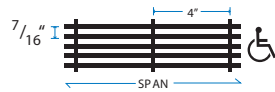
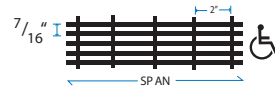


CM1



CMF1



Maximum span for 1/4" deflection under uniform load of 100 psf

SPAN IN INCHES			12	18	24	30	36	42	48	54													
3/4	X	1/8	53	U	3857	1714	964	617	429	315	241	190											
				D	0.025	0.056	0.099	0.155	0.224	0.304	0.397	0.502											
				C	1928	1286	964	771	643	551	482	429											
S^3/ft		0.321																					
I^4/ft		0.121																					
3/4	X	3/16	59	U	5785	2571	1446	926	643	472	362	286	231										
				D	0.025	0.056	0.099	0.155	0.224	0.304	0.398	0.503	0.620										
				C	2893	1928	1446	1157	964	826	723	643	579										
S^3/ft		0.482																					
I^4/ft		0.181																					
1	X	1/8	66	U	6857	3047	1714	1097	762	560	429	339	274	227									
				D	0.019	0.042	0.074	0.116	0.168	0.228	0.298	0.378	0.465	0.564									
				C	3428	2286	1714	1371	1143	980	857	762	686	623									
S^3/ft		0.571																					
I^4/ft		0.286																					
1	X	3/16	73	U	10285	4571	2571	1646	1143	840	643	508	411	340	286	243							
				D	0.019	0.042	0.074	0.116	0.168	0.228	0.298	0.377	0.465	0.563	0.671	0.785							
				C	5143	3428	2571	2057	1714	1469	1286	1143	1029	935	857	791							
S^3/ft		0.857																					
I^4/ft		0.429																					
1 1/4	X	1/8	78	U	10715	4762	2679	1714	1191	875	670	529	429	354	298	254							
				D	0.015	0.034	0.060	0.093	0.134	0.183	0.238	0.302	0.373	0.450	0.537	0.630							
				C	5357	3572	2679	2143	1786	1531	1339	1191	1071	974	893	824							
S^3/ft		0.893																					
I^4/ft		0.558																					
1 1/4	X	3/16	86	U	16072	7143	4018	2571	1786	1312	1004	794	643	531	446	380	328	286					
				D	0.015	0.034	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.450	0.536	0.629	0.730	0.839					
				C	8036	5357	4018	3214	2679	2296	2009	1786	1607	1461	1339	1236	1148	1071					
S^3/ft		1.339																					
I^4/ft		0.837																					
1 1/2	X	1/8	90	U	15428	6857	3857	2469	1714	1259	964	762	617	510	429	365	315	274					
				D	0.012	0.028	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.375	0.447	0.524	0.609	0.698					
				C	7714	5143	3857	3086	2571	2204	1929	1714	1543	1403	1286	1187	1102	1029					
S^3/ft		1.286																					
I^4/ft		0.964																					
1 1/2	X	3/16	99	U	23143	10286	5786	3703	2571	1889	1446	1143	926	765	643	548	472	411	362	320			
				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	0.608	0.698	0.795	0.896			
				C	11572	7714	5786	4629	3857	3306	2893	2571	2314	2104	1929	1780	1653	1543	1446	1361			
S^3/ft		1.929																					
I^4/ft		1.446																					
1 3/4	X	3/16	111	U	31500	14000	7875	5040	3500	2571	1969	1556	1260	1041	875	746	643	560	492	436	389	349	
				D	0.011	0.024	0.043	0.067	0.096	0.130	0.170	0.216	0.266	0.322	0.383	0.450	0.521	0.599	0.681	0.769	0.862	0.960	
				C	15750	10500	7875	6300	5250	4500	3938	3500	3150	2864	2625	2423	2250	2100	1969	1853	1750	1658	
S^3/ft		2.625																					
I^4/ft		2.297																					
2	X	3/16	123	U	41143	18286	10286	6583	4571	3359	2571	2032	1646	1360	1143	974	840	731	643	569	508	456	411
				D	0.009	0.021	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.523	0.596	0.672	0.754	0.840	0.930
				C	20572	13714	10286	8229	6857	5878	5143	4571	4114	3740	3429	3165	2939	2743	2571	2420	2286	2165	2057
S^3/ft		3.429																					
I^4/ft		3.429																					

Material: Hot Rolled Carbon Steel ASTM A1011
 Fs = 18,000 psi
 E = 29,000,000 psi
 Bearing bars spaced 7/16 inches on center
 # of bearing bars per foot of grating = 27.4286

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

Our closest spaced grating available. Excellent for pedestrian use and areas where high visibility is a concern. Satisfies maximum 1/2" clear opening as required by ADA.

No. Of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CM1, CMF1	5/8	1 1/16	1 1/2	1 15/16	2 3/8	2 13/16	3 1/4	3 11/16	4 1/8	4 9/16	5	5 7/16	5 7/8	6 5/16	6 3/4
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	7 3/16	7 5/8	8 1/16	8 1/2	8 15/16	9 3/8	9 13/16	10 1/4	10 11/16	11 1/8	11 9/16	12	12 7/16	12 7/8	13 5/16
	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
	13 3/4	14 3/16	14 5/8	15 1/16	15 1/2	15 15/16	16 3/8	16 13/16	17 1/4	17 11/16	18 1/8	18 9/16	19	19 7/16	19 7/8
	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
	20 5/16	20 3/4	21 3/16	21 5/8	21 1/16	22 1/2	22 15/16	23 3/8	23 13/16	24 1/4	24 11/16	25 1/8	25 9/16	26	26 7/16
	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
	26 7/8	27 5/16	27 3/4	28 3/16	28 5/8	29 1/16	29 1/2	29 15/16	30 3/8	30 13/16	31 1/4	31 11/16	32 1/8	32 9/16	33
	77	78	79	80	81	82	83								
	33 7/16	33 7/8	34 5/16	34 3/4	35 3/16	35 5/8	36 1/16								