

| SPAN | LOAD | POUNDS PER SQUARE FOOT | | | | | | | | | | | | | | SAFE LOAD |
|------|------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| | | 50 | 100 | 150 | 200 | 250 | 300 | 400 | 500 | 750 | 1000 | 2000 | 3000 | 4000 | 5000 | |
| 12" | ΔU | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.003 | 0.003 | 0.007 | 0.010 | 0.014 | 0.017 | 11333 |
| | ΔC | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.003 | 0.004 | 0.005 | 0.011 | 0.016 | 0.022 | 0.027 | 5666 |
| 18" | ΔU | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.005 | 0.007 | 0.008 | 0.013 | 0.017 | 0.034 | 0.051 | 0.068 | 0.085 | 7536 |
| | ΔC | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.005 | 0.007 | 0.009 | 0.014 | 0.018 | 0.036 | 0.054 | 0.072 | 0.090 | 5666 |
| 24" | ΔU | 0.003 | 0.005 | 0.008 | 0.010 | 0.013 | 0.016 | 0.021 | 0.026 | 0.039 | 0.052 | 0.104 | 0.156 | 0.208 | 0.261 | 5666 |
| | ΔC | 0.002 | 0.004 | 0.006 | 0.008 | 0.010 | 0.013 | 0.017 | 0.021 | 0.031 | 0.042 | 0.083 | 0.125 | 0.167 | 0.208 | 5666 |
| 30" | ΔU | 0.006 | 0.012 | 0.019 | 0.025 | 0.031 | 0.037 | 0.050 | 0.062 | 0.093 | 0.124 | 0.249 | 0.373 | -- | -- | 3626 |
| | ΔC | 0.004 | 0.008 | 0.012 | 0.016 | 0.020 | 0.024 | 0.032 | 0.040 | 0.060 | 0.080 | 0.159 | 0.239 | 0.319 | -- | 4534 |
| 36" | ΔU | 0.013 | 0.025 | 0.038 | 0.051 | 0.063 | 0.076 | 0.101 | 0.127 | 0.190 | 0.253 | 0.506 | -- | -- | -- | 2519 |
| | ΔC | 0.007 | 0.013 | 0.020 | 0.027 | 0.034 | 0.040 | 0.054 | 0.067 | 0.101 | 0.135 | 0.270 | 0.405 | -- | -- | 3778 |
| 42" | ΔU | 0.023 | 0.046 | 0.069 | 0.092 | 0.115 | 0.138 | 0.184 | 0.231 | 0.346 | 0.461 | -- | -- | -- | -- | 1850 |
| | ΔC | 0.011 | 0.021 | 0.032 | 0.042 | 0.053 | 0.063 | 0.084 | 0.105 | 0.158 | 0.211 | 0.422 | 0.632 | -- | -- | 3238 |
| 48" | ΔU | 0.039 | 0.077 | 0.116 | 0.154 | 0.193 | 0.231 | 0.308 | 0.385 | 0.578 | -- | -- | -- | -- | -- | 1417 |
| | ΔC | 0.015 | 0.031 | 0.046 | 0.062 | 0.077 | 0.092 | 0.123 | 0.154 | 0.231 | 0.308 | 0.616 | -- | -- | -- | 2834 |
| 54" | ΔU | 0.061 | 0.121 | 0.182 | 0.243 | 0.304 | 0.364 | 0.486 | 0.607 | -- | -- | -- | -- | -- | -- | 1120 |
| | ΔC | 0.022 | 0.043 | 0.065 | 0.086 | 0.108 | 0.130 | 0.173 | 0.216 | 0.324 | 0.432 | -- | -- | -- | -- | 2519 |
| 60" | ΔU | 0.091 | 0.183 | 0.274 | 0.365 | 0.456 | 0.548 | -- | -- | -- | -- | -- | -- | -- | -- | 907 |
| | ΔC | 0.029 | 0.058 | 0.088 | 0.117 | 0.146 | 0.175 | 0.234 | 0.292 | 0.438 | 0.584 | -- | -- | -- | -- | 2267 |
| 66" | ΔU | 0.132 | 0.264 | 0.397 | 0.529 | 0.661 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 749 |
| | ΔC | 0.038 | 0.077 | 0.115 | 0.154 | 0.192 | 0.231 | 0.308 | 0.385 | 0.577 | -- | -- | -- | -- | -- | 2060 |
| 72" | ΔU | 0.185 | 0.370 | 0.554 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 629 |
| | ΔC | 0.049 | 0.099 | 0.148 | 0.197 | 0.246 | 0.296 | 0.394 | 0.493 | -- | -- | -- | -- | -- | -- | 1889 |
| 78" | ΔU | 0.253 | 0.506 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 536 |
| | ΔC | 0.062 | 0.124 | 0.187 | 0.249 | 0.311 | 0.373 | 0.498 | 0.622 | -- | -- | -- | -- | -- | -- | 1744 |
| 84" | ΔU | 0.337 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 463 |
| | ΔC | 0.077 | 0.154 | 0.231 | 0.308 | 0.385 | 0.462 | 0.616 | -- | -- | -- | -- | -- | -- | -- | 1619 |

ΔU - Deflection Under Uniform Load

ΔC - Deflection Under Concentrated Load

- Safe load values have a safety factor of 2:1.
- Technical information provided is theoretical and for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. **McNICHOLS** shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.

