

SERIES TYPE & NAME	BB HEIGHT & THICKNESS	#/SF		LOAD	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	3/4" x 1/8"	NA	NA	U	2454	1091	614	393	273	200	153	121	98	81	68	58	50	44	38	34	30	27	25
				D	0.025	0.056	0.099	0.155	0.224	0.304	0.396	0.502	0.620	0.750	0.891	1.047	1.214	1.408	1.574	1.795	1.991	2.225	2.529
				C	1227	818	614	491	409	351	307	273	245	223	205	189	175	164	153	144	136	129	123
				D	0.020	0.045	0.080	0.124	0.179	0.244	0.318	0.403	0.496	0.600	0.717	0.840	0.971	1.120	1.268	1.431	1.605	1.790	1.991
GCM-4-75	3/4" x 3/16"	9.0	NA	U	3682	1636	920	589	409	301	230	182	147	122	102	87	75	65	58	51	45	41	37
				D	0.025	0.056	0.099	0.155	0.223	0.304	0.397	0.503	0.619	0.753	0.891	1.047	1.214	1.386	1.601	1.795	1.990	2.251	2.494
				C	1841	1227	920	736	614	526	460	409	368	335	307	283	263	245	230	217	205	194	184
				D	0.020	0.045	0.079	0.124	0.179	0.243	0.318	0.402	0.496	0.601	0.715	0.838	0.973	1.115	1.270	1.437	1.612	1.794	1.984
GCM-4-100-A	1" x 1/8"	NA	NA	U	4363	1939	1091	698	485	356	273	215	175	144	121	103	89	78	68	60	54	48	44
				D	0.019	0.042	0.074	0.116	0.168	0.228	0.298	0.376	0.467	0.562	0.669	0.785	0.912	1.053	1.189	1.337	1.512	1.669	1.878
				C	2182	1454	1091	873	727	623	545	485	436	397	364	336	312	291	273	257	242	230	218
				D	0.015	0.034	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.537	0.630	0.731	0.838	0.954	1.078	1.205	1.347	1.489
GCM-4-100	1" x 3/16"	11.9	13.2	U	6546	2909	1637	1047	727	534	409	323	262	216	182	155	134	116	102	91	81	73	65
				D	0.019	0.042	0.075	0.116	0.168	0.228	0.298	0.377	0.466	0.562	0.671	0.787	0.915	1.044	1.189	1.352	1.512	1.692	1.849
				C	3273	2182	1637	1309	1091	935	818	727	655	595	546	504	468	436	409	385	364	345	327
				D	0.015	0.034	0.060	0.093	0.134	0.182	0.238	0.302	0.373	0.451	0.537	0.630	0.731	0.837	0.953	1.076	1.208	1.347	1.489
GCM-4-125-A	1-1/4" x 1/8"	NA	NA	U	6818	3030	1705	1091	758	557	426	337	273	225	189	161	139	121	107	94	84	76	68
				D	0.015	0.034	0.060	0.093	0.134	0.183	0.238	0.302	0.373	0.450	0.535	0.628	0.729	0.836	0.958	1.072	1.204	1.353	1.486
				C	3409	2273	1705	1364	1136	974	852	758	682	620	568	524	487	455	426	401	379	359	341
				D	0.012	0.027	0.048	0.075	0.107	0.146	0.191	0.241	0.298	0.361	0.429	0.503	0.584	0.671	0.762	0.861	0.966	1.076	1.192
GCM-4-125	1-1/4" x 3/16"	14.8	16.0	U	10228	4546	2557	1636	1136	835	639	505	409	338	284	242	209	182	160	142	126	113	102
				D	0.015	0.034	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.450	0.536	0.629	0.731	0.839	0.955	1.080	1.204	1.341	1.486
				C	5114	3409	2557	2046	1705	1461	1278	1136	1023	930	852	787	731	682	639	602	568	538	511
				D	0.012	0.027	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.361	0.429	0.504	0.584	0.670	0.762	0.862	0.965	1.075	1.191
GCM-4-150-A	1-1/2" x 1/8"	NA	NA	U	9818	4364	2455	1571	1091	802	614	485	393	325	273	232	200	175	153	136	121	109	98
				D	0.012	0.028	0.050	0.078	0.112	0.152	0.199	0.251	0.311	0.376	0.447	0.524	0.607	0.700	0.792	0.898	1.004	1.123	1.239
				C	4909	3273	2455	1964	1636	1403	1227	1091	982	893	818	755	701	655	614	578	545	517	491
				D	0.010	0.022	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.301	0.357	0.419	0.486	0.559	0.636	0.718	0.804	0.897	0.993
GCM-4-150	1-1/2" x 3/16"	17.8	19.4	U	14728	6546	3682	2356	1636	1202	920	727	589	487	409	349	301	262	230	204	182	163	147
				D	0.012	0.028	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.525	0.609	0.699	0.794	0.898	1.006	1.119	1.239
				C	7364	4909	3682	2946	2455	2104	1841	1636	1473	1339	1227	1133	1052	982	920	866	818	775	736
				D	0.010	0.022	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.357	0.420	0.487	0.559	0.635	0.717	0.804	0.896	0.993
GCM-4-175	1-3/4" x 3/16"	20.8	22.3	U	20046	8909	5012	3207	2227	1636	1253	990	802	663	557	474	409	356	313	277	247	222	200
				D	0.011	0.024	0.043	0.066	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.449	0.521	0.598	0.681	0.768	0.860	0.960	1.062
				C	10023	6682	5012	4009	3341	2864	2506	2227	2005	1822	1671	1542	1432	1336	1253	1179	1114	1055	1002
				D	0.009	0.019	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.307	0.360	0.417	0.479	0.545	0.615	0.690	0.768	0.851
GCM-4-200	2" x 3/16"	23.8	25.1	U	26182	11636	6545	4189	2909	2137	1636	1293	1047	866	727	620	534	465	409	362	323	290	262
				D	0.009	0.021	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.394	0.456	0.523	0.596	0.672	0.754	0.840	0.932
				C	13091	8727	6545	5236	4364	3740	3273	2909	2618	2380	2182	2014	1870	1745	1636	1540	1455	1378	1309
				D	0.007	0.017	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	0.604	0.672	0.745
GCM-4-225	2-1/4" x 3/16"	26.5	27.9	U	33137	14727	8284	5302	3682	2705	2071	1636	1325	1095	920	784	676	589	518	459	409	367	331
				D	0.008	0.019	0.033	0.052	0.074	0.101	0.132	0.168	0.207	0.250	0.298	0.350	0.405	0.465	0.530	0.598	0.670	0.747	0.827
				C	16568	11046	8284	6627	5523	4734	4142	3682	3314	3012	2761	2549	2367	2209	2071	1949	1841	1744	1657
				D	0.007	0.015	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.372	0.424	0.478	0.536	0.598	0.662
GCM-4-250	2-1/2" x 3/16"	29.3	30.7	U	40909	18182	10227	6545	4545	3340	2557	2020	1636	1352	1136	968	835	727	639	566	505	453	409
				D	0.007	0.017	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	0.672	0.745
				C	20455	13636	10227	8182	6818	5844	5114	4545	4091	3719	3409	3147	2922	2727	2557	2406	2273	2153	2045
				D	0.006	0.013	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.335	0.381	0.430	0.483	0.538	

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 18,000 PSI, E = 29,000,000 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.

♿ 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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