

Material: Extruded Aluminum 6061 per ASTM B221  
 Fs = 12,000 psi  
 E = 10,000,000 psi  
 Bearing bars spaced 11/16" on center  
 # of bearing bars per foot = 17.4545

### Harsco Industrial IKG

a harsco company

### Types CM4, CMF4, SCM4, SCMF4, ICM4, & ICMF4

### ALUMINUM SAFE LOAD TABLE

U = Uniform load in pounds per square foot  
 D = Deflection in inches  
 C = Concentrated load at mid span in pounds  
 per foot of width

Maximum span for 1/4" deflection under a uniform load of 100 psf		SPAN IN INCHES																			
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
SIZE 1 3/4 X 1/8 S <sup>3</sup> /ft 0.2045 I <sup>4</sup> /ft 0.0767	36	U	1636	727	409	262	182	134	102	81	65	54	45	39	33	29	26	23	20	18	16
		D	0.048	0.108	0.192	0.300	0.432	0.590	0.766	0.974	1.192	1.450	1.711	2.042	2.324	2.692	3.124	3.522	3.849	4.301	4.694
		C	818	545	409	327	273	234	205	182	164	149	136	126	117	109	102	96	91	86	82
		D	0.038	0.086	0.154	0.240	0.346	0.471	0.616	0.778	0.962	1.164	1.379	1.624	1.884	2.158	2.451	2.767	3.114	3.461	3.849
SIZE 2 3/4 X 3/16 S <sup>3</sup> /ft 0.3068 I <sup>4</sup> /ft 0.1151	40	U	2454	1091	614	393	273	200	153	121	98	81	68	58	50	44	38	34	30	27	25
		D	0.048	0.108	0.192	0.300	0.432	0.587	0.766	0.970	1.197	1.449	1.723	2.024	2.347	2.721	3.043	3.469	3.848	4.299	4.887
		C	1227	818	614	491	409	351	307	273	245	223	205	189	175	164	153	144	136	129	123
		D	0.038	0.086	0.154	0.240	0.345	0.471	0.615	0.778	0.958	1.160	1.385	1.623	1.877	2.164	2.450	2.766	3.101	3.459	3.847
SIZE 3 1 X 1/8 S <sup>3</sup> /ft 0.3636 I <sup>4</sup> /ft 0.1818	45	U	2909	1293	727	465	323	237	182	144	116	96	81	69	59	52	45	40	36	32	29
		D	0.036	0.081	0.144	0.225	0.324	0.440	0.577	0.731	0.897	1.087	1.299	1.524	1.753	2.036	2.281	2.584	2.923	3.226	3.589
		C	1454	970	727	582	485	416	364	323	291	264	242	224	208	194	182	171	162	153	145
		D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.583	0.720	0.870	1.035	1.218	1.413	1.621	1.845	2.080	2.339	2.598	2.871
SIZE 4 1 X 3/16 or I-Bar S <sup>3</sup> /ft 0.5455 I <sup>4</sup> /ft 0.2727	50	U	4364	1940	1091	698	485	356	273	216	175	144	121	103	89	78	68	60	54	48	44
		D	0.036	0.081	0.144	0.225	0.324	0.441	0.577	0.731	0.902	1.087	1.294	1.517	1.763	2.036	2.298	2.584	2.923	3.226	3.630
		C	2182	1455	1091	873	727	623	546	485	436	397	364	336	312	291	273	257	242	230	218
		D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.583	0.719	0.872	1.038	1.218	1.413	1.621	1.845	2.084	2.329	2.603	2.878
SIZE 5 1 1/4 X 1/8 S <sup>3</sup> /ft 0.5682 I <sup>4</sup> /ft 0.3551	53	U	4546	2020	1136	727	505	371	284	224	182	150	126	108	93	81	71	63	56	50	45
		D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.582	0.721	0.870	1.035	1.222	1.415	1.624	1.843	2.084	2.328	2.580	2.851
		C	2273	1515	1136	909	758	649	568	505	455	413	379	350	325	303	284	267	253	239	227
		D	0.023	0.052	0.092	0.144	0.207	0.282	0.369	0.467	0.577	0.697	0.830	0.974	1.130	1.296	1.474	1.662	1.870	2.077	2.301
SIZE 6 1 1/4 X 3/16 or I-Bar S <sup>3</sup> /ft 0.8523 I <sup>4</sup> /ft 0.5327	59	U	6818	3030	1705	1091	758	557	426	337	273	225	189	161	139	121	107	94	84	76	68
		D	0.029	0.065	0.115	0.180	0.259	0.353	0.461	0.584	0.721	0.870	1.035	1.214	1.410	1.617	1.851	2.073	2.328	2.615	2.872
