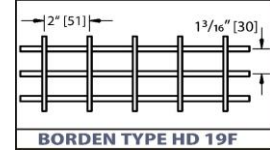
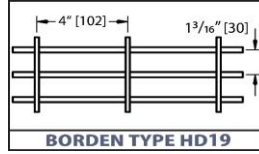


**Heavy Duty Grating**

**WHEEL LOADS**



| Grating type | Depth | hickne: | Spacing | Bars/foot | Weight<br>lbs./ft <sup>2</sup><br>kg/m <sup>2</sup> | I<br>in. <sup>4</sup><br>mm <sup>4</sup> | l/bar  | S<br>in. <sup>3</sup><br>mm <sup>3</sup> | CL-625              |                     | OBC      |               |                     |                     | H20   | 5 TON | 3 ton | 1 ton  | Car    |                     |                     |
|--------------|-------|---------|---------|-----------|---|--|--------|--|---------------------|---------------------|----------|---------------|---------------------|---------------------|-------|-------|-------|--------|--------|---------------------|---------------------|
|              |       |         |         |           |   |  |        |  | Span L<br>in.<br>mm | Span L<br>in.<br>mm | >9000 kg |               | Span L<br>in.<br>mm | Span L<br>in.<br>mm |       |       |       |        |        | Span L<br>in.<br>mm | Span L<br>in.<br>mm |
|              |       |         |         |           |   |  |        |  |                     |                     | parallel | perpendicular |                     |                     |       |       |       |        |        |                     |                     |
| 4HD19-4      | 1     | 0.25    | 1.1875  | 10.105    | 10.51   | 0.2105                                   | 0.0208 | 0.4211                                   | 9.08                | 13.92               | 10.47    | 14.42         | 4.26                | 6.15                | 13.02 | 8.29  | 6.51  | 7.22   | 12.77  |                     |                     |
| 6HD19-4      | 1.25  | 0.25    | 1.1875  | 10.105    | 12.66   | 0.4112                                   | 0.0407 | 0.6579                                   | 11.38               | 14.99               | 13.59    | 15.89         | 5.32                | 8.28                | 14.72 | 9.85  | 8.21  | 10.16  | 17.42  |                     |                     |
| 8HD19-4      | 1.5   | 0.25    | 1.1875  | 10.105    | 14.81   | 0.7105                                   | 0.0703 | 0.9474                                   | 14.18               | 16.31               | 17.41    | 17.68         | 6.62                | 10.89               | 16.79 | 11.77 | 10.28 | 13.75  | 23.11  |                     |                     |
| 8HD19-6      | 1.5   | 0.38    | 1.1875  | 10.105    | 21.26   | 1.0658                                   | 0.1055 | 1.4211                                   | 18.78               | 18.46               | 23.65    | 20.61         | 8.75                | 15.15               | 20.19 | 14.90 | 13.67 | 19.63  | 30.83  |                     |                     |
| 9HD19-4      | 1.75  | 0.25    | 1.1875  | 10.105    | 16.96   | 1.1283                                   | 0.1117 | 1.2895                                   | 17.50               | 17.87               | 21.92    | 19.80         | 8.16                | 13.96               | 19.25 | 14.03 | 12.73 | 18.00  | 29.83  |                     |                     |
| 9HD19-6      | 1.75  | 0.38    | 1.1875  | 10.105    | 24.48   | 1.6924                                   | 0.1675 | 1.9342                                   | 23.75               | 20.80               | 30.41    | 23.79         | 11.06               | 19.76               | 23.87 | 18.29 | 17.35 | 25.99  | 38.54  |                     |                     |
| 10HD19-4     | 2     | 0.25    | 1.1875  | 10.105    | 19.11   | 1.6844                                   | 0.1667 | 1.6842                                   | 21.33               | 19.66               | 27.12    | 22.24         | 9.94                | 17.52               | 22.08 | 16.64 | 15.56 | 22.89  | 37.58  |                     |                     |
| 10HD19-6     | 2     | 0.38    | 1.1875  | 10.105    | 27.70   | 2.5263                                   | 0.2500 | 2.5263                                   | 29.49               | 23.49               | 38.22    | 27.46         | 13.73               | 25.09               | 28.12 | 22.21 | 21.59 | 33.34  | 46.87  |                     |                     |
| 11HD19-4     | 2.25  | 0.25    | 1.1875  | 10.105    | 21.26   | 2.3980                                   | 0.2373 | 2.1316                                   | 25.67               | 21.70               | 33.01    | 25.01         | 11.95               | 21.54               | 25.29 | 19.60 | 18.76 | 28.44  | 45.72  |                     |                     |
| 11HD19-6     | 2.25  | 0.38    | 1.1875  | 10.105    | 30.93   | 3.5970                                   | 0.3560 | 3.1974                                   | 36.00               | 26.54               | 45.89    | 31.61         | 16.75               | 31.13               | 32.93 | 26.65 | 26.39 | 41.66  | 53.80  |                     |                     |
