

		MS I-4010 1" Ht. Pultruded I-Bar													LOAD TABLE	SAFE LOAD
SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	5000	6000		
12"	△ U	.001	.002	.004	.005	.006	.009	.012	.024	.030	.036	.048	.060	.073	15600	
	△ C	.002	.004	.006	.008	.010	.015	.019	.039	.048	.058	.077	.097	.116	7800	
18"	△ U	.006	.011	.017	.022	.028	.042	.056	.112	.139	.167	.223	.279	.335	7431	
	△ C	.006	.012	.018	.024	.030	.045	.060	.119	.149	.179	.238	.298	.357	5573	
24"	△ U	.017	.033	.050	.066	.083	.124	.166	.332	.415	.498	.664	4350			
	△ C	.013	.027	.040	.053	.066	.100	.133	.265	.332	.398	.531	.664	4350		
30"	△ U	.039	.077	.116	.154	.193	.289	.386	Bearing Bars Spaced 1.00" on Center						2784	
	△ C	.025	.049	.074	.099	.123	.185	.247							.494	.617
36"	△ U	.077	.153	.230	.307	.383	.575	For All Load Tables on this Page C Is concentrated load lbs/ft of width △ C Is deflection under concentrated load U Is uniform load lbs/ft² △ U Is deflection under uniform load						1933		
	△ C	.041	.082	.123	.164	.205	.307							.409	2900	
42"	△ U	.141	.281	.422	.563	.703							1414			
	△ C	.064	.129	.193	.257	.321							.482	.643	2474	
48"	△ U	.235	.470	.705							1078					
	△ C	.094	.188	.282							.376	.470	2155			

		MS I-6010 1" Ht. Pultruded I-Bar													LOAD TABLE	SAFE LOAD Z1 SAFETY FACTOR	MS I-6015 1-1/2" Ht. Pultruded I-Bar													LOAD TABLE	SAFE LOAD Z1 SAFETY FACTOR	
SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000			100	200	300	400	500	750	1000	2000	3000	4000	5000	6000	7000					
12"	△ U	.002	.004	.005	.007	.009	.014	.018	.036	.054	.073	.091	10401		.001	.001	.002	.003	.003	.005	.006	.013	.019	.026	.032	.038	.045	17601				
	△ C	.003	.006	.009	.012	.015	.022	.029	.058	.087	.116	.145	5200		.001	.002	.003	.004	.005	.008	.010	.020	.031	.041	.051	.061	.072	8800				
18"	△ U	.008	.017	.025	.033	.042	.063	.084	.167	.251	.335	.418	4954		.003	.006	.009	.012	.015	.023	.030	.061	.091	.121	.152	.182	.212	7823				
	△ C	.009	.018	.027	.036	.045	.067	.089	.179	.268	.357	.446	3716		.003	.006	.010	.013	.016	.024	.032	.065	.097	.129	.162	.194	.226	5867				
24"	△ U	.025	.050	.075	.100	.124	.187	.249	.498	Bearing Bars Spaced 1.50" on Center						2900		.009	.018	.027	.037	.046	.069	.091	.183	.274	.366	.457	.549	.640	4400	
	△ C	.020	.040	.060	.080	.100	.149	.199	.398							.597	2900		.007	.015	.022	.029	.037	.055	.073	.146	.220	.293	.366	.439	.512	4400
30"	△ U	.058	.116	.174	.231	.289	.434	.579	Bearing Bars Spaced 1.50" on Center						1856		.022	.043	.065	.086	.108	.161	.215	.430	.646	2773						
	△ C	.037	.074	.111	.148	.185	.278	.370							2320		.014	.028	.041	.055	.069	.103	.138	.276	.413	.551	3467					
36"	△ U	.115	.230	.345	.460	.575	Bearing Bars Spaced 1.50" on Center						1289		.044	.087	.131	.175	.218	.327	.436	1896										
	△ C	.061	.123	.184	.245	.307							.460	.614	1233		.023	.047	.070	.093	.116	.175	.233	.466	2845							
42"	△ U	.211	.422	.633	NOTE: When 100 pounds per square foot uniform load placed upon a 43" simple span, it will produce a deflection of 1/4" at midspan.						943		.079	.159	.238	.317	.396	.595	1361													
	△ C	.096	.193	.289							.386	.482	1649		.036	.072	.109	.145	.181	.272	.362	2381										
48"	△ U	.353	.705	NOTE: When 100 pounds per square foot uniform load placed upon a 43" simple span, it will produce a deflection of 1/4" at midspan.						719		.133	.266	.400	.533	.666	1017															
	△ C	.141	.282							.423	.564	1437		.053	.107	.160	.213	.266	.400	.533	2033											
54"	△ U	.563	Information is available about longer spans.						566		.211	.422	.633	777																		
	△ C	.200							.400	.600	1274		.075	.150	.225	.300	.375	.563	1748													

