 0.42 | 0.52 | 0.63 |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | C | 466  | 466  | 386  | 331  | 290  | 257  | 232  | 211  |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.05 | 0.10 | 0.15 | 0.20 | 0.27 | 0.34 | 0.42 | 0.51 |      |      |      |      |      |    |     |     |     |
|                        | 2-1/2 (63.5)           | 1.67 (2.48)                | QGS-PA-42508   | U | 889  | 569  | 395  | 290  | 222  | 176  | 142  | 118  | 99   | 84   | 73   | 63   |      |    |     |     |     |
|                        |                        |                            |                | D | 0.07 | 0.10 | 0.15 | 0.21 | 0.28 | 0.35 | 0.43 | 0.53 | 0.63 | 0.74 | 0.85 | 0.98 |      |    |     |     |     |
|                        |                        |                            |                | C | 466  | 466  | 466  | 466  | 435  | 387  | 348  | 316  | 290  | 268  | 249  | 232  |      |    |     |     |     |
|                        |                        |                            |                | D | 0.02 | 0.05 | 0.10 | 0.16 | 0.22 | 0.28 | 0.35 | 0.42 | 0.50 | 0.59 | 0.68 | 0.78 |      |    |     |     |     |
|                        | 3 (76.2)               | 1.75 (2.60)                | QGS-PA-43008   | U | 951  | 699  | 485  | 357  | 273  | 216  | 175  | 144  | 121  | 103  | 89   | 78   | 68   |    |     |     |     |
|                        |                        |                            |                | D | 0.05 | 0.09 | 0.14 | 0.19 | 0.25 | 0.31 | 0.39 | 0.47 | 0.56 | 0.66 | 0.77 | 0.88 | 1.00 |    |     |     |     |
|                        |                        |                            |                | C | 466  | 466  | 466  | 466  | 466  | 466  | 428  | 389  | 356  | 329  | 305  | 285  | 267  |    |     |     |     |
|                        |                        |                            |                | D | 0.02 | 0.04 | 0.07 | 0.11 | 0.17 | 0.24 | 0.31 | 0.38 | 0.45 | 0.53 | 0.61 | 0.70 | 0.80 |    |     |     |     |
| Alum. Alloy 5052 .100" | 1-1/2 (38.1)           | 1.88 (2.79)                | QGS-PA-51510   | U | 459  | 294  | 204  | 150  | 115  | 91   |      |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.09 | 0.15 | 0.22 | 0.30 | 0.39 | 0.50 |      |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | C | 450  | 360  | 300  | 257  | 225  | 200  |      |      |      |      |      |      |      |    |     |     |     |
|                        |                        |                            |                | D | 0.07 | 0.12 | 0.17 | 0.24 | 0.31 | 0.40 |      |      |      |      |      |      |      |    |     |     |     |
|                        | 2 (50.8)               | 2.00 (2.98)                | QGS-PA-52010   | U | 829  | 530  | 368  | 271  | 207  | 164  | 133  | 110  | 92   | 78   | 68   | 59   |      |    |     |     |     |
|                        |                        |                            |                | D | 0.09 | 0.14 | 0.20 | 0.28 | 0.37 | 0.46 | 0.58 | 0.70 | 0.83 | 0.98 | 1.13 | 1.30 |      |    |     |     |     |
|                        |                        |                            |                | C | 714  | 649  | 541  | 464  | 406  | 361  | 325  | 295  | 270  | 250  | 232  | 216  |      |    |     |     |     |
|                        |                        |                            |                | D | 0.06 | 0.11 | 0.16 | 0.22 | 0.29 | 0.37 | 0.46 | 0.56 | 0.66 | 0.78 | 0.90 | 1.04 |      |    |     |     |     |
|                        | 2-1/2 (63.5)           | 2.11 (3.14)                | QGS-PA-52510   | U | 1140 | 730  | 507  | 372  | 285  | 225  | 182  | 151  | 127  | 105  | 93   | 81   | 71   |    |     |     |     |
|                        |                        |                            |                | D | 0.07 | 0.11 | 0.16 | 0.22 | 0.28 | 0.36 | 0.45 | 0.54 | 0.64 | 0.76 | 0.88 | 1.01 | 1.15 |    |     |     |     |
|                        |                        |                            |                | C | 714  | 714  | 714  | 638  | 558  | 496  | 446  | 406  | 372  | 343  | 319  | 298  | 279  |    |     |     |     |
|                        |                        |                            |                | D | 0.03 | 0.07 | 0.12 | 0.17 | 0.23 | 0.29 | 0.36 | 0.43 | 0.51 | 0.60 | 0.70 | 0.81 | 0.92 |    |     |     |     |
|                        | 3 (76.2)               | 2.22 (3.30)                | QGS-PA-53010   | U | 1458 | 942  | 654  | 481  | 368  | 291  | 235  | 195  | 164  | 139  | 120  | 105  | 92   |    |     |     |     |
|                        |                        |                            |                | D | 0.05 | 0.08 | 0.12 | 0.17 | 0.22 | 0.28 | 0.34 | 0.42 | 0.50 | 0.59 | 0.68 | 0.78 | 0.89 |    |     |     |     |
|                        |                        |                            |                | C | 714  | 714  | 714  | 714  | 714  | 640  | 576  | 524  | 280  | 443  | 412  | 384  | 360  |    |     |     |     |
|                        |                        |                            |                | D | 0.02 | 0.04 | 0.07 | 0.12 | 0.17 | 0.22 | 0.27 | 0.33 | 0.40 | 0.47 | 0.54 | 0.62 | 0.71 |    |     |     |     |



## Grip Strut Plank 8-Diamond Plank



**Load Table of 8-Diamond Plank – 18-3/4" Width**

U: uniform load (lb./ft.<sup>2</sup>)      C: concentrated load (lb.)      D=Deflection (in.)  
  :produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|----------------|------------------------|----------------------------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
|                |                        |                            |                |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |  |
| Steel 14 ga.   | 1-1/2 (38.1)           | 6.1 (9.1)                  | QGS-PS-81514   | U | 337  | 217  | 151  | 112  | 86   | 69   | 56   | 47   |      |      |      |      |      |      |      |      |      |  |
|                |                        |                            |                | D | 0.33 | 0.27 | 0.26 | 0.29 | 0.33 | 0.38 | 0.45 | 0.55 |      |      |      |      |      |      |      |      |      |  |
|                |                        |                            |                | C | 263  | 211  | 178  | 153  | 135  | 121  | 110  | 101  |      |      |      |      |      |      |      |      |      |  |
|                |                        |                            |                | D | 0.16 | 0.15 | 0.15 | 0.16 | 0.17 | 0.19 | 0.22 | 0.25 |      |      |      |      |      |      |      |      |      |  |
|                | 2 (50.8)               | 6.3 (9.4)                  | QGS-PS-82014   | U | 540  | 358  | 250  | 184  | 142  | 113  | 92   | 76   | 65   | 55   | 48   | 42   |      |      |      |      |      |  |
|                |                        |                            |                | D | 0.48 | 0.37 | 0.34 | 0.32 | 0.34 | 0.38 | 0.43 | 0.50 | 0.58 | 0.66 | 0.77 | 0.87 |      |      |      |      |      |  |
|                |                        |                            |                | C | 437  | 349  | 292  | 251  | 220  | 198  | 179  | 164  | 152  | 141  | 132  | 124  |      |      |      |      |      |  |
|                |                        |                            |                | D | 0.24 | 0.21 | 0.20 | 0.19 | 0.20 | 0.21 | 0.23 | 0.26 | 0.29 | 0.32 | 0.36 | 0.40 |      |      |      |      |      |  |
|                | 2-1/2 (63.5)           | 6.6 (9.8)                  | QGS-PS-82514   | U | 540  | 411  | 286  | 211  | 162  | 129  | 105  | 87   | 74   | 63   | 56   | 48   | 43   |      |      |      |      |  |
|                |                        |                            |                | D | 0.46 | 0.39 | 0.35 | 0.28 | 0.27 | 0.28 | 0.31 | 0.35 | 0.39 | 0.44 | 0.50 | 0.57 | 0.64 |      |      |      |      |  |
|                |                        |                            |                | C | 450  | 402  | 335  | 287  | 252  | 225  | 205  | 188  | 173  | 161  | 151  | 142  | 134  |      |      |      |      |  |
|                |                        |                            |                | D | 0.24 | 0.22 | 0.20 | 0.19 | 0.19 | 0.19 | 0.20 | 0.21 | 0.23 | 0.24 | 0.27 | 0.29 | 0.32 |      |      |      |      |  |
| Steel 12 ga.   | 1-1/2 (38.1)           | 8.5 (12.6)                 | QGS-PS-81512   | U | 446  | 287  | 201  | 148  | 115  | 91   | 75   | 63   | 53   | 46   | 40   |      |      |      |      |      |      |  |
|                |                        |                            |                | D | 0.27 | 0.22 | 0.22 | 0.26 | 0.32 | 0.39 | 0.47 | 0.56 | 0.67 | 0.80 | 0.92 |      |      |      |      |      |      |  |
|                |                        |                            |                | C | 359  | 280  | 235  | 203  | 179  | 161  | 146  | 135  | 125  | 117  | 110  |      |      |      |      |      |      |  |
|                |                        |                            |                | D | 0.12 | 0.12 | 0.12 | 0.14 | 0.16 | 0.19 | 0.22 | 0.26 | 0.30 | 0.35 | 0.40 |      |      |      |      |      |      |  |
|                | 2 (50.8)               | 8.9 (13.2)                 | QGS-PS-82012   | U | 710  | 456  | 318  | 235  | 181  | 144  | 117  | 98   | 83   | 71   | 62   | 54   | 48   |      |      |      |      |  |
|                |                        |                            |                | D | 0.31 | 0.25 | 0.23 | 0.25 | 0.28 | 0.31 | 0.37 | 0.44 | 0.51 | 0.60 | 0.68 | 0.79 | 0.90 |      |      |      |      |  |
|                |                        |                            |                | C | 554  | 444  | 371  | 319  | 282  | 253  | 229  | 210  | 194  | 181  | 169  | 160  | 151  |      |      |      |      |  |
|                |                        |                            |                | D | 0.17 | 0.15 | 0.14 | 0.15 | 0.16 | 0.17 | 0.19 | 0.22 | 0.25 | 0.28 | 0.32 | 0.36 | 0.40 |      |      |      |      |  |
|                | 2-1/2 (63.5)           | 9.2 (13.7)                 | QGS-PS-82512   | U | 810  | 680  | 473  | 348  | 267  | 212  | 172  | 143  | 120  | 103  | 89   | 78   | 69   | 55   | 45   |      |      |  |
|                |                        |                            |                | D | 0.33 | 0.31 | 0.27 | 0.26 | 0.27 | 0.29 | 0.32 | 0.37 | 0.42 | 0.49 | 0.55 | 0.63 | 0.72 | 0.90 | 1.12 |      |      |  |
|                |                        |                            |                | C | 800  | 663  | 553  | 475  | 416  | 371  | 334  | 307  | 282  | 262  | 244  | 229  | 216  | 194  | 177  |      |      |  |
|                |                        |                            |                | D | 0.23 | 0.20 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.21 | 0.23 | 0.25 | 0.28 | 0.31 | 0.34 | 0.41 | 0.50 |      |      |  |
|                | 3 (76.2)               | 9.6 (14.3)                 | QGS-PS-83012   | U | 810  | 810  | 598  | 440  | 337  | 267  | 217  | 180  | 152  | 130  | 112  | 98   | 87   | 69   | 57   | 47   | 40   |  |
|                |                        |                            |                | D | 0.32 | 0.35 | 0.30 | 0.27 | 0.26 | 0.28 | 0.31 | 0.34 | 0.39 | 0.43 | 0.49 | 0.56 | 0.62 | 0.78 | 0.96 | 1.17 | 1.40 |  |
|                |                        |                            |                | C | 800  | 800  | 699  | 600  | 526  | 468  | 422  | 385  | 353  | 327  | 307  | 288  | 271  | 243  | 221  | 203  | 189  |  |
|                |                        |                            |                | D | 0.22 | 0.23 | 0.22 | 0.20 | 0.20 | 0.20 | 0.20 | 0.21 | 0.22 | 0.24 | 0.26 | 0.28 | 0.31 | 0.37 | 0.44 | 0.52 | 0.61 |  |



# Grip Strut Plank 8-Diamond Plank



Load Table of 8-Diamond Plank – 18-3/4" Width

U: uniform load (lb./ft.<sup>2</sup>)

C: concentrated load (lb.)

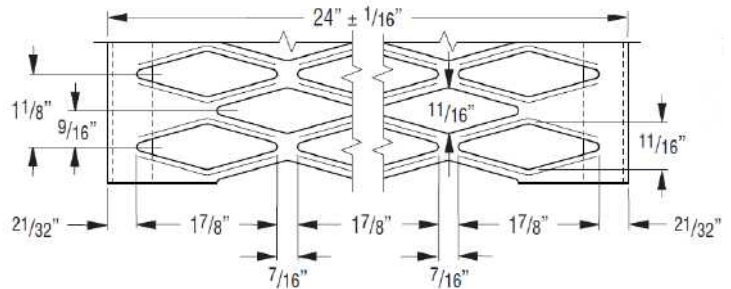
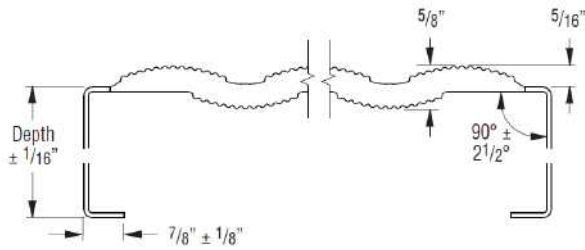
D=Deflection (in.)

