Heavy Duty Pultruded I-Bar

Style			Uniform Load - lbs/sq. ft; Deflection - inches										Wheel Loads - lbs/ft of width; Deflection - inches								
Style	Ht. (In)	Load Bar Spacing CC (In)	Load/ Span	36"	42"	48"	54"	60"	66"	72"	78"	84"	Load/ Span	12"	18"	24"	30"	36"	42"	48"	54"
I-4710	1	1-3/16	100	.05	.08	.13	.21	.32	***.48***				2000	.04	.10	.20	.33				
			200	.10	.17	.27	***.42***						6200	.13							
			300	.15	.25	***.40***							8730	.19							
			FL*	3221	2366	1812	1431	1159	958				20800	.12							
I-4715	1-1/2	1-3/16	100	.02	.04	.06	.10	.15	.22	.30	***.42***	***.56***	2000	.03	.06	.11	.17	.25	.36		
			200	.05	.08	.13	.20	.29	***.43***				6200	.10	.19	.33	***.53***				
			300	.07	.12	.19	.29	***.44***					8730	.14	.27						
			FL*	7070	5194	3977	3142	2545	2103	1767	1506	1298	20800	.09	.23						
I-4720	2	1-3/16	100	.01	.02	.03	.05	.06	.09	.12	.17	.22	6200		.17	.22	.31	***.43***	***.58***		
			200	.03	.04	.06	.09	.13	.18	.25	.33	***.44***	8730		.24	.31	***.44***	***.60***			
			300	.04	.06	.09	.14	.19	.26	.37	***.50***	***.67***	10400		.26	.36					
			FL*	12180	8949	6851	5413	4385	3624	3045	2595	2237	20800		.21	.34					
I-4725	2-1/2	1-3/16	100	.01	.01	.02	.03	.05	.07	.09	.13	.17	6200		.05	.10	.16	.24	.35	***.49***	***.66***
			200	.02	.03	.04	.06	.09	.13	.19	.26	.34	8730		.08	.13	.23	.34	***.49***	***.69***	
			300	.02	.04	.06	.09	.14	.20	.28	***.38***	***.52***	10400		.08	.15	.26	***.40***	***.58***		
			FL*	15789	13534	10672	8432	6830	5465	4743	4041	3485	20800		.07	.14	.27	***.43***	***.64***		
I-5815	1-1/2	1-1/2	100	.03	.05	.08	.12	.18	.27	***.38***	***.52***	***.70***	2000	.04	.08	.10	.13	.21	.32		
			200	.06	.10	.16	.25	.37	***.54***				6200	.13	.24						
			300	.09	.15	.24	.37						8730	.18							
			FL*	5597	4112	3148	2488	2015	1665	1399	1192	1028	20800	.11	.29						
I-5820	2	1-1/2	100	.02	.03	.04	.06	.08	.11	.15	.21	.28	6200		.21	.28	***.38***	***.53***			
			200	.03	.05	.08	.11	.16	.22	.31	***.42***	***.57***	8730		.29	***.39***					
			300	.05	.08	.12	.17	.24	.34	***.46***	***.63***		10400								
			FL*	9641	7083	5423	4285	3471	2869	2410	2054	1771	20800		.25						
I-5825	2-1/2	1-1/2	100	.01	.02	.03	.04	.06	.08	.12	.16	.22	6200		.06	.12	.20	.30	***.44***	***.61***	
			200	.02	.03	.05	.08	.11	.16	.23	.32	***.43***	8730		.09	.17	.28	***.42***	***.62***		
			300	.03	.05	.08	.11	.17	.25	.35	***.48***	***.65***	10400		.10	.19	.33	***.49***			
			FL*	12500	10714	8448	6675	5407	4469	3755	3199	2759	20800		.07	.18	.34	***.53***			

*FL: Failure load. Determined by applying a 2.5 Factor of Safety to the Ultimate Capacity of the grating.

•Deflection for uniform loads is limited to L/120 with .375" being the recommended maximum for non-sustained loads.

Italicized, bolded values indicate deflection greater than .375" or L/120, please seek engineer's advice for applicability.

•Wheel loads represent: 2000 lbs. on 7"x10" wheel print; 6200 lbs. - 2 Ton Fork Lift; 8730 lbs. - 3 Ton Fork Lift; 10400 lbs - H10 load on 10"x10" wheel print; 20800 lbs. - H20 load on 20"x20" wheel print.