GCM-5 - CLOSE MESH SERIES | 13-P-4 & 13-P-2 (13/16" ON CENTER) SPACING | RECTANGULAR BAR

CARBON & GALVANIZED LOAD TABLE

SERIES TYPE & NAME	BB HGT	BB THK	PED MAX	LBS./SF		LOAD/ DEFL	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 & GCM-5-75-A-2	3/4"	1/8"	46"	5.8	6.7	U	2077	923	519	332	231	170	130	103	83	69	58	49	42	37	32	29	26	23	21
						D	0.025	0.056	0.099	0.155	0.224	0.305	0.398	0.505	0.620	0.755	0.899	1.046	1.206	1.400	1.567	1.810	2.039	2.240	2.510
						C	1039	692	519	415	346	297	260	231	208	189	173	160	148	138	130	122	115	109	104
						D	0.020	0.045	0.079	0.124	0.179	0.244	0.318	0.403	0.497	0.601	0.715	0.840	0.971	1.114	1.273	1.433	1.604	1.788	1.989
GCM-5-75 & GCM-5-75-2	3/4"	3/16"	51"	7.8	9.2	U	3115	1385	779	498	346	254	195	154	125	103	87	74	64	55	49	43	38	35	31
						D	0.025	0.056	0.099	0.155	0.223	0.304	0.398	0.503	0.622	0.751	0.898	1.052	1.224	1.386	1.599	1.788	1.986	2.271	2.469
						C	1558	1038	779	623	519	445	389	346	312	283	260	240	223	208	195	183	173	164	156
						D	0.020	0.045	0.079	0.124	0.179	0.243	0.317	0.402	0.497	0.600	0.716	0.840	0.975	1.118	1.272	1.432	1.607	1.792	1.988
GCM-5-100-A & GCM-5-100-A-2	1"	1/8"	57"	7.1	8.1	U	3692	1641	923	591	410	301	231	182	148	122	103	87	75	66	58	51	46	41	37
						D	0.019	0.042	0.074	0.116	0.168	0.228	0.298	0.376	0.467	0.563	0.673	0.783	0.908	1.053	1.198	1.343	1.522	1.685	1.867
						C	1846	1231	923	738	615	527	462	410	369	336	308	284	264	246	231	217	205	194	185
						D	0.015	0.034	0.060	0.093	0.134	0.182	0.239	0.302	0.372	0.451	0.537	0.630	0.731	0.838	0.955	1.076	1.206	1.343	1.493
GCM-5-100 & GCM-5-100-2	1"	3/16"	63"	10.2	11.6	U	5538	2461	1385	886	615	452	346	273	222	183	154	131	113	98	87	77	68	61	55
						D	0.019	0.042	0.074	0.116	0.167	0.228	0.298	0.376	0.466	0.563	0.671	0.786	0.912	1.042	1.198	1.351	1.500	1.670	1.849
						C	2769	1846	1385	1108	923	791	692	615	554	503	462	426	396	369	346	326	308	291	277
						D	0.015	0.034	0.060	0.093	0.134	0.182	0.238	0.301	0.372	0.450	0.537	0.629	0.731	0.837	0.953	1.077	1.208	1.342	1.490
GCM-5-125-A & GCM-5-125-A-2	1-1/4"	1/8"	67"	8.9	9.9	U	5770	2564	1442	923	641	471	361	285	231	191	160	137	118	103	90	80	71	64	58
						D	0.015	0.034	0.060	0.093	0.134	0.182	0.239	0.302	0.373	0.451	0.535	0.631	0.731	0.841	0.952	1.078	1.203	1.346	1.498
						C	2885	1923	1442	1154	962	824	721	641	577	525	481	444	412	385	361	339	321	304	288
						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	0.671	0.764	0.860	0.967	1.077	1.190
GCM-5-125 & GCM-5-125-2	1-1/4"	3/16"	74"	12.7	14.1	U	8654	3846	2164	1385	962	706	541	427	346	286	240	205	177	154	135	120	107	96	87
						D	0.015	0.034	0.060	0.093	0.134	0.182	0.238	0.301	0.372	0.451	0.535	0.630	0.732	0.839	0.952	1.078	1.209	1.346	1.498
						C	4327	2885	2164	1731	1442	1236	1082	962	865	787	721	666	618	577	541	509	481	455	433
						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	0.763	0.861	0.966	1.074	1.193
