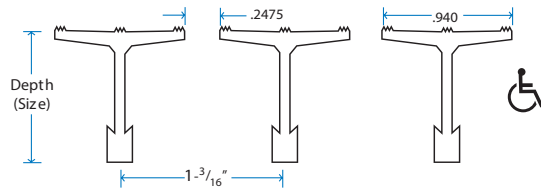


TB-940



**Material: Extruded Aluminum Alloy
6063-T6 per ASTM B221**

Fs = 12,000 psi

E = 10,000,000 psi

Bearing bars spaced 1 3/16 inches on center

of bearing bars per foot of grating = 10.1053

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

Size	Depth	Wt./sf.	Open Area
4	1"	3	20.80%
6	1-1/4"	4.2	20.80%
8	1-1/2"	4.4	20.80%
10	2"	5	20.80%

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

SPAN IN INCHES		12	18	24	30	36	42	48	54						
1 X 0.940 S ³ /ft 0.526 I ⁴ /ft 0.303	51	U	4204	1868	1051	673	467	343	263	208					
		D	0.031	0.070	0.125	0.195	0.281	0.382	0.500	0.633					
		C	2102	1401	1051	841	701	601	526	467					
		D	0.025	0.056	0.100	0.156	0.225	0.306	0.400	0.505	60	66			
1 1/4 X 0.940 S ³ /ft 0.869 I ⁴ /ft 0.647	62	U	6953	3090	1738	1112	773	568	435	343	278	230			
		D	0.024	0.054	0.097	0.151	0.218	0.297	0.387	0.489	0.605	0.732			
		C	3476	2318	1738	1391	1159	993	869	773	695	632			
		D	0.019	0.044	0.077	0.121	0.174	0.237	0.310	0.392	0.484	0.585	72		
1 1/2 X 0.940 S ³ /ft 1.172 I ⁴ /ft 1.031	70	U	9378	4168	2344	1500	1042	766	586	463	375	310	260		
		D	0.020	0.046	0.082	0.128	0.184	0.251	0.327	0.414	0.512	0.619	0.736		
		C	4689	3126	2344	1876	1563	1340	1172	1042	938	853	781		
		D	0.016	0.037	0.065	0.102	0.147	0.201	0.262	0.332	0.410	0.496	0.589	78	84
2 X 0.940 S ³ /ft 1.859 I ⁴ /ft 2.132	84	U	14875	6611	3719	2380	1653	1214	930	735	595	492	413	352	304
		D	0.016	0.035	0.063	0.098	0.141	0.192	0.251	0.318	0.392	0.475	0.565	0.663	0.770
		C	7438	4958	3719	2975	2479	2125	1859	1653	1488	1352	1240	1144	1063
		D	0.013	0.028	0.050	0.078	0.113	0.154	0.201	0.254	0.314	0.380	0.452	0.530	0.616

Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Widths	2 1/8	3 1/3	4 1/2	5 2/3	6 7/8	8	9 1/4	10 4/9	11 5/8	12 4/5	14	15 1/5	16 3/8	17 5/6	18 3/4
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	19 15/16	21 1/8	22 5/16	23 1/2	24 11/16	25 7/8	27 1/16	28 1/4	29 7/16	30 5/8	31 13/16	33	34 3/16	35 3/8	36 9/16