



Special Note: To determine the load for the types listed in the Conversion Table below, multiply the load table values in the second table below by the designated load factor.

CONVERSION TABLE-		To determine load for types shown below, multiply value above by the corresponding load factor. Deflection under the factored loads will be same as shown in load table.								
Series	SGW, SGW-2, GCC, GDD, 15-SGSS-4, 15-SGCS-4, 15-SGSS-2, 15-SGCS-2	GCM-1 7-SGCS-4, 7-SGCS-2, 7-SGSS-4, 7-SGSS-2	GCM-2	GCM-3	GCM-4 11-SGSS-4, 11-SGCS-4, 11-SGSS-2, 11-SGCS-2	GCM-5	GM GO	GQ GR	GWH	GV
Load Factor	1.27	2.70	2.35	1.90	1.72	1.45	1.15	1.61	.82	.58

GW, GW-2, GAA & GBB Series Steel												LOAD TABLE				
Bearing Bar Size	SPAN (1-3/16" Center to Center Bar Spacings)												Unit Stress 18,000 lbs per sq. inch U - Uniform Load-Pounds per Sq. Ft. D - Deflection in inches C - Concentrated Load-Pounds per Ft. width at mid span			
	1'-0"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	7'-0"	8'-0"				
3/4" x 1/8"	U	1421	355	227	158	116	89	70	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Load Table on www.mcnichols.com GAA & GBB not designed for wheel traffic </div>							
	D	.025	.099	.155	.224	.304	.398	.502								
	C	710	355	284	237	203	178	158								
D	.020	.079	.124	.179	.243	.319	.403									
3/4" x 3/16"	U	2131	533	341	237	174	133	105								
	D	.025	.099	.155	.224	.304	.397	.502								
	C	1066	533	426	355	304	266	237								
D	.020	.079	.124	.179	.243	.317	.403									
1" x 1/8"	U	2526	632	404	281	206	158	125						101	84	70
	D	.019	.075	.116	.168	.228	.298	.378						.465	.566	.668
	C	1263	632	505	421	361	316	281						253	230	211
D	.015	.060	.093	.134	.182	.238	.302	.373						.451	.537	
1" x 3/16"	U	3790	947	606	421	309	237	187	152	125	105					
	D	.019	.074	.116	.168	.228	.298	.377	.467	.562	.669					
	C	1895	947	758	632	541	474	421	379	345	316					
D	.015	.060	.093	.134	.182	.238	.302	.372	.451	.537						
1-1/4" x 1/8"	U	3947	987	631	439	322	247	195	158	130	110	81				
	D	.015	.060	.093	.134	.182	.239	.302	.373	.449	.538	.734				
	C	1973	987	789	658	564	493	439	395	359	329	282				
D	.012	.048	.074	.107	.146	.191	.242	.298	.361	.429	.584					
1-1/4" x 3/16"	U	5921	1480	947	658	483	370	292	237	196	164	121				
	D	.015	.060	.093	.134	.182	.238	.301	.373	.451	.535	.731				
	C	2960	1480	1184	987	846	740	658	592	538	493	423				
D	.012	.048	.074	.107	.146	.191	.241	.298	.360	.429	.584					
1-1/2" x 1/8"	U	5684	1421	910	632	464	355	281	227	188	158	116	89			
	D	.012	.050	.078	.112	.152	.198	.252	.310	.376	.447	.608	.796			
	C	2842	1421	1137	947	812	711	632	568	517	474	406	355			
D	.010	.040	.062	.089	.122	.159	.201	.248	.301	.358	.487	.635				
1-1/2" x 3/16"	U	8526	2132	1364	947	696	533	421	341	282	237	174	133			
	D	.012	.050	.078	.112	.152	.199	.251	.310	.376	.447	.608	.793			
	C	4263	2132	1705	1421	1218	1066	947	853	775	711	609	533			
D	.010	.040	.062	.089	.122	.159	.201	.248	.300	.358	.487	.636				
1-3/4" x 3/16"	U	11605	2901	1857	1289	947	725	573	464	384	322	237	181			
	D	.011	.043	.067	.096	.130	.170	.215	.266	.322	.383	.522	.680			
	C	5803	2901	2321	1934	1658	1451	1289	1161	1055	967	829	725			
D	.009	.034	.053	.077	.104	.136	.172	.213	.257	.306	.417	.545				
2" x 3/16"	U	15158	3790	2425	1684	1237	947	749	606	501	421	309	237			
	D	.009	.037	.058	.084	.114	.149	.189	.233	.282	.335	.456	.596			
	C	7579	3790	3032	2526	2165	1895	1684	1516	1378	1263	1083	947			
D	.007	.030	.047	.067	.091	.119	.151	.186	.225	.268	.365	.476				
2-1/4" x 3/16"	U	19184	4796	3070	2132	1566	1199	947	767	634	533	392	300			
	D	.008	.033	.052	.074	.101	.132	.168	.207	.250	.298	.406	.530			
	C	9592	4796	3837	3197	2741	2398	2132	1918	1744	1599	1370	1199			
D	.008	.026	.041	.060	.081	.106	.134	.166	.200	.238	.324	.424				
2-1/2" x 3/16"	U	23684	5921	3790	2632	1933	1480	1170	947	783	658	483	370			
	D	.007	.030	.047	.067	.091	.119	.151	.186	.225	.268	.365	.477			
	C	11842	5921	4737	3947	3383	2961	2632	2368	2153	1974	1692	1480			
D	.006	.024	.037	.054	.073	.095	.121	.149	.180	.215	.292	.381				

Spans in shaded area produce a deflection of 1/4" or less under a uniform load of 100 pounds per square foot. This deflection is recommended as the maximum to provide pedestrian comfort. It can be exceeded at the discretion of the engineer.

CONVERSION TABLE - To determine load for types shown below, multiply value above by the corresponding load factor. Deflection under the factored loads will be same as shown in load table.										
Series	SGW, SGW-2, GCC, GDD	GCM-1	GCM-2	GCM-3	GCM-4	GCM-5	GM GO	GQ GR	GWH	GV
Load Factor	1.27	2.70	2.35	1.90	1.72	1.45	1.15	1.61	.82	.58

* Typically, your selection, for a given load and span, should fall within the shaded areas. Spans in shaded areas produce a deflection of 1/4 inch or less for a uniform load of 100 pounds per square foot. This deflection is recommended to provide comfortable safety margins, but may be exceeded at the discretion of the engineer.

** The specifier is responsible for verifying conformance of this product with applicable codes associated with its intended use.

Bar Grating is also available with a serrated surface by special order. Caution: For serrated grating, select a bearing bar height 1/4 inch greater than specified for non-serrated grating.

The carrying capacity of a piece of grating subjected to a concentrated load over only a portion of its width is determined by the stiffness of both the bearing bars and the cross bars, and therefore varies with the type of grating used. To determine carrying capacity of gratings subject to such loadings, please call McNICHOLS (800-237-3820).

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