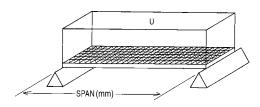
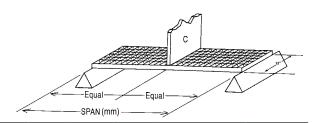
HLC Grating Load Charts



| Uniform Line Load Table - Deflection in Millimetres | | | | | | | | | | | | | | |
|---|---------------|--------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|---------------------|
| | St | yle | UNIFORM LOAD (kN/m2) | | | | | | | | | | MAXIMUM RECOMMENDED | ULTIMATE |
| Span (mm) | Depth (mm) | Mesh (mm) | 5 | 7 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | LOAD (kN/m2) | CAPACITY (kN/m2) |
| 400 | 38 | 25 x 51 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 751 | 1876 |
| | 51 | 25 x 51 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | 832 | 2075 |
| 600 | 38 | 25 x 51 | < 0.3 | < 0.3 | 0.5 | 0.7 | 1.0 | 1.3 | 1.6 | 1.9 | 2.2 | 2.5 | 337 | 843 |
| | 51 | 25 x 51 | < 0.3 | < 0.3 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 | 444 | 1109 |
| 800 | 38 | 25 x 51 | 0.9 | 1.2 | 1.7 | 2.5 | 3.4 | 4.2 | 5.0 | 5.9 | 6.7 | 7.4 | 189 | 469 |
| | 51 | 25 x 51 | 0.4 | 0.6 | 0.9 | 1.4 | 1.8 | 2.3 | 2.8 | 3.2 | 3.7 | 4.1 | 251 | 629 |
| 1000 | 38 | 25 x 51 | 1.9 | 2.7 | 3.9 | 5.9 | 7.8 | 9.5 | 11.5 | | | | 100 | 256 |
| | 51 | 25 x 51 | 1.2 | 1.6 | 2.3 | 3.4 | 4.6 | 5.7 | 6.8 | 8.0 | 9.1 | 10.3 | 160 | 398 |



| Concentrated Line Load Table - Deflection in Millimetres | | | | | | | | | | | | | | |
|--|------------|---------------------|-------|-------|------|------------------|------|-----------------|------------------|----------------|------|------|---|--|
| Span (mm) | Depth (mm) | yle Mesh (mm) | 1.5 | 5.0 | 10.0 | entrated 20.0 | 30.0 | OAD (ki 40.0 | N/m of v 50.0 | width) 60.0 | 70.0 | 85.0 | MAXIMUM RECOMMENDED LOAD (kN/m of width) | ULTIMATE CAPACITY (kN/m of width) |
| 400 | 38 | 25 x 51 | < 0.3 | 0.5 | 0.5 | 1.2 | 1.8 | 1.8 | 2.2 | 2.6 | 3.0 | 4.1 | 157 | 471 |
| | 51 | 25 x 51 | < 0.3 | < 0.3 | 0.3 | 0.6 | 0.8 | 1.1 | 1.3 | 1.6 | 1.8 | 2.2 | 178 | 536 |
| 600 | 38 | 25 x 51 | < 0.3 | 8.0 | 1.5 | 2.9 | 4.3 | 5.7 | 7.1 | 8.5 | 10.0 | | 101 | 303 |
| 000 | 51 | 25 x 51 | < 0.3 | 0.4 | 0.7 | 1.5 | 2.3 | 3.1 | 3.9 | 4.7 | 5.5 | 6.7 | 130 | 393 |
| 800 | 38 | 25 x 51 | 0.5 | 1.7 | 3.4 | 6.7 | 10.1 | | | | | | 75 | 227 |
| 300 | 51 | 25 x 51 | 0.3 | 1.0 | 1.9 | 3.7 | 5.6 | 7.5 | 9.3 | 11.2 | | | 102 | 308 |
| 1000 | 38 | 25 x 51 | 1.0 | 3.2 | 6.3 | 12.5 | | | | | | | 60 | 181 |
| | 51 | 25 x 51 | 0.6 | 1.9 | 3.6 | 7.2 | 10.9 | | | | | | 77 | 233 |

^{1.} ULTIMATE CAPACITY represents a complete and total failure of the grating. Values are provided to illustrate the reserve strength of the grating at a given span and are NOT to be used for design. Functionality of grating is limited to MAX RECOMMENDED LOAD.

^{2.} The allowable loads in this table are for STATIC LOAD CONDITIONS at ambient temperatures only. Allowable loads for impact conditions should be a maximum of ONE-HALF the values shown. Long term loads will result in added deflection due to creep in the material and will also require higher safety factors to ensure acceptable performance. For applications at elevated temperatures, consult factory. The designer is further referenced to ASCE Structural Plastics Design Manual.

^{3.} Fibergrate recommends a maximum deflection of 6.4mm for this product under normal loading conditions. The use of L/500 may be required by certain construction codes. Check code requirements to determine design criteria.

^{4.} All gratings were tested in accordance with the ANSI Standard: GRP Composites Grating Manual for Pultruded and Moulded Grating, and Stair Treads.