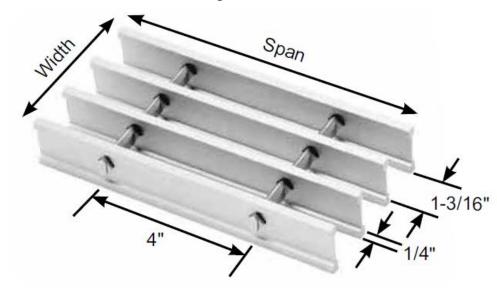
Swaged Aluminum I-Bar Grating

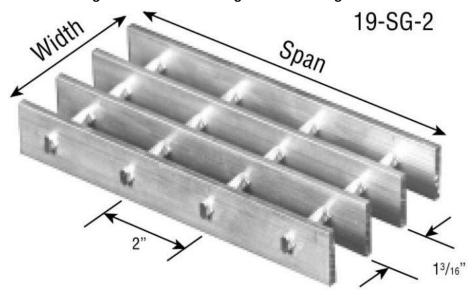
19-SGI-4 Aluminum I-Bar Grating



19SGI4 Light Duty Aluminum Swaged I-Bar Grating is used for pedestrian traffic only. Panels are manufactured to 2' and 3' widths, while providing standard lengths up to 24' long. 19SGI4 Light Duty Grating is available in bearing bar sizes ranging from 1" to 2 1/2" depths and a thickness of 1/4" on top and bottom and an 1/8" flange. 19SGI4 is spaced 1-3/16" c.c. for the bearing bars and 4" c.c. for the cross roads. Typical applications include: catwalks, platforms, pedestrian trenches, pedestrian sump pits, stair treads, water and sewage treatment facilities, waste water treatment plants, food processing, and marine environments. I-Bar surface comes in a striated finish. Aluminum comes in a mill finish.

D 01	Ped	Wt.*	Sec. Prop		-	sn sc			es v	Clear	Span			45	= -7	
Bar Size, Inches	Span, Inches	Lbs. Sq. Ft.	Sx*, inf Ix*, inf		2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0'
			0.244	U	421	269	187	137			ý.	Tit (
1 x 1/8	39	1.71	0.211	D	0.144	0.225	0.324	0.439		U-S	afe unifor	rm load ir	n pounds/s	q.ft.		
1 X 1/0	39	100.00	0.105	C	421	337	281	241		C-S	afe concer	ntrated lo	ad in poun	ds/ft. gra	ting width	
			0.105	D	0.115	0.180	0.259	0.353								
4 0/40		2.46	0.316	U	632	404	281	206	158	D-1	Deflection	in inches				
1 x 3/16	44	2.40	0.316	D	0.144	0.225	0.324	0.441	0.576							
I-Bar	44	1.99	0.158	C	632	505	421	361	316	Load	s and defi	ections e	iven in thi	s table ar	e theoretic	al.
I-radi:		1,00	0.156	D	0.115	0.180	0.259	0.353	0.461				stress of I			1000
			0.000	U	658	421	292	215	164							
1-1/4 x 1/8	47	2.08	0.329	D	0.115	0.180	0.259	0.353	0.459							
1-174 X 1/0	74.6	2.00	0.206	C	658	526	439	376	329							
			0.206	D	0.092	0.144	0.208	0.282	0.369		2					
		3.01	0.493	U	987	632	439	322	247	195						
1-1/4 x 3/16	52	3.01	0.493	D	0.115	0.180	0.259	0.353	0.461	0.583						
I-Bar	92	2.34	0.308	C	987	789	658	564	493	439						
PDB		2.39	0.308	D	0.092	0.144	0.207	0.282	0.368	0.467						
			0.474	U	947	606	421	309	237	187	1					
1-1/2 x 1/8	53	2.46	0.474	D	0.096	0.150	0.216	0.294	0.384	0.486	ľ					
1-1/2 X 1/0	53		0.355	C	947	758	632	541	474	421						
			0.355	D	0.077	0.120	0.173	0.235	0.307	0.389	1					
Water Sales		3.56	0.711	U	1421	909	632	464	355	281	227	1				
1-1/2 x 3/16	59	3.30	0.711	D	0.096	0.150	0.216	0.294	0.384	0.487	0.599					
I-Bar	59	2.70	0.533	C	1421	1137	947	812	711	632	568					
I-Dat		4.70	0.533	D	0.077	0.120	0.173	0.235	0.307	0.389	0.480			2		
Tarra va comana va		4.12	0.967	U	1934	1238	860	632	484	382	309	256	215]		
1-3/4 x 3/16	66	4.12	0.967	D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.623	0.741	1		
I-Bar	00	3.06	0.846	C	1934	1547	1289	1105	967	860	774	703	645	1		
Puai		3.00	0.046	D	0.066	0.103	0.148	0.202	0.263	0.333	0.412	0.498	0.593	1		
1.05 W80W		4.68	1.263	U	2526	1617	1123	825	632	499	404	334	281	239		
2 x 3/16	73	4.00	1.203	D	0.072	0.113	0.162	0.221	0.288	0.364	0.450	0.544	0.649	0.760		
I-Bar	13	3.43	1.263	C	2526	2021	1684	1444	1263	1123	1011	919	842	777		
PDdI		3.43	1,203	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608		
		5.24	1.599	U	3197	2046	1421	1044	799	632	512	423	355	303	261	
2-1/4 x 3/16	80	0.24	1.599	D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.677	0.784	
I-Bar	80	3.75	1,798	C	3197	2558	2132	1827	1599	1421	1279	1163	1066	984	914	
i-mar		3.75	1.798	D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.628	
CONTROL CONTROL		5.79	4.074	U	3947	2526	1754	1289	987	780	632	522	439	374	322	24
2-1/2 x 3/16	0.7	5.79	1.974	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.705	0.92
I-Bar	87	2.45	0.407	С	3947	3158	2632	2256	1974	1754	1579	1435	1316	1215		98
I-Bar		4.15	2.467	D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.565	0.73

