

# Orbit Span Table

Allowable Loads (psf)



| Panel Size | Aluminum |           |       |           |      |           | Stainless Steel |           |       |           |      |           | Weathering Steel |           |       |           |      |           |
|------------|----------|-----------|-------|-----------|------|-----------|-----------------|-----------|-------|-----------|------|-----------|------------------|-----------|-------|-----------|------|-----------|
|            | 1/8"     |           | 3/16" |           | 1/4" |           | 1/8"            |           | 3/16" |           | 1/4" |           | 1/8"             |           | 3/16" |           | 1/4" |           |
|            | Edge     | Perimeter | Edge  | Perimeter | Edge | Perimeter | Edge            | Perimeter | Edge  | Perimeter | Edge | Perimeter | Edge             | Perimeter | Edge  | Perimeter | Edge | Perimeter |
| 30 x 48    | 60       | 70        | 197   | 218       | *233 | *323      | 164             | 194       | *233  | *323      | *233 | *323      | 177              | 201       | *233  | *323      | *233 | *323      |
| 30 x 60    | 60       | 64        | 191   | 196       | *290 | *335      | 161             | 177       | *290  | *335      | *290 | *335      | 167              | 184       | *290  | *335      | *290 | *335      |
| 30 x 72    | 57       | 61        | 190   | 203       | *308 | *317      | 159             | 169       | *308  | *317      | *308 | *317      | 165              | 176       | *308  | *317      | *308 | *317      |
| 30 x 84    | 56       | 61        | 188   | 202       | *290 | *346      | 158             | 169       | *290  | *346      | *290 | *346      | 164              | 175       | *290  | *346      | *290 | *346      |
| 30 x 96    | 55       | 65        | 188   | 208       | *323 | *349      | 157             | 181       | *323  | *349      | *323 | *349      | 163              | 175       | *323  | *349      | *323 | *349      |
| 30 x 108   | 55       | 66        | 187   | 206       | *289 | *332      | 156             | 182       | *289  | *332      | *289 | *332      | 162              | 175       | *289  | *332      | *289 | *332      |
| 30 x 120   | 55       | 66        | 187   | 222       | *295 | *336      | 156             | 185       | *295  | *336      | *295 | *336      | 162              | 174       | *295  | *336      | *295 | *336      |
| 48 x 48    | 13       | 28        | 44    | 92        | 104  | 211       | 36              | 77        | 123   | 257       | *203 | *349      | 38               | 80        | 126   | 266       | *203 | *349      |
| 48 x 60    | 13       | 20        | 44    | 65        | 104  | 148       | 36              | 55        | 123   | 180       | *185 | *303      | 38               | 57        | 126   | 187       | *185 | *303      |
| 48 x 72    | 13       | 16        | 44    | 56        | 103  | 127       | 36              | 45        | 122   | 155       | *194 | *290      | 37               | 46        | 125   | 159       | *194 | *290      |
| 48 x 84    | 13       | 15        | 44    | 51        | 103  | 117       | 36              | 41        | 122   | 142       | *181 | *265      | 37               | 39        | 124   | 146       | *181 | *265      |
| 48 x 96    | 12       | 14        | 43    | 49        | 101  | 116       | 35              | 40        | 121   | 138       | *174 | *248      | 36               | 38        | 123   | 140       | *174 | *248      |
| 48 x 108   | 12       | 14        | 43    | 49        | 101  | 116       | 35              | 39        | 121   | 135       | *168 | *233      | 36               | 38        | 123   | 139       | *168 | *233      |
| 48 x 120   | 12       | 14        | 43    | 49        | 101  | 113       | 34              | 38        | 120   | 134       | *185 | *245      | 35               | 38        | 123   | 138       | *185 | *245      |
| 60 x 60    | 7        | 14        | 23    | 48        | 53   | 111       | 19              | 30        | 65    | 135       | 148  | 240       | 19               | 31        | 66    | 139       | 152  | 242       |
| 60 x 72    | 7        | 10        | 23    | 37        | 52   | 83        | 19              | 28        | 64    | 103       | 145  | 232       | 19               | 29        | 66    | 106       | 149  | 238       |
| 60 x 84    | 7        | 9         | 23    | 30        | 50   | 65        | 19              | 25        | 64    | 84        | 140  | 182       | 19               | 26        | 65    | 86        | 144  | 187       |
| 60 x 96    | 7        | 8         | 22    | 29        | 50   | 63        | 19              | 20        | 61    | 81        | 140  | 176       | 19               | 20        | 62    | 83        | 144  | 181       |
| 60 x 108   | 7        | 8         | 22    | 27        | 50   | 60        | 19              | 20        | 61    | 75        | 140  | 168       | 19               | 20        | 62    | 77        | 144  | 173       |
| 60 x 120   | 6        | 6         | 22    | 26        | 50   | 59        | 17              | 18        | 61    | 72        | 140  | 165       | 17               | 19        | 62    | 75        | 144  | 169       |

## NOTES

- ▶ Load values are limited by deflection equal to L/60. For other deflection limits, multiply the Live Load values by the appropriate factor.
- ▶ Fastener capacity is based on GeoMetal™ standard fastener type into 14ga steel substrate.
- ▶ Results are based on the standard GeoMetal™ fastener spacing of 8" on center.
- ▶ Deflection limits are based on the short panel dimension, and the panel orientations shown in the product documentation.
- ▶ Tabulated values apply to either fasteners applied to long sides of panels only (Edge) or full perimeter fasteners (Perimeter).
- ▶ Tabulated values marked with an \*asterisk indicate load limited by fastener capacity.
- ▶ This table was designed to apply to "standard" GeoMetal™ installation methods. It may be possible to exceed the loads of this table by analyzing a specific application.
- ▶ This table is not intended to replace project-specific engineering calculations performed for your decorative metal project.
- ▶ Red values indicate pressure below 16 psf threshold.