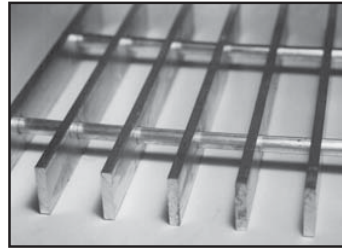
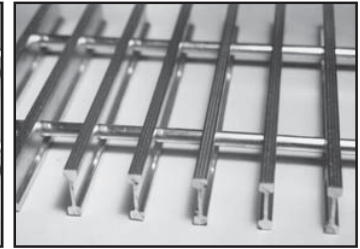


# ALUMINUM SWAGED-LOCKED GRATING

Corrosive resistant aluminum grating is ideal for applications where a lightweight non-rusting grating is required. Manufactured by a swaging process that permanently locks cross rods between the bearing bars. Available in rectangular bar and economical I-Bar. Standard panel sizes are 2' and 3' widths by 20' and 24' lengths. Bearing bar spacing is available in 1-3/16"; 15/16"; 13/16"; 3/4"; 11/16"; 5/8"; 9/16"; and 1/2" center to center.



Rectangular Bar



I-Bar

Aluminum - Type 19-4  
Bearing Bars - 1-3/16" centers

BEARING BAR SIZE	WEIGHT lbs/sq.ft.	SPAN												Sec. Mod. Per Foot of Width	
		2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"		
1" X 1/8"	1.92	U	.458	.293	.203	.149	.114	.90	Spans to the right of heavy line not recommended. Deflections shown based on tabulated loadings. For lesser design loads reduce deflection in direct proportion. For serrated surface increase depth by one size.						.216
		D	.144	.224	.324	.440	.573	.723							
		C	.458	.366	.305	.262	.229	.203							
		D	.115	.180	.260	.354	.482	.582							
1" x 3/16" 1" I-Bar	2.72	U	.688	.441	.306	.225	.172	.136	Spans to the right of heavy line not recommended. Deflections shown based on tabulated loadings. For lesser design loads reduce deflection in direct proportion. For serrated surface increase depth by one size.						.325
		D	.144	.224	.324	.440	.573	.723							
	C	.888	.552	.459	.394	.345	.306								
	D	.115	.180	.260	.354	.482	.582								
1-1/4" x 1/8"	2.31	U	.718	.459	.318	.234	.180	.137	.114	.95	.80	.68	.58	.45	.339
		D	.115	.180	.260	.354	.482	.582	.720	.868	1.032	.122	1.418	1.840	
		C	.718	.575	.479	.410	.359	.319	.288	.261	.240	.221	.206	.179	
		D	.093	.144	.207	.282	.368	.487	.575	.695	.830	.975	1.131	1.475	
1 1/4" X 3/16" 1 1/4" I-Bar	3.31	U	1.075	.688	.477	.351	.269	.212	.172	.142	.119	.102	.88	.67	.507
		D	.115	.180	.258	.354	.460	.580	.720	.868	1.032	1.220	1.418	1.840	
	C	1.075	.858	.714	.613	.537	.477	.428	.390	.357	.330	.307	.268		
	D	.093	.144	.207	.282	.368	.467	.574	.695	.830	.975	1.131	1.475		
1-1/2" x 1/8"	2.72	U	1.032	.662	.480	.337	.258	.204	.165	.136	.115	.98	.84	.65	.488
		D	.096	.151	.216	.295	.384	.487	.603	.724	.865	1.030	1.173	1.540	
		C	1.032	.825	.687	.589	.518	.458	.413	.375	.344	.317	.295	.258	
		D	.077	.120	.172	.235	.307	.386	.479	.579	.690	.825	.939	1.228	
1-1/2" x 3/16" 1 1/2" I-Bar	3.89	U	1.550	.990	.687	.505	.387	.306	.248	.204	.172	.146	.126	.97	.730
		D	.096	.151	.216	.295	.384	.487	.603	.724	.865	1.030	1.173	1.540	
	C	1.550	1.238	1.032	.884	.775	.688	.618	.582	.516	.476	.442	.387		
	D	.077	.120	.172	.235	.3017	.386	.479	.579	.690	.825	.939	1.228		
1-3/4" X 3/16"	4.48	U	2.110	1.348	.935	.687	.527	.416	.337	.278	.234	.200	.172	.132	.994
		D	.082	.127	.185	.252	.329	.416	.515	.621	.740	.888	1.005	1.316	
		C	2.110	1.690	1.408	1.205	1.055	.935	.842	.765	.703	.648	.603	.528	
		D	.066	.103	.148	.202	.264	.333	.412	.497	.595	.696	.809	1.060	
2" X 3/16 2" I-Bar	5.08	U	2.750	1.760	1.223	.898	.687	.543	.440	.364	.306	.260	.224	.172	1.299
		D	.072	.113	.161	.222	.289	.366	.451	.547	.650	.760	.881	1.155	
	C	2.750	2.200	1.835	1.570	1.375	1.223	1.100	1.002	.917	.845	.786	.688		
	D	.057	.090	.129	.178	.230	.292	.360	.436	.517	.606	.703	.923		
2-1/4" x 3/16"	5.68	U	3.482	2.230	1.549	1.138	.870	.687	.557	.460	.387	.330	.284	.217	1.644
		D	.064	.100	.144	.196	.256	.324	.400	.483	.577	.677	.783	1.020	
		C	3.482	2.786	2.320	1.990	1.740	1.548	1.393	1.265	1.160	1.072	.995	.870	
		D	.051	.080	.115	.156	.204	.258	.319	.387	.460	.540	.627	.817	
2-1/2" x 3/16" 2 1/2" I-Bar	6.28	U	4.300	2.753	1.910	1.405	1.075	.850	.688	.569	.477	.407	.351	.269	2.029
		D	.057	.090	.130	.177	.230	.292	.360	.435	.515	.605	.704	.919	
	C	4.300	3.440	2.860	2.455	2.150	1.910	1.720	1.562	1.430	1.320	1.228	1.075		
	D	.046	.072	.103	.141	.184	.234	.288	.348	.413	.485	.562	.735		

**Load Factors (Special Mesh Grating):**  
 Bearing Bars @11/16" centers - multiply tabulated load by 1.71  
 Bearing Bars @15/16" centers - multiply tabulated load by 1.28  
 Bearing Bars @1-7/8" centers - multiply tabulated load by .67  
 Bearing Bars @2-3/8" centers - multiply tabulated load by .52

Table of Safe Loads  
 Bearing Bars: 6063T6 - Cross Bars: 6063T5  
 Max. allowable fibre stress: 12,000 P.S.I.  
 U - Safe Uniform Load, in lbs. per sq. ft.  
 C - Safe Concentrated Load, in lbs. per foot of grating width.  
 D - Deflection in inches.  
 Stock Mats 3'-0" nominal width x 24'-0" long