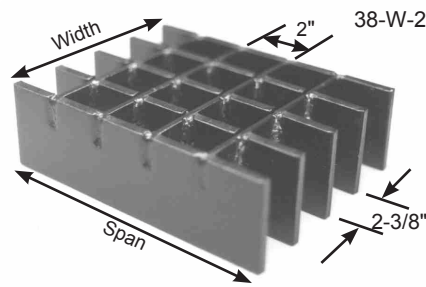
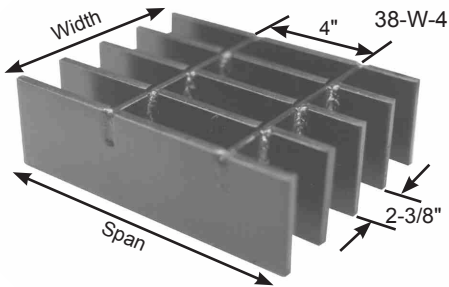


38 SPACE



BB Size	CB Ctrs	% Open Area*			
		Bearing Bar Thickness			
		1/4"	5/16"	3/8"	1/2"
Thru 2-1/2"	4" cc	82%	80%	77%	—
	2" cc	76%	73%	71%	—
3" to 6"	4" cc	84%	82%	79%	74%
	2" cc	80%	78%	75%	71%

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	5.42	0.211	0.105	5	5	6	7
1 x 3/8	7.57	0.316	0.158	7	6	7	8
1-1/4 x 1/4	6.50	0.329	0.206	7	6	7	9
1-1/4 x 3/8	9.18	0.493	0.308	10	7	9	11
1-1/2 x 1/4	7.57	0.474	0.355	10	7	9	10
1-1/2 x 5/16	9.18	0.592	0.444	12	8	10	12
1-1/2 x 3/8	10.79	0.711	0.533	14	9	11	13
1-3/4 x 1/4	8.64	0.645	0.564	12	9	10	12
1-3/4 x 3/8	12.40	0.967	0.846	18	12	13	15
2 x 1/4	9.72	0.842	0.842	16	11	12	14
2 x 5/16	11.86	1.053	1.053	19	12	13	16
2 x 3/8	14.01	1.263	1.263	23	14	15	18
2-1/4 x 1/4	10.79	1.066	1.199	20	13	13	16
2-1/4 x 3/8	15.62	1.599	1.799	29	17	17	20
2-1/2 x 1/4	11.86	1.316	1.645	24	15	15	18
2-1/2 x 5/16	14.55	1.645	2.056	30	18	18	21
2-1/2 x 3/8	17.23	1.974	2.467	35	21	20	24
3 x 1/4	15.44	1.895	2.842	34	20	20	23
3 x 5/16	18.66	2.369	3.553	42	24	23	27
3 x 3/8	21.88	2.842	4.263	50	29	27	31
3 x 1/2	28.32	3.790	5.685	64*	37	35	39
3-1/2 x 1/4	17.58	2.579	4.513	45	26	25	29
3-1/2 x 3/8	25.10	3.869	6.770	67	38	35	40
3-1/2 x 1/2	32.62	5.158	9.027	81*	49	45	50
4 x 1/4	19.73	3.369	6.737	59	33	31	35
4 x 5/16	24.03	4.211	8.422	73	41	38	43
4 x 3/8	28.32	5.053	10.106	86*	48	44	50
4 x 1/2	36.91	6.737	13.475	96	63	57	63
4-1/2 x 1/4	21.88	4.263	9.593	74	41	38	43
4-1/2 x 3/8	31.54	6.395	14.389	96	60	55	60
4-1/2 x 1/2	41.21	8.527	19.186	96	80	71	77
5 x 1/4	24.03	5.264	13.159	91	50	46	51
5 x 5/16	29.40	6.579	16.449	96	62	56	62
5 x 3/8	34.76	7.895	19.738	96	74	66	72
5 x 1/2	45.50	10.527	26.318	96	96	87	93
5-1/2 x 1/4	26.17	6.369	17.514	96	60	55	60
5-1/2 x 3/8	37.99	9.553	26.272	96	89	79	85
5-1/2 x 1/2	49.80	12.738	35.029	96	96	96	96
6 x 1/4	28.32	7.580	22.739	96	71	64	70
6 x 5/16	34.76	9.474	28.423	96	88	79	85
6 x 3/8	41.21	11.369	34.108	96	96	94	96
6 x 1/2	54.09	15.159	45.477	96	96	96	96

*Span limited to 1/400 of span = Deflection. **Based on 5.053 bars/ft of grating width. Bearing bars 2-3/8" 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.