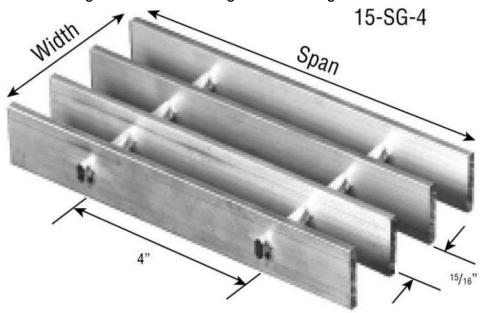
19-SG-2 Swaged Aluminum Rectangular Bar Grating



19SG2 Light Duty Aluminum Swaged Bar Grating is used for pedestrian traffic only. Panels are manufactured to 2' and 3' widths, while providing standard lengths up to 24' long. 19SG2 Light Duty Grating is available in bearing bar sizes ranging from 1" to 2 1/2" depths and thicknesses of 3/16" and 1/8". 19SG2 is spaced 1-3/16" c.c. for the bearing bars and 2" c.c. for the cross roads. Typical applications include: catwalks, platforms, pedestrian trenches, pedestrian sump pits, stair treads, water and sewage treatment facilities, waste water treatment plants, food processing, and marine environments. Surface options are smooth or serrated. Aluminum comes in a mill finish. Note: 2" cross bar spacing is normally a non-stock item and increases price/lead time. This product also carries the same load capacity of a 4" cross bar spacing but does provide a tighter opening.

