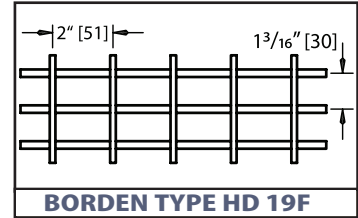
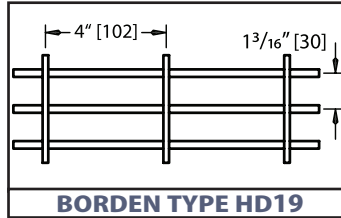









BORDEN GRATINGS

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Heavy Duty Grating

WHEEL LOADS



Grating Type	Weight lbs./ft ² kg/m ²	Moment of Inertia in. ⁴ mm ⁴	Section Modulus in. ³ mm ³	Span (inches) (mm)						
										
				CL-625 parallel	CL-625 perpendicular	OBC	H20	5 TON	3 ton	Car Traffic
8HD19-4 1 1/2" x 1/4"	14.81 72.30	0.7105 295743	0.9474 15525	14.18 360	16.31 414	31.80 808	16.79 427	11.77 299	10.28 261	31.55 801
8HD19-6 1 1/2" x 3/8"	21.26 103.78	1.0658 443615	1.4211 23287	18.78 477	18.46 469	36.86 936	20.19 513	14.90 378	13.67 347	38.43 976
9HD19-4 1 3/4" x 1/4"	16.96 82.80	1.1283 469630	1.2895 21131	17.50 445	17.87 454	37.67 957	19.25 489	14.03 356	12.73 323	39.51 1004
9HD19-6 1 3/4" x 3/8"	24.48 119.52	1.6924 704444	1.9342 31696	23.75 603	20.80 528	44.30 1125	23.87 606	18.29 465	17.35 441	48.21 1225
10HD19-4 2" x 1/4"	19.11 93.29	1.6842 701021	1.6842 27599	21.33 542	19.66 499	44.21 1123	22.08 561	16.64 423	15.56 395	48.10 1222
10HD19-6 2" x 3/8"	27.70 135.26	2.5263 1051532	2.5263 41399	29.49 749	23.49 597	51.74 1314	28.12 714	22.21 564	21.59 548	55.71 1415
11HD19-4 2 1/4" x 1/4"	21.26 103.78	2.3980 998134	2.1316 34930	25.67 652	21.70 551	50.93 1294	25.29 642	19.60 498	18.76 477	54.76 1391
11HD19-6 2 1/4" x 3/8"	30.93 151.00	3.5970 1497201	3.1974 52395	36.00 914	26.54 674	57.63 1464	32.93 836	26.65 677	26.39 670	62.63 1591
12HD19-4 2 1/2" x 1/4"	23.41 114.27	3.2895 1369182	2.6316 43124	30.51 775	23.97 609	56.06 1424	28.87 733	22.91 582	22.34 567	60.80 1544
12HD19-6 2 1/2" x 3/8"	34.15 166.74	4.9342 2053773	3.9474 64686	43.27 1099	29.96 761	63.56 1614	38.31 973	31.61 803	31.76 807	69.56 1767
13HD19-4 2 3/4" x 1/4"	25.55 124.77	4.3783 1822382	3.1842 52180	35.87 911	26.48 673	61.24 1556	32.84 834	26.56 675	26.30 668	66.85 1698
14HD19-4 3" x 1/4"	27.70 135.26	5.6842 2365947	3.7895 62098	41.74 1060	29.24 743	66.44 1688	37.18 944	30.57 776	30.63 778	72.89 1852
14HD19-6 3" x 3/8"	40.60 198.22	8.5263 3548921	5.6842 93148	56.73 1441	37.86 962	75.53 1918	50.76 1289	43.10 1095	44.19 1123	83.42 2119
16HD19-4 3 1/2" x 1/4"	32.00 156.25	9.0263 3757036	5.1579 84523	55.01 1397	35.46 901	76.91 1954	46.99 1194	39.62 1006	40.43 1027	85.02 2160
16HD19-6 3 1/2" x 3/8"	47.05 229.70	13.5395 5635554	7.7368 126784	66.07 1678	47.19 1199	87.58 2225	60.58 1539	56.68 1440	58.89 1496	97.28 2471
18HD19-4 4" x 1/4"	36.30 177.23	13.4737 5608171	6.7368 110397	65.96 1675	42.65 1083	87.44 2221	58.31 1481	50.06 1272	51.73 1314	97.12 2467
18HD19-6 4" x 3/8"	53.49 261.18	20.2105 8412256	10.1053 165596	75.45 1916	57.97 1472	99.67 2532	68.97 1752	66.52 1690	68.14 1731	111.15 2823
20HD19-4 4 1/2" x 1/4"	40.60 198.22	19.1842 7985071	8.5263 139721	74.16 1884	50.79 1290	97.98 2489	67.81 1722	61.90 1572	64.54 1639	109.24 2775
20HD19-6 4 1/2" x 3/8"	59.94 292.65	28.7763 11977607	12.7895 209582	84.86 2156	67.12 1705	111.81 2840	77.38 1966	74.80 1900	76.64 1947	125.05 3176
22HD19-4 5" x 1/4"	44.90 219.20	26.3158 10953459	10.5263 172495	82.38 2092	59.88 1521	108.60 2758	75.16 1909	72.62 1844	74.39 1890	121.37 3083
22HD19-6 5" x 3/8"	72.84 355.61	52.5395 21868580	19.1053 313079	103.64 2632	81.51 2070	136.16 3458	94.28 2395	91.32 2319	93.62 2378	152.77 3880

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