

SERIES TYPE & NAME	BB HGT	BB THK	LBS./SF		LOAD/ DEFL	CLEAR SPAN																		
			11-P-4	11-P-2		12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
GCM-4-75-A & GCM-4-75-A-2	3/4"	1/8"	NA	NA	U	1636	727	409	262	182	134	102	81	65	54	45	39	33	29	26	23	20	18	16
					D	0.048	0.108	0.192	0.300	0.432	0.590	0.766	0.974	1.192	1.450	1.711	2.042	2.324	2.692	3.124	3.522	3.849	4.301	4.694
					C	818	545	409	327	273	234	205	182	164	149	136	126	117	109	102	96	91	86	82
					D	0.038	0.086	0.154	0.240	0.346	0.471	0.616	0.778	0.962	1.164	1.379	1.624	1.884	2.158	2.451	2.767	3.114	3.461	3.849
GCM-4-75 & GCM-4-75-2	3/4"	3/16"	3.1	NA	U	2454	1091	614	393	273	200	153	121	98	81	68	58	50	44	38	34	30	27	25
					D	0.048	0.108	0.192	0.300	0.432	0.587	0.766	0.970	1.197	1.449	1.723	2.024	2.347	2.721	3.043	3.469	3.848	4.299	4.887
					C	1227	818	614	491	409	351	307	273	245	223	205	189	175	164	153	144	136	129	123
					D	0.038	0.086	0.154	0.240	0.345	0.471	0.615	0.778	0.958	1.160	1.385	1.623	1.877	2.164	2.450	2.766	3.101	3.459	3.847
GCM-4-100-A & GCM-4-100-A-2	1"	1/8"	NA	NA	U	2909	1293	727	465	323	237	182	144	116	96	81	69	59	52	45	40	36	32	29
					D	0.036	0.081	0.144	0.225	0.324	0.440	0.577	0.731	0.897	1.087	1.299	1.524	1.753	2.036	2.281	2.584	2.923	3.226	3.589
					C	1454	970	727	582	485	416	364	323	291	264	242	224	208	194	182	171	162	153	145
					D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.870	1.035	1.218	1.413	1.621	1.845	2.080	2.339	2.598	2.871
GCM-4-100 & GCM-4-100-2	1"	3/16"	4.1	4.6	U	4364	1940	1091	698	485	356	273	216	175	144	121	103	89	78	68	60	54	48	44
					D	0.036	0.081	0.144	0.225	0.324	0.441	0.577	0.731	0.902	1.087	1.294	1.517	1.763	2.036	2.298	2.584	2.923	3.226	3.630
					C	2182	1455	1091	873	727	623	546	485	436	397	364	336	312	291	273	257	242	230	218
					D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.583	0.719	0.872	1.038	1.218	1.413	1.621	1.845	2.084	2.329	2.603	2.878
GCM-4-125-A & GCM-4-125-A-2	1-1/4"	1/8"	NA	NA	U	4546	2020	1136	727	505	371	284	224	182	150	126	108	93	81	71	63	56	50	45
					D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.582	0.721	0.870	1.035	1.222	1.415	1.624	1.843	2.084	2.328	2.580	2.851
					C	2273	1515	1136	909	758	649	568	505	455	413	379	350	325	303	284	267	253	239	227
					D	0.023	0.052	0.092	0.144	0.207	0.282	0.369	0.467	0.577	0.697	0.830	0.974	1.130	1.296	1.474	1.662	1.870	2.077	2.301
GCM-4-125 & GCM-4-125-2	1-1/4"	3/16"	5.1	5.5	U	6818	3030	1705	1091	758	557	426	337	273	225	189	161	139	121	107	94	84	76	68
					D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.584	0.721	0.870	1.035	1.214	1.410	1.617	1.851	2.073	2.328	2.615	2.872
					C	3409	2273	1705	1364	1136	974	852	758	682	620	568	524	487	455	426	401	379	359	341
					D	0.023	0.052	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129	1.297	1.474	1.664	1.867	2.080	2.304
GCM-4-150-A & GCM-4-150-A-2	1-1/2"	1/8"	NA	NA	U	6546	2909	1636	1047	727	534	409	323	262	216	182	155	134	116	102	91	81	73	65
					D	0.024	0.054	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.725	0.865	1.015	1.180	1.346	1.532	1.742	1.949	2.180	2.383
					C	3273	2182	1636	1309	1091	935	818	727	655	595	545	504	468	436	409	385	364	345	327
