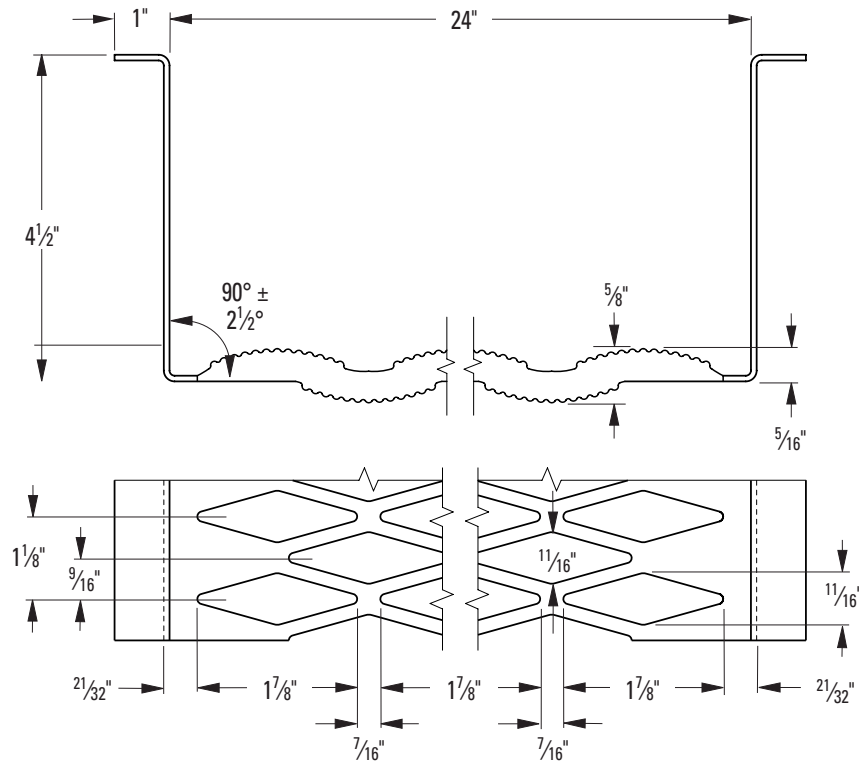




# GRATING PACIFIC

## GRIP STRUT® SAFETY GRATING LOAD TABLES 10-DIAMOND WALKWAY CHANNEL — 24" WIDTH



### Grip Strut 10-Diamond Walkway Channel — 24" Width

Allowable loads and deflections: U=Uniform load (lb./ft.<sup>2</sup>) C= Concentrated load (lb.) D=Deflection (in.)  
Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.<sup>2</sup>

| Material Gauge | Weight lb./lin. ft. | Catalog Number | Load/Defl. Code | Span  |       |       |       |       |       |       |       |       |       |       |       |        |        |        |
|----------------|---------------------|----------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|                |                     |                |                 | 3'-0" | 3'-6" | 4'-0" | 4'-6" | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" | 7'-6" | 8'-0" | 9'-0" | 10'-0" | 11'-0" | 12'-0" |
| Steel 14 ga.   | 8.9                 | 104514-U       | U               | 300   | 300   | 300   | 263   | 213   | 176   | 148   | 126   | 109   | 95    | 83    | 66    | 53     | 43     |        |
|                |                     |                | D               | .42   | .45   | .48   | .47   | .42   | .40   | .40   | .41   | .43   | .45   | .47   | .55   | .64    | .75    |        |
|                |                     |                | C               | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 400   | 380   | 355   | 333   | 296   | 266    | 242    |        |
|                |                     |                | D               | .33   | .33   | .34   | .35   | .36   | .38   | .39   | .41   | .42   | .41   | .41   | .42   | .44    | .47    |        |
| Steel 12 ga.   | 12.5                | 104512-U       | U               | 475   | 475   | 475   | 420   | 340   | 281   | 236   | 201   | 173   | 151   | 133   | 105   | 85     | 70     | 59     |
|                |                     |                | D               | .38   | .40   | .43   | .43   | .39   | .37   | .37   | .37   | .39   | .41   | .44   | .51   | .59    | .69    | .80    |
|                |                     |                | C               | 900   | 900   | 900   | 900   | 850   | 773   | 709   | 654   | 607   | 567   | 531   | 472   | 425    | 387    | 354    |
|                |                     |                | D               | .35   | .35   | .36   | .37   | .37   | .35   | .34   | .33   | .33   | .33   | .33   | .33   | .35    | .37    | .40    |

### Engineering Data (for both channels)

| Material Gauge | Channel Depth in. | Sx in. <sup>3</sup> | Ix in. <sup>4</sup> | EI lb. x in. <sup>2</sup> |
|----------------|-------------------|---------------------|---------------------|---------------------------|
| Steel 14 ga.   | 4-1/2"            | .806                | 1.43                | 41.47 x 10 <sup>6</sup>   |
| Steel 12 ga.   | 4-1/2"            | 1.290               | 2.42                | 10.03 x 10 <sup>6</sup>   |

### Strut Loading

| Material Gauge | Type Loading** | Load | Deflection in. |
|----------------|----------------|------|----------------|
| Steel 14 ga.   | U              | 300  | .49            |
|                | Cs             | 300  | .40            |
| Steel 12 ga.   | U              | 475  | .45            |
|                | Cs             | 475  | .36            |

\*\* U = Allowable uniform load (lb./ft.<sup>2</sup>)

Cs = Allowable concentrated load per ft. of length at mid-width (lb./ft.)