

Material: Hot Rolled Carbon Steel per ASTM A1011
 Fs = 18,000 psi
 E = 29,000,000 psi
 Bearing bars spaced 5/8" on center
 # of bearing bars per foot = 19.2

Harsco Industrial IKG

a harsco company

Types CM3 & CMF3

STEEL 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 ³ /ft 0.2250 I ⁴ /ft 0.0844	49	U	2700	1200	675	432	300	220	169	133	108	89	75	64	55	48	42	37	33	30	27
		D	0.025	0.056	0.099	0.155	0.223	0.303	0.398	0.501	0.621	0.749	0.894	1.050	1.214	1.396	1.581	1.775	1.990	2.246	2.482
		C	1350	900	675	540	450	386	338	300	270	245	225	208	193	180	169	159	150	142	135
		D	0.020	0.045	0.079	0.124	0.179	0.243	0.318	0.402	0.496	0.600	0.715	0.840	0.974	1.117	1.273	1.436	1.608	1.791	1.986
SIZE 3 1 X 1/8 S ³ /ft 0.4000 I ⁴ /ft 0.2000	60	U	4800	2133	1200	768	533	392	300	237	192	159	133	114	98	85	75	66	59	53	48
		D	0.019	0.042	0.074	0.116	0.167	0.228	0.298	0.377	0.466	0.564	0.669	0.789	0.913	1.043	1.192	1.337	1.502	1.675	1.862
		C	2400	1600	1200	960	800	686	600	533	480	436	400	369	343	320	300	282	267	253	240
		D	0.015	0.034	0.060	0.093	0.134	0.183	0.238	0.301	0.372	0.450	0.536	0.629	0.730	0.838	0.953	1.075	1.208	1.346	1.490
SIZE 5 1 1/4 X 1/8 S ³ /ft 0.6250 I ⁴ /ft 0.3906	71	U	7500	3333	1875	1200	833	612	469	370	300	248	208	178	153	133	117	104	93	83	75
		D	0.015	0.034	0.060	0.093	0.134	0.182	0.238	0.301	0.372	0.451	0.535	0.631	0.730	0.836	0.952	1.078	1.212	1.343	1.490
		C	3750	2500	1875	1500	1250	1071	938	833	750	682	625	577	536	500	469	441	417	395	375
		D	0.012	0.027	0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.361	0.429	0.504	0.584	0.670	0.763	0.861	0.966	1.076	1.192
SIZE 7 1 1/2 X 1/8 S ³ /ft 0.9000 I ⁴ /ft 0.6750	82	U	10800	4800	2700	1728	1200	882	675	533	432	357	300	256	220	192	169	149	133	120	108
		D	0.012	0.028	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.375	0.447	0.525	0.607	0.698	0.796	0.894	1.003	1.123	1.241
		C	5400	3600	2700	2160	1800	1543	1350	1200	1080	982	900	831	771	720	675	635	600	568	540
		D	0.010	0.022	0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.486	0.559	0.636	0.717	0.804	0.896	0.993