

SERIES TYPE & NAME	BB HEIGHT & THICKNESS	#/SF		LOAD	CLEAR SPAN																		
		13-P-4	13-P-2		12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
GCM-5-75-A	3/4" x 1/8"	NA	NA	U	1385	615	346	222	154	113	87	68	55	46	38	33	28	25	22	19	17	15	14
				D	0.048	0.108	0.192	0.301	0.432	0.588	0.772	0.967	1.192	1.459	1.707	2.042	2.331	2.742	3.124	3.438	3.867	4.236	4.654
				C	692	462	346	277	231	198	173	154	138	126	115	107	99	92	87	81	77	73	69
				D	0.038	0.086	0.154	0.240	0.346	0.471	0.614	0.778	0.957	1.163	1.378	1.630	1.884	2.153	2.471	2.759	3.114	3.472	3.827
GCM-5-75	3/4" x 3/16"	2.7	3.2	U	2077	923	519	332	231	170	130	103	83	69	58	49	42	37	32	29	26	23	21
				D	0.048	0.108	0.192	0.300	0.432	0.589	0.769	0.976	1.198	1.459	1.736	2.021	2.330	2.704	3.028	3.497	3.941	4.328	4.851
				C	1038	692	519	415	346	297	260	231	208	189	173	160	148	138	130	122	115	109	104
				D	0.038	0.086	0.153	0.240	0.345	0.471	0.615	0.778	0.961	1.162	1.381	1.624	1.876	2.152	2.460	2.769	3.099	3.454	3.844
GCM-5-100-A	1" x 1/8"	2.6	2.9	U	2462	1094	615	394	274	201	154	122	98	81	68	58	50	44	38	34	30	27	25
				D	0.036	0.081	0.144	0.225	0.325	0.441	0.577	0.732	0.896	1.084	1.289	1.515	1.756	2.037	2.277	2.596	2.880	3.217	3.657
				C	1231	821	615	492	410	352	308	274	246	224	205	189	176	164	154	145	137	130	123
				D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.584	0.720	0.872	1.036	1.215	1.413	1.619	1.846	2.084	2.338	2.609	2.879
GCM-5-100	1" x 3/16"	3.5	4.0	U	3692	1641	923	591	410	301	231	182	148	122	103	87	75	66	58	51	46	41	37
				D	0.036	0.081	0.144	0.225	0.324	0.440	0.576	0.728	0.902	1.088	1.301	1.514	1.755	2.036	2.316	2.595	2.942	3.256	3.607
				C	1846	1231	923	738	615	527	462	410	369	336	308	284	264	246	231	217	205	194	185
				D	0.029	0.065	0.115	0.180	0.259	0.352	0.461	0.583	0.719	0.872	1.038	1.217	1.412	1.619	1.845	2.079	2.331	2.594	2.886
GCM-5-125-A	1-1/4" x 1/8"	3.2	3.5	U	3846	1710	962	615	427	314	240	190	154	127	107	91	78	68	60	53	47	43	38
				D	0.029	0.065	0.115	0.180	0.259	0.353	0.460	0.583	0.721	0.870	1.038	1.216	1.402	1.611	1.840	2.072	2.309	2.622	2.845
				C	1923	1282	962	769	641	549	481	427	385	350	321	296	275	256	240	226	214	202	192
				D	0.023	0.052	0.092	0.144	0.207	0.282	0.369	0.466	0.577	0.698	0.831	0.974	1.130	1.294	1.472	1.663	1.869	2.075	2.300
GCM-5-125	1-1/4" x 3/16"	4.4	4.9	U	5770	2564	1442	923	641	471	361	285	231	191	160	137	118	103	90	80	71	64	58
				D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.583	0.721	0.873	1.035	1.221	1.414	1.627	1.840	2.085	2.326	2.602	2.895
				C	2885	1923	1442	1154	962	824	721	641	577	525	481	444	412	385	361	339	321	304	288
				D	0.023	0.052	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.698	0.830	0.974	1.129	1.297	1.476	1.663	1.869	2.082	2.300
GCM-5-150-A	1-1/2" x 1/8"	3.8	4.3	U	5538	2462	1385	886	615	452	346	274	222	183	154	131	113	98	87	77	68	61	55
				D	0.024	0.054	0.096	0.150	0.216	0.294	0.384	0.487	0.601	0.726	0.865	1.013	1.176	1.344	1.544	1.742	1.933	2.153	2.383
