

LOAD TABLES | STANDARD, IMPERIAL

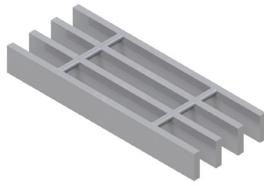
LOAD TABLES - CLOSE-MESH

Grating Type: 15W4

Design Code: NAAMM MBG 534

Material: ASTM A1011CS Type B

Surface: Smooth



U = Safe Uniform Load (lbs/ft²)

D_u = Deflection Due to Safe Uniform Load (in)

C = Safe Concentrated Load (lbs/ft of grating width)

D_c = Deflection Due to Safe Concentrated Load (in)

Allowable Extreme Fiber Stress = 18 ksi

Bearing Bar Size (inches)	Approx. Weight (lbs/ft ²)	Ped. Span (inches)	Load / Deflection	Span (ft-in)												Section Properties S _x (in ³)/ft I _x (in ⁴)/ft	
				2' - 0"	2' - 6"	3' - 0"	3' - 6"	4' - 0"	4' - 6"	5' - 0"	5' - 6"	6' - 0"	6' - 6"	7' - 0"	7' - 6"	8' - 0"	
				U	800	512	356	261	200	158	128	96	64	40	24	12	
1" x 1/8"	6.27	55	U	800	512	356	261	200	158	128	96	64	40	24	12	0.267	
			D _u	0.07	0.12	0.17	0.23	0.30	0.38	0.47	0.56	0.65	0.74	0.83	0.92	0.98	0.133
			C	800	640	533	457	400	356	320	288	256	200	144	80	32	0.400
			D _c	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.44	0.51	0.58	0.65	0.72	0.78	0.200
1" x 3/16"	9.03	60	U	1,200	768	533	392	300	237	192	156	120	84	56	32	16	0.417
			D _u	0.07	0.12	0.17	0.23	0.30	0.38	0.47	0.56	0.65	0.74	0.83	0.92	0.98	0.260
			C	1,200	960	800	686	600	533	480	424	368	312	256	144	72	36
			D _c	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.44	0.51	0.58	0.65	0.72	0.78	0.200
1 1/4" x 1/8"	7.65	65	U	1,250	800	556	408	313	247	200	165	132	96	64	32	16	0.417
			D _u	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45	0.53	0.61	0.69	0.77	0.85	0.260
			C	1,250	1,000	833	714	625	556	500	455	400	356	288	144	72	36
			D _c	0.05	0.07	0.11	0.15	0.19	0.24	0.30	0.37	0.44	0.51	0.58	0.65	0.72	0.200
1 1/4" x 3/16"	11.10	71	U	1,875	1,200	833	612	469	370	300	248	208	176	144	80	32	0.625
			D _u	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45	0.54	0.63	0.72	0.81	0.89	0.391
			C	1,875	1,500	1,250	1,071	938	833	750	682	625	568	512	456	400	200
			D _c	0.05	0.07	0.11	0.15	0.19	0.24	0.30	0.37	0.44	0.51	0.58	0.65	0.72	0.200
1 1/2" x 1/8"	9.03	74	U	1,800	1,152	800	588	450	356	288	238	200	170	144	80	32	0.600
			D _u	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.52	0.60	0.68	0.76	0.450
			C	1,800	1,440	1,200	1,029	900	800	720	655	600	554	500	456	400	200
			D _c	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.48	0.54	0.60	0.200
1 1/2" x 3/16"	13.18	82	U	2,700	1,728	1,200	882	675	533	432	357	300	256	220	112	56	0.900
			D _u	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.52	0.61	0.69	0.77	0.675
			C	2,700	2,160	1,800	1,543	1,350	1,200	1,080	982	900	831	771	712	656	500
			D _c	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.63	0.200
1 3/4" x 3/16"	15.25	92	U	3,675	2,352	1,633	1,200	919	726	588	486	408	348	300	261	230	1.225
			D _u	0.04	0.07	0.10	0.13	0.17	0.22	0.27	0.32	0.38	0.45	0.52	0.60	0.68	1.072
			C	3,675	2,940	2,450	2,100	1,838	1,633	1,470	1,336	1,225	1,131	1,050	980	919	712
			D _c	0.03	0.05	0.08	0.10	0.14	0.17	0.21	0.26	0.31	0.36	0.42	0.48	0.54	0.200
2" x 3/16"	17.32	102	U	4,800	3,072	2,133	1,567	1,200	948	768	635	533	454	392	341	300	1.600
			D _u	0.04	0.06	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.39	0.46	0.52	0.60	1.600
			C	4,800	3,840	3,200	2,743	2,400	2,133	1,920	1,745	1,600	1,477	1,371	1,280	1,200	1.600
			D _c	0.03	0.05	0.07	0.09	0.12	0.15	0.19	0.23	0.27	0.31	0.36	0.42	0.48	0.200
2 1/2" x 3/16"	21.46	120	U	7,500	4,800	3,333	2,449	1,875	1,481	1,200	992	833	710	612	533	469	2.500
			D _u	0.03	0.05	0.07	0.09	0.12	0.15	0.19	0.23	0.27	0.31	0.36	0.42	0.48	2.500
			C	7,500	6,000	5,000	4,286	3,750	3,333	3,000	2,727	2,500	2,308	2,143	2,000	1,875	3.125
			D _c	0.02	0.04	0.05	0.07	0.10	0.12	0.15	0.18	0.21	0.25	0.29	0.34	0.38	0.200

Spans and loads in red exceed a deflection of 1/4" for uniform loads of 100 lbs./sq. ft. Experience has shown that 1/4" deflection is the maximum deflection to give pedestrian comfort, but can be exceeded for other types of loads at the discretion of the specifying professional.

