

19 SPACE LOAD TABLES

Light Duty Welded, Light Duty Dove Tail & Light Duty Swaged Carbon Steel

Bar Size, Inches	Ped Span, Inches	Wt.* Lbs. Sq. Ft.	Sec. Prop Sx*, in ³	Clear Span											
				2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0"
3/4 x 3/16	46	5.43	0.178	U 533	341	237	174	133							
				D 0.099	0.155	0.224	0.304	0.397							
			0.067	C 533	426	355	305	266							
				D 0.079	0.124	0.179	0.244	0.317							
1 x 1/8	51	4.88	0.211	U 632	404	281	206	158	125						
				D 0.075	0.116	0.168	0.228	0.298	0.378						
			0.105	C 632	505	421	361	316	281						
				D 0.060	0.093	0.134	0.183	0.239	0.302	0.302					
1 x 3/16	57	7.04	0.316	U 947	606	421	309	237	187	152					
				D 0.074	0.116	0.168	0.228	0.298	0.377	0.467					
			0.158	C 947	758	632	541	474	421	379					
				D 0.060	0.093	0.134	0.182	0.239	0.302	0.372					
1-1/4 x 1/8	61	5.96	0.329	U 987	632	439	322	247	195	158	130				
				D 0.060	0.093	0.134	0.182	0.239	0.302	0.373	0.449				
			0.206	C 987	789	658	564	493	439	395	359				
				D 0.048	0.074	0.107	0.146	0.191	0.242	0.298	0.361				
1-1/4 x 3/16	67	8.64	0.493	U 1480	947	658	483	370	292	237	196	164			
				D 0.060	0.093	0.134	0.182	0.238	0.301	0.373	0.451	0.535			
			0.308	C 1480	1184	987	846	740	658	592	538	493			
				D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429			
1-1/2 x 1/8	70	7.04	0.474	U 1421	909	632	464	355	281	227	188	158			
				D 0.050	0.078	0.112	0.152	0.198	0.252	0.310	0.376	0.447			
			0.355	C 1421	1137	947	812	711	632	568	517	474			
				D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.301	0.358			
1-1/2 x 3/16	77	10.25	0.711	U 2132	1364	947	696	533	421	341	282	237	202		
				D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.525		
			0.533	C 2132	1705	1421	1218	1066	947	853	775	711	656		
				D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420		
1-3/4 x 3/16	87	11.87	0.967	U 2901	1857	1289	947	725	573	464	384	322	275	237	181
				D 0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.522	0.680
			0.846	C 2901	2321	1934	1658	1451	1289	1160	1055	967	893	829	725
				D 0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545
2 x 3/16	96	13.48	1.263	U 3789	2425	1684	1237	947	749	606	501	421	359	309	237
				D 0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.394	0.456	0.596
			1.263	C 3789	3032	2526	2165	1895	1684	1516	1378	1263	1166	1083	947
				D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477
2-1/4 x 3/16	105	15.08	1.599	U 4796	3069	2132	1566	1199	947	767	634	533	454	392	300
				D 0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530
			1.798	C 4796	3837	3197	2741	2398	2132	1918	1744	1599	1476	1370	1199
				D 0.026	0.041	0.060	0.081	0.106	0.134	0.165	0.200	0.238	0.280	0.324	0.424
2-1/2 x 3/16	113	16.70	1.974	U 5921	3789	2632	1933	1480	1170	947	783	658	561	483	370
				D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477
			2.467	C 5921	4737	3947	3383	2960	2632	2368	2153	1974	1822	1692	1480
				D 0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381

*Based on 10.105 bars/ft. of grating width. Bearing bars 1-3/16" c.c. Add .6 lbs./sq. ft. for 19-SGCS-2. Note: Grating for spans to the left of the heavy line have a deflection less than 1/4" for uniform loads of 100 lbs./sq. ft. This is the maximum deflection to afford pedestrian comfort and can be exceeded for other types of load at the discretion of the engineer. The actual Ped (pedestrian) Span under this condition is shown above for each size of grating. When serrated grating is specified, the depth of grating required for a specific load will be 1/4" greater than that shown in these tables. 3/4" x 3/16" serrated grating is not available.

