

SERIES TYPE & NAME	BB HGT	BB THK	LBS./SF		LOAD/ DEFL	CLEAR SPAN																				
			15-W-4	15-W-2		12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"		
SGW-75-A & SGW-75-A-2	3/4"	1/8"	5.0	5.9	U	1650	733	413	264	183	135	103	81	66	55	46	39	34	29	26	23	20	18	17		
					D	0.024	0.053	0.094	0.147	0.212	0.289	0.376	0.474	0.589	0.718	0.851	0.994	1.165	1.310	1.520	1.714	1.873	2.093	2.426		
					C	825	550	413	330	275	236	206	183	165	150	138	127	118	110	103	97	92	87	83		
					D	0.019	0.042	0.075	0.118	0.170	0.231	0.301	0.381	0.471	0.570	0.681	0.796	0.924	1.060	1.204	1.360	1.532	1.703	1.895		
SGW-75 & SGW-75-2	3/4"	3/16"	7.2	8.1	U	2475	1100	619	396	275	202	155	122	99	82	69	59	51	44	39	34	31	27	25		
					D	0.024	0.053	0.094	0.147	0.212	0.289	0.378	0.476	0.589	0.714	0.851	1.003	1.166	1.326	1.521	1.690	1.936	2.094	2.380		
					C	1238	825	619	495	413	354	309	275	248	225	206	190	177	165	155	146	138	130	124		
					D	0.019	0.042	0.075	0.118	0.170	0.231	0.301	0.382	0.472	0.570	0.678	0.795	0.925	1.060	1.209	1.366	1.533	1.698	1.889		
SGW-100-A & SGW-100-A-2	1"	1/8"	6.4	7.3	U	2934	1304	733	469	326	239	183	145	117	97	81	69	60	52	46	41	36	33	29		
					D	0.018	0.040	0.071	0.110	0.159	0.216	0.282	0.358	0.441	0.535	0.633	0.743	0.868	0.992	1.136	1.290	1.424	1.620	1.748		
					C	1467	978	733	587	489	419	367	326	293	267	244	226	210	196	183	173	163	154	147		
					D	0.014	0.032	0.057	0.088	0.127	0.173	0.227	0.287	0.353	0.428	0.508	0.599	0.695	0.798	0.904	1.025	1.146	1.274	1.418		
SGW-100 & SGW-100-2	1"	3/16"	9.3	10.2	U	4400	1956	1100	704	489	359	275	217	176	145	122	104	90	78	69	61	54	49	44		
					D	0.018	0.040	0.071	0.110	0.159	0.216	0.283	0.358	0.442	0.533	0.635	0.746	0.868	0.992	1.136	1.279	1.424	1.604	1.768		
					C	2200	1467	1100	880	733	629	550	489	440	400	367	338	314	293	275	259	244	232	220		
					D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.286	0.354	0.428	0.510	0.597	0.692	0.795	0.905	1.023	1.143	1.279	1.414		
SGW-125-A & SGW-125-A-2	1-1/4"	1/8"	7.9	8.8	U	4584	2037	1146	733	509	374	286	226	183	152	127	108	94	81	72	63	57	51	46		
					D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.286	0.353	0.429	0.508	0.595	0.696	0.791	0.910	1.015	1.154	1.282	1.420		
					C	2292	1528	1146	917	764	655	573	509	458	417	382	353	327	306	286	270	255	241	229		
					D	0.011	0.025	0.045	0.071	0.102	0.139	0.181	0.229	0.283	0.343	0.407	0.479	0.554	0.637	0.723	0.819	0.918	1.020	1.131		
SGW-125 & SGW-125-2	1-1/4"	3/16"	11.3	12.2	U	6875	3056	1719	1100	764	561	430	340	275	227	191	163	140	122	107	95	85	76	69		
					D	0.014	0.032	0.057	0.088	0.127	0.173	0.226	0.287	0.354	0.427	0.509	0.599	0.692	0.794	0.902	1.020	1.147	1.274	1.420		
					C	3438	2292	1719	1375	1146	982	859	764	688	625	573	529	491	458	430	404	382	362	344		
					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	0.636	0.725	0.817	0.917	1.022	1.132		
SGW-150-A & SGW-150-A-2	1-1/2"	1/8"	9.3	10.2	U	6600	2933	1650	1056	733	539	413	326	264	218	183	156	135	117	103	91	81	73	66		
					D	0.012	0.027	0.047	0.074	0.106	0.144	0.189	0.239	0.295	0.356	0.424	0.497	0.579	0.661	0.753	0.848	0.949	1.062	1.179		
					C	3300	2200	1650	1320	1100	943	825	733	660	600	550	508	471	440	413	388	367	347	330		
					D	0.009	0.021	0.038	0.059	0.085	0.116	0.151	0.191	0.236	0.285	0.339	0.399	0.462	0.530	0.604	0.681	0.764	0.850	0.943		
SGW-150 & SGW-150-2	1-1/2"	3/16"	13.5	14.4	U	9900	4400	2475	1584	1100	808	619	489	396	327	275	234	202	176	155	137	122	110	99		
					D	0.012	0.027	0.047	0.074	0.106	0.144	0.189	0.239	0.295	0.356	0.424	0.497	0.577	0.663	0.756	0.851	0.953	1.067	1.179		
					C	4950	3300	2475	1980	1650	1414	1238	1100	990	900	825	762	707	660	619	582	550	521	495		
					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	0.681	0.764	0.851	0.943		
SGW-175 & SGW-175-2	1-3/4"	3/16"	15.6	16.5	U	13475	5989	3369	2156	1497	1100	842	665	539	445	374	319	275	240	211	187	166	149	135		
					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	0.648	0.732	0.816	0.910	1.012		
					C	6738	4492	3369	2695	2246	1925	1684	1497	1348	1225	1123	1037	963	898	842	793	749	709	674		
					D	0.008	0.018	0.032	0.051	0.073	0.099	0.129	0.164	0.202	0.244	0.291	0.342	0.396	0.454	0.517	0.584	0.655	0.729	0.808		
SGW-200 & SGW-200-2	2"	3/16"	17.7	18.6	U	17600	7822	4400	2816	1956	1437	1100	869	704	582	489	417	359	313	275	244	217	195	176		
					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	0.433	0.497	0.566	0.640	0.715	0.798	0.884		
					C	8800	5867	4400	3520	2933	2514	2200	1956	1760	1600	1467	1354	1257	1173	1100	1035	978	926	880		
					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		
SGW-225 & SGW-225-2	2-1/4"	3/16"	19.8	20.7	U	22275	9900	5569	3564	2475	1818	1392	1100	891	736	619	527	455	396	348	308	275	247	223		
					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	0.787		
					C	11138	7425	5569	4455	3713	3182	2784	2475	2228	2025	1856	1713	1591	1485	1392	1310	1238	1172	1114		
					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		
SGW-250 & SGW-250-2	2-1/2"	3/16"	21.9	22.8	U	27500	12222	6875	4400	3056	2245	1719	1358	1100	909	764	651	561	489	430	381	340	305	275		
					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	0.574	0.639	0.707		
					C	13750	9167	6875	5500	4583	3929	3438	3056	2750	2500	2292	2115	1964	1833	1719	1618	1528	1447	1375		
					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	0.510	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

- 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. 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 (Fs) of 16,500 PSI, E = 28,000,000 PSI.
- 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.

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