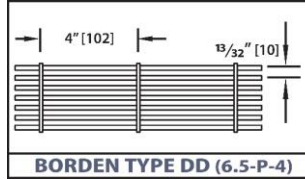




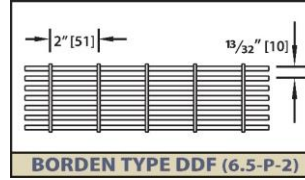
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**Sidewalk Grating
Steel**

LOAD TABLE



Free air % for 1/8" bars: 67.07%
Free air % for 3/16" bars: 52.16%



Free air % for 1/8" bars: 64.90%
Free air % for 3/16" bars: 50.48%

| Grating type | Weight lbs./ft ² kg/m ² | I in. ⁴ mm ⁴ | S in. ³ mm ³ | CL-625 | | OBC | | | | H20 | 5 TON | 3 ton | 1 ton | Car | |
|--------------|---|--|--|---------------------|---------------------|-------------|---------------|-----------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | | | Span L in. mm | Span L in. mm | veh>9000 kg | | 4000kg<veh <9000kg | 4000kg > veh | Span L in. mm | Span L in. mm | Span L in. mm | Span L in. mm | Span L in. mm | Span L in. mm |
| | | | | | | parallel | perpendicular | | | | | | | | |
| DD-1 | 11.34 | 0.1298 | 0.3462 | 7.84 | 13.24 | 8.78 | 13.49 | 3.46 | 4.55 | 12.08 | 7.32 | 5.36 | 4.92 | 9.78 | |
| 3/4"x1/8" | 55.35 | 54030 | 5672 | 199 | 336 | 223 | 343 | 88 | 116 | 307 | 186 | 136 | 125 | 248 | |
| DD-2 | 16.05 | 0.1947 | 0.5192 | 9.26 | 13.86 | 10.71 | 14.34 | 4.00 | 5.64 | 13.12 | 8.23 | 6.29 | 6.38 | 12.42 | |
| 3/4"x3/16" | 78.36 | 81045 | 8509 | 235 | 352 | 272 | 364 | 102 | 143 | 333 | 209 | 160 | 162 | 315 | |
| DD-3 | 14.48 | 0.3077 | 0.6154 | 10.05 | 14.20 | 11.78 | 14.80 | 4.31 | 6.25 | 13.69 | 8.74 | 6.80 | 7.19 | 13.88 | |
| 1"x1/8" | 70.69 | 128071 | 10084 | 255 | 361 | 299 | 376 | 109 | 159 | 348 | 222 | 173 | 183 | 353 | |
| DD-4 | 20.76 | 0.4615 | 0.9231 | 12.58 | 15.30 | 15.21 | 16.30 | 5.28 | 8.19 | 15.54 | 10.35 | 8.46 | 9.78 | 18.58 | |
| 1"x3/16" | 101.36 | 192107 | 15127 | 319 | 389 | 386 | 414 | 134 | 208 | 395 | 263 | 215 | 248 | 472 | |
| DD-5 | 17.62 | 0.6010 | 0.9615 | 12.89 | 15.44 | 15.64 | 16.49 | 5.40 | 8.43 | 15.77 | 10.56 | 8.66 | 10.10 | 19.16 | |
| 1 1/4"x1/8" | 86.02 | 250139 | 15757 | 327 | 392 | 397 | 419 | 137 | 214 | 401 | 268 | 220 | 257 | 487 | |
| DD-6 | 25.47 | 0.9014 | 1.4423 | 16.84 | 17.16 | 21.00 | 18.82 | 6.92 | 11.47 | 18.66 | 13.08 | 11.24 | 14.16 | 26.49 | |