    :produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge         | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |    |     |     |
|------------------------|------------------------|----------------------------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|----|-----|-----|
|                        |                        |                            |                |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9' | 10' | 11' |
| Alum. Alloy 5052 .080" | 1-1/2 (38.1)           | 2.11 (3.13)                | QGS-PA-81508   | U | 253  | 162  | 112  | 83   |      |      |      |      |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.49 | 0.40 | 0.39 | 0.44 |      |      |      |      |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | C | 198  | 158  | 132  | 113  |      |      |      |      |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.24 | 0.22 | 0.22 | 0.24 |      |      |      |      |      |      |      |      |      |    |     |     |
|                        | 2 (50.8)               | 2.20 (3.27)                | QGS-PA-82008   | U | 308  | 237  | 165  | 121  | 93   | 73   | 59   | 49   |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.54 | 0.50 | 0.44 | 0.44 | 0.47 | 0.53 | 0.61 | 0.71 |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | C | 290  | 232  | 193  | 166  | 145  | 129  | 116  | 106  |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.32 | 0.28 | 0.27 | 0.27 | 0.28 | 0.30 | 0.32 | 0.36 |      |      |      |      |      |    |     |     |
|                        | 2-1/2 (63.5)           | 2.29 (3.40)                | QGS-PA-82508   | U | 308  | 308  | 248  | 182  | 139  | 110  | 89   | 74   | 62   | 53   |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.51 | 0.57 | 0.54 | 0.49 | 0.50 | 0.52 | 0.57 | 0.65 | 0.73 | 0.83 |      |      |      |    |     |     |
|                        |                        |                            |                | C | 350  | 348  | 290  | 249  | 218  | 194  | 174  | 158  | 145  | 134  |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.37 | 0.39 | 0.35 | 0.33 | 0.33 | 0.34 | 0.35 | 0.37 | 0.40 | 0.43 |      |      |      |    |     |     |
|                        | 3 (76.2)               | 2.39 (3.55)                | QGS-PA-83012   | U | 308  | 308  | 308  | 223  | 171  | 135  | 109  | 90   | 76   | 65   | 56   | 49   |      |    |     |     |
|                        |                        |                            |                | D | 0.50 | 0.54 | 0.62 | 0.54 | 0.52 | 0.52 | 0.56 | 0.61 | 0.68 | 0.76 | 0.86 | 0.96 |      |    |     |     |
|                        |                        |                            |                | C | 350  | 350  | 350  | 306  | 268  | 238  | 214  | 195  | 178  | 165  | 153  | 143  |      |    |     |     |
|                        |                        |                            |                | D | 0.37 | 0.38 | 0.41 | 0.38 | 0.37 | 0.37 | 0.37 | 0.39 | 0.40 | 0.43 | 0.46 | 0.50 |      |    |     |     |
| Alum. Alloy 5052 .100" | 1-1/2 (38.1)           | 2.68 (3.98)                | QGS-PA-81510   | U | 288  | 184  | 128  | 94   | 72   | 57   |      |      |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.41 | 0.36 | 0.36 | 0.40 | 0.47 | 0.56 |      |      |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | C | 225  | 180  | 150  | 129  | 113  | 100  |      |      |      |      |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.18 | 0.18 | 0.19 | 21   | 0.23 | 0.27 |      |      |      |      |      |      |      |    |     |     |
|                        | 2 (50.8)               | 2.79 (4.15)                | QGS-PA-82010   | U | 457  | 332  | 231  | 170  | 130  | 103  | 83   | 69   | 58   | 49   |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.59 | 0.51 | 0.46 | 0.47 | 0.52 | 0.57 | 0.67 | 0.78 | 0.89 | 1.03 |      |      |      |    |     |     |
|                        |                        |                            |                | C | 406  | 325  | 271  | 232  | 203  | 181  | 163  | 148  | 135  | 125  |      |      |      |    |     |     |
|                        |                        |                            |                | D | 0.29 | 0.26 | 0.25 | 0.26 | 0.28 | 0.30 | 0.33 | 0.37 | 0.42 | 0.47 |      |      |      |    |     |     |
|                        | 2-1/2 (63.5)           | 2.91 (4.33)                | QGS-PA-82510   | U | 457  | 457  | 317  | 233  | 179  | 141  | 114  | 94   | 79   | 68   | 58   | 51   | 45   |    |     |     |
|                        |                        |                            |                | D | 0.55 | 0.62 | 0.51 | 0.48 | 0.48 | 0.52 | 0.58 | 0.64 | 0.73 | 0.84 | 0.94 | 1.07 | 1.20 |    |     |     |
|                        |                        |                            |                | C | 550  | 447  | 372  | 319  | 279  | 248  | 223  | 203  | 186  | 172  | 160  | 149  | 140  |    |     |     |
|                        |                        |                            |                | D | 0.37 | 0.32 | 0.30 | 0.29 | 0.29 | 0.30 | 0.32 | 0.35 | 0.38 | 0.41 | 0.46 | 0.52 | 0.55 |    |     |     |
|                        | 3 (76.2)               | 3.02 (4.50)                | QGS-PA-83010   | U | 457  | 457  | 410  | 301  | 231  | 182  | 148  | 122  | 102  | 87   | 75   | 66   | 58   |    |     |     |
|                        |                        |                            |                | D | 0.53 | 0.57 | 0.58 | 0.51 | 0.48 | 0.48 | 0.51 | 0.56 | 0.61 | 0.69 | 0.76 | 0.85 | 0.95 |    |     |     |
|                        |                        |                            |                | C | 550  | 550  | 481  | 412  | 360  | 320  | 288  | 262  | 240  | 222  | 206  | 192  | 180  |    |     |     |
|                        |                        |                            |                | D | 0.37 | 0.39 | 0.37 | 0.35 | 0.34 | 0.34 | 0.36 | 0.38 | 0.41 | 0.44 | 0.48 | 0.52 | 0.57 |    |     |     |



## Grip Strut Plank 10-Diamond Plank



**Load Table of 10-Diamond Plank – 24" Width**

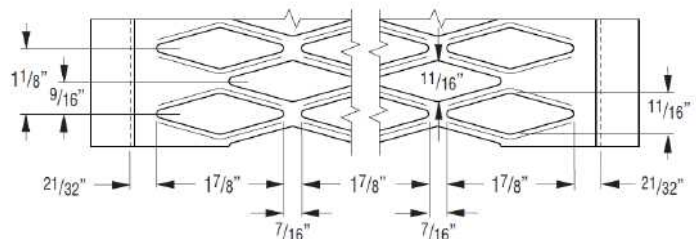
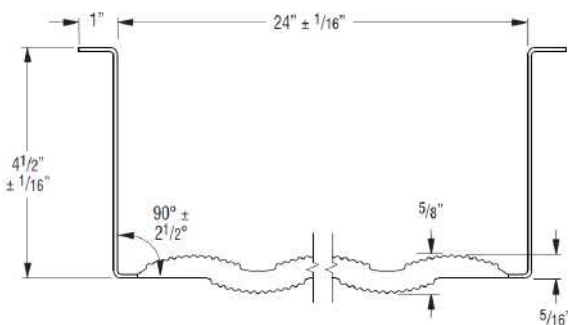
U: uniform load (lb./ft.<sup>2</sup>) C: concentrated load (lb.) D=Deflection (in.)

       : produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number |   | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|----------------|------------------------|----------------------------|----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
|                |                        |                            |                |   | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11' | 12' |
| Steel 14 ga.   | 2 (50.8)               | 7.4 (11.0)                 | QGS-PS -102014 | U | 300  | 300  | 228  | 168  | 128  | 102  | 82   | 68   | 57   | 49   | 42   |      |      |      |      |     |     |
|                |                        |                            |                | D | 0.46 | 0.48 | 0.42 | 0.38 | 0.38 | 0.41 | 0.44 | 0.49 | 0.55 | 0.62 | 0.70 |      |      |      |      |     |     |
|                |                        |                            |                | C | 400  | 400  | 343  | 294  | 257  | 229  | 206  | 187  | 172  | 158  | 147  |      |      |      |      |     |     |
|                |                        |                            |                | D | 0.34 | 0.35 | 0.32 | 0.30 | 0.29 | 0.29 | 0.30 | 0.31 | 0.33 | 0.35 | 0.37 |      |      |      |      |     |     |
|                | 3 (76.2)               | 7.9 (11.8)                 | QGS-PS -103014 | U | 300  | 300  | 300  | 264  | 202  | 160  | 130  | 107  | 90   | 77   | 66   | 58   | 51   | 40   |      |     |     |
|                |                        |                            |                | D | 0.42 | 0.43 | 0.46 | 0.44 | 0.39 | 0.36 | 0.35 | 0.36 | 0.39 | 0.44 | 0.45 | 0.49 | 0.54 | 0.65 |      |     |     |
|                |                        |                            |                | C | 400  | 400  | 400  | 400  | 400  | 360  | 324  | 295  | 270  | 249  | 232  | 216  | 203  | 180  |      |     |     |
|                |                        |                            |                | D | 0.33 | 0.33 | 0.34 | 0.35 | 0.37 | 0.35 | 0.33 | 0.33 | 0.32 | 0.32 | 0.33 | 0.34 | 0.35 | 0.38 |      |     |     |
| Steel 12 ga.   | 2 (50.8)               | 19.4 (15.5)                | QGS-PS -102012 | U | 475  | 416  | 289  | 212  | 162  | 128  | 104  | 86   | 72   | 62   | 53   | 46   |      |      |      |     |     |
|                |                        |                            |                | D | 0.40 | 0.39 | 0.33 | 0.31 | 0.31 | 0.34 | 0.38 | 0.44 | 0.48 | 0.56 | 0.63 | 0.71 |      |      |      |     |     |
|                |                        |                            |                | C | 650  | 520  | 434  | 372  | 325  | 289  | 260  | 237  | 217  | 200  | 186  | 174  |      |      |      |     |     |
|                |                        |                            |                | D | 0.26 | 0.22 | 0.19 | 0.20 | 0.20 | 0.21 | 0.22 | 0.23 | 0.25 | 0.28 | 0.31 | 0.34 |      |      |      |     |     |
|                | 3 (76.2)               | 11.1 (16.5)                | QGS-PS -103012 | U | 475  | 475  | 475  | 392  | 300  | 237  | 192  | 159  | 133  | 114  | 98   | 85   | 75   | 59   | 48   |     |     |
|                |                        |                            |                | D | 0.38 | 0.39 | 0.42 | 0.38 | 0.36 | 0.34 | 0.35 | 0.37 | 0.39 | 0.43 | 0.47 | 0.52 | 0.58 | 0.70 | 0.85 |     |     |
|                |                        |                            |                | C | 900  | 900  | 800  | 686  | 600  | 534  | 480  | 437  | 400  | 369  | 343  | 320  | 300  | 267  | 240  |     |     |
|                |                        |                            |                | D | 0.34 | 0.35 | 0.33 | 0.29 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.27 | 0.29 | 0.30 | 0.32 | 0.36 | 0.41 |     |     |



## Grip Strut 10-Diamond Walkway

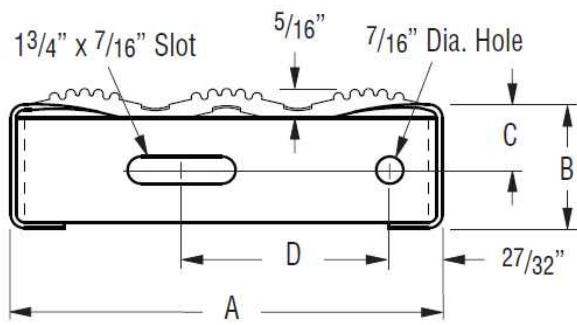


**Load Table of 10-Diamond Walkway – 24" Width**

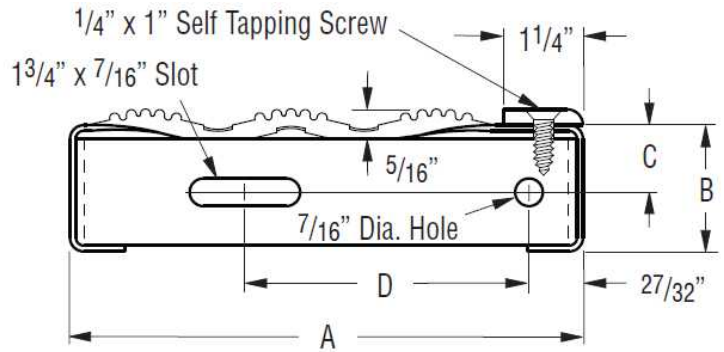
U: uniform load (lb./ft.<sup>2</sup>) C: concentrated load (lb.) D=Deflection (in.)

       : produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/ m) | Catalog Number       | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------------|-----------------------------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                        |                             |                      | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 14 ga.   | 4-1/2                  | 8.9 (13.2)                  | <b>QGS-W -104514</b> | U    | 300  | 300  | 300  | 300  | 300  | 263  | 213  | 176  | 148  | 126  | 109  | 95   | 83   | 66   | 53   | 43   |      |
|                |                        |                             |                      | D    | 0.41 | 0.41 | 0.42 | 0.45 | 0.48 | 0.47 | 0.42 | 0.40 | 0.40 | 0.41 | 0.43 | 0.45 | 0.47 | 0.55 | 0.64 | 0.75 |      |
|                |                        |                             |                      | C    | 400  | 400  | 400  | 400  | 400  | 400  | 400  | 400  | 400  | 400  | 380  | 355  | 333  | 296  | 266  | 242  |      |
|                |                        |                             |                      | D    | 0.32 | 0.33 | 0.33 | 0.33 | 0.34 | 0.35 | 0.36 | 0.38 | 0.39 | 0.41 | 0.42 | 0.41 | 0.41 | 0.42 | 0.44 | 0.47 |      |
| Steel 12 ga.   | 4-1/2                  | 12.5 (18.6)                 | <b>QGS-W -104512</b> | U    | 475  | 475  | 475  | 475  | 475  | 420  | 340  | 281  | 236  | 201  | 173  | 151  | 133  | 105  | 85   | 70   | 59   |
|                |                        |                             |                      | D    | 0.37 | 0.37 | 0.38 | 0.40 | 0.43 | 0.43 | 0.39 | 0.37 | 0.37 | 0.37 | 0.39 | 0.41 | 0.44 | 0.51 | 0.59 | 0.69 | 0.80 |
|                |                        |                             |                      | C    | 900  | 900  | 900  | 900  | 900  | 900  | 850  | 773  | 709  | 654  | 607  | 567  | 531  | 472  | 425  | 387  | 354  |
|                |                        |                             |                      | D    | 0.34 | 0.34 | 0.35 | 0.35 | 0.36 | 0.37 | 0.37 | 0.35 | 0.34 | 0.33 | 0.33 | 0.33 | 0.33 | 0.35 | 0.37 | 0.40 | 0.44 |



Standard Stair treads



Stair Treads With Abrasive Nosing

## Specification of Grip Strut Stair Treads

| Item      | Standard |        |      |        | With Abrasive Nosing |        |      |        |
|-----------|----------|--------|------|--------|----------------------|--------|------|--------|
|           | A        | B      | C    | D      | A                    | B      | C    | D      |
| 2-Diamond | 4-3/4"   | 1-1/2" | 3/4" | 2-5/8" | -                    | -      | -    | -      |
|           |          | 2"     | 1"   | 2-5/8" | -                    | -      | -    | -      |
| 3-Diamond | 7"       | 1-1/2" | 3/4" | 3-3/8" | 8-1/8"               | 1-1/2" | 3/4" | 4-1/2" |
|           |          | 2"     | 1"   | 3-3/8" |                      | 2"     | 1"   | 4-1/2" |
| 4-Diamond | 9-1/2"   | 1-1/2" | 3/4" | 5-7/8" | 10-1/2"              | 1-1/2" | 3/4" | 6-7/8" |
|           |          | 2"     | 1"   | 5-7/8" |                      | 2"     | 1"   | 6-7/8" |
| 5-Diamond | 11-3/4"  | 1-1/2" | 3/4" | 8-1/8" | -                    | -      | -    | -      |
|           |          | 2"     | 1"   | 8-1/8" | -                    | -      | -    | -      |

## Load Table of Grip-Strut Stair Treads

U: uniform load (lb./ft.2)

C: concentrated load (lb.)

|                 |        | 2-Diamond |     |          |     | 3-Diamond |     |          |     | 4-Diamond |     |          |     | 5-Diamond |     |          |      |
|-----------------|--------|-----------|-----|----------|-----|-----------|-----|----------|-----|-----------|-----|----------|-----|-----------|-----|----------|------|
| Steel           |        |           |     |          |     |           |     |          |     |           |     |          |     |           |     |          |      |
| Span            | Height | 14 gauge  |     | 12 gauge |     | 14 gauge  |     | 12 gauge |     | 14 gauge  |     | 12 gauge |     | 14 gauge  |     | 12 gauge |      |
|                 |        | U         | C   | U        | C   | U         | C   | U        | C   | U         | C   | U        | C   | U         | C   | U        | C    |
| 2'              | 1-1/2" | 1191      | 472 | 1576     | 624 | 761       | 443 | 1006     | 587 | 549       | 435 | 750      | 595 | 434       | 425 | 575      | 5563 |
|                 | 2"     | 1978      | 783 | 2513     | 995 | 1262      | 737 | 1604     | 936 | 911       | 604 | 1158     | 917 | 721       | 573 | 916      | 897  |
| 2'6"            | 1-1/2" | 764       | 378 | 1011     | 500 | 488       | 356 | 645      | 470 | 355       | 349 | 484      | 476 | 278       | 342 | 369      | 452  |
| 3'              | 2"     | 1268      | 611 | 1611     | 797 | 810       | 590 | 1029     | 750 | 584       | 578 | 742      | 734 | 463       | 566 | 587      | 719  |
|                 | 1-1/2" | 532       | 315 | 703      | 418 | 340       | 300 | 450      | 393 | 245       | 300 | 335      | 398 | 194       | 300 | 258      | 3778 |
| 4'              | 2"     | 882       | 524 | 1121     | 665 | 563       | 492 | 716      | 626 | 407       | 483 | 517      | 614 | 322       | 473 | 409      | 601  |
|                 | 2"     | 498       | 394 | 633      | 501 | 318       | 372 | 404      | 472 | 230       | 364 | 292      | 463 | 182       | 356 | 232      | 454  |
| Aluminum        |        |           |     |          |     |           |     |          |     |           |     |          |     |           |     |          |      |
| Span            | Height | 0.08"     |     | 0.10"    |     | 0.08"     |     | 0.10"    |     | 0.08"     |     | 0.10"    |     | 0.08"     |     | 0.10"    |      |
|                 |        | U         | C   | U        | C   | U         | C   | U        | C   | U         | C   | U        | C   | U         | C   | U        | C    |
| 2'              | 2"     | 1328      | 526 | 1862     | 737 | 862       | 503 | 1208     | 705 | 607       | 481 | 867      | 486 | 396       | 388 | 607      | 595  |
| 2'6"            | 2"     | 850       | 420 | 1191     | 590 | 551       | 402 | 773      | 564 | 388       | 392 | 555      | 387 | 253       | 388 | 388      | 540  |
| 3'              | 2"     | 590       | 350 | 827      | 491 | 383       | 335 | 537      | 470 | 270       | 327 | 385      | 323 | 176       | 321 | 270      | 450  |
| 4'              | 2"     | 332       | 263 | 465      | 369 | 215       | 252 | 302      | 353 | 152       | 245 | 216      | 244 | 99        | 241 | 151      | 338  |
| Stainless steel |        |           |     |          |     |           |     |          |     |           |     |          |     |           |     |          |      |
| Span            | Height |           |     |          |     |           |     |          |     | 304       |     | 316L     |     | 304       |     | 316L     |      |
|                 |        |           |     |          |     |           |     |          |     | U         | C   | U        | C   | U         | C   | U        | C    |
| 2'              | 2"     |           |     |          |     |           |     |          |     | 610       | 483 | 525      | 416 | 394       | 386 | 338      | 331  |
| 2'6"            | 2"     |           |     |          |     |           |     |          |     | 390       | 387 | 336      | 336 | 252       | 381 | 216      | 339  |
| 3'              | 2"     |           |     |          |     |           |     |          |     | 271       | 323 | 233      | 279 | 175       | 319 | 150      | 275  |
| 4'              | 2"     |           |     |          |     |           |     |          |     | 152       | 244 | 131      | 210 | 98        | 241 | 84       | 221  |

## GRIP-STRUT SAFETY GRATING

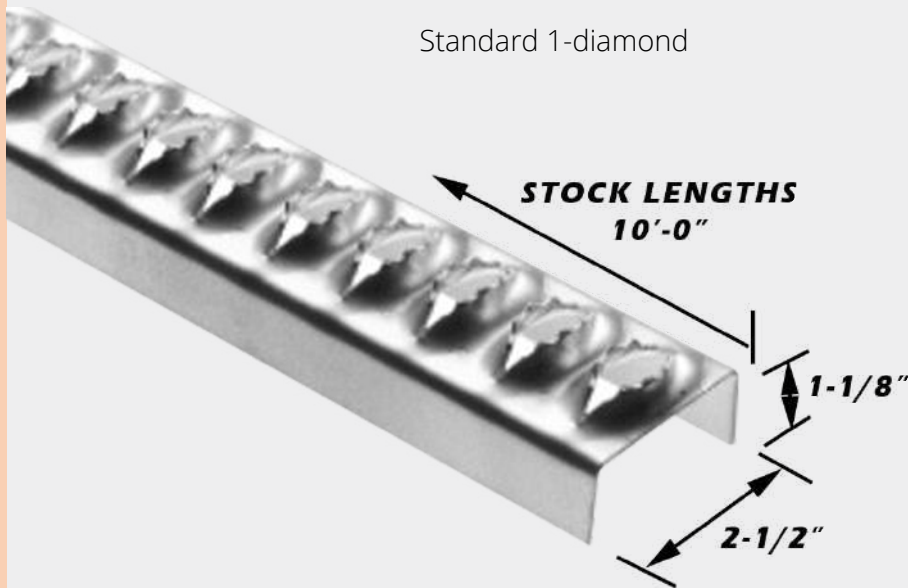
### Ladder Rungs



Standard 1-diamond



Reverse 1-diamond



**Load Table of Grip-Strut Ladder Rungs**

U: uniform load (lb./ft.<sup>2</sup>) C: concentrated load (lb.)

**Steel 14 gauge**

| Item No. |   | Clear Span |      |      |      |     |      |
|----------|---|------------|------|------|------|-----|------|
|          |   | 16"        | 18"  | 20"  | 24"  | 30" | 36"  |
| GL-01    | C | 528        | 469  | 422  | 352  | 281 | 234  |
|          | D | 0.06       | 0.07 | 0.09 | 0.13 | 0.2 | 0.30 |



## GRIP-STRUT SAFETY GRATING

### Accessories for Standard Grip Strut Safety Grating

**Table-1: Kit List of Diamond Washer**

| Item           | Size                                                     | Number | <br>Diamond washer |
|----------------|----------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------|
| Diamond Washer | 2-1/4" × 3/4"                                            | 1      |                                                                                                      |
| Carriage Bolt  | 5/16" – 18"                                              | 1      |                                                                                                      |
| Flat Washer    | 5/16"                                                    | 1      |                                                                                                      |
| Hex Nut        | 5/16" – 18"                                              | 1      |                                                                                                      |
| Material       | mill galvanized plain steel or stainless steel type 304. |        |                                                                                                      |

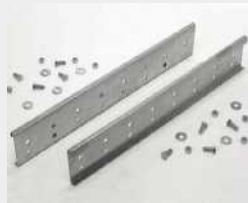
**Table-2: Kit List of J-Bolt Anchor Plate**

| Item         | Size                                                     | Number | <br>J-bolt anchor plate |
|--------------|----------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------|
| Anchor Plate | 3-1/2" × 3-1/2"                                          | 1      |                                                                                                             |
| J-Bolt       | 3/8" – 16"                                               | 2      |                                                                                                             |
| Flat Washer  | 3/8"                                                     | 2      |                                                                                                             |
| Hex Nut      | 3/8" – 16"                                               | 2      |                                                                                                             |
| Material     | mill galvanized plain steel or stainless steel type 304. |        |                                                                                                             |

**Table-3: Kit List of 7" Long Walkway Splice Plate**

| Item         | Size                                 | Number | <br>7" Long Walkway Splice Plate |
|--------------|--------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------|
| Splice Plate | 4" × 7"                              | 2      |                                                                                                                      |
| Hex Bolt     | 7/16"-14 × 1-1/4"                    | 16     |                                                                                                                      |
| Hex Nut      | 7/16"-14                             | 16     |                                                                                                                      |
| Washers      | 7/16"                                | 16     |                                                                                                                      |
| Material     | 10 gauge mill galvanized steel plate |        |                                                                                                                      |