Bar	Ped	Wt.*	Sec. Prop							Clear	Span								
Size, Inches	Span, Inches	Lbs. Sq. Ft.	Sx*, in² Ix*, in⁴		2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0			
			0.044	U	421	269	187	137											
1 × 1/8	39	4	0.211	D	0.144	0.225	0.324	0.439											
1 × 78	39	1.71		C	421	337	281	241	1	U -	Safe unit	form load	d in pour	ds/sq. ft	20				
			0.105	D	0.115	0.180	0.259	0.353		C-	Safe con	centrate	d load in	nounds/	ft grating	width			
			0.040	U	632	404	281	206	158					pouriou	re grading	· ·			
$1 \times \frac{3}{16}$	44	2.46	0.316	D	0.144	0.225	0.324	0.441	0.576	D-	Deflectio	in in incr	ies						
1 × 716	44	2.46	0.450	C	632	505	421	361	316										
			0.158	D	0.115	0.180	0.259	0.353	0.461					and defl					
			0.329	U	658	421	292	215	164	1				this tal					
11/4 × 1/8	47	2.08	0.329	D	0.115	0.180	0.259	0.353	0.459					ical, and					
1 14 / 10	47	2.00	0.206	C	658	526	439	376	329				of 12.0		csuess				
			0.206	D	0.092	0.144	0.208	0.282	0.369				01 12,0	оо раг.					
			0.493	U	987	632	439	322	247	195			%	Open A	Area*				
11/4 × 3/16	52	3.01	0.493	D	0.115	0.180	0.259	0.353	0.461	0.583	1		Bars	1/8"	3/16"				
1 /4 / /10	52	3.01	0.308	C	987	789	658	564	493	439			4" cc	85%	80%				
			0.306	D	0.092	0.144	0.207	0.282	0.368	0.467			2" cc	81%	77%				
			0.474	U	947	606	421	309	237	187									
11/2 × 1/8	53	2.46	0.474	D	0.096	0.150	0.216	0.294	0.384	0.486									
1 12 ^ 10	55	2.46	2.46	2.40	2.40	0.355	C	947	758	632	541	474	421						
	3		0.355	D	0.077	0.120	0.173	0.235	0.307	0.389									
M & M			0.711	U	1421	909	632	464	355	281	227	1							
11/2 × 3/16	59	3.56	0.711	D	0.096	0.150	0.216	0.294	0.384	0.487	0.599								
1 12 / 110	33	3.50	0.533	C	1421	1137	947	812	711	632	568								
			0.555	D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	<u> </u>							
			0.967	U	1934	1238	860	632	484	382	309	256	215						
13/4 × 3/18	66	4.12	0.507	D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.623	0.741						
1 /4 / /10	00	4.12	0.846	C	1934	1547	1289	1105	967	860	774	703	645						
			0.040	D	0.066	0.103	0.148	0.202	0.263	0.333	0.412	0.498	0.593						
			1,263	U	2526	1617	1123	825	632	499	404	334	281	239					
2 × 3/16	73	4.68	1.203	D	0.072	0.113	0.162	0.221	0.288	0.364	0.450	0.544	0.649	0.760					
2 / / / / /	,,,	4.00	1.263	C	2526	2021	1684	1444	1263	1123	1011	919	842	777					
			1.203	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	i una				
			1.599	U	3197	2046	1421	1044	799	632	512	423	355	303	261				
21/4 × 3/16	80	5.24	1.555	D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.677	0.784				
_ , _ , , , , , ,	80 5.24	1.798	C	3197	2558	2132	1827	1599	1421	1279	1163	1066	984	914					
			1.730	D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.628	0			
20 20			1.974	U	3947	2526	1754	1289	987	780	632	522	439	374	322	24			
21/2 × 3/16	87	5.79	11.074	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.705	0.92			
- 12 /1 /10	0,	5.75	2.467	C	3947	3158	2632	2256	1974	1754	1579	1435	1316	1215	1128	98			
			2.407	D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.565	0.73			

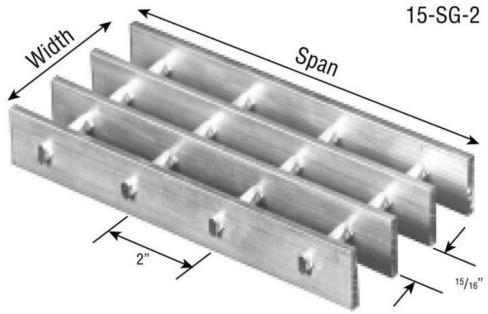
15-SG-4 Swaged Aluminum Rectangular Bar Grating



15SG4 Light Duty Aluminum Swaged Bar Grating is used for pedestrian traffic only. Panels are manufactured to 2' and 3' widths, while providing standard lengths up to 24' long. 15SG4 Light Duty Grating is available in bearing bar sizes ranging from 1" to 2 1/2" depths and thickness of 3/16". 15SG4 is spaced 15/16" c.c. for the bearing bars and 4" c.c. for the cross roads. Typical applications include: catwalks, platforms, pedestrian trenches, pedestrian sump pits, stair treads, water and sewage treatment facilities, waste water treatment plants, food processing, and marine environments. Surface options are smooth or serrated. Aluminum comes in a mill finish.

