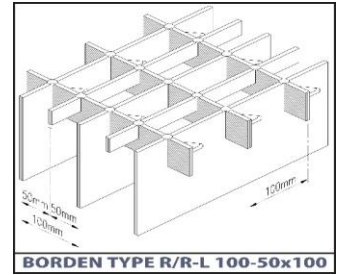




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Rectangular Roadway Grating

LOAD TABLE



Bearing Bar Size	Weight lbs./sq.ft. kg/sq.m	Moment of Inertia in. ⁴ /ft. mm ⁴ /m	Section Modulus in. ³ /ft. mm ³ /m	CAN/CSA-S6-00 CL-625 (in.) (mm.)								AASHTO HS20-1996 (in.) (mm.)			
				Bearing Bars Parallel to Traffic				Bearing Bars Perpendicular to Traffic							
				Strength	Deflection			Strength	Deflection			Strength	Deflection		
					L/800	L/700	L/600		L/800	L/700	L/600		L/800	L/700	L/600
4"x1/4" 102x6.35	17.13 83.64	3.895 5.32E+06	1.713 9.21E+04	27.6 701	- -	- -	- -	18.9 480	- -	- -	- -	36.3 922	34.4 874	32.5 826	- -
4 1/2"x1/4" 114x6.35	18.43 89.98	5.462016 7.46E+06	2.079 1.12E+05	32.4 823	- -	- -	- -	20.8 528	- -	- -	- -	41.9 1064	39.8 1011	- -	- -
5"x1/4" 127x6.35	19.72 96.28	7.407 1.01E+07	2.490 1.34E+05	37.9 963	- -	- -	- -	25.6 650	- -	- -	- -	48.2 1224	45.5 1156	- -	- -
5 1/2"x1/4" 140x6.35	21.02 102.63	9.775 1.33E+07	2.957 1.59E+05	44.1 1120	- -	- -	- -	28.1 714	- -	- -	- -	55.4 1407	51.7 1313	55 1397	- -
6"x1/4" 152x6.35	22.32 108.98	12.616 1.72E+07	3.48 1.87E+05	51 1295	- -	- -	- -	31 787	- -	- -	- -	63.4 1610	58.2 1478	62 1575	- -
6 1/2"x1/4" 165x6.35	23.61 115.27	15.978 2.18E+07	4.057 2.18E+05	58.6 1488	- -	- -	- -	34.2 869	- -	- -	- -	72.3 1836	65.1 1654	69.4 1763	- -
7"x1/4" 178x6.35	24.91 121.62	19.910 2.72E+07	4.694 2.52E+05	67 1702	- -	- -	- -	37.7 958	- -	- -	- -	82 2083	72.3 1836	77.1 1958	- -

Revised April 2019