| 12HD19-4     | 2.5   | 0.25    | 1.1875  | 10.105    | 23.41   | 3.2895                                   | 0.3255 | 2.6316                                   | 30.51               | 23.97               | 39.60    | 28.11         | 14.20               | 26.04               | 28.87 | 22.91 | 22.34 | 34.65  | 52.25  |                     |                     |
| 12HD19-6     | 2.5   | 0.38    | 1.1875  | 10.105    | 34.15   | 4.9342                                   | 0.4883 | 3.9474                                   | 43.27               | 29.96               | 52.39    | 36.26         | 20.12               | 37.88               | 38.31 | 31.61 | 31.76 | 50.97  | 59.72  |                     |                     |
| 13HD19-4     | 2.75  | 0.25    | 1.1875  | 10.105    | 25.55   | 4.3783                                   | 0.4333 | 3.1842                                   | 35.87               | 26.48               | 46.89    | 31.53         | 16.69               | 31.01               | 32.84 | 26.56 | 26.30 | 41.50  | 57.43  |                     |                     |
| 13HD19-6     | 2.75  | 0.38    | 1.1875  | 10.105    | 37.37   | 6.5674                                   | 0.6499 | 4.7763                                   | 51.31               | 33.73               | 57.58    | 41.39         | 23.85               | 45.34               | 39.25 | 37.09 | 37.69 | 56.21  | 65.66  |                     |                     |
| 14HD19-4     | 3     | 0.25    | 1.1875  | 10.105    | 27.70   | 5.6842                                   | 0.5625 | 3.7895                                   | 41.74               | 29.24               | 54.86    | 35.28         | 19.41               | 36.46               | 37.18 | 30.57 | 30.63 | 49.01  | 62.61  |                     |                     |
| 14HD19-6     | 3     | 0.38    | 1.1875  | 10.105    | 40.60   | 8.5263                                   | 0.8438 | 5.6842                                   | 56.72               | 37.86               | 62.76    | 47.02         | 27.93               | 53.50               | 50.76 | 43.10 | 44.19 | 61.31  | 71.59  |                     |                     |
| 16HD19-4     | 3.5   | 0.25    | 1.1875  | 10.105    | 32.00   | 9.0263                                   | 0.8932 | 5.1579                                   | 55.01               | 35.46               | 63.98    | 43.76         | 25.57               | 48.77               | 46.99 | 39.62 | 40.43 | 62.50  | 72.98  |                     |                     |
| 16HD19-6     | 3.5   | 0.38    | 1.1875  | 10.105    | 47.05   | 13.5395                                  | 1.3398 | 7.7368                                   | 66.08               | 47.19               | 73.15    | 58.18         | 37.17               | 64.28               | 60.57 | 56.68 | 58.89 | 71.51  | 83.47  |                     |                     |
| 18HD19-4     | 4     | 0.25    | 1.1875  | 10.105    | 36.30   | 13.4737                                  | 1.3333 | 6.7368                                   | 66.00               | 42.65               | 73.06    | 53.54         | 32.67               | 62.97               | 58.31 | 50.06 | 51.73 | 71.41  | 83.36  |                     |                     |
| 18HD19-6     | 4     | 0.38    | 1.1875  | 10.105    | 53.49   | 20.2105                                  | 2.0000 | 10.1053                                  | 75.46               | 57.97               | 83.54    | 58.10         | 47.82               | 73.44               | 68.96 | 66.53 | 68.13 | 81.72  | 95.35  |                     |                     |
| 20HD19-4     | 4.5   | 0.25    | 1.1875  | 10.105    | 40.60   | 19.1842                                  | 1.8984 | 8.5263                                   | 74.20               | 50.79               | 82.14    | 64.62         | 40.72               | 72.20               | 67.83 | 61.90 | 64.54 | 80.33  | 93.74  |                     |                     |
| 20HD19-6     | 4.5   | 0.38    | 1.1875  | 10.105    | 59.94   | 28.7763                                  | 2.8477 | 12.7895                                  | 84.84               | 67.11               | 93.94    | 74.08         | 59.90               | 82.61               | 77.37 | 74.78 | 76.62 | 91.93  | 107.23 |                     |                     |
| 22HD19-4     | 5     | 0.25    | 1.1875  | 10.105    | 44.90   | 26.3158                                  | 2.6042 | 10.5263                                  | 82.39               | 59.88               | 91.23    | 71.99         | 49.72               | 80.21               | 75.17 | 72.63 | 74.39 | 89.25  | 104.12 |                     |                     |
| 22HD19-6     | 5     | 0.38    | 1.1875  | 10.105    | 66.39   | 39.4737                                  | 3.9063 | 15.7895                                  | 94.23               | 74.30               | 104.34   | 82.07         | 72.87               | 91.78               | 85.80 | 83.04 | 85.11 | 102.14 | 119.12 |                     |                     |

