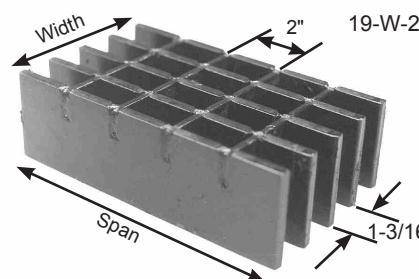
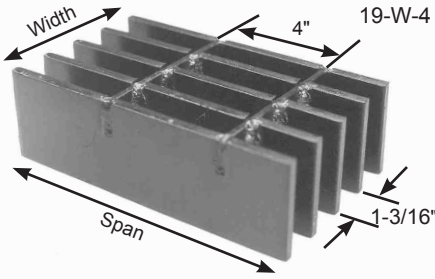


19 SPACE



		% Open Area*			
BB Size	CB Ctrs	Bearing Bar Thickness			
		1/4"	5/16"	3/8"	1/2"
Thru	4" cc	72%	67%	62%	—
2-1/2"	2" cc	65%	61%	56%	—
3" to 6"	4" cc	74%	69%	64%	54%
	2" cc	70%	65%	60%	51%

Bar Size, Inches	Wt.** Lbs. Sq. Ft.	Section Properties		Maximum Safe Clear Span, Inches- Partially Distributed Load			
		Sx**, in ³ Ft. Width	Ix**, in ⁴ Ft. Width	1 Ton	3 Ton	5 Ton	H15/H20
1 x 1/4	9.71	0.421	0.211	7	6	7	9
1 x 3/8	14.01	0.632	0.316	9	8	9	11
1-1/4 x 1/4	11.87	0.658	0.411	10	8	9	12
1-1/4 x 3/8	17.23	0.987	0.617	14	10	12	14
1-1/2 x 1/4	14.01	0.947	0.711	13	10	11	14
1-1/2 x 5/16	17.23	1.184	0.888	16	11	13	16
1-1/2 x 3/8	20.46	1.421	1.066	19	13	14	18
1-3/4 x 1/4	16.16	1.289	1.128	17	12	14	17
1-3/4 x 3/8	23.67	1.934	1.692	25	17	18	21
2 x 1/4	18.30	1.684	1.684	22	15	16	20
2 x 5/16	22.60	2.105	2.105	28	18	19	23
2 x 3/8	26.89	2.526	2.526	33	21	22	26
2-1/4 x 1/4	20.46	2.132	2.398	28	18	19	23
2-1/4 x 3/8	30.12	3.197	3.597	41	26	26	31
2-1/2 x 1/4	22.60	2.632	3.289	34	22	22	27
2-1/2 x 5/16	27.96	3.289	4.112	42	27	27	31
2-1/2 x 3/8	33.34	3.947	4.934	50	31	31	36
3 x 1/4	28.32	3.789	5.684	49	30	30	35
3 x 5/16	34.76	4.737	7.105	60	37	36	42
3 x 3/8	41.20	5.684	8.526	67*	44	43	49
3 x 1/2	54.09	7.579	11.368	78*	57	55	61*
3-1/2 x 1/4	32.61	5.158	9.026	66	40	39	45
3-1/2 x 3/8	47.65	7.737	13.539	85*	58	56	64
3-1/2 x 1/2	62.67	10.316	18.052	96	75*	72*	76*
4 x 1/4	36.91	6.737	13.473	85*	51	50	57
4 x 5/16	45.50	8.421	16.842	95*	63	61	70
4 x 3/8	54.09	10.105	20.210	96	75	72	80*
4 x 1/2	71.26	13.473	26.947	96	91*	88*	92*
4-1/2 x 1/4	41.20	8.526	19.184	96	64	61	70
4-1/2 x 3/8	60.53	12.789	28.776	96	94*	90	95*
4-1/2 x 1/2	79.85	17.052	38.367	96	96	96	96
5 x 1/4	45.50	10.526	26.315	96	78	75	85
5 x 5/16	56.24	13.158	32.894	96	96	92	96
5 x 3/8	66.97	15.789	39.473	96	96	96	96
5 x 1/2	88.44	21.052	52.630	96	96	96	96
5-1/2 x 1/4	49.79	12.737	35.025	96	94	89	96
5-1/2 x 3/8	73.42	19.105	52.538	96	96	96	96
5-1/2 x 1/2	97.03	25.473	70.051	96	96	96	96
6 x 1/4	54.09	15.158	45.473	96	96	96	96
6 x 5/16	66.97	18.947	56.841	96	96	96	96
6 x 3/8	79.85	22.736	68.209	96	96	96	96
6 x 1/2	105.62	30.315	90.945	96	96	96	96