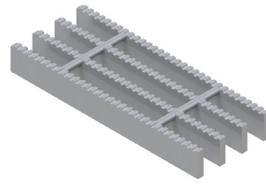
LOAD TABLES - CLOSE-MESH

Grating Type: 15W4

Design Code: NAAMM MBG 534

Material: ASTM A1011CS Type B

Surface: Serrated



U = Safe Uniform Load (lbs/ft²)

D_u = Deflection Due to Safe Uniform Load (in)

C = Safe Concentrated Load (lbs/ft of grating width)

D_c = Deflection Due to Safe Concentrated Load (in)

Allowable Extreme Fiber Stress = 18 ksi

Bearing Bar Size (inches)	Approx. Weight (lbs/ft ²)	Ped. Span (inches)	Load / Deflection	Span (ft-in)												Section Properties S _x (in ³)/ft I _x (in ⁴)/ft		
				2' - 0"	2' - 6"	3' - 0"	3' - 6"	4' - 0"	4' - 6"	5' - 0"	5' - 6"	6' - 0"	6' - 6"	7' - 0"	7' - 6"			
				U	450	288	200	147	113									
1" x 1/8"	6.27	44	U D _u C D _c	D _u	0.10	0.16	0.22	0.30	0.40							0.150		
				C	450	360	300	257	225							0.056		
				D _c	0.08	0.12	0.18	0.24	0.32									
				U	675	432	300	220	169	133						0.225		
1" x 3/16"	9.03	49	U D _u C D _c	D _u	0.10	0.16	0.22	0.30	0.40	0.50						0.084		
				C	675	540	450	386	338	300								
				D _c	0.08	0.12	0.18	0.24	0.32	0.40								
				U	800	512	356	261	200	158	128						0.267	
1 1/4" x 1/8"	7.65	55	U D _u C D _c	D _u	0.07	0.12	0.17	0.23	0.30	0.38	0.47					0.133		
				C	800	640	533	457	400	356	320							
				D _c	0.06	0.09	0.13	0.18	0.24	0.30	0.37							
				U	1,200	768	533	392	300	237	192						0.400	
1 1/4" x 3/16"	11.10	60	U D _u C D _c	D _u	0.07	0.12	0.17	0.23	0.30	0.38	0.47					0.200		
				C	1,200	960	800	686	600	533	480							
				D _c	0.06	0.09	0.13	0.18	0.24	0.30	0.37							
				U	1,250	800	556	408	313	247	200	165					0.417	
1 1/2" x 1/8"	9.03	65	U D _u C D _c	D _u	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45				0.260		
				C	1,250	1,000	833	714	625	556	500	455						
				D _c	0.05	0.07	0.11	0.15	0.19	0.24	0.30	0.36						
				U	1,875	1,200	833	612	469	370	300	248	208				0.625	
1 1/2" x 3/16"	13.18	71	U D _u C D _c	D _u	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45				0.391		
				C	1,875	1,500	1,250	1,071	938	833	750	682	625					
				D _c	0.05	0.07	0.11	0.15	0.19	0.24	0.30	0.36	0.43					
				U	2,700	1,728	1,200	882	675	533	432	357	300	256	220		0.900	
1 3/4" x 3/16"	15.25	82	U D _u C D _c	D _u	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.52	0.61		0.675	
				C	2,700	2,160	1,800	1,543	1,350	1,200	1,080	982	900	831	771			
				D _c	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49			
				U	3,675	2,352	1,633	1,200	919	726	588	486	408	348	300	261	230	1.225
2" x 3/16"	17.32	92	U D _u C D _c	D _u	0.04	0.07	0.10	0.13	0.17	0.22	0.27	0.32	0.38	0.45	0.52	0.60	0.68	
				C	3,675	2,940	2,450	2,100	1,838	1,633	1,470	1,336	1,225	1,131	1,050	980	919	1.072
				D _c	0.03	0.05	0.08	0.10	0.14	0.17	0.21	0.26	0.31	0.36	0.42	0.48	0.54	
				U	6,075	3,888	2,700	1,984	1,519	1,200	972	803	675	575	496	432	380	2.025
2 1/2" x 3/16"	21.46	111	U D _u C D _c	D _u	0.03	0.05	0.07	0.10	0.13	0.17	0.21	0.25	0.30	0.35	0.41	0.47	0.53	
				C	6,075	4,860	4,050	3,471	3,038	2,700	2,430	2,209	2,025	1,869	1,736	1,620	1,519	2.278
				D _c	0.03	0.04	0.06	0.08	0.11	0.13	0.17	0.20	0.24	0.28	0.32	0.37	0.42	

Spans and loads in red exceed a deflection of 1/4" for uniform loads of 100 lbs./sq. ft. Experience has shown that 1/4" deflection is the maximum deflection to give pedestrian comfort, but can be exceeded for other types of loads at the discretion of the specifying professional.