Panel Width Chart (in.) - 19-W-4, 19-W-2, 19-DT-4, 19-DT-2, 19-SGCS-4 & 19-SGCS-2 Dimensions Are Out-to-Out of Bearing Bars**

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3/16" Bars	1-3/8	2-9/16	3-3/4	4-15/16	6-1/8	7-5/16	8-1/2	9-11/16	10-7/8	12-1/16	13-1/4	14-7/16	15-5/8	16-13/16	18
No. of Bars	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
3/16" Bars	19-3/16	20-3/8	21-9/16	22-3/4	23-15/16	25-1/8	26-5/16	27-1/2	28-11/16	29-7/8	31-1/16	32-1/4	33-7/16	34-5/8	35-13/16

**Add 1/4" for extended cross bars. Deduct 1/16" for 1/8" bearing bars. Standard panel widths indicated in blue.

15 SPACE LOAD TABLES

Light Duty Welded, Light Duty Dove Tail & Light Duty Swaged Carbon Steel

Bar Size, Inches	Ped Span, Inches	Wt. Lbs. Sq. Ft.	Sec. Prop Sx*, in ³ Ix*, in ⁴	Clear Span													
				2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0"		
3/4 x 3/16	49	7.11	0.225	U 675	432	300	220	169	133	U - Safe uniform load in pounds/sq. ft. C - Safe concentrated load in pounds/ft. grating width D - Deflection in inches							
			0.084	D 0.099	0.155	0.223	0.304	0.398	0.502								
			0.400	C 675	540	450	386	338	300								
			0.200	D 0.079	0.124	0.179	0.243	0.318	0.402								
1 x 3/16	60	9.27	0.625	U 1200	768	533	392	300	237	192	159	Loads and deflections given in this table are theoretical, and are based on a unit stress of 18,000 psi.					
			0.200	D 0.074	0.116	0.167	0.228	0.298	0.377	0.466	0.564						
			0.391	C 1200	960	800	686	600	533	480	436						
			0.048	D 0.060	0.093	0.134	0.183	0.238	0.301	0.372	0.450						
1-1/4 x 3/16	71	11.43	0.900	U 1875	1200	833	612	469	370	300	248	208					
			0.675	D 0.060	0.093	0.134	0.182	0.238	0.301	0.372	0.451	0.535					
			1.225	C 1875	1500	1250	1071	938	833	750	682	625					
			1.072	D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.361	0.429					
1-1/2 x 3/16	82	13.82	1.600	U 2700	1728	1200	882	675	533	432	357	300	256	220			
			1.600	D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.375	0.447	0.525	0.607			
			2.025	C 2700	2160	1800	1543	1350	1200	1080	982	900	831	771			
			2.278	D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.486			
2-1/4 x 3/16	92	15.98	2.500	U 3675	2352	1633	1200	919	726	588	486	408	348	300	230		
			2.500	D 0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.682		
			3.125	C 3675	2940	2450	2100	1838	1633	1470	1336	1225	1131	1050	919		
			3.125	D 0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545		
2 x 3/16	102	18.14	4.000	U 4800	3072	2133	1567	1200	948	768	635	533	454	392	300		
			4.000	D 0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596		
			4.000	C 4800	3840	3200	2743	2400	2133	1920	1745	1600	1477	1371	1200		
			4.000	D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477		
2-1/2 x 3/16	111	20.16	5.000	U 6075	3888	2700	1984	1519	1200	972	803	675	575	496	380		
			5.000	D 0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530		
			5.000	C 6075	4860	4050	3471	3038	2700	2430	2209	2025	1869	1736	1519		
			5.000	D 0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424		
2-1/2 x 3/16	120	22.32	6.000	U 7500	4800	3333	2449	1875	1481	1200	992	833	710	612	469		
			6.000	D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477		
			6.000	C 7500	6000	5000	4286	3750	3333	3000	2727	2500	2308	2143	1875		
			6.000	D 0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381		