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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	1407	938	703	563	469	402								
1 x 3/8	2107	1404	1053	843	702	602								
1-1/4 x 1/4	2193	1462	1097	877	731	627	548							
1-1/4 x 3/8	3287	2191	1643	1315	1096	939	822							
1-1/2 x 1/4	3160	2107	1580	1264	1053	903	790	702						
1-1/2 x 5/16	3947	2631	1973	1579	1316	1128	987	877						
1-1/2 x 3/8	4740	3160	2370	1896	1580	1354	1185	1053						
1-3/4 x 1/4	4300	2867	2150	1720	1433	1229	1075	956	860					
1-3/4 x 3/8	6447	4298	3223	2579	2149	1842	1612	1433	1289					
2 x 1/4	5613	3742	2807	2245	1871	1604	1403	1247	1123					
2 x 5/16	7020	4680	3510	2808	2340	2006	1755	1560	1404					
2 x 3/8	8420	5613	4210	3368	2807	2406	2105	1871	1684					
2-1/4 x 1/4	7107	4738	3553	2843	2369	2030	1777	1579	1421	1292				
2-1/4 x 3/8	10660	7107	5330	4264	3553	3046	2665	2369	2132	1938				
2-1/2 x 1/4	8773	5849	4387	3509	2924	2507	2193	1950	1755	1595	1462			
2-1/2 x 5/16	10967	7311	5483	4387	3656	3133	2742	2437	2193	1994	1828			
2-1/2 x 3/8	13160	8773	6580	5264	4387	3760	3290	2924	2632	2393	2193			
3 x 1/4	12633	8422	6317	5053	4211	3610	3158	2807	2527	2297	2106			
3 x 5/16	15793	10529	7897	6317	5264	4512	3948	3510	3159	2872	2632			
3 x 3/8	18947	12631	9473	7579	6316	5413	4737	4210	3789	3445	3158			
3 x 1/2	25267	16844	12633	10107	8422	7219	6317	5615	5053	4594	4211			
3-1/2 x 1/4	17193	11462	8597	6877	5731	4912	4298	3821	3439	3126	2866	2456		
3-1/2 x 3/8	25793	17196	12897	10317	8598	7370	6448	5732	5159	4690	4299	3685		
3-1/2 x 1/2	34387	22924	17193	13755	11462	9825	8597	7641	6877	6252	5731	4912		
4 x 1/4	22460	14973	11230	8984	7487	6417	5615	4991	4492	4084	3743	3209		
4 x 5/16	28073	18716	14037	11229	9358	8021	7018	6239	5615	5104	4679	4010		
4 x 3/8	33687	22458	16843	13475	11229	9625	8422	7486	6737	6125	5614	4812		
4 x 1/2	44913	29942	22457	17965	14971	12832	11228	9981	8983	8166	7486	6416		
4-1/2 x 1/4	28420	18947	14210	11368	9473	8120	7105	6316	5684	5167	4737	4060	3553	
4-1/2 x 3/8	42633	28422	21317	17053	14211	12181	10658	9474	8527	7752	7106	6090	5329	
4-1/2 x 1/2	56847	37898	28423	22739	18949	16242	14212	12633	11369	10336	9474	8121	7106	
5 x 1/4	35093	23396	17547	14037	11698	10027	8773	7799	7019	6381	5849	5013	4387	
5 x 5/16	43860	29240	21930	17544	14620	12531	10965	9747	8772	7975	7310	6266	5483	
5 x 3/8	52633	35089	26317	21053	17544	15038	13158	11696	10527	9570	8772	7519	6579	
5 x 1/2		46787	35090	28072	23393	20051	17545	15596	14036	12760	11697	10026	8773	
5-1/2 x 1/4		28307	21230	16984	14153	12131	10615	9436	8492	7720	7077	6066	5308	
5-1/2 x 3/8		42458	31843	25475	21229	18196	15922	14153	12737	11579	10614	9098	7961	
5-1/2 x 1/2		56613	42460	33968	28307	24263	21230	18871	16984	15440	14153	12131	10615	
6 x 1/4		33689	25267	20213	16844	14438	12633	11230	10107	9188	8422	7219	6317	
6 x 5/16		42107	31580	25264	21053	18046	15790	14036	12632	11484	10527	9023	7895	
6 x 3/8		50529	37897	30317	25264	21655	18948	16843	15159	13781	12632	10828	9474	
6 x 1/2			50530	40424	33687	28874	25265	22458	20212	18375	16843	14437	12633	

% Open Area*					
BB Size	CB Ctrs	Bearing Bar Thickness			
		1/4"	5/16"	3/8"	1/2"
Thru 2-1/2"	4" cc	82%	80%	77%	-
	2" cc	76%	73%	71%	-
3" to 6"	4" cc	84%	82%	79%	74%
	2" cc	80%	78%	75%	71%

*Based on 5.053 bars / ft. of grating width. Bearing bars 2-3/8" 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. Loads are theoretical and are based on a unit stress of 20,000 psi.

Panel Width Chart (in.) - 38-W-4 & 38-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	2-5/8	5	7-3/8	9-3/4	12-1/8	14-1/2	16-7/8	19-1/4	21-5/8	24	26-3/8	28-3/4	31-1/8	33-1/2	35-7/8
5/16" Bars	2-11/16	5-1/16	7-7/16	9-13/16	12-3/16	14-9/16	16-15/16	19-5/16	21-11/16	24-1/16	26-7/16	28-13/16	31-3/16	33-9/16	35-15/16
3/8" Bars	2-3/4	5-1/8	7-1/2	9-7/8	12-1/4	14-5/8	17	19-3/8	21-3/4	24-1/8	26-1/2	28-7/8	31-1/4	33-5/8	36
1/2" Bars	2-7/8	5-1/4	7-5/8	10	12-3/8	14-3/4	17-1/8	19-1/2	21-7/8	24-1/4	26-5/8	29	31-3/8	33-3/4	36-1/8