**Table-4: Kit List of 30" Long Walkway Splice Plate**

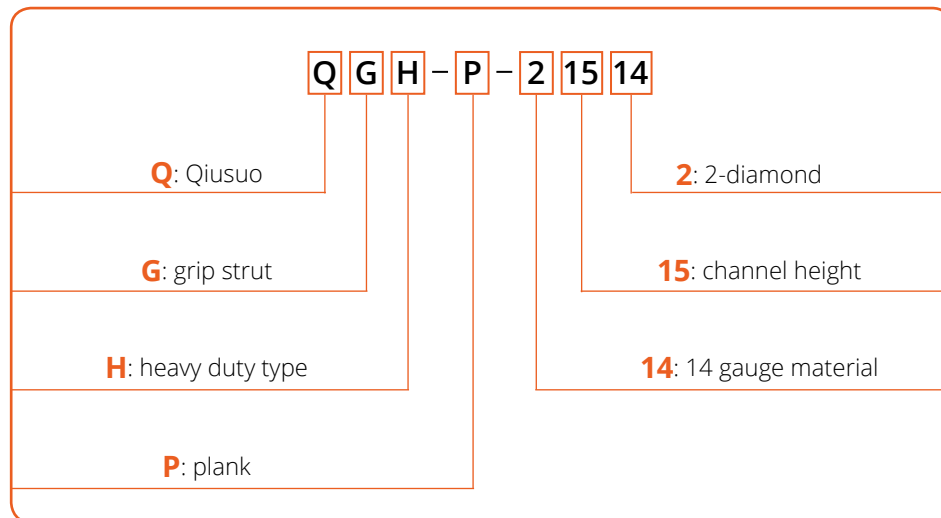
| Item         | Size                                 | Number | <br>30" Long Walkway Splice Plate |
|--------------|--------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| Splice Plate | 4-1/2" × 30"                         | 2      |                                                                                                                       |
| Hex Bolt     | 1/2"-13 × 1-1/4"                     | 32     |                                                                                                                       |
| Hex Nut      | 1/2"-13                              | 32     |                                                                                                                       |
| Washers      | 1/2"                                 | 32     |                                                                                                                       |
| Material     | 13 gauge mill galvanized steel plate |        |                                                                                                                       |



## Heavy Duty Grip Strut Safety Grating

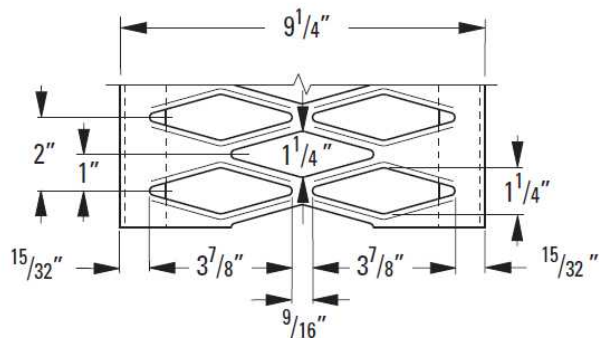
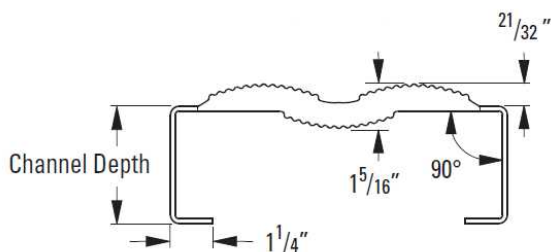
### How to order

#### Model Explanation



The following are **Safe Loading Tables** of parameters for different purposes.

### Heavy Duty Grip Strut Plank 2-Diamond Plank



**Load Table of 2-Diamond Plank – 9-1/4" Width**

| U: uniform load (lb./ft. <sup>2</sup> )      C: concentrated load (lb.)      D=Deflection (in.) |                        |                            |                    | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------|------------------------|----------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Material Gauge                                                                                  | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number     |      | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |
| Steel 11 ga.                                                                                    | 2 (38.1)               | 6.6 (9.8)                  | <b>QGH-P-22011</b> | U    | 2413 | 1544 | 1027 | 788  | 629  | 476  | 385  | 319  | 270  | 228  | 196  | 172  | 150  | 119  | 98   | 81   | 67   |
|                                                                                                 |                        |                            |                    | D    | 0.05 | 0.08 | 0.11 | 0.15 | 0.19 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                                                                                                 |                        |                            |                    | C    | 1860 | 1488 | 1240 | 1063 | 930  | 827  | 744  | 677  | 620  | 572  | 531  | 496  | 465  | 413  | 372  | 338  | 310  |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                                                                                                 | 2-1/2 (50.8)           | 7.0 (10.4)                 | <b>QGH-P-22511</b> | U    | 3657 | 2340 | 1625 | 1194 | 914  | 722  | 585  | 483  | 406  | 347  | 298  | 259  | 228  | 182  | 147  | 122  | 102  |
|                                                                                                 |                        |                            |                    | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                                                                                 |                        |                            |                    | C    | 2820 | 2256 | 1880 | 1611 | 1410 | 1254 | 1128 | 1025 | 940  | 868  | 806  | 752  | 705  | 626  | 564  | 513  | 470  |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |

# Heavy Duty Grip Strut Plank 2-Diamond Plank



Load Table of 2-Diamond Plank – 9-1/4" Width

U: uniform load (lb./ft.<sup>2</sup>)

C: concentrated load (lb.)

D=Deflection (in.)

| Material Gauge  | Channel Depth<br>in. (mm) | Weight<br>lb./lin. ft.<br>(kg/m) | Catalog<br>Number       | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|---------------------------|----------------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 |                           |                                  |                         | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7'   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 11<br>ga. | 3<br>(38.1)               | 2.11<br>(3.13)                   | <b>QGH-P<br/>-23011</b> | U    | 3892 | 2490 | 1731 | 1272 | 974  | 767  | 623  | 515  | 431  | 368  | 319  | 276  | 242  | 193  | 154  | 130  | 109  |
|                 |                           |                                  |                         | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                 |                           |                                  |                         | C    | 3000 | 2400 | 2000 | 1715 | 1500 | 1333 | 1180 | 1091 | 1000 | 923  | 857  | 800  | 750  | 667  | 600  | 545  | 500  |
|                 |                           |                                  |                         | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                 | 4<br>(50.8)               | 2.20<br>(3.27)                   | <b>QGH-P<br/>-24011</b> | U    | 6382 | 4084 | 2837 | 2084 | 1598 | 1261 | 1022 | 844  | 707  | 606  | 522  | 455  | 400  | 315  | 256  | 211  | 176  |
|                 |                           |                                  |                         | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                 |                           |                                  |                         | C    | 4920 | 3936 | 3280 | 2812 | 2460 | 2187 | 1968 | 1789 | 1640 | 1514 | 1406 | 1312 | 1230 | 1094 | 935  | 895  | 820  |
|                 |                           |                                  |                         | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |
| Steel 10<br>ga. | 1 1/2<br>(38.1)           | 2.68<br>(3.98)                   | <b>QGH-P<br/>-22010</b> | U    | 2681 | 1716 | 1141 | 876  | 699  | 529  | 428  | 354  | 300  | 253  | 218  | 191  | 167  | 132  | 109  | 90   | 74   |
|                 |                           |                                  |                         | D    | 0.05 | 0.08 | 0.11 | 0.15 | 0.19 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                 |                           |                                  |                         | C    | 2067 | 1653 | 1378 | 1181 | 1033 | 919  | 827  | 752  | 689  | 636  | 590  | 551  | 517  | 459  | 413  | 376  | 344  |
|                 |                           |                                  |                         | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.96 | 1.16 |
|                 | 2<br>(50.8)               | 2.79<br>(4.15)                   | <b>QGH-P<br/>-22510</b> | U    | 4063 | 2600 | 1806 | 1327 | 1016 | 802  | 650  | 537  | 451  | 385  | 331  | 288  | 253  | 202  | 163  | 136  | 113  |
|                 |                           |                                  |                         | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                 |                           |                                  |                         | C    | 3133 | 2507 | 2089 | 1790 | 1567 | 1393 | 1253 | 1139 | 1044 | 964  | 895  | 836  | 783  | 696  | 627  | 570  | 522  |
|                 |                           |                                  |                         | D    | 0.04 | 0.06 | 0.08 | 0.12 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                 | 3<br>(63.5)               | 2.91<br>(4.33)                   | <b>QGH-P<br/>-23010</b> | U    | 4324 | 2767 | 1923 | 1413 | 1082 | 852  | 692  | 572  | 479  | 409  | 354  | 307  | 269  | 214  | 171  | 144  | 121  |
|                 |                           |                                  |                         | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                 |                           |                                  |                         | C    | 3333 | 2667 | 2222 | 1905 | 1667 | 1481 | 1311 | 1212 | 1111 | 1026 | 952  | 889  | 833  | 741  | 667  | 606  | 556  |
|                 |                           |                                  |                         | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                 | 4<br>(76.2)               | 3.02<br>(4.50)                   | <b>QGH-P<br/>-24010</b> | U    | 7091 | 4538 | 3152 | 2316 | 1775 | 1401 | 1136 | 938  | 786  | 673  | 580  | 506  | 444  | 350  | 284  | 234  | 195  |
|                 |                           |                                  |                         | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                 |                           |                                  |                         | C    | 5467 | 4373 | 3644 | 3124 | 2733 | 2430 | 2187 | 1988 | 1822 | 1682 | 1562 | 1458 | 1367 | 1215 | 1039 | 994  | 911  |
|                 |                           |                                  |                         | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |
| Steel 9<br>ga.  | 2<br>(38.1)               | 8.3<br>(12.3)                    | <b>QGH-P<br/>-22009</b> | U    | 2949 | 1888 | 1255 | 964  | 769  | 582  | 471  | 389  | 330  | 278  | 240  | 210  | 184  | 145  | 120  | 96   | 81   |
|                 |                           |                                  |                         | D    | 0.05 | 0.08 | 0.11 | 0.15 | 0.19 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                 |                           |                                  |                         | C    | 2274 | 1618 | 1516 | 1299 | 1136 | 1011 | 910  | 827  | 758  | 700  | 649  | 606  | 569  | 505  | 454  | 414  | 378  |
|                 |                           |                                  |                         | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                 | 2-1/2<br>(63.5)           | 8.8<br>(13.1)                    | <b>QGH-P<br/>-22509</b> | U    | 4469 | 2860 | 1987 | 1460 | 1118 | 882  | 715  | 591  | 496  | 424  | 364  | 317  | 278  | 222  | 179  | 150  | 124  |
|                 |                           |                                  |                         | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                 |                           |                                  |                         | C    | 3446 | 2758 | 2298 | 1969 | 1724 | 1532 | 1378 | 1253 | 1148 | 1060 | 985  | 920  | 861  | 766  | 690  | 627  | 574  |
|                 |                           |                                  |                         | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                 | 3<br>(76.2)               | 9.3<br>(13.8)                    | <b>QGH-P<br/>-23009</b> | U    | 4756 | 3044 | 2115 | 1554 | 1190 | 937  | 761  | 629  | 527  | 450  | 389  | 338  | 296  | 235  | 188  | 158  | 133  |
|                 |                           |                                  |                         | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                 |                           |                                  |                         | C    | 3666 | 2934 | 2444 | 2096 | 1834 | 1629 | 1442 | 1333 | 1222 | 1129 | 1047 | 978  | 916  | 815  | 734  | 667  | 612  |
|                 |                           |                                  |                         | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                 | 4<br>(101.6)              | 10.3<br>(15.3)                   | <b>QGH-P<br/>-24009</b> | U    | 7800 | 4992 | 3467 | 2548 | 1953 | 1541 | 1250 | 1032 | 865  | 740  | 638  | 557  | 488  | 385  | 312  | 257  | 215  |
|                 |                           |                                  |                         | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                 |                           |                                  |                         | C    | 6014 | 4810 | 4008 | 3436 | 3006 | 2673 | 2406 | 2187 | 2004 | 1850 | 1718 | 1604 | 1504 | 1337 | 1143 | 1093 | 1002 |
|                 |                           |                                  |                         | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |





# Heavy Duty Grip Strut Plank 3-Diamond Plank



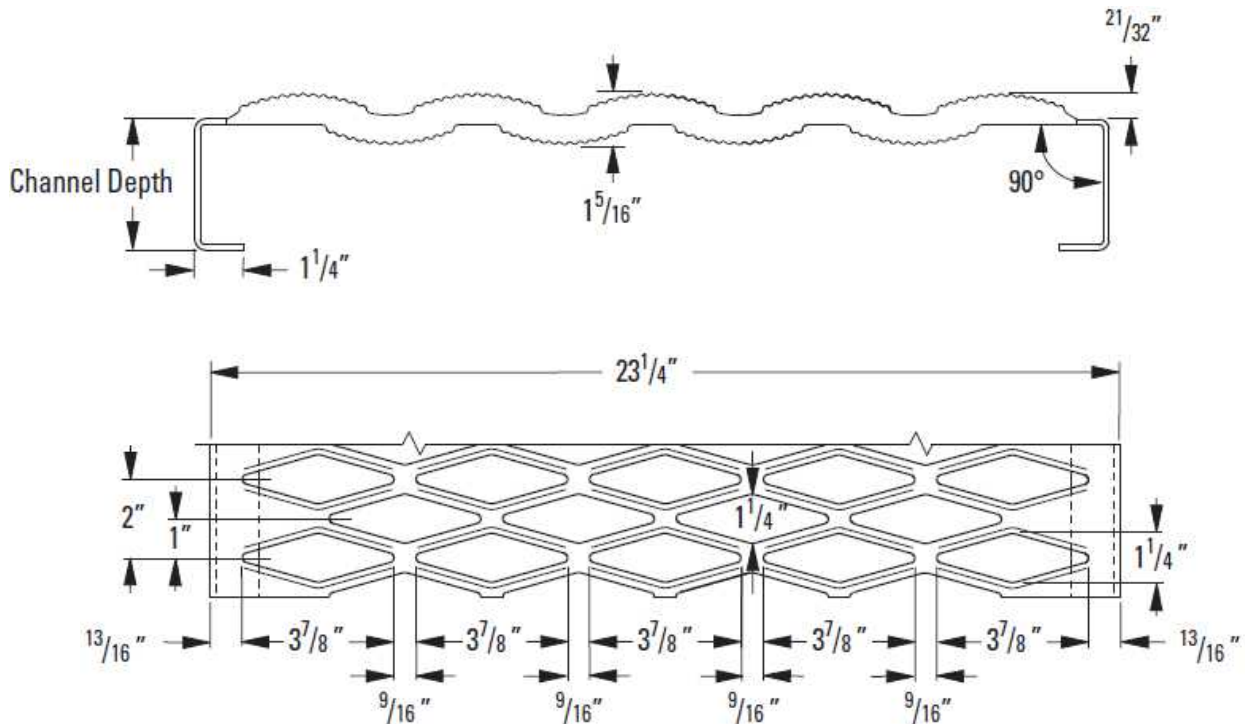
Load Table of 8-Diamond Plank – 13-3/4" Width

U: uniform load (lb./ft.<sup>2</sup>)      C: concentrated load (lb.)      D=Deflection (in.)

