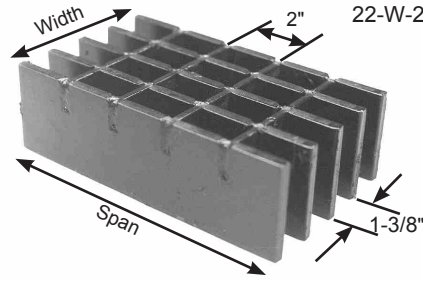
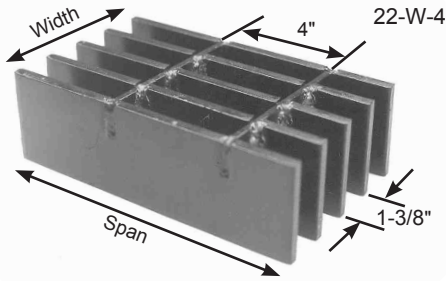


22 SPACE



BB Size	CB Ctrs	% Open Area*			
		Bearing Bar Thickness			
		1/4"	5/16"	3/8"	1/2"
Thru	4" cc	75%	70%	66%	—
2-1/2"	2" cc	68%	64%	60%	—
3" to	4" cc	77%	72%	68%	60%
6"	2" cc	72%	68%	64%	56%

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	8.54	0.364	0.182	6	6	7	9
1 x 3/8	12.25	0.545	0.273	9	7	9	11
1-1/4 x 1/4	10.40	0.568	0.355	9	7	9	11
1-1/4 x 3/8	15.04	0.852	0.533	13	9	11	13
1-1/2 x 1/4	12.25	0.818	0.614	12	9	11	13
1-1/2 x 5/16	15.04	1.023	0.767	15	11	12	15
1-1/2 x 3/8	17.82	1.227	0.920	18	12	13	16
1-3/4 x 1/4	14.11	1.114	0.974	16	11	13	15
1-3/4 x 3/8	20.59	1.670	1.462	23	15	16	20
2 x 1/4	15.96	1.455	1.455	21	14	15	18
2 x 5/16	19.67	1.818	1.818	25	17	17	21
2 x 3/8	23.38	2.182	2.182	30	19	20	24
2-1/4 x 1/4	17.82	1.841	2.071	26	17	18	21
2-1/4 x 3/8	26.16	2.761	3.106	38	24	24	28
2-1/2 x 1/4	19.67	2.273	2.841	31	20	20	24
2-1/2 x 5/16	24.30	2.841	3.551	39	24	24	29
2-1/2 x 3/8	28.95	3.409	4.261	46	28	28	33
3 x 1/4	24.80	3.273	4.909	45	27	27	32
3 x 5/16	30.37	4.091	6.136	55	33	33	38
3 x 3/8	35.93	4.909	7.363	64*	40	38	44
3 x 1/2	47.06	6.545	9.818	74*	52	50	57*
3-1/2 x 1/4	28.51	4.454	7.795	60	36	35	41
3-1/2 x 3/8	41.50	6.682	11.693	81*	53	50	58
3-1/2 x 1/2	54.48	8.909	15.590	94*	69	66	71*
4 x 1/4	32.22	5.818	11.636	78	46	45	51
4 x 5/16	39.64	7.273	14.545	91*	57	54	62
4 x 3/8	47.06	8.727	17.454	96	68	64	73
4 x 1/2	61.89	11.636	23.272	96	86*	83*	87*
4-1/2 x 1/4	35.93	7.363	16.568	96	58	55	63
4-1/2 x 3/8	52.63	11.045	24.851	96	85	80	89*
4-1/2 x 1/2	69.31	14.727	33.135	96	96	96	96
5 x 1/4	39.64	9.091	22.727	96	71	67	76
5 x 5/16	48.92	11.363	28.408	96	88	82	92
5 x 3/8	58.18	13.636	34.090	96	96	96	96
5 x 1/2	76.73	18.181	45.453	96	96	96	96
5-1/2 x 1/4	43.35	11.000	30.249	96	85	80	90
5-1/2 x 3/8	63.75	16.499	45.374	96	96	96	96
5-1/2 x 1/2	84.15	21.999	60.498	96	96	96	96
6 x 1/4	47.06	13.091	39.272	96	96	94	96
6 x 5/16	58.18	16.363	49.089	96	96	96	96
6 x 3/8	69.31	19.636	58.907	96	96	96	96
6 x 1/2	91.57	26.181	78.543	96	96	96	96

*Span limited to 1/400 of span = Deflection. **Based on 8.727 bars/ft of grating width. Bearing bars 1-3/8" 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.

