GCM-4 - CLOSE MESH SERIES | ADA (3/16" THICK BAR) | 11-P-4 & 11-P-2 (11/16" ON CENTER) SPACING | RECTANGULAR BAR

STAINLESS STEEL LOAD TABLE

SERIES TYPE & NAME	BB HGT	BB THK	PED MAX	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"	47"	NA	NA	U	2250	1000	562	360	250	184	141	111	90	74	62	53	46	40	35	31	28	25	22
						D	0.024	0.053	0.094	0.147	0.212	0.289	0.378	0.477	0.589	0.709	0.842	0.991	1.157	1.326	1.502	1.695	1.925	2.133	2.305
						C	1125	750	562	450	375	321	281	250	225	205	187	173	161	150	141	132	125	118	112
						D	0.019	0.042	0.075	0.118	0.170	0.231	0.301	0.382	0.471	0.572	0.677	0.796	0.926	1.061	1.210	1.359	1.528	1.696	1.877
GCM-4-75 & GCM-4-75-2	3/4"	3/16"	52"	NA	NA	U	3375	1500	844	540	375	275	211	167	135	112	94	80	69	60	53	47	42	37	34
						D	0.024	0.053	0.094	0.147	0.212	0.288	0.377	0.478	0.589	0.716	0.851	0.997	1.157	1.325	1.516	1.713	1.924	2.104	2.374
						C	1687	1125	844	675	562	482	422	375	337	307	281	260	241	225	211	199	187	178	169
						D	0.019	0.042	0.075	0.118	0.169	0.231	0.302	0.382	0.471	0.571	0.678	0.798	0.923	1.060	1.207	1.365	1.523	1.705	1.888
GCM-4-100-A & GCM-4-100-A-2	1"	1/8"	59"	NA	NA	U	4000	1778	1000	640	444	326	250	198	160	132	111	95	82	71	62	55	49	44	40
						D	0.018	0.040	0.071	0.111	0.159	0.216	0.283	0.359	0.442	0.534	0.636	0.750	0.870	0.993	1.122	1.269	1.421	1.584	1.768
						C	2000	1333	1000	800	667	571	500	444	400	364	333	308	286	267	250	235	222	211	200
						D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.286	0.354	0.428	0.509	0.598	0.694	0.797	0.905	1.021	1.145	1.279	1.414
GCM-4-100 & GCM-4-100-2	1"	3/16"	65"	11.9	13.2	U	6001	2667	1500	960	667	490	375	296	240	198	167	142	122	107	94	83	74	66	60
						D	0.018	0.040	0.071	0.111	0.159	0.217	0.283	0.358	0.442	0.534	0.638	0.747	0.863	0.998	1.135	1.277	1.431	1.584	1.768
						C	3000	2000	1500	1200	1000	857	750	667	600	546	500	462	429	400	375	353	333	316	300
						D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.287	0.354	0.428	0.509	0.598	0.694	0.796	0.905	1.022	1.145	1.277	1.414
GCM-4-125-A & GCM-4-125-A-2	1-1/4"	1/8"	69"	NA	NA	U	6250	2778	1563	1000	694	510	391	309	250	207	174	148	128	111	98	87	77	69	63
						D	0.014	0.032	0.057	0.088	0.127	0.173	0.227	0.287	0.354	0.429	0.510	0.598	0.695	0.795	0.908	1.028	1.143	1.272	1.426
						C	3125	2083	1563	1250	1042	893	781	694	625	568	521	481	446	417	391	368	347	329	313
						D	0.011	0.025	0.045	0.071	0.102	0.139	0.181	0.229	0.283	0.342	0.407	0.478	0.554	0.637	0.725	0.818	0.916	1.021	1.133
GCM-4-125 & GCM-4-125-2	1-1/4"	3/16"	77"	14.8	16.0	U	9375	4167	2344	1500	1042	765	586	463	375	310	260	222	191	167	146	130	116	104	94
						D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.286	0.354	0.428	0.508	0.598	0.692	0.797	0.902	1.024	1.148	1.278	1.418
						C	4688	3125	2344	1875	1563	1339	1172	1042	938	852	781	721	670	625	586	551	521	493	469
						D	0.011	0.025	0.045	0.071	0.102	0.139	0.181	0.229	0.283	0.342	0.407	0.478	0.555	0.636	0.724	0.817	0.917	1.020	1.132
