

Load Table of Heavy Duty Steel Bar Grating

Grating Type	Bearing Bar size (mm)	Approx Weight (kg/m ²)	Deflection	Span (mm)															
				200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	
G1508/40/100	150x8	284.9	U	25500	6375	2833	1593	1020	708	520	398	314	255	210	177	150	130	113	
			D	0.05	0.18	0.41	0.73	1.15	1.66	2.26	2.95	3.74	4.63	5.6	6.7	7.85	9.17	10.54	
			C	2550	1275	850	637	510	425	384	318	283	255	231	212	196	182	170	
			D	0.04	0.15	0.33	0.59	0.92	1.33	1.81	2.36	3	3.72	4.5	5.37	6.34	7.38	8.51	
G1308/40/100	130x8	247.6	U	19153	4788	2128	1197	766	532	390	299	236	191	158	133	113	97	85	
			D	0.05	0.21	0.48	0.85	1.33	1.91	2.6	3.41	4.32	5.34	6.49	7.76	9.11	10.6	12.2	
			C	1915	957	638	478	383	319	273	239	212	191	174	159	147	136	127	
			D	0.04	0.17	0.39	0.68	1.08	1.53	2.09	2.73	3.46	4.29	5.22	6.21	7.33	8.5	9.81	
G1208/40/100	120x8	229.0	U	16320	4080	1813	1020	653	453	333	255	201	183	134	113	96	83	72	
			D	0.06	0.23	0.52	0.92	1.44	2.07	2.83	3.7	4.58	5.8	7	8.39	9.85	11.5	13.2	
			C	1632	818	644	408	326	272	233	204	181	163	148	136	125	116	108	
			D	0.05	0.18	0.41	0.74	1.15	1.66	2.26	2.97	3.76	4.66	5.65	6.77	7.94	9.24	10.6	
G1008/40/100	100x8	191.7	U	11333	2833	1259	708	453	314	231	177	139	113	93	78	67	57	50	
			D	0.07	0.28	0.62	1.1	1.73	2.48	3.39	4.45	5.61	6.97	8.43	10.1	11.94	13.7	15.9	
			C	1133	566	377	283	226	188	161	141	125	113	103	94	87	80	75	
			D	0.06	0.22	0.5	0.88	1.38	1.99	2.71	3.56	4.5	5.6	6.82	8.12	9.6	11.1	12.9	
G908/40/100	90x8	173.1	U	9180	2295	1020	573	387	255	187	143	113	91	75	63	54	46	40	
			D	0.08	0.31	0.69	1.72	1.92	2.77	3.77	4.93	6.26	7.72	9.35	11.2	13.2	15.3	17.6	
			C	918	459	306	229	183	153	131	114	102	91	83	76	70	65	51	
			D	0.06	0.24	0.55	0.98	1.53	2.22	3.03	3.94	5.04	6.2	7.56	9.04	10.6	12.4	14.4	
G808/40/100	80x8	154.4	U	7253	1813	805	453	290	201	148	113	89	72	59	50	42	37	32	
			D	0.09	0.34	0.77	1.38	2.16	3.11	4.25	5.56	7.04	8.71	10.5	12.7	14.7	17.5	20.1	
			C	725	382	241	181	145	120	103	90	80	72	65	60	55	51	48	
			D	0.07	0.27	0.62	1.1	1.73	2.48	3.39	4.44	5.65	7.01	8.47	10.2	12	14	16.3	
G758/40/100	75x8	145.1	U	6375	1593	708	398	255	177	130	99	78	63	52	44	37	32	28	
			D	0.09	0.37	0.83	4.47	2.31	3.33	4.54	5.92	7.5	9.27	11.2	13.6	15.8	18.5	21.4	
			C	637	318	212	159	127	106	91	79	70	63	57	53	49	45	42	
			D	0.07	0.29	0.68	1.18	1.84	2.66	3.64	4.74	6.01	7.45	9.03	11	13	15	17.3	
G756/30/100	75x6	140.1	U	6375	1593	708	398	255	177	130	99	78	63	52	44	37	32	28	
			D	0.09	0.37	0.83	1.47	2.3	3.33	4.54	5.91	7.49	9.26	11.2	13.5	15.8	18.4	21.4	
			C	637	318	212	159	127	108	91	79	70	63	57	53	49	45	42	
			D	0.07	0.29	0.66	1.18	1.84	2.66	3.64	4.74	6	7.45	9.02	11	13	15	17.3	
G756/40/100	75x6	110.1	U	4781	1195	531	298	191	132	97	74	59	47	39	33	28	24	21	
			D	0.09	0.37	0.83	1.47	2.3	3.31	4.52	5.9	7.56	9.22	11.3	13.6	15.9	18.5	21.4	
			C	478	239	159	119	95	79	68	59	53	47	43	39	38	34	31	
			D	0.07	0.29	0.66	1.17	1.83	2.64	3.63	4.72	6.06	7.42	9.08	10.8	12.7	15.1	17.1	
G706/30/100	70x6	131.1	U	6553	1388	617	347	222	154	113	86	68	65	45	38	32	28	24	
			D	0.1	0.39	0.89	1.58	2.47	3.56	4.85	6.32	8.04	9.96	12	14.4	16.8	19.9	22.6	
			C	556	277	185	138	111	92	79	69	61	66	50	46	42	39	37	
			D	0.08	0.31	0.71	1.26	1.98	2.84	3.89	5.09	6.44	8.01	9.75	11.7	13.7	16.1	18.8	
G706/40/100	70x6	103.2	U	4165	1041	482	260	166	115	85	65	51	41	34	28	24	21	18	
			D	0.1	0.39	0.88	1.58	2.46	3.55	4.87	6.38	8.05	9.91	12.1	14.2	16.9	19.9	22.7	
			C	416	208	138	104	83	69	59	52	46	41	37	34	32	29	27	
			D	0.08	0.31	0.71	1.26	1.97	2.84	3.88	5.12	6.48	7.98	9.64	11.6	14	15.9	18.4	

Remark

- ⊙ U: Safety uniformly distributed load (KN/sq.m)
- ⊙ C: Safety load on the center line perpendicular to the bearing bar direction (KN/m)
- ⊙ D: Maximum deflection under safe load (mm)

- ⊙ The Max deflection is less than 4mm when safety uniformly distributed load 2 KN/sq.m in the listed areas.
- ⊙ The theoretical weight in table is based on galvanized. The weight will be heavier than the listed weight when gratings length is less 1m.