

## Aluminum T Bar Grating Load Table



Series Type & Name	BB HGT	BB THK	PED MAX	LBS./SF 19-S-4	LOAD/ DEFL	Clear Span																		
						12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
TB-940-100	1"	0.940"	51"	3.0	U	4204	1868	1051	673	467	343	263	208	168	139	117	100	86	75	66	58	52	47	42
					D	0.031	0.070	0.125	0.195	0.281	0.382	0.500	0.633	0.779	0.944	1.125	1.325	1.532	1.761	2.006	2.247	2.532	2.841	3.117
					C	2102	1401	1051	841	701	601	526	467	420	382	350	323	300	280	263	247	234	221	210
					D	0.025	0.056	0.100	0.156	0.225	0.306	0.400	0.505	0.623	0.755	0.898	1.053	1.222	1.403	1.599	1.801	2.025	2.250	2.493
TB-940-125	1-1/4"	0.940"	62"	4.2	U	6953	3090	1738	1112	773	568	435	343	278	230	193	165	142	124	109	96	86	77	70
					D	0.024	0.054	0.097	0.151	0.218	0.297	0.387	0.489	0.605	0.732	0.870	1.025	1.186	1.365	1.553	1.744	1.963	2.182	2.435
					C	3476	2318	1738	1391	1159	993	869	773	695	632	579	535	497	464	435	409	386	366	348
					D	0.019	0.044	0.077	0.121	0.174	0.237	0.310	0.392	0.484	0.585	0.696	0.818	0.949	1.090	1.240	1.398	1.566	1.747	1.937
TB-940-150	1-1/2"	0.940"	70"	4.4	U	9378	4168	2344	1500	1042	766	586	463	375	310	260	222	191	167	147	130	116	104	94
					D	0.020	0.046	0.082	0.128	0.184	0.251	0.327	0.414	0.512	0.619	0.736	0.865	1.001	1.153	1.314	1.481	1.661	1.849	2.052
					C	4689	3126	2344	1876	1563	1340	1172	1042	938	853	781	721	670	625	586	552	521	494	469
					D	0.016	0.037	0.065	0.102	0.147	0.201	0.262	0.332	0.410	0.496	0.589	0.692	0.803	0.921	1.048	1.184	1.327	1.479	1.638
TB-940-200	2"	0.940"	84"	5.0	U	14875	6611	3719	2380	1653	1214	930	735	595	492	413	352	304	264	232	206	184	165	149
					D	0.016	0.035	0.063	0.098	0.141	0.192	0.251	0.318	0.392	0.475	0.565	0.663	0.770	0.881	1.003	1.135	1.274	1.418	1.572
					C	7438	4958	3719	2975	2479	2125	1859	1653	1488	1352	1240	1144	1063	992	930	875	826	783	744
					D	0.013	0.028	0.050	0.078	0.113	0.154	0.201	0.254	0.314	0.380	0.452	0.530	0.616	0.707	0.804	0.907	1.017	1.133	1.256

U - Uniform Load- Lbs./Sf. D - Deflection in Inches C - Concentrated Load- Lbs./Ft. of Width at Mid Span; Loading data derived from 10.1053 bearing bars per foot of Grating width. The provided loading and deflection values are theoretical and based on a maximum allowable Fiber stress (Fs) of 12,000 PSI. Elastic Modulus (E) is stated as 10,000,000 PSI. Spans listed in the table represent clear spans (inside structural supports).

Span and loading values to the left of the bolded black line result in a deflection of 1/4" or less under a uniform load of 100 Lbs./Sf., ensuring safe pedestrian comfort. The corresponding maximum pedestrian spans under this criterion are detailed in the PED MAX column.

Span and loading values positioned to the right of the bolded black line are applicable to various load types at the discretion of a licensed engineer.

The technical information provided is theoretical and intended for assessment by individuals with technical expertise, with any use thereof to beat their independent discretion and risk.

Bearing bar top flange spacing meets ADA requirements (1/2" maximum clear opening) when the direction of bearing bars (span) are installed perpendicular to the dominant direction of travel.

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