

Load Table of Steel Grating with Bearing Bar Centres 20mm

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	
G605/20/50WG	60X5	138.3	U	5100	1275	566	318	204	141	104	79	62	51	42	35	30	26	22	
			D	0.11	0.46	1.03	1.84	2.88	4.15	5.69	7.4	9.34	11.8	14.3	16.9	20.1	23.6	26.6	
G605/20/100WG		135.3	C	510	255	170	127	102	85	72	63	56	51	46	42	39	36	34	
			D	0.09	0.37	0.83	1.47	2.31	3.34	4.51	5.92	7.54	9.4	11.5	13.7	16.3	18.9	22.2	
G555/20/50WG	55X5	127.3	U	4285	1071	476	267	171	119	87	66	52	42	35	29	25	21		
			D	0.13	0.5	1.13	2	3.14	4.55	6.18	8.04	1.2	12.6	15.5	18.3	21.9	24.9		
G555/20/100WG		124.3	C	428	214	142	107	85	71	61	53	47	42	38	35	32	30		
			D	0.1	0.4	0.9	1.61	2.5	6.63	4.97	6.48	8.2	10.2	12.3	14.9	17.5	20.6		
G505/20/50WG	50X5	116.3	U	3541	885	393	221	141	98	72	55	43	35	29	24	20			
			D	0.14	0.55	1.24	2.21	3.45	4.99	6.82	8.93	11.3	14	17.1	20.2	23.5			
G505/20/100WG		113.3	C	354	177	118	88	70	59	50	44	39	35	32	29	27			
			D	0.11	0.44	0.99	1.76	2.75	4.02	5.43	7.18	9.1	11.3	13.9	16.5	19.7			
G503/20/50WG	50X3	73.8	U	2125	531	236	132	85	59	43	33	26	21	17	14				
			D	0.14	0.55	1.24	2.2	3.47	5.01	6.79	8.94	11.4	14.1	16.8	19.8				
G503/20/100WG		70.8	C	212	106	70	53	42	35	30	26	23	21	19	17				
			D	0.11	0.44	0.98	1.77	2.75	3.98	5.44	7.08	8.99	11.3	13.8	16.2				
G455/20/50WG	45X5	105.2	U	2868	717	318	179	114	79	58	44	35	28	23	19				
			D	0.15	0.61	1.38	2.46	3.83	5.53	7.55	9.83	12.6	15.5	18.7	22.1				
G455/20/100WG		102.2	C	286	143	95	71	57	47	40	35	31	28	26	23				
			D	0.12	0.49	1.1	1.95	3.07	4.4	5.98	7.86	9.99	12.5	15.6	18.1				
G405/20/50WG	40X5	94.2	U	2266	566	251	141	90	62	46	35	27	22	18					
			D	0.17	0.69	1.55	2.76	4.31	6.19	8.55	11.2	13.9	17.4	21					
G405/20/100WG		91.2	C	226	113	75	56	45	37	32	28	25	22	20					
			D	0.14	0.55	1.23	2.19	3.46	4.94	6.83	8.99	11.5	14.1	17.2					
G403/20/50WG	40X3	60.3	U	1360	340	151	85	54	37	27	21	16	13						
			D	0.17	0.69	1.55	2.77	4.31	6.16	8.37	11.2	13.8	17.2						
G403/20/100WG		57.3	C	136	68	45	34	27	22	19	17	15	13						
			D	0.14	0.55	1.23	2.22	3.46	4.9	6.77	9.11	11.5	13.9						
G355/20/50WG	35X5	83.2	U	1735	433	192	108	69	48	35	27	21	17						
			D	0.2	0.79	1.77	3.15	4.94	7.16	9.74	12.9	16.2	20.2						
G355/20/100WG		80.2	C	173	86	57	43	34	28	24	21	19	17						
			D	0.16	0.62	1.4	2.52	3.91	5.6	7.68	10.1	13.2	16.3						
G353/20/50WG	35X3	53.5	U	1041	260	115	65	41	28	21	16	12							
			D	0.2	0.79	1.77	3.17	4.9	6.98	9.75	12.8	15.5							
G353/20/100WG		50.5	C	104	52	34	26	20	17	14	13	11							
			D	0.16	0.63	1.39	2.54	3.84	5.67	7.48	10.4	12.8							
G325/20/50WG	32X5	76.6	U	1450	362	161	90	58	40	29	22	17	14						
			D	0.21	0.86	1.94	3.44	5.44	7.82	10.6	13.8	17.3	21.9						
G325/20/100WG		73.6	C	145	72	48	36	29	24	20	18	16	14						
			D	0.17	0.68	1.54	2.76	4.37	6.29	9.4	11.4	14.6	17.7						
G323/20/50WG	32X3	49.4	U	870	217	96	54	34	24	17	13	10							
			D	0.21	0.86	1.93	3.44	5.32	7.83	10.4	13.6	17							
G323/20/100WG		46.4	C	87	43	29	21	17	14	12	10	9							
			D	0.17	0.68	1.56	2.69	4.27	6.13	8.42	10.6	13.7							
G255/20/50WG	25X5	61.1	U	885	221	98	55	35	24	18	13								
			D	0.28	1.1	2.48	4.42	6.91	9.9	13.9	17.3								
G255/20/100WG		58.1	C	88	44	29	22	17	14	12	11								
			D	0.22	0.88	1.96	3.55	5.4	7.76	10.7	14.8								
G253/20/50WG	25X3	39.9	U	531	132	59	33	21	14	10									
			D	0.28	1.1	2.49	4.43	6.92	9.66	12.9									
G253/20/100WG		36.9	C	53	26	17	13	10	8	7									
			D	0.22	0.66	1.92	3.5	5.3	7.42	10.4									
G205/20/50WG	20X5	50.1	U	568	141	62	35	22	15	11									
			D	0.34	1.37	3.07	5.51	8.53	12.2	16.7									
G205/20/100WG		47.0	C	56	28	18	14	11	9	8									
			D	0.27	1.09	2.38	4.43	6.86	9.82	14									
G203/20/50WG	20X3	33.1	U	340	85	37	21	13	9										
			D	0.34	1.38	3.06	5.52	8.42	12.2										
G203/20/100WG		30.1	C	34	17	11	8	6	5										
			D	0.28	1.11	2.43	4.23	6.27	9.16										

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 load and deflection listed in the table should be multiplied by serrated coefficient when adopting serrated steel gratings
- ⊙ The theoretical weight in table is based on galvanized. The weight will be heavier than the listed weight when gratings length is less 1m.