

W-19-4 Heavy Duty Welded Steel Grating

W-19-4/W-19-2 Static Loading (Other Spacings Available)

Bearing Bar Size	Approx. Wt.lb/sq ft	Safe Concentrated Load, pounds per ft. of width, 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"
1x1/4	9.7	2807	1871	1403	1123	936	802	702	624	561	510	468	401	351
1x3/8	14.0	4213	2809	2107	1685	1404	1204	1053	936	842	766	702	602	526
1-1/4x1/4	11.9	4387	2924	2193	1755	1462	1253	1096	975	877	797	731	627	548
1-1/4x3/8	17.2	6580	4387	3290	2632	2193	1880	1645	1462	1316	1196	1096	940	822
1-1/2x1/4	14.0	6313	4209	3157	2525	2104	1804	1578	1404	1263	1148	1053	902	789
1-1/2x3/8	20.5	9473	6316	4737	3789	3158	2707	2368	2105	1895	1722	1579	1353	1184
1-3/4x1/4	16.2	8593	5729	4297	3437	2864	2455	2148	1910	1719	1563	1433	1228	1075
1-3/4x3/8	23.7	12893	8596	6447	5157	4298	3684	3223	2865	2579	2344	2149	1842	1612
2x1/4	18.3	11227	7484	5613	4491	3742	3208	2807	2495	2246	2041	1871	1604	1404
2x3/8	26.9	16840	11227	8420	6736	5613	4811	4210	3742	3368	3062	2807	2406	2105
2-1/4x1/4	20.5	14213	9476	7107	5685	4738	4061	3553	3159	2843	2584	2368	2030	1776
2-1/4x3/8	30.1	21313	14209	10657	8525	7104	6090	5328	4736	4263	3875	3553	3045	2664
2-1/2x1/4	22.6	17547	11698	8773	7019	5849	5013	4387	3899	3509	3190	2924	2506	2193
2-1/2x3/8	33.3	26313	17542	13157	10525	8771	7518	6578	5847	5263	4784	4386	3759	3289
3x1/4	26.9	25260	16840	12630	10104	8420	7217	6315	5613	5052	4593	4210	3609	3158
3x3/8	39.8	37893	25262	18947	15157	12631	10827	9473	8421	7579	6890	6316	5414	4737
3-1/2x1/4	31.2	34387	22924	17193	13755	11462	9825	8597	7641	6877	6252	5731	4912	4298
3-1/2x3/8	46.2	51580	34387	25790	20632	17193	14737	12895	11462	10316	9378	8597	7369	6447
4x1/4	35.5	44913	29942	22457	17965	14971	12832	11228	9981	8983	8166	7486	6416	5614
4x3/8	52.7	67367	44911	33683	26947	22456	19248	16842	14970	13473	12248	11228	9624	8421
4-1/2x1/4	39.8	56840	37893	28420	22736	18947	16240	14210	12631	11368	10335	9473	8120	7105
4-1/2x3/8	59.1	85260	56840	42630	34104	28420	24360	21315	18947	17052	15502	14210	12180	10658
5x1/4	44.1	70173	46782	35087	28069	23391	20050	17543	15594	14035	12759	11697	10025	8772
5x3/8	67.9	105260	70173	52630	42104	35087	30074	26315	23391	21052	19138	17543	15037	13158

Note: 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.
Loads are theoretical, static, and are based on an allowable fiber stress of 20,000 psi.

W-19-4/W-19-2 Panel Width Chart (inches) 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
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

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
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