



GRATING PACIFIC

PULTRUDED FRP STAIR TREAD LOAD TABLES

| Industrial Stair Tread Load/Deflection Information | | | | | | | | |
|--|------------|-----------|-----|-----|-----|-----|------|-----|
| Tread Type | Load (lbs) | Span (in) | 18 | 24 | 30 | 36 | 42 | 48 |
| | | Span/150 | .12 | .16 | .20 | .24 | .28 | .32 |
| 1" Deep, I-6010 | 250 | — | .03 | .08 | .14 | .22 | 0.34 | .46 |
| | 500 | — | .07 | .15 | .28 | .44 | — | — |
| 1-1/2" Deep, I-6015 | 250 | — | .01 | .02 | .04 | .06 | .09 | .13 |
| | 500 | — | .02 | .04 | .08 | .11 | .18 | .26 |
| 2" Deep, T-5020 | 250 | — | .01 | .02 | .03 | .04 | .06 | .09 |
| | 500 | — | .02 | .04 | .06 | .09 | .12 | .18 |
| 1" Deep, I-4010 | 250 | — | .02 | .05 | .10 | .16 | .24 | .33 |
| | 500 | — | .05 | .11 | .20 | .32 | .49 | — |
| 1-1/2" Deep, I-4015 | 250 | — | .01 | .01 | .03 | .04 | .06 | .09 |
| | 500 | — | .02 | .03 | .05 | .07 | .12 | .17 |
| 2" Deep, T-3320 | 250 | — | .01 | .01 | .02 | .03 | .05 | .07 |
| | 500 | — | .02 | .03 | .04 | .06 | .09 | .14 |

| Pedestrian Stair Tread Load/Deflection Information | | | | | | | | |
|--|------------|-----------|-----|-----|-----|-----|-----|-----|
| Tread Type | Load (lbs) | Span (in) | 18 | 24 | 30 | 36 | 42 | 48 |
| | | Span/150 | .12 | .16 | .20 | .24 | .28 | .32 |
| 1" Deep, T-1210 | 250 | — | .06 | .13 | .19 | .26 | .37 | .47 |
| | 500 | — | .10 | .22 | .34 | .46 | — | — |
| 1-1/2" Deep, T-1215 | 250 | — | .05 | .07 | .09 | .11 | .15 | .18 |
| | 500 | — | .08 | .12 | .16 | .20 | .28 | .36 |
| 1" Deep, T-2510 | 250 | v | .05 | .13 | .20 | .27 | .39 | .50 |
| | 500 | — | .09 | .23 | .37 | .50 | — | — |
| 1-1/2" Deep, T-2515 | 250 | — | .03 | .06 | .09 | .12 | .15 | .18 |
| | 500 | — | .05 | .11 | .16 | .21 | .28 | .35 |
| 1" Deep, T-3810 | 250 | — | .06 | .15 | .23 | .32 | .47 | — |
| | 500 | — | .09 | .25 | .41 | — | — | — |
| 1-1/2" Deep, T-3815 | 250 | — | .03 | .06 | .09 | .12 | .18 | .23 |
| | 500 | — | .05 | .11 | .17 | .23 | .34 | .45 |

NOTES:

1. It is suggested that stair tread deflection be limited to SPAN/150. Deflections based on this ratio are provided at the top of the table.
2. Deflection in the body of the table are for concentrated loads of both 250 lbs. and 500 lbs. A concentrated load is applied at the center of the tread, over a width of 4" and a length of 6", starting at the nosing edge to simulate the landing of a foot.
3. Deflections are not appreciably different due to stair tread depth. Actual depth will vary depending on stair tread configuration.

Stair Tread Installation Note:

All load carrying bars of both molded and pultruded stair treads (especially the nosing bar of the tread) must be fully supported at its ends to be considered properly installed.