| 1 1/4"x3/16" | 124.36 | 375209 | 23635 | 428 | 436 | 533 | 478 | 176 | 291 | 474 | 332 | 286 | 360 | 673 | |
| DD-7 | 20.76 | 1.0385 | 1.3846 | 16.37 | 16.95 | 20.36 | 18.54 | 6.73 | 11.11 | 18.31 | 12.78 | 10.93 | 13.67 | 25.61 | |
| 1 1/4"x1/8" | 101.36 | 432240 | 22690 | 416 | 431 | 517 | 471 | 171 | 282 | 465 | 325 | 278 | 347 | 651 | |
| DD-8 | 30.18 | 1.5577 | 2.0769 | 22.05 | 19.43 | 28.08 | 21.91 | 8.92 | 15.48 | 22.47 | 16.42 | 14.65 | 19.50 | 34.47 | |
| 1 1/2"x3/16" | 147.37 | 648360 | 34035 | 560 | 494 | 713 | 556 | 227 | 393 | 571 | 417 | 372 | 495 | 876 | |
| DD-9 | 34.89 | 2.4736 | 2.8269 | 28.21 | 22.11 | 36.44 | 25.55 | 11.29 | 20.22 | 26.97 | 20.36 | 18.68 | 25.83 | 43.16 | |
| 1 3/4"x3/16" | 170.37 | 1029572 | 46325 | 716 | 562 | 925 | 649 | 287 | 513 | 685 | 517 | 474 | 656 | 1096 | |
| DD-10 | 39.61 | 3.6923 | 3.6923 | 35.31 | 25.21 | 45.11 | 29.76 | 14.02 | 25.68 | 32.17 | 24.91 | 23.33 | 33.12 | 51.68 | |
| 2"x3/16" | 193.38 | 1536854 | 60506 | 897 | 640 | 1146 | 756 | 356 | 652 | 817 | 633 | 592 | 841 | 1313 | |
| DD-11 | 44.32 | 5.2572 | 4.6731 | 43.36 | 28.72 | 52.41 | 34.53 | 17.12 | 31.87 | 38.06 | 30.07 | 28.59 | 41.39 | 58.08 | |
| 2 1/4"x3/16" | 216.38 | 2188217 | 76578 | 1101 | 729 | 1331 | 877 | 435 | 810 | 967 | 764 | 726 | 1051 | 1475 | |
| DD-12 | 49.03 | 7.2115 | 5.7692 | 52.36 | 32.64 | 58.17 | 39.86 | 20.58 | 38.80 | 44.64 | 35.83 | 34.48 | 50.62 | 64.48 | |
| 2 1/2"x3/16" | 239.38 | 3001669 | 94541 | 1330 | 829 | 1478 | 1012 | 523 | 985 | 1134 | 910 | 876 | 1286 | 1638 | |
| DD-13 | 53.74 | 9.5986 | 6.9808 | 57.80 | 36.97 | 63.94 | 45.75 | 24.41 | 46.45 | 51.91 | 42.20 | 40.98 | 58.08 | 70.89 | |
| 2 3/4"x3/16" | 262.39 | 3995221 | 114394 | 1468 | 939 | 1624 | 1162 | 620 | 1180 | 1319 | 1072 | 1041 | 1475 | 1801 | |
| DD-14 | 58.45 | 12.4615 | 8.3077 | 63.00 | 41.72 | 69.71 | 52.20 | 28.60 | 54.83 | 57.61 | 49.18 | 48.11 | 63.35 | 77.31 | |
| 3"x3/16" | 285.39 | 5186884 | 136139 | 1600 | 1060 | 1771 | 1326 | 726 | 1393 | 1463 | 1249 | 1222 | 1609 | 1964 | |