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number  | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------------|----------------------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                        |                            |                 | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7"   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 10 ga.   | 2<br>(38.1)            | 9.5<br>(14.1)              | QGH-P<br>-32011 | U    | 1804 | 1154 | 801  | 589  | 450  | 356  | 288  | 238  | 202  | 170  | 147  | 128  | 113  | 89   | 73   | 60   | 50   |
|                |                        |                            |                 | D    | 0.05 | 0.08 | 0.11 | 0.15 | 0.19 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                |                        |                            |                 | C    | 2067 | 1653 | 1378 | 1181 | 1033 | 919  | 827  | 752  | 689  | 636  | 590  | 551  | 517  | 459  | 413  | 376  | 344  |
|                |                        |                            |                 | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                | 2-1/2<br>(63.5)        | 10.0<br>(14.9)             | QGH-P<br>-32510 | U    | 2733 | 1794 | 1214 | 893  | 683  | 539  | 437  | 361  | 304  | 259  | 223  | 194  | 170  | 136  | 110  | 92   | 76   |
|                |                        |                            |                 | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                |                        |                            |                 | C    | 3133 | 2507 | 2089 | 1790 | 1567 | 1393 | 1253 | 1139 | 1044 | 964  | 895  | 836  | 783  | 696  | 627  | 570  | 522  |
|                |                        |                            |                 | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                | 3<br>(76.2)            | 10.5<br>(15.6)             | QGH-P<br>-33010 | U    | 2909 | 1862 | 1293 | 950  | 728  | 573  | 466  | 385  | 322  | 275  | 238  | 207  | 181  | 144  | 115  | 97   | 81   |
|                |                        |                            |                 | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                |                        |                            |                 | C    | 3333 | 2667 | 2222 | 1905 | 1667 | 1481 | 1311 | 1212 | 1111 | 1026 | 952  | 889  | 833  | 741  | 667  | 606  | 556  |
|                |                        |                            |                 | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | .xx  |
|                | 4<br>(101.6)           | 11.4<br>(16.9)             | QGH-P<br>-34010 | U    | 4770 | 3053 | 2121 | 1558 | 1194 | 943  | 765  | 631  | 529  | 453  | 390  | 340  | 298  | 236  | 191  | 157  | 13x  |
|                |                        |                            |                 | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                |                        |                            |                 | C    | 5467 | 4373 | 3644 | 3124 | 2733 | 2430 | 2187 | 1988 | 1822 | 1682 | 1562 | 1458 | 1367 | 1215 | 1039 | 994  | 911  |
|                |                        |                            |                 | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.46 | 0.53 | 0.63 |
| Steel 9 ga.    | 2<br>(38.1)            | 10.6<br>(15.8)             | QGH-P<br>-32009 | U    | 1984 | 1269 | 881  | 648  | 495  | 392  | 317  | 262  | 222  | 187  | 162  | 141  | 124  | 98   | 80   | 66   | 55   |
|                |                        |                            |                 | D    | 0.05 | 0.06 | 0.11 | 0.15 | 0.19 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                |                        |                            |                 | C    | 2274 | 1818 | 1516 | 1299 | 1136 | 1011 | 910  | 827  | 758  | 700  | 649  | 606  | 569  | 505  | 454  | 414  | 378  |
|                |                        |                            |                 | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                | 2-1/2<br>(63.5)        | 11.1<br>(16.5)             | QGH-P<br>-32509 | U    | 3006 | 1973 | 1335 | 982  | 751  | 593  | 481  | 397  | 334  | 285  | 245  | 213  | 187  | 150  | 121  | 101  | 84   |
|                |                        |                            |                 | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                |                        |                            |                 | C    | 3446 | 2758 | 2298 | 1969 | 1724 | 1532 | 1378 | 1253 | 1148 | 1060 | 985  | 920  | 861  | 766  | 690  | 627  | 574  |
|                |                        |                            |                 | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                | 3<br>(76.2)            | 11.6<br>(17.2)             | QGH-P<br>-33009 | U    | 3200 | 2048 | 1422 | 1045 | 801  | 630  | 513  | 424  | 354  | 303  | 262  | 228  | 199  | 158  | 127  | 107  | 89   |
|                |                        |                            |                 | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                |                        |                            |                 | C    | 3666 | 2934 | 2444 | 2096 | 1834 | 1629 | 1442 | 1333 | 1222 | 1129 | 1047 | 978  | 916  | 815  | 734  | 667  | 612  |
|                |                        |                            |                 | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                | 4<br>(101.6)           | 12.7<br>(18.9)             | QGH-P<br>-34009 | U    | 5247 | 3358 | 2333 | 1714 | 1313 | 1037 | 842  | 694  | 582  | 498  | 429  | 374  | 328  | 260  | 210  | 173  | 144  |
|                |                        |                            |                 | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                |                        |                            |                 | C    | 6014 | 4810 | 4008 | 3436 | 3006 | 2673 | 2406 | 2187 | 2004 | 1850 | 1718 | 1604 | 1504 | 1337 | 1143 | 1093 | 1002 |
|                |                        |                            |                 | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |



## Heavy Duty Grip Strut Plank 5-Diamond Plank



**Load Table of 5-Diamond Plank – 23-1/4" Width**

U: uniform load (lb./ft.<sup>2</sup>)      C: concentrated load (lb.)      D=Deflection (in.)

| Material Gauge | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------------------------|----------------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                |                        |                            |                | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7"   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 11 ga.   | 2<br>(38.1)            | 12.7<br>(18.9)             | QGH-P-52011    | U    | 930  | 595  | 413  | 304  | 232  | 184  | 149  | 123  | 104  | 88   | 76   | 66   | 58   | 46   | 38   | 31   | 26   |
|                |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                |                        |                            |                | C    | 1860 | 1488 | 1240 | 1063 | 930  | 827  | 744  | 677  | 620  | 572  | 531  | 496  | 465  | 413  | 372  | 338  | 310  |
|                |                        |                            |                | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                | 2-1/2<br>(63.5)        | 13.1<br>(19.5)             | QGH-P-52511    | U    | 1409 | 925  | 626  | 460  | 352  | 278  | 225  | 186  | 157  | 134  | 115  | 100  | 88   | 70   | 57   | 47   | 39   |
|                |                        |                            |                | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                |                        |                            |                | C    | 2820 | 2256 | 1880 | 1611 | 1410 | 1254 | 1128 | 1025 | 940  | 868  | 806  | 752  | 705  | 626  | 564  | 513  | 470  |
|                |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.06 |
|                | 3<br>(76.2)            | 13.6<br>(20.2)             | QGH-P-53011    | U    | 1547 | 989  | 687  | 504  | 387  | 305  | 247  | 204  | 170  | 146  | 125  | 110  | 96   | 76   | 60   | 51   | 42   |
|                |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                |                        |                            |                | C    | 3000 | 2400 | 2000 | 1715 | 1500 | 1333 | 1180 | 1091 | 1000 | 923  | 857  | 800  | 750  | 667  | 600  | 545  | 500  |
|                |                        |                            |                | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                | 4<br>(101.6)           | 14.4<br>(21.4)             | QGH-P-54011    | U    | 2538 | 1624 | 1129 | 828  | 635  | 502  | 406  | 334  | 280  | 240  | 207  | 181  | 158  | 125  | 101  | 84   | 70   |
|                |                        |                            |                | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                |                        |                            |                | C    | 4920 | 3936 | 3280 | 2812 | 2460 | 2187 | 1968 | 1789 | 1640 | 1514 | 1406 | 1312 | 1230 | 1094 | 935  | 895  | 820  |
|                |                        |                            |                | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |

# Heavy Duty Grip Strut Plank 5-Diamond Plank

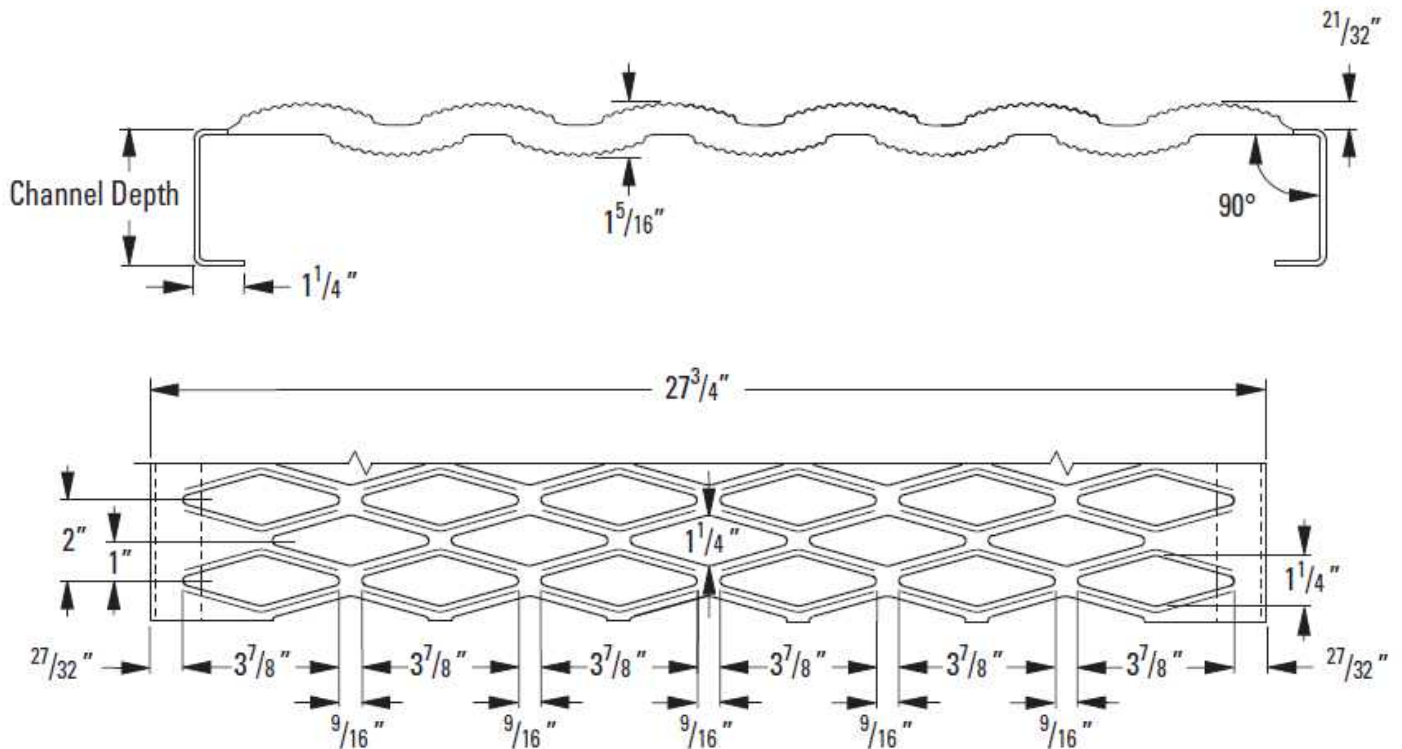


Load Table of 5-Diamond Plank – 18-3/4" Width

| U: uniform load (lb./ft. <sup>2</sup> )      C: concentrated load (lb.)      D=Deflection (in.) |                        |                            |                |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------|------------------------|----------------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Material Gauge                                                                                  | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                                 |                        |                            |                | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7"   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 10 ga.                                                                                    | 2 (50.8)               | 14.4 (21.4)                | QGH-P-52010    | U    | 1034 | 661  | 459  | 337  | 258  | 204  | 165  | 136  | 116  | 97   | 84   | 73   | 65   | 51   | 42   | 34   | 29   |
|                                                                                                 |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                                                                                 |                        |                            |                | C    | 2067 | 1653 | 1378 | 1181 | 1033 | 919  | 827  | 752  | 689  | 636  | 590  | 551  | 517  | 459  | 413  | 376  | 344  |
|                                                                                                 |                        |                            |                | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                                                                                                 | 2-1/2 (63.5)           | 14.8 (22.0)                | QGH-P-52510    | U    | 1617 | 1034 | 718  | 528  | 404  | 319  | 259  | 214  | 180  | 153  | 132  | 115  | 101  | 81   | 65   | 54   | 45   |
|                                                                                                 |                        |                            |                | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                                                                                 |                        |                            |                | C    | 3133 | 2507 | 2089 | 1790 | 1567 | 1393 | 1253 | 1139 | 1044 | 964  | 895  | 836  | 783  | 696  | 627  | 570  | 522  |
|                                                                                                 |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                                                                                 | 3 (76.2)               | 15.4 (22.9)                | QGH-P-53010    | U    | 1720 | 1101 | 765  | 562  | 430  | 339  | 276  | 228  | 190  | 163  | 141  | 122  | 107  | 85   | 68   | 57   | 48   |
|                                                                                                 |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                                                                                                 |                        |                            |                | C    | 3333 | 2667 | 2222 | 1905 | 1667 | 1481 | 1311 | 1212 | 1111 | 1026 | 952  | 889  | 833  | 741  | 667  | 606  | 556  |
|                                                                                                 |                        |                            |                | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.12 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                                                                                                 | 4 (101.6)              | 16.4 (24.4)                | QGH-P-54010    | U    | 2821 | 1805 | 1254 | 921  | 706  | 557  | 452  | 373  | 312  | 268  | 231  | 201  | 177  | 139  | 113  | 93   | 77   |
|                                                                                                 |                        |                            |                | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.76 |
|                                                                                                 |                        |                            |                | C    | 5467 | 4373 | 3644 | 3124 | 2733 | 2430 | 2187 | 1988 | 1822 | 1682 | 1562 | 1458 | 1367 | 1215 | 1039 | 994  | 911  |
|                                                                                                 |                        |                            |                | D    | 0.03 | 0.04 | 0.05 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |
| Steel 9 ga.                                                                                     | 2 (38.1)               | 16.1 (23.9)                | QGH-P-52009    | U    | 1137 | 727  | 505  | 371  | 284  | 224  | 182  | 150  | 127  | 107  | 93   | 81   | 71   | 56   | 46   | 38   | 32   |
|                                                                                                 |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                                                                                 |                        |                            |                | C    | 2274 | 1818 | 1516 | 1299 | 1136 | 1011 | 910  | 827  | 758  | 700  | 649  | 606  | 569  | 505  | 454  | 414  | 378  |
|                                                                                                 |                        |                            |                | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                                                                                                 | 2-1/2 (63.5)           | 16.7 (24.8)                | QGH-P-52509    | U    | 1778 | 1137 | 790  | 581  | 444  | 359  | 283  | 234  | 197  | 167  | 144  | 125  | 110  | 88   | 71   | 59   | 48   |
|                                                                                                 |                        |                            |                | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                                                                                 |                        |                            |                | C    | 3446 | 2758 | 2298 | 1969 | 1724 | 1532 | 1378 | 1253 | 1148 | 1060 | 985  | 920  | 861  | 766  | 690  | 627  | 574  |
|                                                                                                 |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                                                                                 | 3 (76.2)               | 17.2 (25.6)                | QGH-P-53009    | U    | 1892 | 1211 | 841  | 618  | 472  | 372  | 302  | 249  | 209  | 178  | 155  | 133  | 116  | 93   | 74   | 62   | 53   |
|                                                                                                 |                        |                            |                | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                                                                                                 |                        |                            |                | C    | 3666 | 2934 | 2444 | 2096 | 1834 | 1629 | 1442 | 1333 | 1222 | 1129 | 1047 | 978  | 916  | 815  | 734  | 667  | 612  |
|                                                                                                 |                        |                            |                | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                                                                                                 | 4 (101.6)              | 18.3 (27.2)                | QGH-P-54009    | U    | 3103 | 1985 | 1380 | 1013 | 775  | 613  | 497  | 410  | 344  | 294  | 252  | 221  | 194  | 153  | 124  | 102  | 85   |
|                                                                                                 |                        |                            |                | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                                                                                                 |                        |                            |                | C    | 6014 | 4810 | 4008 | 3436 | 3006 | 2673 | 2406 | 2187 | 2004 | 1850 | 1718 | 1604 | 1504 | 1337 | 1143 | 1093 | 1002 |
|                                                                                                 |                        |                            |                | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |



## Heavy Duty Grip Strut Plank 6-Diamond Plank



Load Table of 6-Diamond Plank – 27-3/4" Width

| U: uniform load (lb./ft. <sup>2</sup> )      C: concentrated load (lb.)      D=Deflection (in.) |                        |                            |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------|------------------------|----------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Material Gauge                                                                                  | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number     | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                                 |                        |                            |                    | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7"   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 11 ga.                                                                                    | 2<br>(38.1)            | 14.3<br>(21.3)             | <b>QGH-P-62011</b> | U    | 830  | 530  | 368  | 271  | 163  | 163  | 132  | 108  | 93   | 78   | 67   | 59   | 51   | 40   | 34   | 27   | 22   |
|                                                                                                 |                        |                            |                    | D    | 0.05 | 0.08 | 0.11 | 0.15 | 0.24 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                                                                                                 |                        |                            |                    | C    | 1860 | 1488 | 1240 | 1063 | 827  | 827  | 744  | 677  | 620  | 572  | 531  | 496  | 465  | 413  | 372  | 338  | 310  |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.19 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                                                                                                 | 2-1/2<br>(63.5)        | 14.7<br>(21.9)             | <b>QGH-P-62511</b> | U    | 1258 | 805  | 559  | 410  | 247  | 247  | 201  | 166  | 139  | 119  | 102  | 88   | 78   | 61   | 49   | 42   | 35   |
|                                                                                                 |                        |                            |                    | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.23 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                                                                                 |                        |                            |                    | C    | 2820 | 2256 | 1880 | 1611 | 1254 | 1254 | 1128 | 1025 | 940  | 868  | 806  | 752  | 705  | 626  | 564  | 513  | 470  |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.18 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                                                                                 | 3<br>(76.2)            | 15.2<br>(22.6)             | <b>QGH-P-63011</b> | U    | 1338 | 855  | 594  | 436  | 264  | 264  | 214  | 176  | 147  | 126  | 108  | 95   | 83   | 66   | 52   | 44   | 36   |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.18 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                                                                                                 |                        |                            |                    | C    | 3000 | 2400 | 2000 | 1715 | 1333 | 1333 | 1180 | 1091 | 1000 | 923  | 857  | 800  | 750  | 667  | 600  | 545  | 500  |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.15 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                                                                                                 | 4<br>(101.6)           | 16.0<br>(23.8)             | <b>QGH-P-64011</b> | U    | 2234 | 1405 | 976  | 716  | 434  | 434  | 351  | 289  | 242  | 208  | 179  | 157  | 137  | 106  | 87   | 73   | 61   |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.14 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                                                                                                 |                        |                            |                    | C    | 4920 | 3936 | 3280 | 2812 | 2187 | 2187 | 1968 | 1789 | 1640 | 1514 | 1406 | 1312 | 1230 | 1094 | 935  | 895  | 820  |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.11 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |



# Heavy Duty Grip Strut Plank 6-Diamond Plank

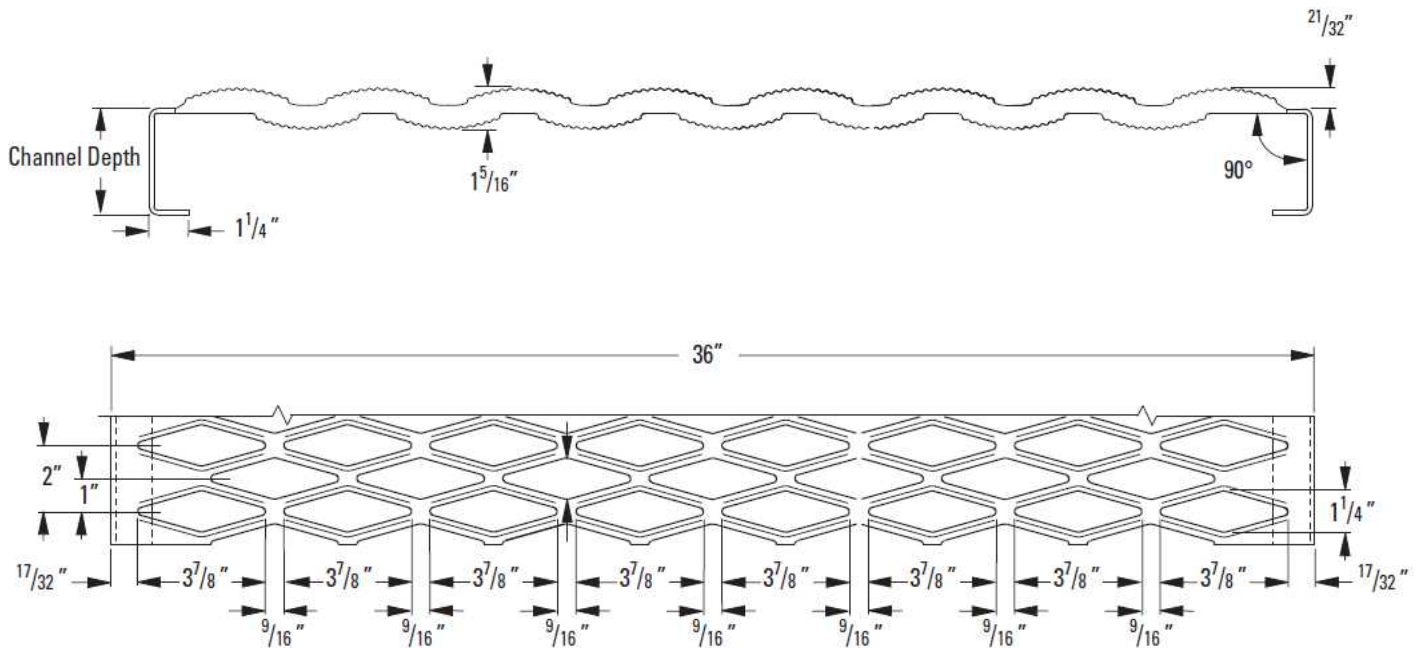


Load Table of 6-Diamond Plank – 27-3/4" Width

| U: uniform load (lb./ft. <sup>2</sup> ) |                        |                            |                     |      | C: concentrated load (lb.) |      |      |      |      | D=Deflection (in.) |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------------------|------------------------|----------------------------|---------------------|------|----------------------------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|
| Material Gauge                          | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number      | Span |                            |      |      |      |      |                    |      |      |      |      |      |      |      |      |      |      |      |
|                                         |                        |                            |                     | 2'   | 2.5'                       | 3'   | 3.5' | 4'   | 4.5' | 5'                 | 5.5' | 6'   | 6.5' | 7"   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 10 ga.                            | 2 (50.8)               | 16.2 (24.1)                | <b>QGH-P-621010</b> | U    | 923                        | 590  | 410  | 301  | 182  | 182                | 147  | 122  | 103  | 87   | 75   | 66   | 58   | 46   | 37   | 31   | 25   |
|                                         |                        |                            |                     | D    | 0.05                       | 0.08 | 0.11 | 0.15 | 0.24 | 0.24               | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                                         |                        |                            |                     | C    | 2067                       | 1653 | 1378 | 1181 | 919  | 919                | 827  | 752  | 689  | 636  | 590  | 551  | 517  | 459  | 413  | 376  | 344  |
|                                         |                        |                            |                     | D    | 0.04                       | 0.06 | 0.09 | 0.12 | 0.19 | 0.19               | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                                         | 2-1/2 (63.5)           | 16.7 (24.8)                | <b>QGH-P-62510</b>  | U    | 1398                       | 894  | 621  | 457  | 276  | 276                | 224  | 185  | 156  | 132  | 114  | 99   | 87   | 70   | 56   | 47   | 39   |
|                                         |                        |                            |                     | D    | 0.05                       | 0.07 | 0.10 | 0.14 | 0.23 | 0.23               | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                         |                        |                            |                     | C    | 3133                       | 2507 | 2089 | 1790 | 1393 | 1393               | 1253 | 1139 | 1044 | 964  | 895  | 836  | 783  | 696  | 627  | 570  | 522  |
|                                         |                        |                            |                     | D    | 0.04                       | 0.06 | 0.08 | 0.11 | 0.18 | 0.18               | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                         | 3 (76.2)               | 17.2 (25.6)                | <b>QGH-P-63010</b>  | U    | 1488                       | 952  | 662  | 486  | 372  | 293                | 239  | 197  | 164  | 141  | 122  | 106  | 93   | 74   | 59   | 49   | 42   |
|                                         |                        |                            |                     | D    | 0.04                       | 0.06 | 0.08 | 0.11 | 0.15 | 0.18               | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                                         |                        |                            |                     | C    | 3333                       | 2667 | 2222 | 1905 | 1667 | 1481               | 1311 | 1212 | 1111 | 1026 | 952  | 889  | 833  | 741  | 667  | 606  | 556  |
|                                         |                        |                            |                     | D    | 0.03                       | 0.05 | 0.07 | 0.09 | 0.12 | 0.15               | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                                         | 4 (101.6)              | 18.2 (27.1)                | <b>QGH-P-64010</b>  | U    | 2440                       | 1561 | 1805 | 797  | 611  | 482                | 391  | 323  | 270  | 232  | 200  | 174  | 153  | 120  | 98   | 80   | 67   |
|                                         |                        |                            |                     | D    | 0.03                       | 0.05 | 0.07 | 0.09 | 0.12 | 0.14               | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | .56  | 0.66 | 0.78 |
|                                         |                        |                            |                     | C    | 5467                       | 4373 | 3644 | 3124 | 2733 | 2430               | 2187 | 1988 | 1822 | 1682 | 1562 | 1458 | 1367 | 1215 | 1039 | 994  | 911  |
|                                         |                        |                            |                     | D    | 0.03                       | 0.04 | 0.06 | 0.07 | 0.09 | 0.11               | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |
| Steel 9 ga.                             | 2 (38.1)               | 18.2 (27.1)                | <b>QGH-P-62009</b>  | U    | 1013                       | 650  | 450  | 330  | 253  | 200                | 162  | 134  | 112  | 95   | 81   | 71   | 63   | 63   | 40   | 34   | 27   |
|                                         |                        |                            |                     | D    | 0.05                       | 0.08 | 0.11 | 0.15 | 0.19 | 0.24               | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.69 | 1.04 | 1.24 | 1.45 |
|                                         |                        |                            |                     | C    | 2274                       | 1818 | 1516 | 1299 | 1136 | 1011               | 910  | 827  | 758  | 700  | 649  | 606  | 569  | 569  | 454  | 414  | 378  |
|                                         |                        |                            |                     | D    | 0.04                       | 0.06 | 0.09 | 0.12 | 0.15 | 0.19               | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.55 | 0.81 | 0.98 | 1.16 |
|                                         | 2-1/2 (63.5)           | 18.7 (27.8)                | <b>QGH-P-62509</b>  | U    | 1537                       | 983  | 683  | 502  | 384  | 303                | 245  | 202  | 170  | 144  | 125  | 108  | 95   | 76   | 61   | 51   | 42   |
|                                         |                        |                            |                     | D    | 0.05                       | 0.07 | 0.10 | 0.14 | 0.18 | 0.23               | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                         |                        |                            |                     | C    | 3446                       | 2758 | 2298 | 1969 | 1724 | 1532               | 1378 | 1253 | 1148 | 1060 | 985  | 920  | 861  | 766  | 690  | 627  | 574  |
|                                         |                        |                            |                     | D    | 0.04                       | 0.06 | 0.08 | 0.11 | 0.14 | 0.18               | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                         | 3 (76.2)               | 19.3 (28.7)                | <b>QGH-P-63009</b>  | U    | 1636                       | 1047 | 727  | 534  | 408  | 322                | 261  | 215  | 181  | 154  | 134  | 115  | 100  | 80   | 64   | 54   | 46   |
|                                         |                        |                            |                     | D    | 0.04                       | 0.06 | 0.08 | 0.11 | 0.15 | 0.18               | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                                         |                        |                            |                     | C    | 3666                       | 2934 | 2444 | 2096 | 1834 | 1629               | 1442 | 1333 | 1222 | 1129 | 1047 | 978  | 916  | 815  | 734  | 667  | 612  |
|                                         |                        |                            |                     | D    | 0.03                       | 0.05 | 0.07 | 0.09 | 0.12 | 0.15               | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                                         | 4 (101.6)              | 19.8 (29.4)                | <b>QGH-P-64009</b>  | U    | 2684                       | 1717 | 1194 | 876  | 671  | 530                | 430  | 355  | 298  | 254  | 218  | 191  | 168  | 132  | 107  | 88   | 74   |
|                                         |                        |                            |                     | D    | 0.03                       | 0.05 | 0.07 | 0.09 | 0.12 | 0.14               | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                                         |                        |                            |                     | C    | 6014                       | 4810 | 4008 | 3436 | 3006 | 2673               | 2406 | 2187 | 2004 | 1850 | 1718 | 1604 | 1505 | 1337 | 1143 | 1093 | 1002 |
|                                         |                        |                            |                     | D    | 0.03                       | 0.04 | 0.06 | 0.07 | 0.09 | 0.11               | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |



## Heavy Duty Grip Strut Plank 8-Diamond Plank



Load Table of 8-Diamond Plank – 36" Width

| U: uniform load (lb./ft. <sup>2</sup> )      C: concentrated load (lb.)      D=Deflection (in.) |                        |                            |                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------|------------------------|----------------------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Material Gauge                                                                                  | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number  | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                                 |                        |                            |                 | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7"   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 11 ga.                                                                                    | 2<br>(38.1)            | 18.0<br>(26.8)             | QGH-P<br>-82011 | U    | 620  | 397  | 275  | 203  | 155  | 122  | 99   | 82   | 69   | 59   | 50   | 44   | 39   | 31   | 25   | 21   | 17   |
|                                                                                                 |                        |                            |                 | D    | 0.05 | 0.08 | 0.11 | 0.15 | 0.19 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                                                                                                 |                        |                            |                 | C    | 1860 | 1488 | 1240 | 1063 | 930  | 827  | 744  | 677  | 620  | 572  | 531  | 496  | 465  | 413  | 372  | 338  | 310  |
|                                                                                                 |                        |                            |                 | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                                                                                                 | 2-1/2<br>(63.5)        | 18.4<br>(27.4)             | QGH-P<br>-82511 | U    | 950  | 601  | 418  | 307  | 235  | 185  | 150  | 124  | 104  | 89   | 77   | 67   | 59   | 47   | 38   | 32   | 26   |
|                                                                                                 |                        |                            |                 | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                                                                                 |                        |                            |                 | C    | 2820 | 2256 | 1880 | 1611 | 1410 | 1254 | 1128 | 1025 | 940  | 868  | 806  | 752  | 705  | 626  | 564  | 513  | 470  |
|                                                                                                 |                        |                            |                 | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                                                                                 | 3<br>(76.2)            | 18.9<br>(28.1)             | QGH-P<br>-83011 | U    | 1000 | 640  | 445  | 327  | 250  | 197  | 160  | 132  | 111  | 95   | 82   | 71   | 62   | 50   | 40   | 33   | 28   |
|                                                                                                 |                        |                            |                 | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                                                                                                 |                        |                            |                 | C    | 3000 | 2400 | 2000 | 1715 | 1500 | 1333 | 1180 | 1091 | 1000 | 923  | 857  | 800  | 750  | 667  | 600  | 545  | 500  |
|                                                                                                 |                        |                            |                 | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                                                                                                 | 4<br>(101.6)           | 19.7<br>(29.3)             | QGH-P<br>-84011 | U    | 1640 | 1049 | 729  | 536  | 410  | 324  | 263  | 217  | 182  | 156  | 134  | 117  | 103  | 81   | 66   | 54   | 45   |
|                                                                                                 |                        |                            |                 | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                                                                                                 |                        |                            |                 | C    | 4920 | 3936 | 3280 | 2812 | 2460 | 2187 | 1968 | 1789 | 1640 | 1514 | 1406 | 1312 | 1230 | 1094 | 935  | 895  | 820  |
|                                                                                                 |                        |                            |                 | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |

# Heavy Duty Grip Strut Plank 8-Diamond Plank

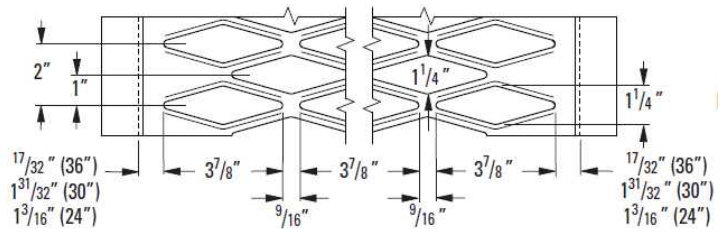
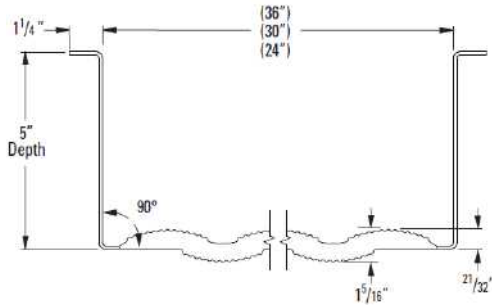


Load Table of 8-Diamond Plank – 36" Width

| U: uniform load (lb./ft. <sup>2</sup> )      C: concentrated load (lb.)      D=Deflection (in.) |                        |                            |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------|------------------------|----------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Material Gauge                                                                                  | Channel Depth in. (mm) | Weight lb./lin. ft. (kg/m) | Catalog Number     | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                                 |                        |                            |                    | 2'   | 2.5' | 3'   | 3.5' | 4'   | 4.5' | 5'   | 5.5' | 6'   | 6.5' | 7"   | 7.5' | 8'   | 9'   | 10'  | 11'  | 12'  |      |
| Steel 10 ga.                                                                                    | 2 (50.8)               | 19.9 (29.6)                | <b>QGH-P-82010</b> | U    | 689  | 441  | 306  | 225  | 172  | 136  | 110  | 91   | 77   | 65   | 56   | 49   | 43   | 34   | 28   | 23   | 19   |
|                                                                                                 |                        |                            |                    | D    | 0.05 | 0.08 | 0.11 | 0.15 | 0.19 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.85 | 1.04 | 1.24 | 1.45 |
|                                                                                                 |                        |                            |                    | C    | 2067 | 1653 | 1378 | 1181 | 1033 | 919  | 827  | 752  | 689  | 636  | 590  | 551  | 517  | 459  | 413  | 376  | 344  |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.68 | 0.81 | 0.98 | 1.16 |
|                                                                                                 | 2-1/2 (63.5)           | 20.4 (30.3)                | <b>QGH-P-82510</b> | U    | 1044 | 668  | 464  | 341  | 261  | 206  | 167  | 138  | 116  | 99   | 85   | 74   | 65   | 52   | 42   | 35   | 29   |
|                                                                                                 |                        |                            |                    | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                                                                                 |                        |                            |                    | C    | 3133 | 2507 | 2089 | 1790 | 1567 | 1393 | 1253 | 1139 | 1944 | 964  | 895  | 836  | 783  | 696  | 627  | 570  | 522  |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                                                                                 | 3 (76.2)               | 20.9 (31.1)                | <b>QGH-P-83010</b> | U    | 1111 | 711  | 494  | 363  | 278  | 219  | 178  | 147  | 123  | 105  | 91   | 79   | 69   | 55   | 44   | 37   | 31   |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                                                                                                 |                        |                            |                    | C    | 3333 | 2667 | 2222 | 1905 | 1667 | 1481 | 1311 | 1212 | 1111 | 1026 | 952  | 889  | 833  | 741  | 667  | 606  | 556  |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                                                                                                 | 4 (101.6)              | 21.8 (32.4)                | <b>QGH-P-84010</b> | U    | 1822 | 1166 | 810  | 595  | 456  | 360  | 292  | 241  | 202  | 173  | 149  | 130  | 114  | 90   | 73   | 60   | 50   |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                                                                                                 |                        |                            |                    | C    | 5467 | 4373 | 3644 | 3124 | 2733 | 2430 | 2187 | 1988 | 1822 | 1682 | 1562 | 1458 | 1367 | 1215 | 1039 | 994  | 911  |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |
| Steel 9 ga.                                                                                     | 2 (38.1)               | 22.1 (32.9)                | <b>QGH-P-82009</b> | U    | 758  | 485  | 337  | 248  | 189  | 150  | 121  | 100  | 85   | 72   | 62   | 54   | 47   | 37   | 31   | 25   | 21   |
|                                                                                                 |                        |                            |                    | D    | 0.05 | 0.08 | 0.11 | 0.15 | 0.19 | 0.24 | 0.30 | 0.35 | 0.41 | 0.47 | 0.54 | 0.62 | 0.69 | 0.69 | 1.04 | 1.24 | 1.45 |
|                                                                                                 |                        |                            |                    | C    | 2274 | 1818 | 1516 | 1299 | 1136 | 1011 | 910  | 827  | 758  | 700  | 649  | 606  | 569  | 569  | 454  | 414  | 378  |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.49 | 0.55 | 0.55 | 0.81 | 0.98 | 1.16 |
|                                                                                                 | 2-1/2 (63.5)           | 22.7 (33.8)                | <b>QGH-P-82509</b> | U    | 1148 | 735  | 510  | 375  | 287  | 227  | 184  | 152  | 128  | 109  | 94   | 81   | 72   | 57   | 46   | 39   | 32   |
|                                                                                                 |                        |                            |                    | D    | 0.05 | 0.07 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.32 | 0.36 | 0.42 | 0.49 | 0.55 | 0.62 | 0.79 | 0.96 | 1.15 | 1.35 |
|                                                                                                 |                        |                            |                    | C    | 3446 | 2758 | 2298 | 1969 | 1724 | 1532 | 1378 | 1253 | 1148 | 1060 | 985  | 920  | 861  | 766  | 690  | 627  | 574  |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.25 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 | 0.63 | 0.76 | 0.91 | 1.08 |
|                                                                                                 | 3 (76.2)               | 23.9 (35.5)                | <b>QGH-P-83009</b> | U    | 1222 | 782  | 543  | 399  | 306  | 241  | 196  | 162  | 135  | 116  | 100  | 87   | 76   | 61   | 48   | 41   | 34   |
|                                                                                                 |                        |                            |                    | D    | 0.04 | 0.06 | 0.08 | 0.11 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 | 0.34 | 0.39 | 0.44 | 0.48 | 0.58 | 0.68 | 0.80 | 0.95 |
|                                                                                                 |                        |                            |                    | C    | 3666 | 2934 | 2444 | 2096 | 1834 | 1629 | 1442 | 1333 | 1222 | 1129 | 1047 | 978  | 916  | 815  | 734  | 667  | 612  |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.17 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.47 | 0.55 | 0.64 | 0.76 |
|                                                                                                 | 4 (101.6)              | 24.2 (36.0)                | <b>QGH-P-84009</b> | U    | 2004 | 1283 | 891  | 655  | 502  | 396  | 321  | 265  | 222  | 190  | 164  | 143  | 125  | 99   | 80   | 66   | 56   |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.47 | 0.56 | 0.66 | 0.78 |
|                                                                                                 |                        |                            |                    | C    | 6014 | 4810 | 4008 | 3436 | 3006 | 2673 | 2406 | 2187 | 2004 | 1850 | 1718 | 1604 | 1504 | 1337 | 1143 | 1093 | 1002 |
|                                                                                                 |                        |                            |                    | D    | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.38 | 0.45 | 0.53 | 0.63 |