		C	3409	2273	1705	1364	1136	974	852	758	682	620	568	524	487	455	426	401	379	359	341
		D	0.023	0.052	0.092	0.144	0.207	0.282	0.369	0.467	0.576	0.697	0.829	0.973	1.129	1.297	1.474	1.664	1.867	2.080	2.304
SIZE 7 1 1/2 X 1/8 S <sup>3</sup> /ft 0.8182 I <sup>4</sup> /ft 0.6136	61	U	6546	2909	1636	1047	727	534	409	323	262	216	182	155	134	116	102	91	81	73	65
		D	0.024	0.054	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.725	0.865	1.015	1.180	1.346	1.532	1.742	1.949	2.180	2.383
		C	3273	2182	1636	1309	1091	935	818	727	655	595	545	504	468	436	409	385	364	345	327
		D	0.019	0.043	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.812	0.942	1.079	1.229	1.387	1.557	1.735	1.919
SIZE 8 1 1/2 X 3/16 or I-Bar S <sup>3</sup> /ft 1.2273 I <sup>4</sup> /ft 0.9205	68	U	9818	4364	2455	1571	1091	802	614	485	393	325	273	232	200	175	153	136	121	109	98
		D	0.024	0.054	0.096	0.150	0.216	0.294	0.384	0.486	0.600	0.727	0.865	1.012	1.174	1.353	1.532	1.735	1.941	2.170	2.395
		C	4909	3273	2455	1964	1636	1403	1227	1091	982	893	818	755	701	655	614	578	545	517	491
		D	0.019	0.043	0.077	0.120	0.173	0.235	0.307	0.389	0.480	0.581	0.691	0.811	0.940	1.081	1.229	1.388	1.554	1.734	1.920
SIZE 9 1 3/4 X 3/16 or I-Bar S <sup>3</sup> /ft 1.6705 I <sup>4</sup> /ft 1.4616	76	U	13364	5940	3341	2138	1485	1091	835	660	535	442	371	316	273	238	209	185	165	148	134
		D	0.021	0.046	0.082	0.129	0.185	0.252	0.329	0.417	0.515	0.623	0.740	0.868	1.009	1.159	1.318	1.487	1.667	1.856	2.063
		C	6682	4455	3341	2673	2227	1909	1671	1485	1336	1215	1114	1028	955	891	835	786	742	703	668
		D	0.016	0.037	0.066	0.103	0.148	0.202	0.263	0.333	0.411	0.498	0.593	0.695	0.807	0.926	1.053	1.189	1.332	1.485	1.645
SIZE 10 2 X 3/16 or I-Bar S <sup>3</sup> /ft 2.1818 I <sup>4</sup> /ft 2.1818	84	U	17454	7758	4364	2793	1939	1425	1091	862	698	577	485	413	356	310	273	242	215	193	175
		D	0.018	0.041	0.072	0.113	0.162	0.221	0.288	0.365	0.450	0.544	0.648	0.760	0.881	1.012	1.153	1.303	1.455	1.621	1.805
		C	8727	5818	4364	3491	2909	2493	2182	1939	1745	1587	1455	1343	1247	1164	1091	1027	970	919	873
		D	0.014	0.032	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.706	0.810	0.922	1.041	1.167	1.300	1.440
SIZE 11 2 1/4 X 3/16 or I-Bar S <sup>3</sup> /ft 2.7614 I <sup>4</sup> /ft 3.1065	92	U	22091	9818	5523	3535	2455	1803	1381	1091	884	730	614	523	451	393	345	306	273	245	221
		D	0.016	0.036	0.064	0.100	0.144	0.196	0.256	0.324	0.400	0.484	0.576	0.676	0.784	0.901	1.024	1.157	1.297	1.445	1.601
		C	11046	7364	5523	4418	3682	3156	2761	2455	2209	2008	1841	1699	1578	1473	1381	1299	1227	1163	1105
		D	0.013	0.029	0.051	0.080	0.115	0.157	0.205	0.259	0.320	0.387	0.461	0.541	0.627	0.720	0.819	0.924	1.037	1.156	1.281
SIZE 12 2 1/2 X 3/16 or I-Bar S <sup>3</sup> /ft 3.4091 I <sup>4</sup> /ft 4.2614	100	U	27273	12121	6818	4364	3030	2226	1705	1347	1091	902	758	646	557	485	426	377	337	302	273
		D	0.014	0.032	0.058	0.090	0.130	0.176	0.230	0.292	0.360	0.436	0.519	0.609	0.706	0.810	0.921	1.039	1.167	1.299	1.441
		C	13636	9091	6818	5455	4545	3896	3409	3030	2727	2479	2273	2098	1948	1818	1705	1604	1515	1435	1364
		D	0.012	0.026	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348	0.415	0.487	0.564	0.648	0.737	0.832	0.933	1.039	1.152