All loads and deflections are based on gross sections and nominal sizes of bearing bars. The values listed are for design selection only and are not intended to be "absolute".

Actual load capacity will be affected slightly by variations which can be expected due to material and manufacturing tolerances.

1/4" is considered the maximum deflection which is consistent with pedestrian comfort, but may be exceeded for other application at the discretion of the Engineer.

When serrated gratings are specified, increase the depth of the grating selected from the table by 1/4" to allow for the serrations.

| PANEL WIDTHS (inches) | | | | | | | | | | | | | |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| # Bars | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| 3/16" Bars | 19/32 | 1 | 1 13/32 | 1 13/16 | 2 7/32 | 2 5/8 | 3 1/32 | 3 7/16 | 3 27/32 | 4 1/4 | 4 21/32 | 5 1/16 | |
| 1/8" Bars | 17/32 | 15/16 | 1 11/32 | 1 3/4 | 2 5/32 | 2 9/16 | 2 31/32 | 3 3/8 | 3 25/32 | 4 3/16 | 4 19/32 | 5 | |
| # Bars | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| 3/16" Bars | 5 15/32 | 5 7/8 | 6 9/32 | 6 11/16 | 7 3/32 | 7 1/2 | 7 29/32 | 8 5/16 | 8 23/32 | 9 1/8 | 9 17/32 | 9 15/16 | |
| 1/8" Bars | 5 13/32 | 5 13/16 | 6 7/32 | 6 5/8 | 7 1/32 | 7 7/16 | 7 27/32 | 8 1/4 | 8 21/32 | 9 1/16 | 9 15/32 | 9 7/8 | |
| # Bars | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | |
| 3/16" Bars | 10 11/32 | 10 3/4 | 11 5/32 | 11 9/16 | 11 31/32 | 12 3/8 | 12 25/32 | 13 3/16 | 13 19/32 | 14 | 14 13/32 | 14 13/16 | |
| 1/8" Bars | 10 9/32 | 10 11/16 | 11 3/32 | 11 1/2 | 11 29/32 | 12 5/16 | 12 23/32 | 13 1/8 | 13 17/32 | 13 15/16 | 14 11/32 | 14 3/4 | |
| # Bars | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | |
| 3/16" Bars | 15 7/32 | 15 5/8 | 16 1/32 | 16 7/16 | 16 27/32 | 17 1/4 | 17 21/32 | 18 1/16 | 18 15/32 | 18 7/8 | 19 9/32 | 19 11/16 | |
| 1/8" Bars | 15 5/32 | 15 9/16 | 15 31/32 | 16 3/8 | 16 25/32 | 17 3/16 | 17 19/32 | 18 | 18 13/32 | 18 13/16 | 19 7/32 | 19 5/8 | |
| # Bars | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | |
| 3/16" Bars | 20 3/32 | 20 1/2 | 20 29/32 | 21 5/16 | 21 23/32 | 22 1/8 | 22 17/32 | 22 15/16 | 23 11/32 | 23 3/4 | 24 5/32 | 24 9/16 | |
| 1/8" Bars | 20 1/32 | 20 7/16 | 20 27/32 | 21 1/4 | 21 21/32 | 22 1/16 | 22 15/32 | 22 7/8 | 23 9/32 | 23 11/16 | 24 3/32 | 24 1/2 | |
| # Bars | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | |
| 3/16" Bars | 24 31/32 | 25 3/8 | 25 25/32 | 26 3/16 | 26 19/32 | 27 | 27 13/32 | 27 13/16 | 28 7/32 | 28 5/8 | 29 1/32 | 29 7/16 | |
| 1/8" Bars | 24 29/32 | 25 5/16 | 25 23/32 | 26 1/8 | 26 17/32 | 26 15/16 | 27 11/32 | 27 3/4 | 28 5/32 | 28 9/16 | 28 31/32 | 29 3/8 | |
| # Bars | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | |
| 3/16" Bars | 29 27/32 | 30 1/4 | 30 21/32 | 31 1/16 | 31 15/32 | 31 7/8 | 32 9/32 | 32 11/16 | 33 3/32 | 33 1/2 | 33 29/32 | 34 5/16 | |
| 1/8" Bars | 29 25/32 | 30 3/16 | 30 19/32 | 31 | 31 13/32 | 31 13/16 | 32 7/32 | 32 5/8 | 33 1/32 | 33 7/16 | 33 27/32 | 34 1/4 | |
| # Bars | 86 | 87 | 88 | 89 | | | | | | | | | |
| 3/16" Bars | 34 23/32 | 35 1/8 | 35 17/32 | 35 15/16 | | | | | | | | | |
| 1/8" Bars | 34 21/32 | 35 1/16 | 35 15/32 | 35 7/8 | | | | | | | | | |