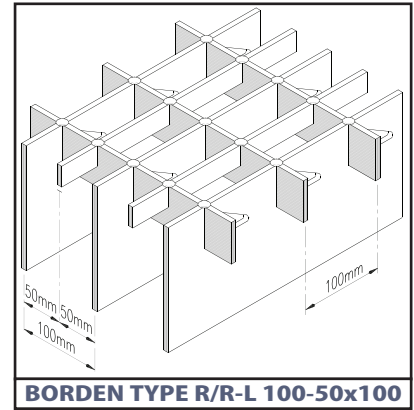


# BORDEN GRATINGS

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## Rectangular Roadway Grating



### LOAD TABLE

| Bearing<br>Bar<br>Size | Weight      | Moment<br>of<br>Intertia | Section<br>Modulus    | CAN/CSA-S6-06 CL-625             |            |       |       |                                      |            |       |       | AASHTO HS20-1996 |            |       |       |
|------------------------|-------------|--------------------------|-----------------------|----------------------------------|------------|-------|-------|--------------------------------------|------------|-------|-------|------------------|------------|-------|-------|
|                        |             |                          |                       | (in.)                            |            |       |       |                                      |            |       |       | (in.)            |            |       |       |
|                        |             |                          |                       | (mm.)                            |            |       |       |                                      |            |       |       | (mm.)            |            |       |       |
|                        |             |                          |                       | Bearing Bars Parallel to Traffic |            |       |       | Bearing Bars Pependicular to Traffic |            |       |       |                  |            |       |       |
|                        | lbs./sq.ft. | in. <sup>4</sup> /ft.    | in. <sup>3</sup> /ft. | Strength                         | Deflection |       |       | Strength                             | Deflection |       |       | Strength         | Deflection |       |       |
|                        | kg/sq.m     | mm <sup>4</sup> /m       | mm <sup>3</sup> /m    |                                  | L/800      | L/700 | L/600 |                                      | L/800      | L/700 | L/600 |                  | L/800      | L/700 | L/600 |
| 4" x 1/4"              | 17.13       | 3.895                    | 1.713                 | 27.6                             | -          | -     | -     | 18.9                                 | -          | -     | -     | 36.3             | 34.4       | 32.5  | -     |
| 102 x 6.35             | 83.64       | 5.32E+06                 | 9.21E+04              | 701                              | -          | -     | -     | 480                                  | -          | -     | -     | 922              | 874        | 826   | -     |
| 4 1/2" x 1/4"          | 18.43       | 5.462                    | 2.079                 | 32.4                             | -          | -     | -     | 20.8                                 | -          | -     | -     | 41.9             | 39.8       | -     | -     |
| 114 x 6.35             | 89.98       | 7.46E+06                 | 1.12E+05              | 823                              | -          | -     | -     | 528                                  | -          | -     | -     | 1064             | 1011       | -     | -     |
| 5" x 1/4"              | 19.72       | 7.407                    | 2.490                 | 37.9                             | -          | -     | -     | 25.6                                 | -          | -     | -     | 48.2             | 45.5       | -     | -     |
| 127 x 6.35             | 96.28       | 1.01E+07                 | 1.34E+05              | 963                              | -          | -     | -     | 650                                  | -          | -     | -     | 1224             | 1156       | -     | -     |
| 5 1/2" x 1/4"          | 21.02       | 9.775                    | 2.957                 | 44.1                             | -          | -     | -     | 28.1                                 | -          | -     | -     | 55.4             | 51.7       | 55.0  | -     |
| 140 x 6.35             | 102.63      | 1.33E+07                 | 1.59E+05              | 1120                             | -          | -     | -     | 714                                  | -          | -     | -     | 1407             | 1313       | 1397  | -     |
| 6" x 1/4"              | 22.32       | 12.616                   | 3.48                  | 51.0                             | -          | -     | -     | 31.0                                 | -          | -     | -     | 63.4             | 58.2       | 62.0  | -     |
| 152 x 6.35             | 108.98      | 1.72E+07                 | 1.87E+05              | 1295                             | -          | -     | -     | 787                                  | -          | -     | -     | 1610             | 1478       | 1575  | -     |
| 6 1/2" x 1/4"          | 23.61       | 15.978                   | 4.057                 | 58.6                             | -          | -     | -     | 34.2                                 | -          | -     | -     | 72.3             | 65.1       | 69.4  | -     |
| 165 x 6.35             | 115.27      | 2.18E+07                 | 2.18E+05              | 1488                             | -          | -     | -     | 869                                  | -          | -     | -     | 1836             | 1654       | 1763  | -     |
| 7" x 1/4"              | 24.91       | 19.910                   | 4.694                 | 67.0                             | -          | -     | -     | 37.7                                 | -          | -     | -     | 82.0             | 72.3       | 77.1  | -     |
| 178 x 6.35             | 121.62      | 2.72E+07                 | 2.52E+05              | 1702                             | -          | -     | -     | 958                                  | -          | -     | -     | 2083             | 1836       | 1958  | -     |