

<b>Table 1 (a)</b>											
<b>Effective Section Properties</b>											
<b>LiteSteel beam</b>											
ID	wt/ft	Yield Stress		Axial Compression		about x-axis		about y-axis			
		Flange	Web	Effective Area	Coord. of Centroid	$I_{ex}$	$S_{ex}$	$I_{eyL}$	$S_{eyL}$	$I_{eyR}$	$S_{eyR}$
		$F_{yf}$	$F_{yw}$	$A_e$	$x_c$	$in^4$	$in^3$	$in^4$	$in^3$	$in^4$	$in^3$
	lb	ksi	ksi	$in^2$	in						
1400LSB350-134	13.07	60.0	50.0	3.07	1.36	107.7	15.49	4.63	3.53	5.74	2.37
1400LSB350-118	11.59	60.0	50.0	2.66	1.40	94.5	13.37	4.31	3.19	5.17	2.13
1400LSB350-98	9.73	60.0	50.0	2.17	1.44	76.8	10.56	3.87	2.75	4.41	1.82
1200LSB350-134	12.17	60.0	50.0	3.05	1.37	75.2	12.73	4.27	3.23	5.45	2.32
1200LSB350-118	10.80	60.0	50.0	2.65	1.40	66.9	11.33	3.96	2.92	4.91	2.09
1200LSB350-98	9.07	60.0	50.0	2.16	1.44	54.6	9.00	3.53	2.51	4.19	1.79
1000LSB300-118	8.97	60.0	50.0	2.28	1.14	38.5	7.83	2.19	1.99	2.84	1.43
1000LSB300-98	7.54	60.0	50.0	1.85	1.18	32.5	6.61	1.96	1.71	2.43	1.23
1000LSB300-79	6.09	60.0	50.0	1.44	1.22	25.3	4.96	1.71	1.43	2.00	1.02
800LSB250-98	5.96	60.0	50.0	1.53	0.91	16.4	4.16	0.92	1.05	1.20	0.76
800LSB250-79	4.82	60.0	50.0	1.19	0.94	13.3	3.38	0.80	0.88	1.00	0.63
800LSB250-59	3.67	60.0	50.0	0.86	0.98	9.6	2.34	0.67	0.69	0.78	0.49

US 50ksi steel

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