*Span limited to 1/400 of span = Deflection. **Based on 10.105 bars/ft of grating width. Bearing bars 1-3/16" c.c.
When serrated grating is specified, the depth of grating required for a specified load will be 1/4" greater than that shown in these tables. Weights shown are for 4" cross bar centers. Add 1.13 lbs./sq. ft. (3/8" Dia.) or 2.55 lbs./sq. ft. (1" x 1/4") for 2" cross bar centers. Cross bars are determined based on project applications and bearing bar height.

19 SPACE

Bar Size Inches	Maximum Safe Concentrated Load*, Lbs. - Clear Span													
	1'- 0"	1'- 6"	2'- 0"	2'- 6"	3'- 0"	3'- 6"	4'- 0"	4'- 6"	5'- 0"	5'- 6"	6'- 0"	7'- 0"	8'- 0"	
1 x 1/4	2807	1871	1403	1123	936	802								
1 x 3/8	4213	2809	2107	1685	1404	1204								
1-1/4 x 1/4	4387	2924	2193	1755	1462	1253	1097							
1-1/4 x 3/8	6580	4387	3290	2632	2193	1880	1645							
1-1/2 x 1/4	6313	4209	3157	2525	2104	1804	1578	1403						
1-1/2 x 5/16	7893	5262	3947	3157	2631	2255	1973	1754						
1-1/2 x 3/8	9473	6316	4737	3789	3158	2707	2368	2105						
1-3/4 x 1/4	8593	5729	4297	3437	2864	2455	2148	1910	1719					
1-3/4 x 3/8	12893	8596	6447	5157	4298	3684	3223	2865	2579					
2 x 1/4	11227	7484	5613	4491	3742	3208	2807	2495	2245					
2 x 5/16	14033	9356	7017	5613	4678	4010	3508	3119	2807					
2 x 3/8	16840	11227	8420	6736	5613	4811	4210	3742	3368					
2-1/4 x 1/4	14213	9476	7107	5685	4738	4061	3553	3159	2843	2584				
2-1/4 x 3/8	21313	14209	10657	8525	7104	6090	5328	4736	4263	3875				
2-1/2 x 1/4	17547	11698	8773	7019	5849	5013	4387	3899	3509	3190	2924			
2-1/2 x 5/16	21927	14618	10963	8771	7309	6265	5482	4873	4385	3987	3654			
2-1/2 x 3/8	26313	17542	13157	10525	8771	7518	6578	5847	5263	4784	4386			
3 x 1/4	25260	16840	12630	10104	8420	7217	6315	5613	5052	4593	4210			
3 x 5/16	31580	21053	15790	12632	10527	9023	7895	7018	6316	5742	5263			
3 x 3/8	37893	25262	18947	15157	12631	10827	9473	8421	7579	6890	6316			
3 x 1/2	50527	33684	25263	20211	16842	14436	12632	11228	10105	9187	8421			
3-1/2 x 1/4	34387	22924	17193	13755	11462	9825	8597	7641	6877	6252	5731	4912		
3-1/2 x 3/8	51580	34387	25790	20632	17193	14737	12895	11462	10316	9378	8597	7369		
3-1/2 x 1/2		45849	34387	27509	22924	19650	17193	15283	13755	12504	11462	9825		
4 x 1/4		29942	22457	17965	14971	12832	11228	9981	8983	8166	7486	6416		
4 x 5/16		37427	28070	22456	18713	16040	14035	12476	11228	10207	9357	8020		
4 x 3/8		44911	33683	26947	22456	19248	16842	14970	13473	12248	11228	9624		
4 x 1/2		59880	44910	35928	29940	25663	22455	19960	17964	16331	14970	12831		
4-1/2 x 1/4		37893	28420	22736	18947	16240	14210	12631	11368	10335	9473	8120	7105	
4-1/2 x 3/8		56840	42630	34104	28420	24360	21315	18947	17052	15502	14210	12180	10658	
4-1/2 x 1/2			56840	45472	37893	32480	28420	25262	22736	20669	18947	16240	14210	
5 x 1/4			35087	28069	23391	20050	17543	15594	14035	12759	11696	10025	8772	
5 x 5/16			43860	35088	29240	25063	21930	19493	17544	15949	14620	12531	10965	
5 x 3/8			52630	42104	35087	30074	26315	23391	21052	19138	17543	15037	13158	
5 x 1/2				56139	46782	40099	35087	31188	28069	25518	23391	20050	17543	
5-1/2 x 1/4				33965	28304	24261	21228	18870	16983	15439	14152	12130	10614	
5-1/2 x 3/8				50947	42456	36390	31842	28304	25473	23158	21228	18195	15921	
5-1/2 x 1/2					56607	48520	42455	37738	33964	30876	28303	24260	21228	
6 x 1/4					33684	28872	25263	22456	20211	18373	16842	14436	12632	
6 x 5/16					42104	36090	31578	28070	25263	22966	21052	18045	15789	
6 x 3/8					50524	43307	37893	33683	30315	27559	25262	21653	18947	
6 x 1/2						57743	50525	44911	40420	36745	33683	28871	25263	

