

MOMENT OF INERTIA CALCULATION.

3/4 off top plates & 2/3 off M. Deck. 11/5/84

Builder's Name and Yard No.

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CLASS

Depth of Girder

Reductions for High Tensile Steel.

ITEMS.	DIMENSIONS.	AREA.	C. G. FROM NEUTRAL AXIS.	MOMENT.	MOMENT OF INERTIA.	CORRECTION $\frac{1}{12} A H^2$.
#8 Top rails 3/16.	186 x .16	28.0	24.2	675	1760	
Sh. 2/16	348 x .10	34.8	30.2	1050	31800	
U.d. 1/16	354 x .05	17.7	20.3	360	7350	
		80.5		2085	57210	
	5/16	67		1740	47500	
		3163		9525	1774000	
		67		1740	47500	
		3096		11265	1728500	
				3.65	41000	
				32.25	1687500	
				35.90	470000	
					94000 = Lb.	
					$\frac{950000}{94000} = 10.1$ tons pr. y. a. c.	
					increase = 5 1/4 %.	
					10	
					9.6 ton.	
					10.6 ton	
					4/16 off top rails	
					4 off. top shelter deck	
					2 " upper deck.	
					11 %.	