GCM-5-150-A & GCM-5-150-A-2	1-1/2"	1/8"	77"	10.8	12.1	U	8308	3692	2077	1329	923	678	519	410	332	275	231	197	170	148	130	115	103	92	83
						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	0.610	0.700	0.796	0.897	1.010	1.120	1.240
						C	4154	2769	2077	1662	1385	1187	1038	923	831	755	692	639	593	554	519	489	462	437	415
						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	0.486	0.559	0.635	0.718	0.805	0.896	0.992
GCM-5-150 & GCM-5-150-2	1-1/2"	3/16"	85"	15.3	17.2	U	12462	5539	3116	1994	1385	1017	779	615	498	412	346	295	254	222	195	172	154	138	125
						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	0.608	0.700	0.796	0.894	1.007	1.120	1.245
						C	6231	4154	3116	2492	2077	1780	1558	1385	1246	1133	1039	959	890	831	779	733	692	656	623
						D	0.010	0.022	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.559	0.636	0.718	0.804	0.897	0.993
GCM-5-175 & GCM-5-175-2	1-3/4"	3/16"	95"	17.8	19.7	U	16962	7539	4241	2714	1885	1385	1060	838	678	561	471	401	346	302	265	235	209	188	170
						D	0.011	0.024	0.043	0.067	0.096	0.130	0.170	0.216	0.266	0.322	0.383	0.449	0.521	0.599	0.681	0.770	0.860	0.961	1.066
						C	8481	5654	4241	3392	2827	2423	2120	1885	1696	1542	1414	1305	1212	1131	1060	998	942	893	848
						D	0.009	0.019	0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.258	0.307	0.360	0.417	0.479	0.545	0.615	0.689	0.768	0.851
GCM-5-200 & GCM-5-200-2	2"	3/16"	105"	20.5	22.4	U	22154	9846	5539	3545	2462	1809	1385	1094	886	732	615	524	452	394	346	307	274	245	222
						D	0.009	0.021	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.281	0.335	0.393	0.456	0.524	0.596	0.673	0.755	0.839	0.933
						C	11077	7385	5539	4431	3692	3165	2769	2462	2215	2014	1846	1704	1582	1477	1385	1303	1231	1166	1108
						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
GCM-5-225 & GCM-5-225-2	2-1/4"	3/16"	115"	22.7	24.6	U	28038	12461	7010	4486	3115	2289	1752	1385	1122	927	779	664	572	498	438	388	346	311	280
						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	0.748	0.826
						C	14019	9346	7010	5608	4673	4005	3505	3115	2804	2549	2337	2157	2003	1869	1752	1649	1558	1476	1402
						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-5-250 & GCM-5-250-2	2-1/2"	3/16"	125"	25.0	26.9	U	34615	15385	8654	5538	3846	2826	2163	1709	1385	1144	962	819	706	615	541	479	427	384	346
						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	0.673	0.744
						C	17308	11538	8654	6923	5769	4945	4327	3846	3462	3147	2885	2663	2473	2308	2163	2036	1923	1822	1731
						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	0.596

U - Uniform Load - Lbs./Sf. **D** - Deflection in Inches **C** - Concentrated Load - Lbs./Ft. of Width at Mid Span | Loading information based on 14.7692 bearing bars per foot of Grating width. Loading and deflection values are theoretical and based on a maximum allowable Fiber stress (Fs) of 18,000 PSI. Elastic Modulus (E) is 29,000,000 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.