Bar Size.	Ped	Wt.*	Sec. Prop					,		Clear	Span					
Inches	Span, Inches	Sq. Ft.	Sx*, in ³ Ix*, in ⁴		2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7"- 0"	8'- 0
			0.400	U	800	512	356	261	200			U - Sa	fe unifor	m load in	pounds	/sq. ft.
1 × 3/16	46	3.06	0.400	D	0.144	0.225	0.324	0.441	0.576				fe conce			DEPTONE
1 ^ /10	40	3.00	0.200	C	800	640	533	457	400				ating widt			
			0.200	D	0.115	0.180	0.259	0.353	0.461			D - De	flection i	n inches	į.	
			0.625	U	1250	800	556	408	313	247	200			Loads a		
1 ¹ /4 × ³ /16	55	3.75	0.023	D	0.115	0.180	0.259	0.353	0.462	0.583	0.720			given in theoretic		
1 /4 / //0	33	3.73	0.391	C	1250	1000	833	714	625	556	500			based o	n a unit	
			0.551	D	0.092	0.144	0.207	0.282	0.369	0.467	0.576			of 12,00		
			0.900	U	1800	1152	800	588	450	356	288	238		A STATE OF THE PARTY OF THE PAR	n Area*	
11/2 × 3/16	63	4.45	0.500	D	0.096	0.150	0.216	0.294	0.384	0.487	0.600	0.726		4 cc 2 cc	76% 73%	
1 12 / 110	- 00	4.40	0.675	C	1800	1440	1200	1029	900	800	720	655		2 00	1.070	
			0.075	D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581				
			1.225	U	2450	1568	1089	800	613	484	392	324	272			
13/4 × 3/16	70	5.16	1.223	D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.740			
147 110	,,,	3.10	1.072	C	2450	1960	1633	1400	1225	1089	980	891	817			
			1.072	D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.593			
			1.600	U	3200	2048	1422	1045	800	632	512	423	356	303	261	
2 × 3/16	78	5.87	1.000	D	0.072	0.113	0.162	0.221	0.288	0.364	0.450	0.544	0.649	0.761	0.881	
- / /10	10	3.07	1.600	C	3200	2560	2133	1829	1600	1422	1280	1164	1067	985	914	
			1.000	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.705	
			2.025	U	4050	2592	1800	1322	1013	800	648	536	450	383	331	253
21/4 × 3/16	85	6.57	2.023	D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.675	0.785	1.023
2 14 ~ 110	00	0.57	2.278	C	4050	3240	2700	2314	2025	1800	1620	1473	1350	1246	1157	1013
			2.210	D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.820
			2.500	U	5000	3200	2222	1633	1250	988	800	661	556	473	408	313
21/2 × 3/16	92	7.27	2.300	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.435	0.519	0.608	0.705	0.923
E 12 ~ 110	32	1.21	3.125	C	5000	4000	3333	2857	2500	2222	2000	1818	1667	1538	1429	1250
			3.123	D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.565	0.737

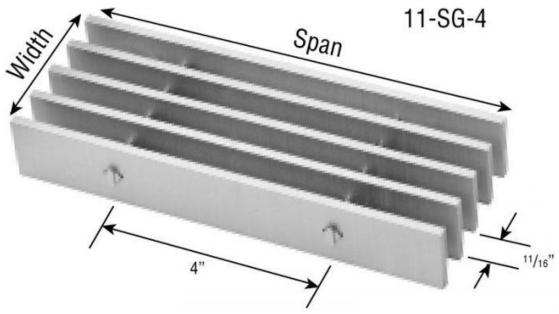
15-SG-2 Swaged Aluminum Rectangular Bar Grating



15SG2 Light Duty Aluminum Swaged Bar Grating is used for pedestrian traffic only. Panels are manufactured to 2' and 3' widths, while providing standard lengths up to 24' long. 15SG2 Light Duty Grating is available in bearing bar sizes ranging from 1" to 2 1/2" depths and thickness of 3/16". 15SG2 is spaced 15/16" c.c. for the bearing bars and 2" c.c. for the cross roads. Typical applications include: catwalks, platforms, pedestrian trenches, pedestrian sump pits, stair treads, water and sewage treatment facilities, waste water treatment plants, food processing, and marine environments. Surface options are smooth or serrated. Aluminum comes in a mill finish. Note: 2" cross bar spacing is normally a non-stock item and increases price/lead time. This product also carries the same load capacity of a 4" cross bar spacing but does provide a tighter opening.

