

• Light traffic electroforged grating

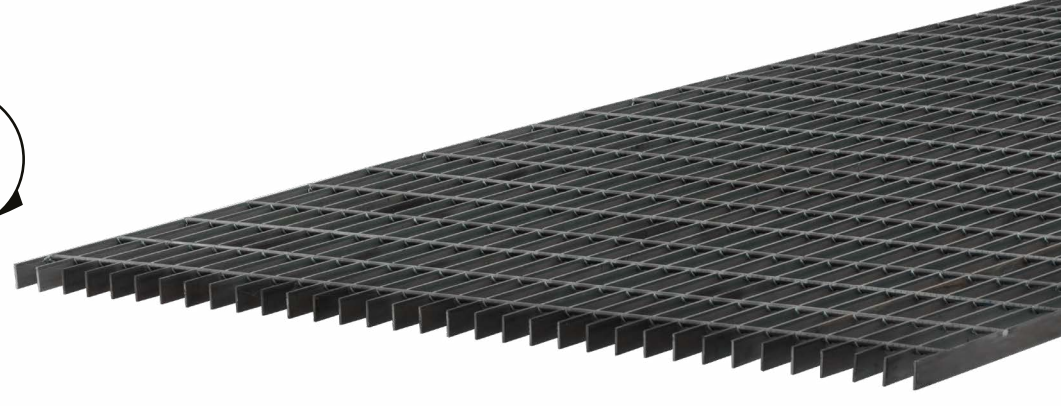
Allowable Loads Table

Bearing Bar	Span in inches	Span in inches																
		24	30	36	42	48	54											
3/4 X 1/8 (4)	42	U	355	227	158	116	89	70	<p>Note: The carrying capacity of a piece of grating subjected to a concentrated load over only a portion of its width is determined by the stiffness of both the bearing bars and the cross bars, and therefore differs with the type of grating used. To determine the carrying capacity of gratings to such loadings, the manufacturer's engineering should be consulted.</p> <p>Conversion Factors: For gratings with other than 1-3/16" bearing bar spacing, or for different desing stresses, proportionate conversion factors apply. Refer to the Metal Bar Grating Engineering Desing Manual for the development of such factors.</p> <p>Note: 1/4" is considered the maximum deflection consistent with pedestrian comfort, but can be exceeded for other loading conditions at the discretion of the engineer.</p>									
		Du	0.099	0.155	0.223	0.304	0.397	0.503										
		C	355	284	237	203	178	158										
3/4 X 3/16 (6)	46	Dc	0.079	0.124	0.179	0.243	0.318	0.402								60	66	72
		U	533	341	237	174	133	105								101	84	70
		Du	0.099	0.155	0.223	0.304	0.397	0.503								0.456	0.563	0.670
1 X 1/8 (6)	51	C	533	426	355	305	266	237								253	230	211
		Dc	0.079	0.124	0.179	0.243	0.318	0.402								0.372	0.451	0.536
		U	632	404	281	206	158	125								101	84	70
1 X 3/16 (8)	57	Du	0.074	0.116	0.168	0.228	0.298	0.377								0.466	0.563	0.670
		C	947	606	421	309	237	187								152	125	105
		Dc	0.060	0.093	0.134	0.182	0.238	0.302								0.372	0.451	0.536
1 1/4 X 1/8 (7)	61	U	947	758	632	541	474	421	379	344	316							
		Du	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670							
		C	987	789	658	564	493	439	395	329	329	304	282					
1 1/4 X 3/16 (9)	67	Dc	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584					
		U	1480	947	658	483	370	292	237	196	164	140	121					
		Du	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730					
1 1/2 X 1/8 (8)	70	C	1480	1184	987	846	740	658	592	538	493	455	423					
		Dc	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584					
		U	1421	909	632	464	355	281	227	188	158	135	116	101	89	79	70	
1 1/2 X 3/16 (11)	77	Du	0.050	0.078	0.112	0.152	0.199	0.251	0.31	0.376	0.447	0.524	0.605	0.698	0.794	0.897	1,006	
		C	2132	1364	947	696	533	421	341	282	237	202	174	152	133	118	105	
		Dc	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.42	0.487	0.559	0.636	0.718	0.804	
1 3/4 X 3/16 (13)	87	U	2132	1705	1421	1218	1066	947	853	775	711	656	609	568	533	502	474	
		Du	0.050	0.078	0.112	0.152	0.199	0.251	0.31	0.376	0.477	0.524	0.608	0.698	0.794	0.897	1,006	
		C	2901	2321	1934	1658	1451	1289	1161	1055	967	893	829	774	725	683	645	
2 X 3/16 (13)	96	Dc	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.36	0.417	0.479	0.545	0.615	0.689	
		U	3789	2425	1684	1237	947	749	606	501	421	359	309	269	237	210	187	
		Du	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.524	0.596	0.673	0.754	
2 1/4 X 3/16 (16)	105	C	3789	3032	2526	2165	1895	1684	1516	1378	1263	1166	1083	1011	947	892	842	
		Dc	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.419	0.477	0.538	0.603	
		U	4796	3069	2132	1566	1199	947	767	634	533	454	392	341	300	266	237	
2 1/2 X 3/16 (18)	113	Du	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.25	0.298	0.35	0.406	0.466	0.53	0.598	0.67	
		C	4796	3837	3197	2741	2398	2132	1918	1744	1599	1476	1370	1279	1199	1128	1066	
		Dc	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.2	0.238	0.28	0.324	0.372	0.424	0.478	0.536	
		U	5921	3789	2632	1933	1480	1170	947	783	658	561	483	421	370	328	292	
		Du	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.419	0.477	0.538	0.603	
		C	5921	4737	3947	3383	2961	2632	2368	2153	1974	1822	1692	1579	1480	1393	1316	
		Dc	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.18	0.215	0.252	0.292	0.335	0.381	0.431	0.483	