				C	2769	1846	1385	1108	923	791	692	615	554	503	462	426	396	369	346	326	308	291	277
				D	0.019	0.043	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.580	0.692	0.811	0.942	1.079	1.228	1.388	1.557	1.730	1.921
GCM-5-150	1-1/2" x 3/16"	5.3	6.0	U	8308	3692	2077	1329	923	678	519	410	332	275	231	197	170	148	130	115	103	92	83
				D	0.024	0.054	0.096	0.150	0.216	0.294	0.384	0.486	0.599	0.727	0.865	1.016	1.179	1.353	1.538	1.734	1.952	2.165	2.398
				C	4154	2769	2077	1662	1385	1187	1039	923	831	755	692	639	593	554	519	489	462	437	415
				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	1.080	1.228	1.388	1.557	1.732	1.918
GCM-5-175	1-3/4" x 3/16"	6.1	6.8	U	11308	5026	2827	1809	1256	923	707	558	452	374	314	268	231	201	177	157	140	125	113
				D	0.021	0.046	0.082	0.129	0.185	0.252	0.329	0.416	0.514	0.623	0.740	0.870	1.009	1.157	1.319	1.491	1.671	1.852	2.056
				C	5654	3769	2827	2262	1885	1615	1414	1256	1131	1028	942	870	808	754	707	665	628	595	565
				D	0.016	0.037	0.066	0.103	0.148	0.202	0.263	0.333	0.412	0.498	0.592	0.695	0.807	0.926	1.054	1.189	1.333	1.485	1.645
GCM-5-200	2" x 3/16"	7.1	7.8	U	14770	6564	3692	2363	1641	1206	923	729	591	488	410	350	301	263	231	204	182	164	148
				D	0.018	0.040	0.072	0.112	0.162	0.221	0.288	0.364	0.450	0.544	0.648	0.761	0.881	1.014	1.153	1.298	1.455	1.628	1.804
				C	7385	4923	3692	2954	2462	2110	1846	1641	1477	1343	1231	1136	1055	985	923	869	821	777	738
				D	0.014	0.032	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	0.810	0.922	1.041	1.167	1.299	1.439
GCM-5-225	2-1/4" x 3/16"	7.8	8.5	U	18692	8308	4673	2991	2077	1526	1168	923	748	618	519	442	381	332	292	259	231	207	187
				D	0.016	0.036	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.675	0.783	0.899	1.024	1.157	1.297	1.443	1.601
				C	9346	6231	4673	3738	3115	2670	2337	2077	1869	1699	1558	1438	1335	1246	1168	1100	1038	984	935
				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	0.925	1.036	1.155	1.281
GCM-5-250	2-1/2" x 3/16"	8.6	9.3	U	23077	10256	5769	3692	2564	1884	1442	1140	923	763	641	546	471	410	361	319	285	256	231
				D	0.014	0.032	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.518	0.608	0.706	0.809	0.923	1.039	1.167	1.301	1.441
				C	11538	7692	5769	4615	3846	3297	2885	2564	2308	2098	1923	1775	1648	1538	1442	1357	1282	1215	1154
				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	1.040	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

- Spans 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.
- For Grating with a serrated surface (1" bearing bar height or taller), 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 of 12,000 PSI, E = 10,000,000 PSI.
- Technical information provided is theoretical and for evaluation by technically skilled persons only, 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 Grating.

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