Bar	Ped	Wt.*	Sec. Prop	ĺ						Clear	Span						
Size, Inches	Span, Inches	Lbs. Sq. Ft.	Sx*, in ³ lx*, in ⁴		2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0'	
			0.400	U	800	512	356	261	200			U - Sa	fe unifor	m load in	pounds	/sa ft	
1 × 3/16	46	3.06	0.400	D	0.144	0.225	0.324	0.441	0.576					ntrated lo		SUCH SECURE	
1 ^ /10	40	3.00	0.200	C	800	640	533	457	400				ating wid				
			0.200	D	0.115	0.180	0.259	0.353	0.461			D - De	effection	in inches			
			0.625	U	1250	800	556	408	313	247	200			Loads a			
1 ¹ /4 × ³ /16	55	3.75	0.025	D	0.115	0.180	0.259	0.353	0.462	0.583	0.720				this table		
1 74 / 710	33	3.75	0.391	C	1250	1000	833	714	625	556	500			based o		stress	
			0.391	D	0.092	0.144	0.207	0.282	0.369	0.467	0.576			of 12,00	0 psi.		
			0.900	U	1800	1152	800	588	450	356	288	238		A STATE OF THE PARTY OF THE PAR	n Area*		
11/2 × 3/16	63	4.45	0.900	D	0.096	0.150	0.216	0.294	0.384	0.487	0.600	0.726		4 cc 2 cc	76% 73%		
1 /2 / /10	03	4.43	0.675	C	1800	1440	1200	1029	900	800	720	655		2.00	1 3 /6		
			0.075	D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581					
			1.225	U	2450	1568	1089	800	613	484	392	324	272				
13/4 × 3/16	70	E 46	1.225	D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.740				
1 /4 × /16	70	5.16	5.10	1.072	C	2450	1960	1633	1400	1225	1089	980	891	817			
			1.072	D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.593				
			1.600	U	3200	2048	1422	1045	800	632	512	423	356	303	261		
2 × 3/16	78	5.87	1.000	D	0.072	0.113	0.162	0.221	0.288	0.364	0.450	0.544	0.649	0.761	0.881		
2 × /10	10	5.01	1,600	C	3200	2560	2133	1829	1600	1422	1280	1164	1067	985	914		
			1.600	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.705		
			2.025	U	4050	2592	1800	1322	1013	800	648	536	450	383	331	253	
21/4 × 3/16	85	6.57	2.025	D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.675	0.785	1.023	
2 /4 / /10	03	0.57	2.278	C	4050	3240	2700	2314	2025	1800	1620	1473	1350	1246	1157	1013	
			2.278	D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.820	
			2.500	U	5000	3200	2222	1633	1250	988	800	661	556	473	408	313	
21/2 × 3/16	92	7.27	2.500	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.435	0.519	0.608	0.705	0.923	
£ 12 × 116	32	1.21	3.125	C	5000	4000	3333	2857	2500	2222	2000	1818	1667	1538	1429	1250	
			3.125	D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.565	0.737	

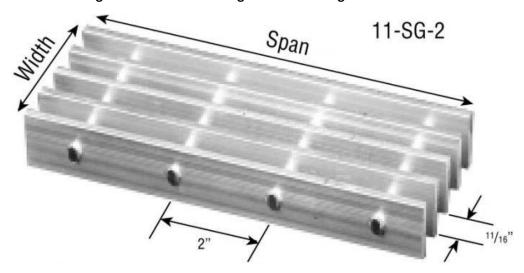
11-SG-4 Swaged Aluminum Rectangular Bar Grating



11SG4 Light Duty Aluminum Swaged Bar Grating is used for pedestrian traffic only and is ADA approved. Panels are manufactured to 2' and 3' widths, while providing standard lengths up to 24' long. 11SG4 Light Duty Grating is available in bearing bar sizes ranging from 1" to 2 1/2" depths and thickness of 3/16". 11SG4 is spaced 11/16" c.c. for the bearing bars and 4" c.c. for the cross roads. Typical applications include: catwalks, platforms, pedestrian trenches, pedestrian sump pits, stair treads, water and sewage treatment facilities, waste water treatment plants, food processing, and marine environments. Surface options are smooth or serrated. Aluminum comes in a mill finish.

Bar	Ped	Wt.*	Sec. Prop	1	-0.00					Clear	Span					
Size, Inches	Span, Inches	Lbs. Sq. Ft.	Sx*, in ³ Ix*, in ⁴		2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0
			0.545	U	1091	698	485	356	273	215		U - Sa	ife unifor	m load in	n pounds	/sq. ft.
1 × 3/16	50	4.09	0.545	D	0.144	0.225	0.324	0.441	0.577	0.727			ife conce			
1 × /16	50	4.09	0.273	C	1091	873	727	623	545	485			ating widt			
			0.273	D	0.115	0.180	0.259	0.353	0.460	0.583		D - De	eflection i	n inches	i Incunse	
			0.852	U	1705	1091	758	557	426	337	273				nd defle this table	
1 ¹ /4 × ³ /16	59	5.03	0.852	D	0.115	0.180	0.259	0.353	0.461	0.584	0.721			theoretic	cal, and	are
1 /4 / /16	39	5.03	0.533	С	1705	1364	1136	974	852	758	682			based o of 12,00	n a unit	stress
			0.533	D	0.092	0.144	0.207	0.282	0.369	0.467	0.576			01 12,00	о ры.	
			1.227	U	2455	1571	1091	802	614	485	393	325	273	Brack and	Open A	
11/2 × 3/16	68	5.99	1.221	D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.727	0.865			9% 6%
1 12 / 110	00	5.99	0.920	С	2455	1964	1636	1403	1227	1091	982	893	818	-	00 0	0 70
			0.920	D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691			
			1.670	U	3341	2138	1485	1091	835	660	535	442	371	316		
13/4 × 3/16	76	6.96	1.070	D	0.082	0.129	0.185	0.252	0.329	0.417	0.515	0.623	0.740	0.868		
1 /4 / /10	76	0.90	1.462	С	3341	2673	2227	1909	1670	1485	1336	1215	1114	1028		
			1.402	D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.593	0.695		
			2.182	U	4364	2793	1939	1425	1091	862	698	577	485	413	356	273
2 × 3/16	84	7.92	2.102	D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.544	0.648	0.760	0.881	1.153
2 ^ /10	04	1.32	2.182	C	4364	3491	2909	2494	2182	1939	1746	1587	1455	1343	1247	1091
			2.102	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.706	0.922
			2.761	U	5523	3535	2455	1803	1381	1091	884	730	614	523	451	345
21/4 × 3/16	92	8.88	2.761	D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.676	0.784	1.023
Z 14 × 116	92	0.00	3,107	С	5523	4418	3682	3156	2761	2455	2209	2008	1841	1699	1578	1381
			3.107	D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819
			3,409	U	6818	4364	3030	2226	1705	1347	1091	902	758	646	557	426
21/2 × 3/16	100	9.84	3.409	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.706	0.921
Z-12 × 116	100	9.84	4 204	С	6818	5455	4546	3896	3409	3030	2727	2479	2273	2098	1948	1705
			4.261	D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.737