*Based on 12.8 bars/ft. of grating width. Bearing bars 15/16" c.c. Add .8 lbs./sq. ft. for 15-W-2. 1/8" bearing bars available by inquiry. Note: Grating for spans to the left of the heavy line have a deflection less than 1/4" for uniform loads of 100 lbs./sq. ft. This is the maximum deflection to afford pedestrian comfort and can be exceeded for other types of load at the discretion of the engineer. The actual Ped (pedestrian) Span under this condition is shown above for each size of grating. When serrated grating is specified, the depth of grating required for a specific load will be 1/4" greater than that shown in these tables. **3/4" x 3/16" serrated grating is not available.**

Panel Width Chart (in.) - 15-W-4, 15-W-2, 15-DT-4, 15-DT-2, 15-SGCS-4 & 15-SGCS-2 Dimensions Are Out-to-Out of Bearing Bars**

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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	10-1/2	11-7/16	12-3/8	13-5/16	14-1/4
No. of Bars	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
3/16" Bars	15-3/16	16-1/8	17-1/16	18	18-15/16	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
No. of Bars	32	33	34	35	36	37	38	39							
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							

**Add 1/4" for extended cross bars. Deduct 1/16" for 1/8" bearing bars. Standard panel widths indicated in blue.

11 SPACE LOAD TABLES

Light Duty Welded, Light Duty Dove Tail & Light Duty Swaged Carbon Steel

Bar Size, Inches	Ped Span, Inches	Wt. Lbs. Sq. Ft.	Sec. Prop Sx*, in ³ Ix*, in ⁴	ClearSpan													
				2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0"		
3/4 x 3/16	53	9.28	0.307	U 920	589	409	301	230	182	U - Safe uniform load in pounds/sq. ft.							
				D 0.099	0.155	0.223	0.305	0.397	0.503	C - Safe concentrated load in pounds/ft. grating width							
			0.115	C 920	736	614	526	460	409	D - Deflection in inches							
				D 0.079	0.124	0.179	0.243	0.318	0.402	% Open Area*							
1 x 3/16	65	12.16	0.545	U 1636	1047	727	534	409	323	262	216	4" cc 66%					
				D 0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.562	2" cc 57%					
			0.273	C 1636	1309	1091	935	818	727	655	595	Loads and deflections are theoretical and based on a unit stress of 18,000 psi.					
				D 0.060	0.093	0.134	0.182	0.238	0.302	0.373	0.451						
1-1/4 x 3/16	77	15.04	0.852	U 2557	1636	1136	835	639	505	409	338	284	242				
				D 0.060	0.093	0.134	0.183	0.238	0.302	0.372	0.450	0.536	0.629				
			0.533	C 2557	2046	1705	1461	1278	1136	1023	930	852	787				
				D 0.048	0.075	0.107	0.146	0.191	0.241	0.298	0.361	0.429	0.504				
1-1/2 x 3/16	89	18.28	1.227	U 3682	2356	1636	1202	920	727	589	487	409	349	301	230		
				D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.525	0.609	0.794		
			0.920	C 3682	2946	2455	2104	1841	1636	1473	1339	1227	1133	1052	920		
				D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.357	0.420	0.487	0.635		
1-3/4 x 3/16	99	21.16	1.670	U 5011	3207	2227	1636	1253	990	802	663	557	474	409	313		
				D 0.043	0.066	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.449	0.521	0.681		
			1.462	C 5011	4009	3341	2864	2506	2227	2005	1822	1670	1542	1432	1253		
				D 0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545		
2 x 3/16	110	24.04	2.182	U 6546	4189	2909	2137	1636	1293	1047	866	727	620	534	409		
				D 0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.394	0.456	0.596		
			2.182	C 6546	5237	4364	3740	3273	2909	2618	2380	2182	2014	1870	1636		
				D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477		
2-1/4 x 3/16	120	26.74	2.761	U 8284	5302	3682	2705	2071	1636	1325	1095	920	784	676	518		
				D 0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.405	0.530		
			3.107	C 8284	6627	5523	4734	4142	3682	3314	3012	2761	2549	2367	2071		
				D 0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424		
2-1/2 x 3/16	130	29.62	3.409	U 10228	6546	4546	3340	2557	2020	1636	1352	1136	968	835	639		
				D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477		
			4.261	C 10228	8182	6818	5844	5114	4546	4091	3719	3409	3147	2922	2557		
				D 0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.214	0.252	0.292	0.381		