U: Permissible uniform load (in kg/m²)
C: Permissible concentrated load (in kg/m²)

Du: Deflection with uniform load (mm)
Dc: Deflection with concentrated load (mm)

On a to othed rack, consider a cant 1/4" greater than that required to support the indicated load.
NOTE: We invite you to consult us the feasibility of your project.



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Carbon Steel											
Product		W11-2	W11-4	W13-2	W13-4	W15-2	W15-4	W16-2	W16-4	W19-2	W19-4
Bearing Bar Spacing		11/16"	11/16"	13/16"	13/16"	15/16"	15/16"	16/16"	16/16"	19/16"	19/16"
Thickness (in)	Width (in)	Lbs/ft ²	Lbs/ft ²	Lbs/ft ²	Lbs/ft ²	Lbs/ft ²	Lbs/ft ²	Lbs/ft ²	Lbs/ft ²	Lbs/ft ²	Lbs/ft ²
1/8	3/4	6.70	6.17	5.82	5.29	5.25	4.72	5.16	4.62	4.37	3.84
	1	8.58	8.05	7.41	6.88	6.64	6.11	6.52	5.98	5.47	4.94
	1 1/4	10.46	9.93	9.00	8.47	8.04	7.50	7.68	7.35	6.57	6.04
	1 1/2	12.34	11.81	10.59	10.06	9.43	8.90	9.25	8.71	7.68	7.14
	3/4	9.52	8.99	8.21	7.68	7.34	6.81	7.20	6.67	6.02	5.49
3/16	1	12.34	11.81	10.59	10.06	9.43	8.90	9.25	8.71	7.68	7.14
	1 1/4	15.16	14.63	12.97	12.44	11.52	10.99	11.29	10.75	9.33	8.80
	1 1/2	17.98	17.45	15.35	14.82	13.61	13.08	13.33	12.79	10.98	10.45
	1 3/4	21.07	20.4	18.00	17.34	15.97	15.30	15.64	14.97	12.9	12.24
	2	23.89	23.22	20.38	19.72	18.06	17.39	17.68	17.01	14.55	13.89
	2 1/4	26.71	26.04	22.76	22.1	20.15	19.48	19.72	19.05	16.21	15.54
	2 1/2	29.53	28.86	25.15	24.49	22.24	21.57	21.77	21.09	17.86	17.20

To determine the table of allowable loads for the remaining models, multiply by the following factors:

Types of bearing bart										
Tipos de rejilla	W11-50	W11-100	W13-50	W13-100	W15-50	W15-100	W16-50	W16-100	W19-50	W19-100
Factors	1.5	1.5	1.44	1.44	1.24	1.24	1.23	1.23	Standard	