11-SG-2 Swaged Aluminum Rectangular Bar Grating



11SG2 Light Duty Aluminum Swaged Bar Grating is used for pedestrian traffic only and is ADA approved. Panels are manufactured to 2' and 3' widths, while providing standard lengths up to 24' long. 11SG2 Light Duty Grating is available in bearing bar sizes ranging from 1" to 2 1/2" depths and thickness of 3/16". 11SG2 is spaced 11/16" c.c. for the bearing bars and 2" c.c. for the cross roads. Typical applications include: catwalks, platforms, pedestrian trenches, pedestrian sump pits, stair treads, water and sewage treatment facilities, waste water treatment plants, food processing, and marine environments. Surface options are smooth or serrated. Aluminum comes in a mill finish. Note: 2" cross bar spacing is normally a non-stock item and increases price/lead time. This product also carries the same load capacity of a 4" cross bar spacing but does provide a tighter opening.

Bar	Ped	Wt.*	Sec. Prop	1						Clear	Span					
Size, Inches	Span, Inches	Lbs. Sq. Ft.	Sx*, in ³ Ix*, in ⁴		2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0
			0.545	U	1091	698	485	356	273	215		U - Sa	afe unifor	m load in	n pounds	/sq. ft.
1 × 3/16	50	4.09	0.545	D	0.144	0.225	0.324	0.441	0.577	0.727			afe conce		oad in po	unds/ft
1 / /10	30	4.03	0.273	C	1091	873	727	623	545	485			ating widt			
			0.273	D	0.115	0.180	0.259	0.353	0.460	0.583		D - De	eflection i	n inches		
			0.852	U	1705	1091	758	557	426	337	273				ind defle this tabl	
1 ¹ / ₄ × ³ / ₁₆	59	5.03	0.052	D	0.115	0.180	0.259	0.353	0.461	0.584	0.721			theoreti	cal, and	are
1 /4 / //0	33	5.05	0.533	С	1705	1364	1136	974	852	758	682			of 12,00	on a unit 10 osi.	stress
			0.555	D	0.092	0.144	0.207	0.282	0.369	0.467	0.576		_	01 12,00	o pan	
			1.227	U	2455	1571	1091	802	614	485	393	325	273	10000	Open A	And the Line of the London
11/2 × 3/16	68	5.99	1.221	D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.727		1000		9% 6%
1 12 ^ 110	00	3.33	0.920	С	2455	1964	1636	1403	1227	1091	982	893		1.2	00.0	070
			0.320	D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691		-	
			1.670	U	3341	2138	1485	1091	835	660	535	442	371	316		
13/4 × 3/16	76	6.96	1.070	D	0.082	0.129	0.185	0.252	0.329	0.417	0.515	0.623	0.740	0.868		
1 14 / 110	70	0.50	1.462	С	3341	2673	2227	1909	1670	1485	1336	1215	1114	1028		
			1.402	D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.593	0.695		
			2.182	U	4364	2793	1939	1425	1091	862	698	577	485	413	356	273
2 × 3/16	84	7.92	2.102	D	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.544	0.648	0.760	0.881	1.153
20 110	04	1.52	2.182	C	4364	3491	2909	2494	2182	1939	1746	1587	1455	1343	1247	1091
			2.102	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.706	0.922
			2.761	U	5523	3535	2455	1803	1381	1091	884	730	614	523	451	345
21/4 × 3/16	92	8.88	2.701	D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.676	0.784	1.023
2 14 / 110	32	0.00	3.107	С	5523	4418	3682	3156	2761	2455	2209	2008	1841	1699	1578	1381
			3.107	D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819
			3.409	U	6818	4364	3030	2226	1705	1347	1091	902	758	646	557	426
21/2 × 3/16	100	9.84	3.409	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.706	0.921
- 12 A 110	100	3.04	4.261	С	6818	5455	4546	3896	3409	3030	2727	2479	2273	2098	1948	1705
			4.201	D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.737