					D	0.019	0.043	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.812	0.942	1.079	1.229	1.387	1.557	1.735	1.919
GCM-4-150 & GCM-4-150-2	1-1/2"	3/16"	6.2	6.7	U	9818	4364	2455	1571	1091	802	614	485	393	325	273	232	200	175	153	136	121	109	98
					D	0.024	0.054	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.727	0.865	1.012	1.174	1.353	1.532	1.735	1.941	2.170	2.395
					C	4909	3273	2455	1964	1636	1403	1227	1091	982	893	818	755	701	655	614	578	545	517	491
					D	0.019	0.043	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.940	1.081	1.229	1.388	1.554	1.734	1.920
GCM-4-175 & GCM-4-175-2	1-3/4"	3/16"	7.2	7.7	U	13364	5940	3341	2138	1485	1091	835	660	535	442	371	316	273	238	209	185	165	148	134
					D	0.021	0.046	0.082	0.129	0.185	0.252	0.329	0.417	0.515	0.623	0.740	0.868	1.009	1.159	1.318	1.487	1.667	1.856	2.063
					C	6682	4455	3341	2673	2227	1909	1671	1485	1336	1215	1114	1028	955	891	835	786	742	703	668
					D	0.016	0.037	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.593	0.695	0.807	0.926	1.053	1.189	1.332	1.485	1.645
GCM-4-200 & GCM-4-200-2	2"	3/16"	8.2	8.7	U	17454	7758	4364	2793	1939	1425	1091	862	698	577	485	413	356	310	273	242	215	193	175
					D	0.018	0.041	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.544	0.648	0.760	0.881	1.012	1.153	1.303	1.455	1.621	1.805
					C	8727	5818	4364	3491	2909	2493	2182	1939	1745	1587	1455	1343	1247	1164	1091	1027	970	919	873
					D	0.014	0.032	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.706	0.810	0.922	1.041	1.167	1.300	1.440
GCM-4-225 & GCM-4-225-2	2-1/4"	3/16"	9.1	9.7	U	22091	9818	5523	3535	2455	1803	1381	1091	884	730	614	523	451	393	345	306	273	245	221
					D	0.016	0.036	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.676	0.784	0.901	1.024	1.157	1.297	1.445	1.601
					C	11046	7364	5523	4418	3682	3156	2761	2455	2209	2008	1841	1699	1578	1473	1381	1299	1227	1163	1105
					D	0.013	0.029	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.720	0.819	0.924	1.037	1.156	1.281
GCM-4-250 & GCM-4-250-2	2-1/2"	3/16"	10.0	10.6	U	27273	12121	6818	4364	3030	2226	1705	1347	1091	902	758	646	557	485	426	377	337	302	273
					D	0.014	0.032	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.706	0.810	0.921	1.039	1.167	1.299	1.441
					C	13636	9091	6818	5455	4545	3896	3409	3030	2727	2479	2273	2098	1948	1818	1705	1604	1515	1435	1364
					D	0.012	0.026	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.648	0.737	0.832	0.933	1.039	1.152

U - Uniform Load - Lbs. per Square Foot

D - Deflection - in Inches

C - Concentrated Load - Lbs. per Square Foot of Width at Mid Span

- 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. per square foot, allowing for safe pedestrian comfort. 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.
- Loading and deflection values are theoretical and based on a maximum allowable fiber stress (Fs) of 12,000 PSI, E = 10,000,000 PSI.
- 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 are ADA compliant when direction of bearing bars (span) installed perpendicular to the dominant direction of travel.

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