| PANEL WIDTHS (Inches) |         |         |          |         |        |          |         |         |          |          |         |          |          |    |
|-----------------------|---------|---------|----------|---------|--------|----------|---------|---------|----------|----------|---------|----------|----------|----|
| # Bars                | 2       | 3       | 4        | 5       | 6      | 7        | 8       | 9       | 10       | 11       | 12      | 13       | 14       | 15 |
| 1/4" Bars             | 1 7/16  | 2 5/8   | 3 13/16  | 5       | 6 3/16 | 7 3/8    | 8 9/16  | 9 3/4   | 10 15/16 | 12 1/8   | 13 5/16 | 14 1/2   | 15 11/16 |    |
| 3/8" Bars             | 1 9/16  | 2 3/4   | 3 15/16  | 5 1/8   | 6 5/16 | 7 1/2    | 8 11/16 | 9 7/8   | 11 1/16  | 12 1/4   | 13 7/16 | 14 5/8   | 15 13/16 |    |
| # Bars                | 15      | 16      | 17       | 18      | 19     | 20       | 21      | 22      | 23       | 24       | 25      | 26       | 27       |    |
| 1/4" Bars             | 16 7/8  | 18 1/16 | 19 1/4   | 20 7/16 | 21 5/8 | 22 13/16 | 24      | 25 3/16 | 26 3/8   | 27 9/16  | 28 3/4  | 29 15/16 | 31 1/8   |    |
| 3/8" Bars             | 17      | 18 3/16 | 19 3/8   | 20 9/16 | 21 3/4 | 22 15/16 | 24 1/8  | 25 5/16 | 26 1/2   | 27 11/16 | 28 7/8  | 30 1/16  | 31 1/4   |    |
| # Bars                | 28      | 29      | 30       | 31      |        |          |         |         |          |          |         |          |          |    |
| 1/4" Bars             | 32 5/16 | 33 1/2  | 34 11/16 | 35 7/8  |        |          |         |         |          |          |         |          |          |    |
| 3/8" Bars             | 32 7/16 | 33 5/8  | 34 13/16 | 36      |        |          |         |         |          |          |         |          |          |    |

Table compiled as per ANSI/NAAMM MBG 534-14

Revised May 2019