7-SG-4 Swaged Aluminum Rectangular Bar Grating



7SG4 Light Duty Aluminum Swaged Bar Grating is used for pedestrian traffic only and is ADA approved. Panels are manufactured to 2' and 3' widths, while providing standard lengths up to 24' long. 7SG4 Light Duty Grating is available in bearing bar sizes ranging from 1" to 2 1/2" depths and thickness of 3/16". 7SG4 is spaced 7/16" c.c. for the bearing bars and 4" c.c. for the cross roads. Typical applications include: catwalks, platforms, pedestrian trenches, pedestrian sump pits, stair treads, water and sewage treatment facilities, waste water treatment plants, food processing, and marine environments. Surface options are smooth or serrated. Aluminum comes in a mill finish.

Day Circ	Ped	Wt.*	Sec. Prop		s				CI	earSpa	n					
Bar Size, Inches	Span, Inches	Lbs. Sq. Ft.	Sx*, in ³ lx*, in ⁴		2'- 0"	2'-6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0"
0.3506.0005.000		6.30	0.857	U	1714	1097	762	560	429	339	274	U - Saf	e uniform	load in p	ounds/sq	.ft.
1 x 3/16	56	0.30	0.857	D	0.144	0.225	0.324	0.441	0.577	0.730	0.899		e concentr	ated load	in pound	s/ft.
I-Bar	30	4.79	0.429	C	1714	1371	1143	980	857	762	686		ing width lection in	day a beau		
I-Dai		4.70	0.425	D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	D-Dei	nection in	inches		
		7.78	1.339	U	2679	1714	1190	875	670	529	429	354	298			ons given
1-1/4 x 3/16	66	1.70	1.555	D	0.115	0.180	0.259	0.353	0.461	0.583	0.721	0.871	1.038		ble are the	
I-Bar	- 00	5.75	0.837	C	2679	2143	1786	1531	1339	1190	1071	974	893		12,000 ps	
31 9591		0.10	0.007	D	0.092	0.144	0.207	0.282	0.369	0.466	0.576	0.697	0.830		-	
4.400 040		9.28	1.929	U	3857	2469	1714	1259	964	762	617	510	429	365	1	
1-1/2 x 3/16	76	3.20	1.020	D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.865	1.014		
I-Bar	7.0	6.74	1.446	C	3857	3086	2571	2204	1929	1714	1543	1403	1286	1187		
I-Gai		W.H.T.	1.440	D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811		
		10.80	2.625	U	5250	3360	2333	1714	1313	1037	840	694	583	497	429	328
1-3/4 x 3/16	85	10.00	2.023	D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.740	0.869	1.009	1,316
I-Bar	- 00	7.70	2.297	C	5250	4200	3500	3000	2625	2333	2100	1909	1750	1615	1500	1313
Market .		Mieske	2.231	D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.054
0 040		12.32	3,429	U	6857	4389	3048	2239	1714	1355	1097	907	762	649	560	429
2 x 3/16	94	12.02	0.425	D	0.072	0.113	0.162	0.220	0.288	0.365	0.450	0.545	0.648	0.760	0.882	1.153
I-Bar	34	8.71	3.429	C	6857	5486	4572	3918	3429	3048	2743	2494	2286	2110	1959	1714
1-Dai		T.Mestile.	0.420	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	0.921
		13.83	4.339	U	8679	5554	3857	2834	2170	1714	1389	1148	964	822	708	542
2-1/4 x 3/16	103	13.03	4.555	D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.676	0.783	1.023
I-Bar	100	9.59	4.882	C	8679	6943	5786	4959	4339	3857	3471	3156	2893	2670	2480	2170
		0.00	4.002	D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819
0.400 - 0.40		15.33	5.357	U	10714	6857	4762	3499	2679	2116	1714	1417	1190	1014	875	670
2-1/2 x 3/16	111	10.00	3.331	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	0.922
I-Bar	2441	10.66	6.697	C	10714	8572	7143	6123	5357	4762	4286	3896	3571	3297	3061	2679
1 201		15.00	0.007	D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.737