*Based on 17,455 bars/ft. of grating width. Bearing bars 11/16" c.c. Add .8 lbs./sq. ft. for 11-W-2. 1/8" bearing bars available by inquiry. Note: Grating for spans to the left of the heavy line have a deflection less than 1/4" for uniform loads of 100 lbs./sq. ft. This is the maximum deflection to afford pedestrian comfort and can be exceeded for other types of load at the discretion of the engineer. The actual Ped (pedestrian) Span under this condition is shown above for each size of grating. When serrated grating is specified, the depth of grating required for a specific load will be 1/4" greater than that shown in these tables. 3/4" x 3/16" serrated grating is not available.

Panel Width Chart (in.) - 11-W-4 & 11-W-2 Dimensions Are Out-to-Out of Bearing Bars**																
No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3/16" Bars	7/8	1-9/16	2-1/4	2-15/16	3-5/8	4-5/16	5	5-11/16	6-3/8	7-1/16	7-3/4	8-7/16	9-1/8	9-13/16	10-1/2	
No. of Bars	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3/16" Bars	11-3/16	11-7/8	12-9/16	13-1/4	13-15/16	14-5/8	15-5/16	16	16-11/16	17-3/8	18-1/16	18-3/4	19-7/16	20-1/8	20-13/16	
No. of Bars	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
3/16" Bars	21-1/2	22-3/16	22-7/8	23-9/16	24-1/4	24-15/16	25-5/8	26-5/16	27	27-11/16	28-3/8	29-1/16	29-3/4	30-7/16	31-1/8	
No. of Bars	47	48	49	50	51	52	53									
3/16" Bars	31-13/16	32-1/2	33-3/16	33-7/8	34-9/16	35-1/4	35-15/16									

**Deduct 1/16" for 1/8" bearing bars. Standard panel widths indicated in blue.

Panel Width Chart (in.) - 11-SGCS-4, 11-SGCS-2, 11-DT-4 & 11-DT-2 Dimensions Are Out-to-Out of Bearing Bars**																
No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3/16" Bars	7/8	1-9/16	2-1/4	2-15/16	3-5/8	4-5/16	5	5-11/16	6-3/8	7-1/16	7-3/4	8-7/16	9-1/8	9-13/16	10-1/2	
No. of Bars	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
3/16" Bars	11-3/16	11-7/8	12-9/16	13-1/4	13-15/16	14-5/8	15-5/16	16	16-11/16	17-3/8	18-1/16	18-3/4	19-7/16	20-1/8	20-13/16	
No. of Bars	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
3/16" Bars	21-1/2	22-3/16	22-7/8	23-9/16	24-1/4	24-15/16	25-5/8	26-5/16	27	27-11/16	28-3/8	29-1/16	29-3/4	30-7/16	31-1/8	
No. of Bars	47	48	49	50	51	52	53									
3/16" Bars	31-13/16	32-1/2	33-3/16	33-7/8	34-9/16	35-1/4	35-15/16									