% Open Area*					
BB Size	CB Ctrs	Bearing Bar Thickness			
		1/4"	5/16"	3/8"	1/2"
Thru 2-1/2"	4" cc	72%	67%	62%	-
	2" cc	65%	61%	56%	-
3" to 6"	4" cc	74%	69%	64%	54%
	2" cc	70%	65%	60%	51%

Loads are theoretical, and are based on a unit stress of 20,000 psi.

*Based on 10.105 bars / ft. of grating width. Bearing bars 1-3/16" c.c. Note: 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.

Panel Width Chart (in.) - 19-W-4 & 19-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
1/4" Bars	1-7/16	2-5/8	3-13/16	5	6-3/16	7-3/8	8-9/16	9-3/4	10-15/16	12-1/8	13-5/16	14-1/2	15-11/16	16-7/8	18-1/16
5/16" Bars	1-1/2	2-11/16	3-7/8	5-1/16	6-1/4	7-7/16	8-5/8	9-13/16	11	12-3/16	13-3/8	14-9/16	15-3/4	16-15/16	18-1/8
3/8" Bars	1-9/16	2-3/4	3-15/16	5-1/8	6-5/16	7-1/2	8-11/16	9-7/8	11-1/16	12-1/4	13-7/16	14-5/8	15-13/16	17	18-3/16
1/2" Bars	1-11/16	2-7/8	4-1/16	5-1/4	6-7/16	7-5/8	8-13/16	10	11-3/16	12-3/8	13-9/16	14-3/4	15-15/16	17-1/8	18-5/16
No. of Bars	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1/4" Bars	19-1/4	20-7/16	21-5/8	22-13/16	24	25-3/16	26-3/8	27-9/16	28-3/4	29-15/16	31-1/8	32-5/16	33-1/2	34-11/16	35-7/8
5/16" Bars	19-5/16	20-1/2	21-11/16	22-7/8	24-1/16	25-1/4	26-7/16	27-5/8	28-13/16	30	31-3/16	32-3/8	33-9/16	34-3/4	35-15/16
3/8" Bars	19-3/8	20-9/16	21-3/4	22-15/16	24-1/8	25-5/16	26-1/2	27-11/16	28-7/8	30-1/16	31-1/4	32-7/16	33-5/8	34-13/16	36
1/2" Bars	19-1/2	20-11/16	21-7/8	23-1/16	24-1/4	25-7/16	26-5/8	27-13/16	29	30-3/16	31-3/8	32-9/16	33-3/4	34-15/16	36-1/8