



SUNEARTH INC.

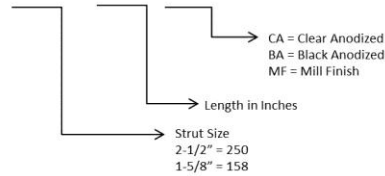
SUNEARTH SOLAR STRUT ENGINEERING DATA

PROPERTIES OF SECTIONS

I = Moment of Inertia
 E = Young's Modulus
 σ_y = Yield Stress
 c = Distance to Centroid
 L = Strut Length
 P = Load

Part Number Designation

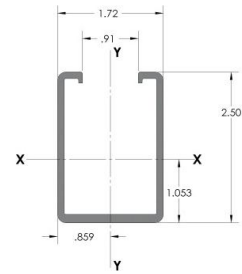
10070-###-###-XX



$I_x(in^4)$	$c(in.)$	Solar Strut Size	$E(psi)$	$\sigma_y(psi)$	$I_y(in^4)$	Material	Bronze Finish	Clear Finish
0.625	1.447	2-1/2"	10007604	25000	0.408	AA 6063-T6	minimum .1mils	minimum .1mils
0.219	0.955	1-5/8"	10007604	25000	0.287	AA 6063-T6	minimum .1mils	minimum .1mils

2-1/2" Solar Strut

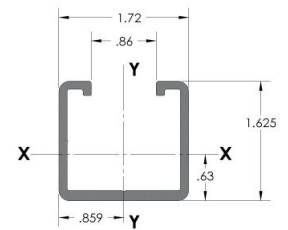
Beam Span(in.)	Maximum Uniform Load(lbf)	Uniform Load at Deflection = L/240 (lbf)	Maximum Fixed Column Load (lbf)	Cantilever Distance (in.)	Maximum Cantilever Uniform Load (lbf)
24	2398	2315	17862	20	719
36	1598	1028	7939	25	575
48	1197	577	4466	30	478
60	957	367	2858	35	409
72	796	254	1985	40	358
84	681	185	1458	45	318
96	595	140	1116	50	285
108	527	109	882	55	259
120	474	86	714	60	237



Wt. = 0.97 lbs/ft
Area = 0.81 in²

1-5/8" Solar Strut

Beam Span(in.)	Maximum Uniform Load(lbf)	Uniform Load at Deflection = L/240 (lbf)	Maximum Fixed Column Load (lbf)	Cantilever Distance (in.)	Maximum Cantilever Uniform Load (lbf)
24	1273	811	6259	20	381
36	848	359	2782	25	304
48	635	201	1565	30	253
60	507	127	1001	35	216
72	422	87	695	40	188
84	361	63	511	45	167
96	315	47	391	50	149
108	279	36	309	55	135
120	250	28	250	60	123



Wt. = 0.75 lbs/ft
Area = 0.64 in²

*Values listed in the tables above are subjected to a Factor of Safety of 1.5