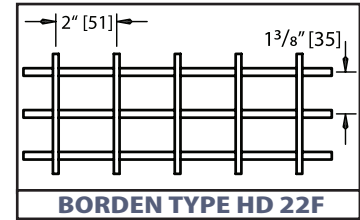
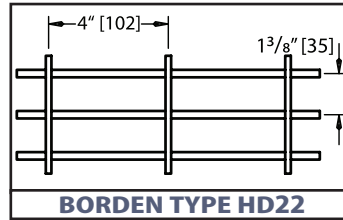


BORDEN GRATINGS

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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
8HD22-4 1 1/2" x 1/4"	13.05 63.72	0.6136 255415	0.8182 13408	13.05 331	15.83 402	30.36 771	15.97 406	11.06 281	9.59 244	29.90 759
8HD22-6 1 1/2" x 3/8"	18.62 90.90	0.9205 383122	1.2273 20111	17.07 434	17.75 451	35.04 890	18.95 481	13.85 352	12.64 321	36.40 924
9HD22-4 1 3/4" x 1/4"	14.91 72.78	0.9744 405589	1.1136 18249	15.95 405	17.22 437	35.79 909	18.12 460	13.07 332	11.79 300	37.42 951
9HD22-6 1 3/4" x 3/8"	21.40 104.50	1.4616 608384	1.6705 27374	21.43 544	19.83 504	41.93 1065	22.18 563	16.86 428	15.94 405	45.66 1160
10HD22-4 2" x 1/4"	16.76 81.84	1.4545 605428	1.4545 23836	19.30 490	18.82 478	41.84 1063	20.61 523	15.39 391	14.33 364	45.55 1157
10HD22-6 2" x 3/8"	24.19 118.09	2.1818 908141	2.1818 35754	26.45 672	22.23 565	49.54 1258	25.91 658	20.34 517	19.74 502	53.70 1364
11HD22-4 2 1/4" x 1/4"	18.62 90.90	2.0710 862025	1.8409 30167	23.10 587	20.63 524	48.45 1231	23.42 595	18.02 458	17.21 437	52.78 1341
11HD22-6 2 1/4" x 3/8"	26.97 131.68	3.1065 1293037	2.7614 45251	32.15 817	24.94 634	55.29 1404	30.13 765	24.28 617	24.06 611	60.37 1533
12HD22-4 2 1/2" x 1/4"	20.47 99.97	2.8409 1182476	2.2727 37243	27.35 695	22.65 575	53.80 1367	26.57 675	20.95 532	20.42 519	58.61 1489
12HD22-6 2 1/2" x 3/8"	29.76 145.28	4.2614 1773713	3.4091 55865	38.52 978	27.98 711	60.95 1548	34.86 885	28.68 729	28.88 734	69.56 1767
13HD22-4 2 3/4" x 1/4"	22.33 109.03	3.7813 1573875	2.7500 45064	32.04 814	24.89 632	58.74 1492	30.05 763	24.20 615	23.98 609	64.43 1637
14HD22-4 3" x 1/4"	24.19 118.09	4.9091 2043318	3.2727 53630	37.18 944	27.34 694	63.70 1618	33.86 860	27.76 705	27.87 708	70.26 1785
14HD22-6 3" x 3/8"	35.32 172.46	7.3636 3064977	4.9091 80446	53.27 1353	35.01 889	72.36 1838	45.80 1163	38.88 988	40.05 1017	80.39 2042
16HD22-4 3 1/2" x 1/4"	27.90 136.21	7.7955 3244713	4.4545 72997	48.80 1240	32.88 835	73.68 1872	42.48 1079	35.79 909	36.67 931	81.93 2081
16HD22-6 3 1/2" x 3/8"	40.89 199.65	11.6932 4867070	6.6818 109495	63.26 1607	43.32 1100	83.86 2130	58.10 1476	50.94 1294	53.25 1353	93.75 2381
18HD22-4 4" x 1/4"	31.61 154.34	11.6364 4843420	5.8182 95343	62.21 1580	39.27 997	83.73 2127	52.42 1332	45.06 1145	46.82 1189	93.60 2377
18HD22-6 4" x 3/8"	46.46 226.84	17.4545 7265130	8.7273 143014	72.23 1835	52.90 1344	95.41 2423	66.12 1679	63.98 1625	65.75 1670	107.12 2721
20HD22-4 4 1/2" x 1/4"	35.32 172.46	16.5682 6896198	7.3636 120668	70.99 1803	46.51 1181	93.82 2383	63.69 1618	55.57 1412	58.33 1481	105.27 2674
20HD22-6 4 1/2" x 3/8"	52.03 254.02	24.8523 10344297	11.0455 181003	81.21 2063	63.77 1620	107.00 2718	74.17 1884	71.91 1826	73.94 1878	120.48 3060
22HD22-4 5" x 1/4"	39.04 190.59	22.7273 9459805	9.0909 148973	78.84 2002	54.61 1387	103.94 2640	72.04 1830	67.32 1710	71.19 1808	116.95 2971
22HD22-6 5" x 3/8"	58.23 283.32	34.0909 14189708	13.6364 223460	90.17 2290	71.55 1817	118.60 3013	82.23 2089	79.83 2028	82.12 2086	133.83 3399

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 5/8	3	4 3/8	5 3/4	7 1/8	8 1/2	9 7/8	11 1/4	12 5/8	14	15 3/8	16 3/4	18 1/8	19 1/2	20 7/8	22 1/4	23 5/8
3/8" Bars	1 3/4	3 1/8	4 1/2	5 7/8	7 1/4	8 5/8	10	11 3/8	12 3/4	14 1/8	15 1/2	16 7/8	18 1/4	19 5/8	21	22 3/8	23 3/4
# Bars	19	20	21	22	23	24	25	26	27								
1/4" Bars	25	26 3/8	27 3/4	29 1/8	30 1/2	31 7/8	33 1/4	34 5/8	36								
3/8" Bars	25 1/8	26 1/2	27 7/8	29 1/4	30 5/8	32	33 3/8	34 3/4	36 1/8								