22 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	2427	1618	1213	971	809	693							
1 x 3/8	3633	2422	1817	1453	1211	1038							
1-1/4 x 1/4	3787	2524	1893	1515	1262	1082	947						
1-1/4 x 3/8	5680	3787	2840	2272	1893	1623	1420						
1-1/2 x 1/4	5453	3636	2727	2181	1818	1558	1363	1212					
1-1/2 x 5/16	6820	4547	3410	2728	2273	1949	1705	1516					
1-1/2 x 3/8	8180	5453	4090	3272	2727	2337	2045	1818					
1-3/4 x 1/4	7427	4951	3713	2971	2476	2122	1857	1650	1485				
1-3/4 x 3/8	11133	7422	5567	4453	3711	3181	2783	2474	2227				
2 x 1/4	9700	6467	4850	3880	3233	2771	2425	2156	1940				
2 x 5/16	12120	8080	6060	4848	4040	3463	3030	2693	2424				
2 x 3/8	14547	9698	7273	5819	4849	4156	3637	3233	2909				
2-1/4 x 1/4	12273	8182	6137	4909	4091	3507	3068	2727	2455	2232			
2-1/4 x 3/8	18407	12271	9203	7363	6136	5259	4602	4090	3681	3347			
2-1/2 x 1/4	15153	10102	7577	6061	5051	4330	3788	3367	3031	2755	2526		
2-1/2 x 5/16	18940	12627	9470	7576	6313	5411	4735	4209	3788	3444	3157		
2-1/2 x 3/8	22727	15151	11363	9091	7576	6493	5682	5050	4545	4132	3788		
3 x 1/4	21820	14547	10910	8728	7273	6234	5455	4849	4364	3967	3637		
3 x 5/16	27273	18182	13637	10909	9091	7792	6818	6061	5455	4959	4546		
3 x 3/8	32727	21818	16363	13091	10909	9350	8182	7273	6545	5950	5454		
3 x 1/2	43633	29089	21817	17453	14544	12467	10908	9696	8727	7933	7272		
3-1/2 x 1/4	29693	19796	14847	11877	9898	8484	7423	6599	5939	5399	4949	4242	
3-1/2 x 3/8	44547	29698	22273	17819	14849	12728	11137	9899	8909	8099	7424	6364	
3-1/2 x 1/2	59393	39596	29697	23757	19798	16970	14848	13199	11879	10799	9899	8485	
4 x 1/4	38787	25858	19393	15515	12929	11082	9697	8619	7757	7052	6464	5541	
4 x 5/16	48487	32324	24243	19395	16162	13853	12122	10775	9697	8816	8081	6927	
4 x 3/8	58180	38787	29090	23272	19393	16623	14545	12929	11636	10578	9697	8311	
4 x 1/2		51716	38787	31029	25858	22164	19393	17239	15515	14104	12929	11082	
4-1/2 x 1/4		32724	24543	19635	16362	14025	12272	10908	9817	8925	8181	7012	6136
4-1/2 x 3/8		49089	36817	29453	24544	21038	18404	16363	14727	13388	12272	10519	9204
4-1/2 x 1/2			49090	39272	32727	28051	24545	21818	19636	17851	16363	14026	12273
5 x 1/4			30303	24243	20202	17316	15152	13468	12121	11019	10101	8658	7576
5 x 5/16			37877	30301	25251	21644	18938	16834	15151	13773	12626	10822	9469
5 x 3/8			45453	36363	30302	25973	22727	20201	18181	16528	15151	12987	11363
5 x 1/2				48483	40402	34630	30302	26935	24241	22038	20201	17315	15151
5-1/2 x 1/4				29333	24444	20952	18333	16296	14667	13333	12222	10476	9167
5-1/2 x 3/8				43997	36664	31427	27498	24443	21999	19999	18332	15713	13749
5-1/2 x 1/2				58664	48887	41903	36665	32591	29332	26665	24443	20951	18333
6 x 1/4				34909	29091	24935	21818	19394	17455	15868	14546	12468	10909
6 x 5/16				43635	36362	31168	27272	24241	21817	19834	18181	15584	13636
6 x 3/8				52363	43636	37402	32727	29090	26181	23801	21818	18701	16363
6 x 1/2					58180	49869	43635	38787	34908	31735	29090	24934	21818

% Open Area*					
BB Size	CB Ctrs	Bearing Bar Thickness			
		1/4"	5/16"	3/8"	1/2"
Thru	4" cc	75%	70%	66%	-
2-1/2"	2" cc	68%	64%	60%	-
3" to 6"	4" cc	77%	72%	68%	60%
	2" cc	72%	68%	64%	56%

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

*Based on 8.727 bars / ft. of grating width. Bearing bars 1-3/8" 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.

Panel Width Chart (in.) - 22-W-4 & 22-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	1-5/8	3	4-3/8	5-3/4	7-1/8	8-1/2	9-7/8	11-1/4	12-5/8	14	15-3/8	16-3/4	18-1/8	19-1/2	20-7/8
5/16" Bars	1-11/16	3-1/16	4-7/16	5-13/16	7-3/16	8-9/16	9-15/16	11-5/16	12-11/16	14-1/16	15-7/16	16-13/16	18-3/16	19-9/16	20-15/16
3/8" Bars	1-3/4	3-1/8	4-1/2	5-7/8	7-1/4	8-5/8	10	11-3/8	12-3/4	14-1/8	15-1/2	16-7/8	18-1/4	19-5/8	21
1/2" Bars	1-7/8	3-1/4	4-5/8	6	7-3/8	8-3/4	10-1/8	11-1/2	12-7/8	14-1/4	15-5/8	17	18-3/8	19-3/4	21-1/8

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