## Heavy Duty Grip Strut safety grating 5-Diamond / 6-Diamond / 8-Diamond Walkway



**Load Table of 5/6/8-Diamond Walkway – 5" Depth**

| U: uniform load (lb./ft. <sup>2</sup> ) |                |                            |                |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | C: concentrated load (lb.) |  |  |  |  | D=Deflection (in.) |  |  |  |  |
|-----------------------------------------|----------------|----------------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|--|--|--|--|--------------------|--|--|--|--|
| Steel Width Diamond                     | Material Gauge | Weight lb./lin. ft. (kg/m) | Catalog Number | Span |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | 4'   | 5'   | 6'   | 7'   | 8'   | 9    | 10'  | 11   | 12'  | 13'  | 14"  | 15'  | 16'  | 18   | 20'  | 22'  | 24'  |      |                            |  |  |  |  |                    |  |  |  |  |
| 24" 5-Dia                               | 11 ga.         | 15.4 (22.9)                | QGH-W -55011   | U    | 750  | 480  | 334  | 245  | 187  | 148  | 120  | 99   | 83   | 71   | 62   | 54   | 47   | 37   | 30   | 25   | 21   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.34 | 0.35 | 0.38 | 0.34 | 0.34 | 0.34 | 0.35 | 0.42 | 0.50 | 0.59 | 0.69 | 0.79 | 0.91 | 1.13 | 1.43 | 1.70 | 2.03 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | C    | 3000 | 2400 | 2000 | 1714 | 1500 | 1334 | 1200 | 1091 | 1000 | 922  | 857  | 800  | 750  | 666  | 600  | 546  | 500  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.27 | 0.28 | 0.31 | 0.28 | 0.28 | 0.27 | 0.28 | 0.34 | 0.41 | 0.48 | 0.56 | 0.63 | 0.72 | 0.91 | 1.13 | 1.36 | 1.62 |                            |  |  |  |  |                    |  |  |  |  |
|                                         | 10 ga.         | 17.5 (26.0)                | QGH-P -55010   | U    | 937  | 600  | 417  | 306  | 234  | 185  | 150  | 124  | 104  | 89   | 77   | 67   | 59   | 46   | 38   | 31   | 26   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.38 | 0.39 | 0.42 | 0.38 | 0.38 | 0.38 | 0.39 | 0.47 | 0.56 | 0.66 | 0.77 | 0.88 | 1.01 | 1.26 | 1.59 | 1.89 | 2.25 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | C    | 3750 | 3000 | 2500 | 2143 | 1875 | 1667 | 150  | 1364 | 1250 | 1153 | 1071 | 1000 | 938  | 833  | 750  | 682  | 625  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.30 | 0.31 | 0.34 | 0.31 | 0.30 | 0.30 | 0.31 | 0.36 | 0.45 | 0.53 | 0.61 | 0.70 | 0.80 | 1.01 | 1.25 | 1.51 | 1.80 |                            |  |  |  |  |                    |  |  |  |  |
|                                         | 9 ga.          | 19.6 (29.1)                | QGH-P -55009   | U    | 1031 | 660  | 459  | 337  | 257  | 204  | 165  | 136  | 114  | 98   | 85   | 74   | 65   | 51   | 42   | 34   | 29   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.38 | 0.39 | 0.42 | 0.38 | 0.38 | 0.38 | 0.39 | 0.47 | 0.56 | 0.66 | 0.77 | 0.88 | 1.01 | 1.26 | 1.59 | 1.89 | 2.25 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | C    | 4125 | 3300 | 2750 | 2357 | 2063 | 1834 | 1650 | 1500 | 1375 | 1268 | 1178 | 1100 | 1032 | 916  | 825  | 750  | 688  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.30 | 0.31 | 0.34 | 0.31 | 0.30 | 0.30 | 0.31 | 0.36 | 0.45 | 0.53 | 0.61 | 0.70 | 0.80 | 1.01 | 1.25 | 1.51 | 1.80 |                            |  |  |  |  |                    |  |  |  |  |
| 30" 6-Dia                               | 11 ga.         | 17.7 (26.3)                | QGH-W -65011   | U    | 732  | 468  | 325  | 239  | 183  | 145  | 116  | 96   | 81   | 69   | 60   | 52   | 45   | 36   | 28   | 24   | 20   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.33 | 0.39 | 0.36 | 0.36 | 0.41 | 0.38 | 0.37 | 0.37 | 0.44 | 0.51 | 0.59 | 0.68 | 0.77 | 0.98 | 1.20 | 1.46 | 1.73 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | C    | 3667 | 2932 | 2444 | 2095 | 1832 | 1629 | 1467 | 1333 | 1222 | 1128 | 1047 | 977  | 916  | 815  | 732  | 667  | 610  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.27 | 0.31 | 0.29 | 0.29 | 0.33 | 0.31 | 0.30 | 0.30 | 0.35 | 0.41 | 0.48 | 0.55 | 0.62 | 0.78 | 0.97 | 1.17 | 1.40 |                            |  |  |  |  |                    |  |  |  |  |
|                                         | 10 ga.         | 19.9 (29.6)                | QGH-P -65010   | U    | 916  | 586  | 407  | 299  | 229  | 182  | 146  | 121  | 102  | 87   | 75   | 65   | 57   | 45   | 36   | 30   | 25   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.37 | 0.43 | 0.40 | 0.40 | 0.46 | 0.42 | 0.41 | 0.41 | 0.49 | 0.57 | 0.66 | 0.75 | 0.86 | 1.09 | 1.33 | 1.62 | 1.92 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | C    | 4584 | 3666 | 3056 | 2619 | 2291 | 2037 | 1834 | 1667 | 1528 | 1410 | 1309 | 1222 | 1146 | 1019 | 916  | 834  | 763  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.30 | 0.34 | 0.32 | 0.32 | 0.37 | 0.34 | 0.33 | 0.33 | 0.39 | 0.45 | 0.53 | 0.61 | 0.69 | 0.87 | 1.08 | 1.30 | 1.55 |                            |  |  |  |  |                    |  |  |  |  |
|                                         | 9 ga.          | 22.1 (32.9)                | QGH-P -65009   | U    | 1007 | 644  | 447  | 328  | 251  | 200  | 160  | 133  | 112  | 95   | 82   | 71   | 62   | 49   | 39   | 33   | 27   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.37 | 0.43 | 0.40 | 0.40 | 0.46 | 0.42 | 0.41 | 0.41 | 0.49 | 0.57 | 0.66 | 0.75 | 0.86 | 1.09 | 1.33 | 1.62 | 1.92 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | C    | 5042 | 4032 | 3361 | 2880 | 2530 | 2240 | 2017 | 1833 | 1680 | 1551 | 1439 | 1344 | 1260 | 1120 | 1007 | 917  | 839  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.30 | 0.34 | 0.32 | 0.32 | 0.37 | 0.34 | 0.33 | 0.33 | 0.39 | 0.45 | 0.53 | 0.61 | 0.69 | 0.87 | 1.08 | 1.30 | 1.55 |                            |  |  |  |  |                    |  |  |  |  |
| 36" 8-Dia                               | 11 ga.         | 20.2 (30.0)                | QGH-W -85011   | U    | 444  | 284  | 197  | 144  | 111  | 88   | 71   | 58   | 49   | 42   | 36   | 31   | 28   | 21   | 17   | 14   | 12   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.35 | 0.35 | 0.30 | 0.29 | 0.30 | 0.32 | 0.35 | 0.38 | 0.46 | 0.54 | 0.62 | 0.71 | 0.82 | 1.04 | 1.26 | 1.50 | 1.78 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | C    | 2664 | 2133 | 1777 | 1524 | 1333 | 1184 | 1066 | 969  | 888  | 820  | 761  | 711  | 666  | 592  | 533  | 484  | 444  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.28 | 0.28 | 0.23 | 0.23 | 0.23 | 0.26 | 0.28 | 0.31 | 0.37 | 0.43 | 0.50 | 0.58 | 0.65 | 0.83 | 1.02 | 1.23 | 1.47 |                            |  |  |  |  |                    |  |  |  |  |
|                                         | 10 ga.         | 22.7 (33.8)                | QGH-P -85010   | U    | 556  | 356  | 247  | 181  | 139  | 110  | 89   | 73   | 62   | 53   | 45   | 39   | 35   | 27   | 22   | 18   | 15   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.39 | 0.39 | 0.33 | 0.32 | 0.33 | 0.36 | 0.39 | 0.42 | 0.51 | 0.60 | 0.69 | 0.79 | 0.91 | 1.15 | 1.40 | 1.67 | 1.98 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | C    | 3330 | 2667 | 2222 | 1905 | 1667 | 1481 | 1333 | 1212 | 1111 | 1026 | 952  | 889  | 833  | 741  | 667  | 606  | 556  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                | D    | 0.31 | 0.31 | 0.26 | 0.26 | 0.26 | 0.29 | 0.31 | 0.34 | 0.41 | 0.46 | 0.55 | 0.64 | 0.72 | 0.92 | 1.13 | 1.37 | 1.63 |                            |  |  |  |  |                    |  |  |  |  |
|                                         | 9 ga.          | 25.3 (37.6)                | QGH-P -85009   |      | 611  | 391  | 271  | 199  | 152  | 121  | 97   | 80   | 68   | 58   | 49   | 42   | 38   | 29   | 24   | 19   | 16   |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                |      | 0.39 | 0.39 | 0.33 | 0.32 | 0.33 | 0.36 | 0.39 | 0.42 | 0.51 | 0.60 | 0.69 | 0.79 | 0.91 | 1.15 | 1.40 | 1.67 | 1.98 |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                |      | 3663 | 2933 | 2444 | 2095 | 1833 | 1629 | 1466 | 1333 | 1222 | 1128 | 1047 | 977  | 916  | 815  | 733  | 666  | 611  |                            |  |  |  |  |                    |  |  |  |  |
|                                         |                |                            |                |      | 0.31 | 0.31 | 0.26 | 0.26 | 0.26 | 0.29 | 0.31 | 0.34 | 0.41 | 0.46 | 0.55 | 0.64 | 0.72 | 0.92 | 1.13 | 1.37 | 1.63 |                            |  |  |  |  |                    |  |  |  |  |

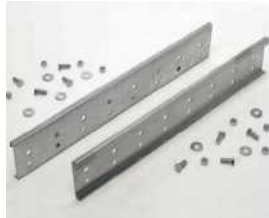




# Accessories for Heavy-Duty Grip Strut Safety Grating

Table-5: Kit List of 30" Long Walkway Splice Plate

| Item         | Size                                 | Number |
|--------------|--------------------------------------|--------|
| Splice Plate | 4-1/2" × 30"                         | 2      |
| Hex Bolt     | 1/2"-13 × 1-1/4"                     | 32     |
| Hex Nut      | 1/2"-13                              | 32     |
| Washers      | 1/2"                                 | 32     |
| Material     | 13 gauge mill galvanized steel plate |        |



30" Long Walkway Splice Plate

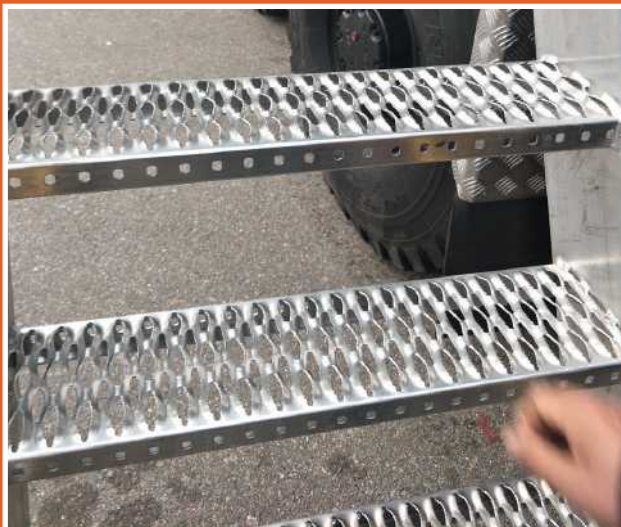
Table-6: Kit List of Hold-Down Clip

| Item                   | Size                             |
|------------------------|----------------------------------|
| Plank Hold-Down Clip   | 3/8" × (side channel height + 1) |
| Walkway hold-down clip | 3/8" × 2"                        |
| Hex Nut                | 3/8"                             |
| Flat washer            | 3/8"                             |



Hold-Down Clip

# Application



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