**Add 1/4" for extended cross bars. Deduct 1/16" for 1/8" bearing bars. Standard panel widths indicated in blue.

7 SPACE LOAD TABLES

Light Duty Dove Tail & Light Duty Swaged Carbon Steel

Bar Size, Inches	Ped Span, Inches	Wt.* Lbs. Sq. Ft.	Sec. Prop Sx ³ , in ³ Ix ⁴ , in ⁴	ClearSpan											
				2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	6'- 6"	7'- 0"	8'- 0"
3/4 x 3/16	59	13.73	0.482	U 1446	926	643	472	362	286	231	U - Safe uniform load in pounds/sq. ft. C - Safe concentrated load in pounds/ft.grating width D - Deflection in inches Loads and deflections are theoretical and based on a unit stress of 18,000 psi.				
			0.181	D 0.099	0.155	0.223	0.304	0.398	0.503	0.620					
				C 1446	1157	964	827	723	643	579					
				D 0.079	0.124	0.179	0.243	0.318	0.402	0.497					
1 x 3/16	73	18.09	0.857	U 2571	1646	1143	840	643	508	411	340	286	% Open Area*		
			0.429	D 0.074	0.116	0.168	0.228	0.298	0.377	0.465	0.563	0.671	4" cc 52%	2" cc 48%	
				C 2571	2057	1714	1469	1286	1143	1029	935	857			
				D 0.060	0.093	0.134	0.182	0.238	0.302	0.373	0.451	0.536			
1-1/4 x 3/16	86	22.45	1.339	U 4018	2571	1786	1312	1004	794	643	531	446	380	328	251
			0.837	D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.450	0.536	0.629	0.730	0.953
				C 4018	3214	2679	2296	2009	1786	1607	1461	1339	1236	1148	1004
				D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.503	0.584	0.762
1-1/2 x 3/16	99	26.81	1.929	U 5786	3703	2571	1889	1446	1143	926	765	643	548	472	362
			1.446	D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.375	0.447	0.525	0.608	0.795
				C 5786	4629	3857	3306	2893	2571	2314	2104	1929	1780	1653	1446
				D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.635
1-3/4 x 3/16	111	31.20	2.625	U 7875	5040	3500	2571	1969	1556	1260	1041	875	746	643	492
			2.297	D 0.043	0.067	0.096	0.130	0.170	0.216	0.266	0.322	0.383	0.450	0.521	0.681
				C 7875	6300	5250	4500	3938	3500	3150	2864	2625	2423	2250	1969
				D 0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.258	0.306	0.360	0.417	0.545
2 x 3/16	123	35.59	3.429	U 10286	6583	4572	3359	2571	2032	1646	1360	1143	974	840	643
			3.429	D 0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596
				C 10286	8229	6857	5878	5143	4572	4114	3740	3429	3165	2939	2571
				D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477
2-1/4 x 3/16	134	39.92	4.339	U 13018	8332	5786	4251	3255	2571	2083	1721	1446	1232	1063	814
			4.882	D 0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.406	0.530
				C 13018	10414	8679	7439	6509	5786	5207	4734	4339	4006	3719	3255
				D 0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424
2-1/2 x 3/16	145	44.31	5.357	U 16072	10286	7143	5248	4018	3175	2571	2125	1786	1522	1312	1004
			6.697	D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.476
				C 16072	12857	10714	9184	8036	7143	6429	5844	5357	4945	4592	4018
				D 0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381

*Based on 27.429 bars/ft. of grating width. Bearing bars 7/16" c.c. Add .6 lbs./sq. ft. for 7-SGCS-2. 1/8" bearing bars available by inquiry. Note: Grating for spans to the left of the heavy line have a deflection less than 1/4" for uniform loads of 100 lbs./sq. ft. This is the maximum deflection to afford pedestrian comfort and can be exceeded for other types of load at the discretion of the engineer. The actual Ped (pedestrian) Span under this condition is shown above for each size of grating. When serrated grating is specified, the depth of grating required for a specific load will be 1/4" greater than that shown in these tables. 3/4" x 3/16" serrated grating is not available.

Panel Width Chart (in.) - 7-SGCS-4, 7-SGCS-2, 7-DT-4 & 7-DT-2 Dimensions Are Out-to-Out of Bearing Bars**

