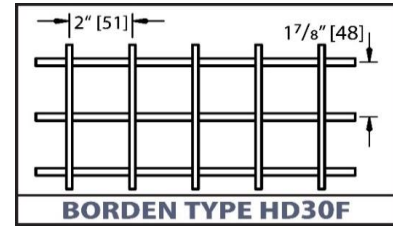
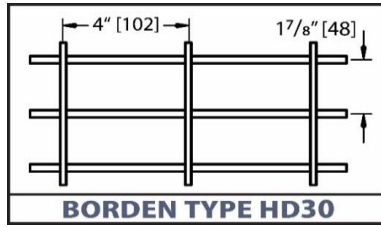




www.bordengratings.com

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	CL-625		OBC				H20	5 TON	3 ton	1 ton	Car		
				Span L in. mm	Span L in. mm	> 9000 kg		Span L in. mm	Span L in. mm	Span L in. mm	Span L in. mm	Span L in. mm	Span L in. mm	Span L in. mm	Span L in. mm	Span L in. mm
						parallel	perpendicular									
8HD30-4	10.08	0.4500	0.6000	11.12	15.03	13.25	15.95	5.58	8.81	14.57	9.88	8.43	11.05	17.71		
1 1/2"x1/4"	49.22	187304	9832	282	382	336	405	142	224	370	251	214	281	450		
8HD30-6	14.16	0.6750	0.9000	14.18	16.55	17.41	18.01	7.20	12.03	16.85	12.07	10.89	15.57	24.31		
1 1/2"x3/8"	69.16	280956	14748	360	420	442	458	183	306	428	306	277	396	618		
9HD30-4	11.44	0.7146	0.8167	13.33	16.13	16.25	17.44	6.75	11.13	16.22	11.46	10.20	14.32	22.48		
1 3/4"x1/4"	55.86	297432	13383	339	410	413	443	171	283	412	291	259	364	571		
9HD30-6	16.21	1.0719	1.2250	17.50	18.19	21.92	20.25	8.94	15.52	19.32	14.44	13.56	20.47	31.47		
1 3/4"x3/8"	79.12	446148	20074	444	462	557	514	227	394	491	367	344	520	799		
10HD30-4	12.80	1.0667	1.0667	15.88	17.39	19.72	19.16	8.09	13.82	18.12	13.28	12.26	18.09	27.98		
2"x1/4"	62.51	443980	17480	403	442	501	487	205	351	460	337	311	459	711		
10HD30-6	18.25	1.6000	1.6000	21.32	20.09	27.12	22.84	10.95	19.55	22.18	17.17	16.63	26.13	39.67		
2"x3/8"	89.09	665970	26219	542	510	689	580	278	496	563	436	423	664	1008		
11HD30-4	14.16	1.5188	1.3500	18.77	18.82	23.65	21.11	9.61	16.86	20.28	15.35	14.58	22.36	34.22		
2 1/4"x1/4"	69.16	632151	22123	477	478	601	536	244	428	515	390	370	568	869		
11HD30-6	20.29	2.2781	2.0250	25.66	22.24	33.02	25.76	13.24	24.11	25.41	20.27	20.12	32.54	47.15		
2 1/4"x3/8"	99.06	948227	33184	652	565	839	654	336	612	646	515	511	826	1198		
12HD30-4	15.53	2.0833	1.6667	22.00	20.42	28.05	23.30	11.31	20.26	22.69	17.66	17.18	27.13	41.19		
2 1/2"x1/4"	75.80	867149	27312	559	519	712	592	287	515	576	449	436	689	1046		
12HD30-6	22.33	3.1250	2.5000	30.50	24.64	39.61	29.04	15.79	29.21	29.03	23.74	24.02	39.70	53.35		
2 1/2"x3/8"	109.03	1300723	40968	775	626	1006	738	401	742	737	603	610	1008	1355		
13HD30-4	16.89	2.7729	2.0167	25.57	22.19	32.90	25.71	13.19	24.02	25.35	20.21	20.06	32.41	48.90		
2 3/4"x1/4"	82.45	1154175	33047	650	564	836	653	335	610	644	513	509	823	1242		
14HD30-4	18.25	3.6000	2.4000	29.48	24.13	38.22	28.35	15.25	28.14	28.27	23.01	23.20	38.19	55.90		
3"x1/4"	89.09	1498433	39329	749	613	971	720	387	715	718	584	589	970	1420		
14HD30-6	26.41	5.4000	3.6000	41.72	30.20	54.87	36.62	21.69	41.03	37.40	31.76	33.05	56.21	63.93		
3"x3/8"	128.96	2247650	58993	1060	767	1394	930	551	1042	950	807	840	1428	1624		
16HD30-4	20.97	5.7167	3.2667	38.32	28.51	50.25	34.32	19.90	37.45	34.87	29.33	30.32	51.26	65.15		
3 1/2"x1/4"	102.38	2379456	53531	973	724	1276	872	506	951	886	745	770	1302	1655		
16HD30-6	30.50	8.5750	4.9000	54.98	36.77	63.97	45.57	28.67	54.99	47.30	41.24	43.73	65.57	74.53		
3 1/2"x3/8"	148.90	3569184	80297	1397	934	1625	1158	728	1397	1201	1048	1111	1665	1893		
18HD30-4	23.69	8.5333	4.2667	48.52	33.57	63.87	41.21	25.27	48.19	42.48	36.62	38.53	65.46	74.41		
4"x1/4"	115.67	3551841	69918	1232	853	1622	1047	642	1224	1079	930	979	1663	1890		
18HD30-6	34.58	12.8000	6.4000	65.97	44.35	73.04	55.91	36.73	66.93	58.72	52.19	56.04	74.92	85.13		
4"x3/8"	168.84	5327762	104877	1676	1126	1855	1420	933	1700	1491	1326	1423	1903	2162		
20HD30-4	26.41	12.1500	5.4000	60.08	39.29	71.79	49.02	31.36	60.36	51.11	44.89	47.83	73.64	83.66		
4 1/2"x1/4"	128.96	5057212	88490	1526	998	1824	1245	797	1533	1298	1140	1215	1870	2125		
20HD30-6	38.66	18.2250	8.1000	81.20	52.94	82.13	66.21	45.86	75.29	67.99	64.59	68.92	84.28	95.73		
4 1/2"x3/8"	188.77	7585818	132735	2063	1345	2086	1682	1165	1912	1727	1641	1750	2141	2432		
22HD30-4	29.14	16.6667	6.6667	73.00	45.70	79.73	57.75	38.16	73.08	60.75	54.13	58.23	81.81	92.90		
5"x1/4"	142.26	6937190	109247	1854	1161	2025	1467	969	1856	1543	1375	1479	2078	2360		
22HD30-6	43.39	25.0000	10.0000	90.18	62.54	91.21	73.28	56.06	83.64	75.36	73.74	76.55	93.64	106.34		
5"x3/8"	211.83	10405786	163871	2291	1589	2317	1861	1424	2125	1914	1873	1944	2378	2701		

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 1/4	9 3/8	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 3/8	9 1/4	11 3/8	13 1/2	15 3/8	17 1/4	19 3/8	21	22 7/8	24 3/4	26 5/8	28 1/2	30 3/8	32 1/4	34 1/8	36

Table compiled as per ANSI/NAAMM MBG 534-14

Revised April 2019