

SERIES TYPE & NAME	BB HEIGHT & THICKNESS	#/SF		LOAD	CLEAR SPAN																		
		19-W-4	19-W-2		12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"
GW-75-A	3/4" x 1/8"	4.1	5.0	U	1302	579	326	208	145	106	81	64	52	43	36	31	27	23	20	18	16	14	13
				D	0.024	0.053	0.094	0.147	0.213	0.288	0.375	0.475	0.588	0.712	0.844	1.002	1.173	1.317	1.483	1.701	1.900	2.064	2.353
				C	651	434	326	260	217	186	163	145	130	118	109	100	93	87	81	77	72	69	65
				D	0.019	0.042	0.076	0.118	0.170	0.231	0.302	0.383	0.471	0.569	0.682	0.795	0.924	1.063	1.201	1.369	1.520	1.713	1.882
GW-75	3/4" x 3/16"	5.8	6.7	U	1954	868	488	313	217	159	122	96	78	65	54	46	40	35	31	27	24	20	
				D	0.024	0.053	0.094	0.148	0.212	0.288	0.377	0.475	0.588	0.718	0.844	0.991	1.159	1.336	1.532	1.701	1.900	2.162	2.413
				C	977	651	488	391	326	279	244	217	195	178	163	150	140	130	122	115	109	103	98
				D	0.019	0.042	0.075	0.118	0.170	0.231	0.301	0.382	0.471	0.572	0.680	0.795	0.927	1.059	1.206	1.363	1.534	1.705	1.892
GW-100-A	1" x 1/8"	5.2	6.1	U	2316	1029	579	370	257	189	145	114	93	77	64	55	47	41	36	32	29	26	
				D	0.018	0.040	0.071	0.110	0.159	0.216	0.283	0.357	0.444	0.538	0.633	0.749	0.861	0.990	1.125	1.275	1.452	1.616	1.755
				C	1158	772	579	463	386	331	289	257	232	211	193	178	165	154	145	136	129	122	116
				D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.286	0.354	0.429	0.509	0.597	0.691	0.793	0.906	1.020	1.148	1.277	1.416
GW-100	1" x 3/16"	7.5	8.4	U	3474	1544	868	556	386	284	217	172	139	115	96	82	71	62	54	48	43	38	
				D	0.018	0.040	0.071	0.111	0.159	0.217	0.283	0.359	0.442	0.536	0.633	0.745	0.868	0.998	1.126	1.275	1.436	1.575	1.781
				C	1737	1158	868	695	579	496	434	386	347	316	289	267	248	232	217	204	193	183	174
				D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.286	0.353	0.428	0.508	0.597	0.693	0.797	0.905	1.020	1.146	1.278	1.417
GW-125-A	1-1/4" x 1/8"	6.3	7.2	U	3618	1608	904	579	402	295	226	179	145	120	100	86	74	64	57	50	45	40	
				D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.287	0.354	0.429	0.507	0.600	0.694	0.791	0.913	1.020	1.154	1.273	1.407
				C	1809	1206	904	724	603	517	452	402	362	329	301	278	258	241	226	213	201	190	181
				D	0.011	0.025	0.045	0.071	0.102	0.139	0.181	0.229	0.283	0.342	0.407	0.477	0.553	0.636	0.724	0.818	0.916	1.019	1.132
GW-125	1-1/4" x 3/16"	9.1	10.0	U	5427	2412	1357	868	603	443	339	268	217	179	151	128	111	96	85	75	67	60	
				D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.286	0.353	0.427	0.510	0.595	0.694	0.791	0.907	1.020	1.145	1.273	1.407
				C	2714	1809	1357	1085	905	775	678	603	543	493	452	417	388	362	339	319	302	286	271
				D	0.011	0.025	0.045	0.071	0.102	0.139	0.181	0.229	0.283	0.342	0.407	0.477	0.555	0.637	0.724	0.817	0.918	1.022	1.130
GW-150-A	1-1/2" x 1/8"	7.4	8.3	U	5211	2316	1303	834	579	425	326	257	208	172	145	123	106	93	81	72	64	58	
				D	0.012	0.027	0.047	0.074	0.106	0.144	0.189	0.238	0.294	0.356	0.425	0.497	0.576	0.666	0.750	0.850	0.950	1.068	1.176
				C	2605	1737	1303	1042	868	744	651	579	521	474	434	401	372	347	326	307	289	274	261
				D	0.009	0.021	0.038	0.059	0.085	0.115	0.151	0.191	0.236	0.285	0.339	0.399	0.462	0.530	0.604	0.682	0.762	0.850	0.944
GW-150	1-1/2" x 3/16"	10.8	11.7	U	7816	3474	1954	1250	868	638	488	386	313	258	217	185	160	139	122	108	96	87	
				D	0.012	0.027	0.047	0.074	0.106	0.144	0.188	0.239	0.295	0.356	0.424	0.498	0.579	0.663	0.754	0.850	0.950	1.069	1.176
				C	3908	2605	1954	1563	1303	1117	977	868	782	711	651	601	558	521	488	460	434	411	391
				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	0.603	0.682	0.763	0.850	0.943
GW-175	1-3/4" x 3/16"	12.5	13.4	U	10638	4728	2660	1702	1182	868	665	525	426	352	296	252	217	189	166	147	131	118	
				D	0.010	0.023	0.040	0.063	0.091	0.124	0.162	0.204	0.253	0.306	0.364	0.427	0.495	0.568	0.646	0.729	0.816	0.913	1.007
				C	5319	3546	2660	2128	1773	1520	1330	1182	1064	967	887	818	760	709	665	626	591	560	532
				D	0.008	0.018	0.032	0.051	0.073	0.099	0.129	0.164	0.202	0.244	0.291	0.341	0.396	0.454	0.517	0.584	0.655	0.730	0.808
GW-200	2" x 3/16"	14.1	15.0	U	13895	6176	3474	2223	1544	1134	868	686	556	459	386	329	284	247	217	192	172	154	
				D	0.009	0.020	0.035	0.055	0.080	0.108	0.141	0.179	0.221	0.267	0.318	0.374	0.434	0.497	0.565	0.638	0.718	0.798	0.884
				C	6948	4632	3474	2779	2316	1985	1737	1544	1390	1263	1158	1069	993	926	868	817	772	731	695
				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	0.347	0.398	0.452	0.511	0.573	0.638	0.707
GW-225	2-1/4" x 3/16"	15.8	16.7	U	17586	7816	4396	2814	1954	1436	1099	868	703	581	488	416	359	313	275	243	217	195	
				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	8793	5862	4396	3517	2931	2512	2198	1954	1759	1599	1465	1353	1256	1172	1099	1034	977	926	879
				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	0.353	0.402	0.454	0.509	0.568	0.628
GW-250	2-1/2" x 3/16"	17.4	18.3	U	21711	9649	5428	3474	2412	1772	1357	1072	868	718	603	514	443	386	339	300	268	241	
				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	0.452	0.510	0.573	0.639	0.707
				C	10855	7237	5428	4342	3618	3102	2714	2412	2171	1974	1809	1670	1551	1447	1357	1277	1206	1143	1086
				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. 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 16,500 PSI, E = 28,000,000 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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