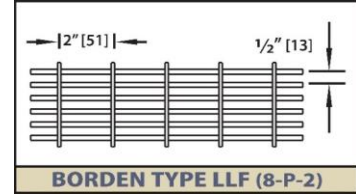


Free air % for 1/8" bars: 72.66%  
Free air % for 3/16" bars: 60.55%



Free air % for 1/8" bars: 70.31%  
Free air % for 3/16" bars: 58.59%

Grating type	Weight lbs./ft. <sup>2</sup> kg/m <sup>2</sup>	I in. <sup>4</sup> mm <sup>4</sup>	S in. <sup>3</sup> mm <sup>3</sup>	CL-625		OBC				H20	5 TON	3 ton	1 ton	Car
				Span L in. mm	Span L in. mm	veh>9000 kg		4000kg<veh<9000kg	4000kg > veh					
						parallel	perpendicular							
LL-1	9.57	0.1055	0.2813	7.33	13.02	8.08	13.20	3.28	4.20	11.70	7.00	5.05	4.46	8.87
3/4"x1/8"	46.73	43899	4609	186	331	205	335	83	107	297	178	128	113	225
LL-2	13.40	0.1582	0.4219	8.49	13.54	9.66	13.90	3.74	5.12	12.56	7.75	5.82	5.69	11.06
3/4"x3/16"	65.42	65849	6913	216	344	245	353	95	130	319	197	148	145	281
LL-3	12.12	0.2500	0.5000	9.14	13.82	10.54	14.28	3.99	5.63	13.03	8.17	6.25	6.38	12.27
1"x1/8"	59.19	104058	8194	232	351	268	363	101	143	331	208	159	162	312
LL-4	17.23	0.3750	0.7500	11.20	14.73	13.35	15.52	4.81	7.26	14.54	9.51	7.62	8.57	16.16
1"x3/16"	84.11	156087	12290	285	374	339	394	122	184	369	241	194	218	410
LL-5	14.67	0.4883	0.7813	11.46	14.84	13.70	15.68	4.91	7.46	14.73	9.67	7.80	8.84	16.64
1 1/4"x1/8"	71.65	203238	12802	291	377	348	398	125	190	374	246	198	225	423
LL-6	21.05	0.7324	1.1719	14.69	16.26	18.09	17.61	6.19	10.01	17.10	11.76	9.94	12.26	22.71
1 1/4"x3/16"	102.80	304857	19204	373	413	459	447	157	254	434	299	253	311	577
LL-7	17.23	0.8438	1.1250	14.30	16.09	17.56	17.38	6.03	9.71	16.81	11.51	9.69	11.85	21.98
1 1/2"x1/8"	84.11	351195	18435	363	409	446	441	153	247	427	292	246	301	558
LL-8	24.88	1.2656	1.6875	18.96	18.14	23.88	20.16	7.87	13.38	20.22	14.51	12.78	16.78	30.72
1 1/2"x3/16"	121.49	526793	27653	482	461	607	512	200	340	514	369	325	426	780
LL-9	28.71	2.0098	2.2969	24.00	20.36	30.72	23.17	9.86	17.36	23.91	17.77	16.13	22.11	39.38
1 3/4"x3/16"	140.18	836528	37639	610	517	780	589	250	441	607	451	410	562	1000
LL-10	32.54	3.0000	3.0000	29.81	22.92	38.62	26.65	12.16	21.95	28.17	21.52	19.99	28.27	47.90
2"x3/16"	158.87	1248694	49161	757	582	981	677	309	558	716	547	508	718	1217
LL-11	36.37	4.2715	3.7969	36.40	25.82	47.57	30.59	14.76	27.15	33.00	25.78	24.38	35.25	54.58
2 1/4"x3/16"	177.56	1777926	62220	925	656	1208	777	375	690	838	655	619	895	1386
LL-12	40.20	5.8594	4.6875	43.77	29.06	54.48	35.00	17.66	32.97	38.40	30.54	29.27	43.05	60.60
2 1/2"x3/16"	196.25	2438856	76814	1112	738	1384	889	449	837	975	776	744	1093	1539
LL-13	44.02	7.7988	5.6719	51.91	32.64	59.87	39.87	20.88	39.39	44.36	35.79	34.69	51.67	66.62
2 3/4"x3/16"	214.94	3246117	92945	1319	829	1521	1013	530	1001	1127	909	881	1312	1692
LL-14	47.85	10.1250	6.7500	58.99	36.56	65.27	45.20	24.40	46.43	50.89	41.55	40.61	59.89	72.64
3"x3/16"	233.63	4214343	110613	1498	929	1658	1148	620	1179	1293	1055	1032	1521	1845

