



FIBRETEK PULTRUDED GRATING LOADING CAPACITY

This table shows the uniformly distributed load at different span widths with a deflection of 1/200th of the span.

It should be noted that higher loads could be carried if greater deflections are allowed.

| Fibretek Grating Model | Bearing Bar Centers (mm) | Bearing Bar Depth (mm) | Approx. Weight (kg/m ²) | Unit | Uniformly Distributed Load | | | | | | | | |
|---------------------------------|--------------------------|------------------------|---|--|----------------------------|----------------|--------------|--------------|--------------|------------|------------|-------------|------------|
| | | | | | Clear Span in Millimeters | 300 | 450 | 600 | 750 | 900 | 1050 | 1200 | 1350 |
| Max Deflection at Specific Load | | | | mm | 1.5 | 2.25 | 3.0 | 3.75 | 4.5 | 5.25 | 6.0 | 6.75 | 7.5 |
| 25 LD | 40.0 | 25 | 9.8 | kN/m ² kg/m ² | 129 13154 | 38 3875 | 15.8 1611 | 8.0 816 | 4.8 489 | 3.0 306 | 2.1 214 | 1.45 148 | 1.1 112 |
| 25 SD | 30.2 | 25 | 12.2 | kN/m ² kg/m ² | 180 18355 | 54 5506 | 21.3 2172 | 11.2 1142 | 6.9 693 | 4.2 428 | 2.8 286 | 2.0 204 | 1.3 133 |
| 38 LD | 40.0 | 38 | 13.5 | kN/m ² kg/m ² | 350 35690 | 110 11217 | 42.5 4334 | 22.5 2295 | 12.5 1275 | 7.5 765 | 5.4 551 | 4.5 459 | 3.7 377 |
| 38 SD | 30.2 | 38 | 14.6 | kN/m ² kg/m ² | 370.7 37801 | 120.6 12298 | 49 4997 | 26.4 2692 | 14.5 1479 | 8.9 908 | 6.2 632 | 5.2 530 | 4.1 418 |
| 65 HD | various | 65 | Heavy duty gratings to carry vehicle traffic – contact Fibretek for details | | | | | | | | | | |