7-SG-2 Swaged Aluminum Rectangular Bar Grating



7SG2 Light Duty Aluminum Swaged Bar Grating is used for pedestrian traffic only and is ADA approved. Panels are manufactured to 2' and 3' widths, while providing standard lengths up to 24' long. 7SG2 Light Duty Grating is available in bearing bar sizes ranging from 1" to 2 1/2" depths and thickness of 3/16". 7SG2 is spaced 7/16" c.c. for the bearing bars and 2" c.c. for the cross roads. Typical applications include: catwalks, platforms, pedestrian trenches, pedestrian sump pits, stair treads, water and sewage treatment facilities, waste water treatment plants, food processing, and marine environments. Surface options are smooth or serrated. Aluminum comes in a mill finish. Note: 2" cross bar spacing is normally a non-stock item and increases price/lead time. This product also carries the same load capacity of a 4" cross bar spacing but does provide a tighter opening.

Bar Size.	Ped	Wt.*	Sec. Prop		83				CI	earSpa	n	(1)				
Inches	Span, Inches	Lbs. Sq. Ft.	Sx*, in ³ lx*, in ⁴		2'- 0"	2'-6"	3'- 0"	3'- 6"	4'-0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0"
002000000000		6.30	0.857	U	1714	1097	762	560	429	339	274	U - Saf	e uniform	load in p	ounds/sq	.ft.
1 x 3/16	56	0.50	0.007	D	0.144	0.225	0.324	0.441	0.577	0.730	0.899		e concenti	rated load	in pound	s/ft.
I-Bar	30	4.79	0.429	C	1714	1371	1143	980	857	762	686		ing width flection in	inches		
r-Dai		4.10	0.425	D	0.115	0.180	0.259	0.353	0.461	0.583	0.720	D-De	nection in	inches		
		7.78	1.339	U	2679	1714	1190	875	670	529	429	354	298	Loads a	nd deflecti	ions given
1-1/4 x 3/16	66	1.10	1.000	D	0.115	0.180	0.259	0.353	0.461	0.583	0.721	0.871	1.038		able are the based on a	
I-Bar		5.75	0.837	C	2679	2143	1786	1531	1339	1190	1071	974	893		12,000 ps	
1 5001		0.10	0.007	D	0.092	0.144	0.207	0.282	0.369	0.466	0.576	0.697	0.830		20	
4.400 0440		9.28	1.929	U	3857	2469	1714	1259	964	762	617	510	429	365		
1-1/2 x 3/16	76	5.20	1.020	D	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.726	0.865	1.014		
I-Bar	,,,,	6.74	1.446	C	3857	3086	2571	2204	1929	1714	1543	1403	1286	1187		
T-Wat		- Will To	1.440	D	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811		
1-3/4 x 3/16		10.80	2.625	U	5250	3360	2333	1714	1313	1037	840	694	583	497	429	
1-3/4 X 3/10	85		2,020	D	0.082	0.129	0.185	0.252	0.329	0.417	0.514	0.622	0.740	0.869	1.009	1.316
I-Bar		7.70	2.297	C	5250	4200	3500	3000	2625	2333	2100	1909	1750	1615	1500	1313
(NEED)		Malita,	A	D	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.592	0.695	0.806	1.054
2 x 3/16		12.32	3.429	U	6857	4389	3048	2239	1714	1355	1097	907	762	649	560	
2 X 3/16	94	12.02	0.720	D	0.072	0.113	0.162	0.220	0.288	0.365	0.450	0.545	0.648	0.760	0.882	1.153
I-Bar		8.71	3.429	C	6857	5486	4572	3918	3429	3048	2743	2494	2286	2110	1959	1714
		ilessiut.ii	,0,740	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	
2-1/4 x 3/16		13.83	4.339	U	8679	5554	3857	2834	2170	1714	1389	1148	964	822	708	542
2-1/4 X 3/10	103	11.010.0	1.000	D	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.676	0.783	1.023
I-Bar	(1000)	9.59	4.882	C	8679	6943	5786	4959	4339	3857	3471	3156	2893	2670	2480	2170
and a state of		I I I I I I I I I I I I I I I I I I I	2000000	D	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.819
2-1/2 x 3/16		15.33	5.357	U	10714	6857	4762	3499	2679	2116	1714	1417	1190	1014	875	670
Z-11Z X 3/10	111	, MATERIA	57656000	D	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	0.922
I-Bar		10.66	6.697	C	10714	8572	7143	6123	5357	4762	4286	3896	3571	3297	3061	2679
			5.501	D	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.737