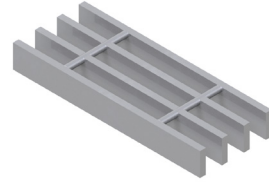


LOAD TABLES | STANDARD DUTY, IMPERIAL

LOAD TABLES - CLOSE-MESH

Grating Type: **15W4**
 Design Code: **NAAMM MBG 534-19**
 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			
				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"	S _x (in ³ /ft)	I _x (in ⁴ /ft)		
1" x 1/8"	6.15	55	U	800	512	356	261	200	158	128								0.267		
			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										
1" x 3/16"	8.87	60	U	1,200	768	533	392	300	237	192								0.400		
			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										
1 1/4" x 1/8"	7.51	65	U	1,250	800	556	408	313	247	200	165							0.417		
			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									
1 1/4" x 3/16"	10.91	71	U	1,875	1,200	833	612	469	370	300	248	208						0.625		
			D _u	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45	0.54							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								
1 1/2" x 1/8"	8.87	74	U	1,800	1,152	800	588	450	356	288	238	200	170					0.600		
			D _u	0.05	0.08	0.11	0.15	0.20	0.25	0.31	0.38	0.45	0.52	0.52					0.450	
			C	1,800	1,440	1,200	1,029	900	800	720	655	600	554							
			D _c	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42							
1 1/2" x 3/16"	12.95	82	U	2,700	1,728	1,200	882	675	533	432	357	300	256	220				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					0.675	
			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						
1 3/4" x 1/8"	15.18	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				
			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				
2" x 1/8"	17.22	102	U	4,800	3,072	2,133	1,567	1,200	948	768	635	533	454	392	341	300	230		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	0.68			1.072
			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	919			
			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	0.54			
2 1/2" x 1/8"	21.30	120	U	7,500	4,800	3,333	2,449	1,875	1,481	1,200	992	833	710	612	533	469	380		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			2.278	
			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				
			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				

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.

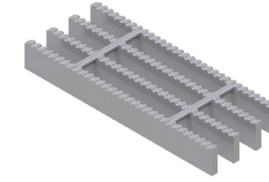
15W4 (in)

# of Bars	2	3	4	5	6	7	8	9	10	11
3/16" Bars	1-1/8	2-1/16	3	3-15/16	4-7/8	5-13/16	6-3/4	7-11/16	8-5/8	9-9/16
# of Bars	12	13	14	15	16	17	18	19	20	21
3/16" Bars	10-1/2	11-7/16	12-3/8	13-5/16	14-1/4	15-3/16	16-1/8	17-1/16	18	18-15/16
# of Bars	22	23	24	25	26	27	28	29	30	31
3/16" Bars	19-7/8	20-13/16	21-3/4	22-11/16	23-5/8	24-9/16	25-1/2	26-7/16	27-3/8	28-5/16
# of Bars	32	33	34	35	36	37	38	39	40	41
3/16" Bars	29-1/4	30-3/16	31-1/8	32-1/16	33	33-15/16	34-7/8	35-13/16	36-3/4	37-11/16

Deduct 1/16" for 1/8" bearing bars

LOAD TABLES - CLOSE-MESH

Grating Type: **15W4**
 Design Code: **NAAMM MBG 534-19**
 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		
				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"	S _x (in ³ /ft)	I _x (in ⁴ /ft)	
1" x 1/8"	6.15	44	U	450	288	200	147	113										0.150	
			D _u	0.10	0.16	0.22	0.30	0.40											0.056
			C	450	360	300	257	225											
			D _c	0.08	0.12	0.18	0.24	0.32											
1" x 3/16"	8.87	49	U	675	432	300	220	169	133									0.225	
			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										
1 1/4" x 1/8"	7.51	55	U	800	512	356	261	200	158	128								0.267	
			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									
1 1/4" x 3/16"	10.91	60	U	1,200	768	533	392	300	237	192								0.400	
			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									
1 1/2" x 1/8"	8.87	65	U	1,250	800	556	408	313	247	200	165							0.417	
			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								
1 1/2" x 3/16"	12.95	71	U	1,875	1,200	833	612	469	370	300	248	208						0.625	
			D _u	0.06	0.09	0.13	0.18	0.24	0.30	0.37	0.45	0.54							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							
1 3/4" x 1/8"	15.18	92	U	2,700	1,728	1,200	882	675	533	432	357	300	256	220				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					0.675
			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							