GCM-4-150-A & GCM-4-150-A-2	1-1/2"	1/8"	79"	NA	NA	U	9000	4000	2250	1440	1000	735	563	444	360	298	250	213	184	160	141	125	111	100	90
						D	0.012	0.027	0.047	0.074	0.106	0.144	0.189	0.238	0.295	0.357	0.424	0.498	0.579	0.663	0.756	0.855	0.954	1.067	1.179
						C	4500	3000	2250	1800	1500	1286	1125	1000	900	818	750	692	643	600	563	529	500	474	450
						D	0.009	0.021	0.038	0.059	0.085	0.116	0.151	0.191	0.236	0.285	0.339	0.398	0.462	0.530	0.604	0.681	0.764	0.852	0.943
GCM-4-150 & GCM-4-150-2	1-1/2"	3/16"	88"	17.8	19.4	U	13500	6000	3375	2160	1500	1102	844	667	540	446	375	320	276	240	211	187	167	150	135
						D	0.012	0.027	0.047	0.074	0.106	0.144	0.189	0.239	0.295	0.356	0.424	0.499	0.578	0.663	0.754	0.852	0.957	1.067	1.179
						C	6750	4500	3375	2700	2250	1929	1688	1500	1350	1227	1125	1038	964	900	844	794	750	711	675
						D	0.009	0.021	0.038	0.059	0.085	0.116	0.151	0.191	0.236	0.285	0.339	0.398	0.462	0.530	0.604	0.681	0.764	0.851	0.943
GCM-4-175 & GCM-4-175-2	1-3/4"	3/16"	99"	20.8	22.3	U	18376	8167	4594	2940	2042	1500	1148	907	735	607	510	435	375	327	287	254	227	204	184
						D	0.010	0.023	0.040	0.063	0.091	0.124	0.162	0.204	0.253	0.305	0.363	0.427	0.495	0.569	0.646	0.729	0.819	0.914	1.012
						C	9188	6125	4594	3675	3063	2625	2297	2042	1838	1671	1531	1414	1313	1225	1148	1081	1021	967	919
						D	0.008	0.018	0.032	0.051	0.073	0.099	0.129	0.164	0.202	0.245	0.291	0.342	0.396	0.455	0.517	0.584	0.655	0.729	0.808
GCM-4-200 & GCM-4-200-2	2"	3/16"	109"	23.8	25.1	U	24000	10667	6000	3840	2667	1959	1500	1185	960	793	667	568	490	427	375	332	296	266	240
						D	0.009	0.020	0.035	0.055	0.080	0.108	0.141	0.179	0.221	0.267	0.318	0.373	0.433	0.498	0.566	0.638	0.715	0.798	0.884
						C	12000	8000	6000	4800	4000	3429	3000	2667	2400	2182	2000	1846	1714	1600	1500	1412	1333	1263	1200
						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	0.346	0.398	0.453	0.511	0.573	0.638	0.707
GCM-4-225 & GCM-4-225-2	2-1/4"	3/16"	119"	26.5	27.9	U	30375	13500	7594	4860	3375	2480	1898	1500	1215	1004	844	719	620	540	475	420	375	337	304
						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	0.567	0.636	0.710	0.786
						C	15188	10125	7594	6075	5063	4339	3797	3375	3038	2761	2531	2337	2170	2025	1898	1787	1688	1599	1519
						D	0.006	0.014	0.025	0.039	0.057	0.077	0.101	0.127	0.157	0.190	0.226	0.266	0.308	0.354	0.402	0.454	0.509	0.567	0.629
GCM-4-250 & GCM-4-250-2	2-1/2"	3/16"	129"	29.3	30.7	U	37500	16667	9375	6000	4167	3061	2344	1852	1500	1240	1042	888	765	667	586	519	463	416	375
						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	0.346	0.398	0.453	0.511	0.573	0.639	0.707
						C	18750	12500	9375	7500	6250	5357	4688	4167	3750	3409	3125	2885	2679	2500	2344	2206	2083	1974	1875
						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	0.511	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 17.4545 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.