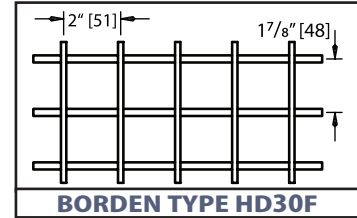
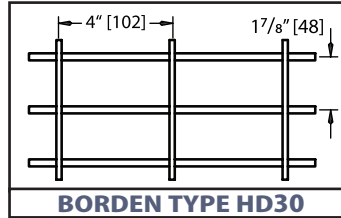


# BORDEN GRATINGS

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## Heavy Duty Grating

### WHEEL LOADS



Grating Type	Weight lbs./ft <sup>2</sup> kg/m <sup>2</sup>	Moment of Inertia in. <sup>4</sup> mm <sup>4</sup>	Section Modulus in. <sup>3</sup> mm <sup>3</sup>	Span (inches) (mm)						
				CL-625 parallel	CL-625 perpendicular	OBC	H20	5 TON	3 ton	Car Traffic
8HD30-4 1 1/2" x 1/4"	10.08	0.4500	0.6000	11.12	15.03	27.73	14.57	9.88	8.43	25.17
	49.22	187304	9832	282	382	704	370	251	214	639
8HD30-6 1 1/2" x 3/8"	14.16	0.6750	0.9000	14.18	16.55	31.70	16.85	12.07	10.89	32.69
	69.16	280956	14748	360	420	805	428	306	277	830
9HD30-4 1 3/4" x 1/4"	11.44	0.7146	0.8167	13.33	16.13	32.34	16.22	11.46	10.20	32.82
	55.86	297432	13383	339	410	821	412	291	259	834
9HD30-6 1 3/4" x 3/8"	16.21	1.0719	1.2250	17.50	18.19	37.55	19.33	14.44	13.56	40.96
	79.12	446148	20074	444	462	954	491	367	344	1040
10HD30-4 2" x 1/4"	12.80	1.0667	1.0667	15.88	17.39	37.48	18.12	13.28	12.26	40.87
	62.51	443980	17480	403	442	952	460	337	311	1038
10HD30-6 2" x 3/8"	18.25	1.6000	1.6000	21.32	20.09	44.05	22.18	17.17	16.63	49.89
	89.09	665970	26219	542	510	1119	563	436	423	1267
11HD30-4 2 1/4" x 1/4"	14.16	1.5188	1.3500	18.77	18.82	43.12	20.28	15.35	14.58	48.63
	69.16	632151	22123	477	478	1095	515	390	370	1235
11HD30-6 2 1/4" x 3/8"	20.29	2.2781	2.0250	25.66	22.24	50.78	25.41	20.27	20.12	56.12
	99.06	948227	33184	652	565	1290	646	515	511	1425
12HD30-4 2 1/2" x 1/4"	15.53	2.0833	1.6667	22.00	20.42	49.22	22.69	17.66	17.18	54.48
	75.80	867149	27312	559	519	1250	576	449	436	1384
12HD30-6 2 1/4" x 3/8"	22.33	3.1250	2.5000	30.50	24.64	55.90	29.03	23.74	24.02	62.30
	109.03	1300723	40968	775	626	1420	737	603	610	1582
13HD30-4 2 3/4" x 1/4"	16.89	2.7729	2.0167	25.57	22.19	53.90	25.35	20.21	20.06	59.89
	82.45	1154175	33047	650	564	1369	644	513	509	1521
14HD30-4 3" x 1/4"	18.25	3.6000	2.4000	29.48	24.13	58.39	28.27	23.01	23.20	65.31
	89.09	1498433	39329	749	613	1483	718	584	589	1659
14HD30-6 3" x 3/8"	26.41	5.4000	3.6000	41.72	30.20	66.24	37.40	31.76	33.05	74.72
	128.96	2247650	58993	1060	767	1683	950	807	840	1898
16HD30-4 3 1/2" x 1/4"	20.97	5.7167	3.2667	38.32	28.51	67.44	34.87	29.33	30.32	76.14
	102.38	2379456	53531	973	724	1713	886	745	770	1934
16HD30-6 3 1/2" x 3/8"	30.50	8.5750	4.9000	54.98	36.77	76.67	47.30	41.24	43.73	87.13
	148.90	3569184	80297	1397	934	1948	1201	1048	1111	2213
18HD30-4 4" x 1/4"	23.69	8.5333	4.2667	48.52	33.57	76.56	42.48	36.62	38.53	86.99
	115.67	3551841	69918	1232	853	1945	1079	930	979	2209
18HD30-6 4" x 3/8"	34.58	12.8000	6.4000	65.97	44.35	87.17	58.72	52.19	56.04	99.54
	168.84	5327762	104877	1676	1126	2214	1491	1326	1423	2528
20HD30-4 4 1/2" x 1/4"	26.41	12.1500	5.4000	60.08	39.29	85.72	51.11	44.89	47.83	97.83
	128.96	5057212	88490	1526	998	2177	1298	1140	1215	2485
20HD30-6 4 1/2" x 3/8"	38.66	18.2250	8.1000	74.16	52.94	97.70	67.99	64.59	68.92	111.96
	188.77	7585818	132735	1884	1345	2482	1727	1641	1750	2844
22HD30-4 5" x 1/4"	29.14	16.6667	6.6667	72.00	45.70	94.91	60.75	54.13	58.23	108.68
	142.26	6937190	109247	1829	1161	2411	1543	1375	1479	2760
22HD30-6 5" x 3/8"	48.63	33.2750	12.1000	90.56	72.75	118.84	82.74	81.06	84.18	136.80
	228.65	13850101	198283	2300	1848	3019	2102	2059	2138	3475

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