

SERIES TYPE & NAME	BB HGT	BB THK	PED MAX	LBS./SF		LOAD/ DEFLECT	CLEAR SPAN																		
				7-P-4	7-P-2		12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
GCM-1-75-A & GCM-1-75-A-2	3/4"	1/8"	53"	9.8	10.8	U	3535	1571	884	566	393	289	221	175	141	117	98	84	72	63	55	49	44	39	35
						D	0.024	0.053	0.094	0.147	0.212	0.289	0.377	0.479	0.588	0.714	0.847	1.000	1.153	1.329	1.502	1.706	1.925	2.118	2.334
						C	1768	1178	884	707	589	505	442	393	354	321	295	272	253	236	221	208	196	186	177
GCM-1-75 & GCM-1-75-2	3/4"	3/16"	58"	13.7	15.1	U	5303	2357	1326	848	589	433	331	262	212	175	147	126	108	94	83	73	65	59	53
						D	0.024	0.053	0.094	0.147	0.212	0.289	0.377	0.478	0.589	0.712	0.847	1.000	1.153	1.322	1.511	1.694	1.895	2.136	2.356
						C	2652	1768	1326	1061	884	758	663	589	530	482	442	408	379	354	331	312	295	279	265
GCM-1-100-A & GCM-1-100-A-2	1"	1/8"	66"	12.7	13.7	U	6285	2794	1571	1006	698	513	393	310	251	208	175	149	128	112	98	87	78	70	63
						D	0.018	0.040	0.071	0.111	0.159	0.217	0.283	0.358	0.441	0.535	0.638	0.748	0.864	0.997	1.129	1.277	1.439	1.604	1.772
						C	3143	2095	1571	1257	1048	898	786	698	629	571	524	483	449	419	393	370	349	331	314
GCM-1-100 & GCM-1-100-2	1"	3/16"	73"	18.1	19.5	U	9428	4190	2357	1508	1048	770	589	466	377	312	262	223	192	168	147	130	116	104	94
						D	0.018	0.040	0.071	0.110	0.159	0.217	0.283	0.358	0.442	0.535	0.637	0.746	0.864	0.997	1.129	1.272	1.427	1.588	1.762
						C	4714	3143	2357	1886	1571	1347	1179	1048	943	857	786	725	673	629	589	555	524	496	471
GCM-1-125-A & GCM-1-125-A-2	1-1/4"	1/8"	77"	15.7	16.7	U	9822	4365	2455	1572	1091	802	614	485	393	325	273	232	200	175	153	136	121	109	98
						D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.286	0.354	0.428	0.510	0.596	0.692	0.797	0.902	1.022	1.143	1.279	1.411
						C	4911	3274	2455	1964	1637	1403	1228	1091	982	893	818	756	702	655	614	578	546	517	491
GCM-1-125 & GCM-1-125-2	1-1/4"	3/16"	86"	22.6	24.0	U	14732	6548	3683	2357	1637	1203	921	728	589	487	409	349	301	262	230	204	182	163	147
						D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.287	0.353	0.428	0.509	0.598	0.694	0.796	0.904	1.022	1.146	1.274	1.411
						C	7366	4911	3683	2946	2455	2105	1842	1637	1473	1339	1228	1133	1052	982	921	867	818	775	737
GCM-1-150-A & GCM-1-150-A-2	1-1/2"	1/8"	89"	18.9	20.2	U	14143	6286	3536	2263	1571	1159	884	698	566	468	393	335	289	251	221	196	175	157	141
						D	0.012	0.027	0.047	0.074	0.106	0.144	0.189	0.239	0.295	0.357	0.424	0.498	0.578	0.662	0.754	0.853	0.957	1.066	1.175
						C	7071	4714	3536	2829	2357	2020	1768	1571	1414	1286	1179	1088	1010	943	884	832	786	744	707
GCM-1-150 & GCM-1-150-2	1-1/2"	3/16"	98"	27.2	29.1	U	21215	9429	5304	3394	2357	1732	1326	1048	849	701	589	502	433	377	331	294	262	235	212
						D	0.012	0.027	0.047	0.074	0.106	0.144	0.189	0.239	0.295	0.356	0.424	0.498	0.578	0.663	0.753	0.853	0.955	1.063	1.178
						C	10607	7072	5304	4243	3536	3031	2652	2357	2121	1929	1768	1632	1515	1414	1326	1248	1179	1117	1061
GCM-1-175 & GCM-1-175-2	1-3/4"	3/16"	110"	31.6	33.5	U	28875	12833	7219	4620	3208	2357	1805	1426	1155	955	802	683	589	513	451	400	356	320	289
						D	0.010	0.023	0.040	0.063	0.091	0.124	0.162	0.205	0.253	0.306	0.364	0.427	0.495	0.568	0.646	0.730	0.817	0.912	1.011
						C	14438	9625	7219	5775	4813	4125	3609	3208	2888	2625	2406	2221	2063	1925	1805	1699	1604	1520	1444
GCM-1-200 & GCM-1-200-2	2"	3/16"	122"	36.2	38.1	U	37715	16762	9429	6034	4191	3079	2357	1862	1509	1247	1048	893	770	670	589	522	466	418	377
						D	0.009	0.021	0.038	0.059	0.085	0.115	0.151	0.191	0.236	0.285	0.340	0.398	0.462	0.530	0.603	0.681	0.764	0.851	0.943
						C	18857	12572	9429	7543	6286	5388	4714	4191	3771	3429	3143	2901	2694	2514	2357	2219	2095	1985	1886
GCM-1-225 & GCM-1-225-2	2-1/4"	3/16"	133"	40.1	42.0	U	47732	21214	11933	7637	5304	3897	2983	2357	1909	1578	1326	1130	974	849	746	661	589	529	477
						D	0.008	0.018	0.031	0.049	0.071	0.096	0.126	0.159	0.196	0.238	0.283	0.332	0.385	0.442	0.503	0.568	0.636	0.709	0.785
						C	23866	15911	11933	9546	7955	6819	5967	5304	4773	4339	3978	3672	3409	3182	2983	2808	2652	2512	2387
GCM-1-250 & GCM-1-250-2	2-1/2"	3/16"	144"	45.9	47.8	U	58928	26190	14732	9428	6548	4810	3683	2910	2357	1948	1637	1395	1203	1048	921	816	728	653	589
						D	0.007	0.016	0.028	0.044	0.064	0.087	0.113	0.143	0.177	0.214	0.255	0.299	0.347	0.398	0.453	0.511	0.573	0.638	0.707
						C	29464	19643	14732	11786	9821	8418	7366	6548	5893	5357	4911	4533	4209	3929	3683	3466	3274	3101	2946
						D	0.006	0.013	0.023	0.035	0.051	0.069	0.091	0.115	0.141	0.171	0.204	0.239	0.277	0.318	0.362	0.409	0.458	0.510	0.566

