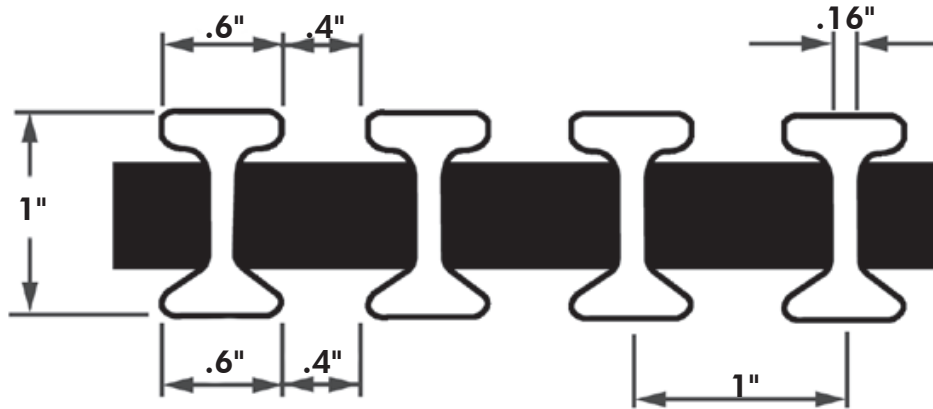


DURAGRID I-4000 1"



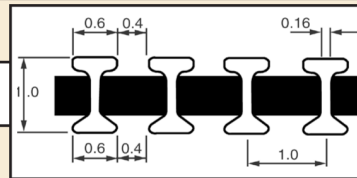
A = 3.744 IN²/FT OF WIDTH

I = 0.492 IN⁴/FT OF WIDTH

S = 0.984 IN³/FT OF WIDTH

LOAD/DEFLECTION TABLE

SPAN INCHES		LOAD														SAFETY FACTOR	DEFLECTION	E x 10 ⁶ PSI		
		50	100	150	200	250	300	400	500	750	1000	2000	2500	3000	4000				5000	6000
12	Δu	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.006	0.009	0.012	0.024	0.030	0.036	0.048	0.060	0.073	15600	0.189	3.78
	Δc	0.001	0.002	0.003	0.004	0.005	0.006	0.008	0.010	0.015	0.019	0.039	0.048	0.058	0.077	0.097	0.116			
18	Δu	0.003	0.006	0.008	0.011	0.014	0.017	0.022	0.028	0.042	0.056	0.112	0.139	0.167	0.223	0.279	0.335	7431	0.415	4.15
	Δc	0.003	0.006	0.009	0.012	0.015	0.018	0.024	0.030	0.045	0.060	0.119	0.149	0.179	0.238	0.298	0.357			
24	Δu	0.008	0.017	0.025	0.033	0.041	0.050	0.066	0.083	0.124	0.166	0.332	0.415	0.498	0.664			4350	0.722	4.41
	Δc	0.007	0.013	0.020	0.027	0.033	0.040	0.053	0.066	0.100	0.133	0.265	0.332	0.398	0.531	0.664				
30	Δu	0.019	0.039	0.058	0.077	0.096	0.116	0.154	0.193	0.289	0.386							2784	1.074	4.63
	Δc	0.012	0.025	0.037	0.049	0.062	0.074	0.099	0.123	0.185	0.247	0.494	0.617							
36	Δu	0.038	0.077	0.115	0.153	0.192	0.230	0.307	0.383	0.575								1933	1.482	4.83
	Δc	0.020	0.041	0.061	0.082	0.102	0.123	0.164	0.205	0.307	0.409									
42	Δu	0.070	0.141	0.211	0.281	0.352	0.422	0.563	0.703									1414	1.988	4.88
	Δc	0.032	0.064	0.096	0.129	0.161	0.193	0.257	0.321	0.482	0.643									
48	Δu	0.118	0.235	0.353	0.470	0.588	0.705											1078	2.534	4.98
	Δc	0.047	0.094	0.141	0.188	0.235	0.282	0.376	0.470											



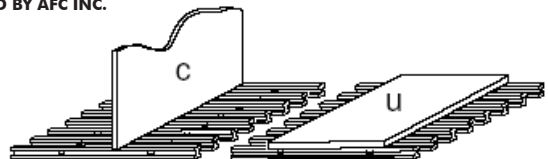
SERIES	BEARING BAR THICKNESS	NO. BARS PER FOOT	BEARING BAR CENTER	OPEN SPACE	% OPEN AREA	APPROX. WEIGHT PER SQ. FT.	RESIN	COLOR
I-4000	1.000"	12	1.000"	.400"	40%	3.5 LBS. PER SQ. FT.	FIRE RETARDANT (STANDARD) OR VINYL ESTER	WHITE YELLOW GRAY

Standard crossrods at 12" center. Other spacings available on request. The modulus of elasticity will vary with span length due to the non-homogeneous make-up of composite material (see table).

DEFLECTION AND MAXIMUM LOAD DATA WAS CALCULATED FROM LAB TESTS CONDUCTED BY AFC INC.

Loading to the left of the blue vertical lines produce a deflection of less than .25 inches.

- c is Concentrated Load LBS/FT of width
- Δc is Deflection under Concentrated Load
- u is Uniform Load LBS/FT²
- Δu is Deflection under Uniform Load



Recreation Supply Company, Inc.
 P.O. Box 2757 Bismarck, ND 58502 www.RecSupply.com
 Ph: 1-800-437-8072 Fax: 1-800-850-0262

Submittal Item No:	Qty. Required:
Section:	Recirculation Equipment
Document Title:	R042
RSC Product No:	