All loads and deflections are based on gross sections and nominal sizes of bearing bars. The values listed are for design selection only and are not intended to be "absolute".

Actual load capacity will be affected slightly by variations which can be expected due to material and manufacturing tolerances.

1/4" is considered the maximum deflection which is consistent with pedestrian comfort, but may be exceeded for other application at the discretion of the Engineer.

When serrated gratings are specified, increase the depth of the grating selected from the table by 1/4" to allow for the serrations.

PANEL WIDTHS (inches)														
# Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	
3/16"	11/16	1 3/16	1 11/16	2 3/16	2 11/16	3 3/16	3 11/16	4 3/16	4 11/16	5 3/16	5 11/16	6 3/16	6 11/16	
1/8"	5/8	1 1/8	1 5/8	2 1/8	2 5/8	3 1/8	3 5/8	4 1/8	4 5/8	5 1/8	5 5/8	6 1/8	6 5/8	
# Bars	15	16	17	18	19	20	21	22	23	24	25	26	27	
3/16"	7 3/16	7 11/16	8 3/16	8 11/16	9 3/16	9 11/16	10 3/16	10 11/16	11 3/16	11 11/16	12 3/16	12 11/16	13 3/16	
1/8"	7 1/8	7 5/8	8 1/8	8 5/8	9 1/8	9 5/8	10 1/8	10 5/8	11 1/8	11 5/8	12 1/8	12 5/8	13 1/8	
# Bars	28	29	30	31	32	33	34	35	36	37	38	39	40	
3/16"	13 11/16	14 3/16	14 11/16	15 3/16	15 11/16	16 3/16	16 11/16	17 3/16	17 11/16	18 3/16	18 11/16	19 3/16	19 11/16	
1/8"	13 5/8	14 1/8	14 5/8	15 1/8	15 5/8	16 1/8	16 5/8	17 1/8	17 5/8	18 1/8	18 5/8	19 1/8	19 5/8	
# Bars	41	42	43	44	45	46	47	48	49	50	51	52	53	
3/16"	20 3/16	20 11/16	21 3/16	21 11/16	22 3/16	22 11/16	23 3/16	23 11/16	24 3/16	24 11/16	25 3/16	25 11/16	26 3/16	
1/8"	20 1/8	20 5/8	21 1/8	21 5/8	22 1/8	22 5/8	23 1/8	23 5/8	24 1/8	24 5/8	25 1/8	25 5/8	26 1/8	
# Bars	54	55	56	57	58	59	60	61	62	63	64	65	66	
3/16"	26 11/16	27 3/16	27 11/16	28 3/16	28 11/16	29 3/16	29 11/16	30 3/16	30 11/16	31 3/16	31 11/16	32 3/16	32 11/16	
1/8"	26 5/8	27 1/8	27 5/8	28 1/8	28 5/8	29 1/8	29 5/8	30 1/8	30 5/8	31 1/8	31 5/8	32 1/8	32 5/8	
# Bars	67	68	69	70	71	72								
3/16"	33 3/16	33 11/16	34 3/16	34 11/16	35 3/16	35 11/16								
1/8"	33 1/8	33 5/8	34 1/8	34 5/8	35 1/8	35 5/8								

Table Compiled as per ANSI/NAAMM MBG 534-14

Revised Sept. 2019