U - Uniform Load - Lbs./Sf. D - Deflection in Inches C - Concentrated Load - Lbs./Ft. of Width at Mid Span | Loading information based on 27.4286 bearing bars per foot of Grating width. Loading and deflection values are theoretical and based on a maximum allowable Fiber stress (Fs) of 16,500 PSI. Elastic Modulus (E) is 28,000,000 PSI. Spans listed in table are clear (inside structural supports). Span and loading values to the left of the bolded black line produce a deflection of 1/4" or less under a uniform load of 100 Lbs./Sf., allowing for safe pedestrian comfort. The resulting pedestrian maximum spans under this condition are listed in the PED MAX column. Span and loading values to the right of the bolded black line are applicable to other types of loads at the discretion of a licensed engineer. Custom Order Only: For Grating with a serrated surface (1" bearing bar height or taller and 3/16" thick), subtract 1/4" from the bearing bar height requirement and reference that loading information listed in the table. For example, a 1-1/2" x 3/16" serrated bearing bar height and thickness would have the same strength and loading values as a 1-1/4" x 3/16" smooth (non-serrated) bearing bar height and thickness. Technical information provided is theoretical and for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. McNICHOLS shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Bar Grating.

♿ Sizes with a 3/16" bearing bar thickness meet ADA compliant spacing requirements (1/2" maximum clear opening) when the direction of bearing bars (span) are installed perpendicular to the dominant direction of travel.