No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
3/16" Bars	5/8	1-1/16	1-1/2	1-15/16	2-3/8	2-13/16	3-1/4	3-11/16	4-1/8	4-9/16	5	5-7/16	5-7/8	6-5/16	6-3/4
No. of Bars	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
3/16" Bars	7-3/16	7-5/8	8-1/16	8-1/2	8-15/16	9-3/8	9-13/16	10-1/4	10-11/16	11-1/8	11-9/16	12	12-7/16	12-7/8	13-5/16
No. of Bars	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
3/16" Bars	13-3/4	14-3/16	14-5/8	15-1/16	15-1/2	15-15/16	16-3/8	16-13/16	17-1/4	17-11/16	18-1/8	18-9/16	19	19-7/16	19-7/8
No. of Bars	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
3/16" Bars	20-5/16	20-3/4	21-3/16	21-5/8	22-1/16	22-1/2	22-15/16	23-3/8	23-13/16	24-1/4	24-11/16	25-1/8	25-9/16	26	26-7/16
No. of Bars	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
3/16" Bars	26-7/8	27-5/16	27-3/4	28-3/16	28-5/8	29-11/16	29-1/2	29-15/16	30-3/8	30-13/16	31-1/4	31-11/16	32-1/8	32-9/16	33
No. of Bars	77	78	79	80	81	82	83								
3/16" Bars	33-7/16	33-7/8	34-5/16	34-3/4	35-3/16	35-5/8	36-1/16								

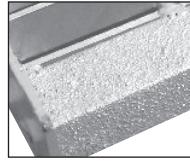
**Add 1/4" for extended cross bars. Deduct 1/16" for 1/8" bearing bars. Standard panel widths indicated in blue.

STAIR TREADS

STEEL STAIR TREAD



► **Checkerplate Nosing
is Standard on
Steel treads**



► **OnGrip® Spray
Traction Surface
Nosing is available**



► **Aluminum Abrasive
OnGrip® Nosing is
Available on Steel Treads**

Maximum Tread Length² (in.)

Bar Size, Inches	W, SGCS, SGSS, DT Series Plain Surface				W, SGCS, SGSS, DT Series Serrated Surface			
	19 1-3/16" c.c.	15 15/16" c.c.	11 11/16" c.c.	7 7/16" c.c.	19 1-3/16" c.c.	15 15/16" c.c.	11 11/16" c.c.	7 7/16" c.c.
1 x 1/8	31	36	41	51	27	30	34	45
1 x 3/16	41	48	51	59	34	40	45	51
1 x 1/4	49	53			42	46		
1-1/4 x 1/8	43	50	56	66	37	43	49	58
1-1/4 x 3/16	56	61	66	66	50	54	58	66
1-1/4 x 1/4	63	66			56	60		
1-1/2 x 1/8	56	65	66	66	49	58	63	66
1-1/2 x 3/16	66	66	66	76	63	66	66	68
1-1/2 x 1/4	66	67			66	66		
1-3/4 x 3/16	66	72	78	95	66	66	71	85
1-3/4 x 1/4	74	82			67	74		
2 x 3/16	78	87	95	115	72	79	86	105
2 x 1/4	89	99			82	91		
2-1/4 x 3/16	92	103	112	136	85	95	103	125
2-1/4 x 1/4	106	118			97	108		
2-1/2 x 3/16	107	119	130	159	100	111	121	148
2-1/2 x 1/4	123	137			114	127		

Additional configurations available upon inquiry. 1. Table of widths based on 3/16" thick bearing bars (1/4" I-Bar) and standard 1-3/16" c.c. bar spacing (1-1/8" face-to-face for riveted grating). 2. Maximum tread length based on 300# concentrated load on front 5" of tread at center of tread length and max. D=1/240 of length. Design treads exceeding 66" length for 300# concentrated loads at 1/3 points. Note: Riveted grating treads available upon inquiry.

Carrier Plate Dimensions

Grating Depth	DIM "B"	DIM "C"
1"	1-3/4"	2-1/2"
1-1/4"	1-3/4"	2-1/2"
1-1/2"	2-1/4"	3"
1-3/4"	2-1/4"	3"
2"	3-1/4"	4"
2-1/4"	3-1/4"	4"
2-1/2"	3-1/4"	4"

Standard Tread Widths¹

# of bearing bars	Width (includes nosing)		DIM "A"
	W, SGCS, SGSS, DT Series	R Series	
5	6-3/16"	6-11/16"	2-1/2"
6	7-3/8"	8"	4-1/2"
7	8-9/16"	9-5/16"	4-1/2"
8	9-3/4"	10-5/8"	7"
9	10-15/16"	11-15/16"	7"
10	12-1/8"	13-1/4"	7"