

Material: Extruded Aluminum Alloy 6063

T6 per ASTM B221

Fs = 12,000 psi

E = 10,000,000 psi

Bearing bars spaced 1.2 inches on center

of bearing bars per foot of grating = 10

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 uniform load of 100 psf

SPAN IN INCHES			12	18	24	30	36	42	48	54	60	66	72	78	84	90	
SL	30	46	U	3088	1372	772	494	343	252	193	152	124	102	86	73	63	55
DEPTH	1		D	0.036	0.081	0.143	0.224	0.322	0.439	0.573	0.723	0.899	1.083	1.293	1.511	1.754	2.018
S ³ /ft	0.386		C	1544	1029	772	618	515	441	386	343	309	281	257	238	221	206
I ⁴ /ft	0.194		D	0.029	0.064	0.115	0.179	0.258	0.351	0.458	0.580	0.717	0.868	1.030	1.213	1.407	1.613