		MSHD R-6010 1" Ht. Pultruded Rectangular Bar													LOAD TABLE	SAFE LOAD	
SPAN	LOAD	100	200	300	500	1000	2000	3000	4000	5000	6000	7000	8000				
12"	△ u	.001	.002	.003	.005	.011	.021	.032	.042	.053	.063	.074	.085	9000			
	△ c	.002	.003	.005	.008	.017	.034	.051	.068	.085	.102	.118	.135	7924			
18"	△ u	.005	.010	.015	.025	.051	.101	.152	.203	.253	.304	.355	.405	6000			
	△ c	.005	.011	.016	.027	.054	.108	.162	.216	.270	.324	.378	.432	5283			
24"	△ u	.016	.031	.047	.078	.156	.313	.469	.625	Bearing Bars Spaced 1.50" on Center						3962	
	△ c	.013	.025	.038	.063	.125	.250	.375	.500							.625	3962
30"	△ u	.037	.075	.112	.187	.374	Bearing Bars Spaced 1.50" on Center						2535				
	△ c	.024	.048	.072	.120	.240							.479	3170			
36"	△ u	.077	.154	.231	.385	These load tables are for the solid bar heavy duty grating designed to take heavy wheel traffic such as forklifts, tow motors and truck traffic. Due to the variety of wheel types and loading, it is recommended that you contact our customer service specialists to determine the series of heavy duty grating needed for your application.						1760					
	△ c	.041	.082	.123	.205							.410	2641				
42"	△ u	.142	.283	.425							1294						
	△ c	.065	.129	.194							.324	.647	2264				
48"	△ u	.241	.482							990							
	△ c	.096	.193							.289	.482	1981					
54"	△ u	.383							782								
	△ c	.136							.272	.409	.681	1761					

		MSHD R-6012 1-1/4" Ht. Pultruded Rectangular Bar													LOAD TABLE	SAFE LOAD
SPAN	LOAD	100	200	300	500	1000	2000	3000	4000	5000	6000	7000	8000			
12"	△ u	.001	.001	.002	.003	.006	.012	.018	.024	.030	.035	.041	.047	15000		
	△ c	.001	.002	.003	.005	.009	.019	.028	.038	.047	.057	.066	.076	14000		
18"	△ u	.003	.005	.008	.013	.026	.053	.079	.105	.131	.158	.184	.210	10000		
	△ c	.003	.006	.008	.014	.028	.056	.084	.112	.140	.168	.196	.224	9370		
24"	△ u	.008	.016	.024	.040	.081	.161	.242	.322	.403	.484	.564	.645	7032		
	△ c	.006	.013	.019	.032	.064	.129	.193	.258	.322	.387	.451	.516	7032		
30"	△ u	.020	.039	.059	.098	.195	.390	.585	Bearing Bars Spaced 1.50" on Center						4500	
	△ c	.012	.025	.037	.062	.125	.250	.374							.499	.624
36"	△ u	.040	.080	.121	.201	.402							3125			
	△ c	.021	.043	.064	.107	.215							.429	.644	4680	
42"	△ u	.074	.148	.222	.371							2296				
	△ c	.034	.068	.102	.169							.339	.678	4018		
48"	△ u	.125	.251	.376	.627							1758				
	△ c	.050	.100	.151	.251							.502	3516			
54"	△ u	.200	.399	.599	Information is available about longer spans.						1389					
	△ c	.071	.142	.213							.355	3126				