

Chart II-3b

Nominal Flexural Strength
Z-Sections with Lips, ($F_y = 55 \text{ ksi}$, $C_b = 1$)

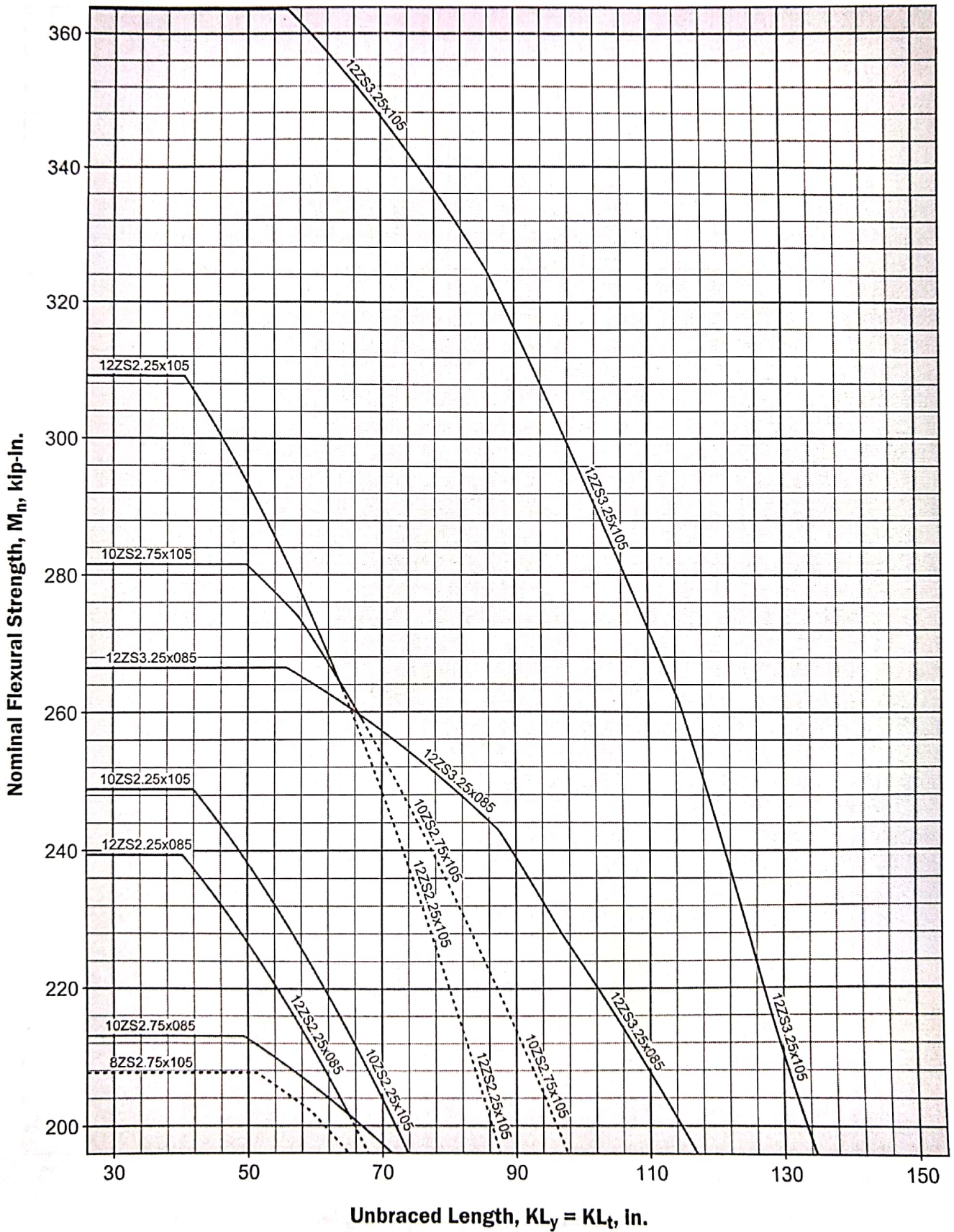
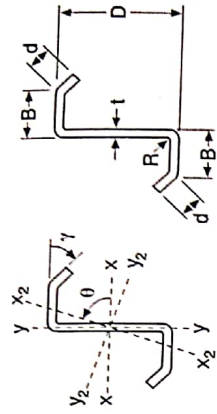


Table I - 4 (continued)

Gross Section Properties
Z-Sections With Lips



ID	Dimensions										Properties of Full Section										
	D	B	t	d	γ	R	Area	wt/ft	Axis x-x			Axis y-y			I_{xy}	I_{x2}	I_{y2}	r_{min}	θ	J	C_w
	in.	in.	in.	in.	deg	in.	in. ²	lb	I_x	S_x	r_x	I_y	S_y	r_y	in. ⁴	in. ⁴	in. ⁴	in.	deg	in. ⁴	in. ⁶
9ZS2.25x105	9.000	2.250	0.105	0.990	50	0.1875	1.57	5.33	18.1	4.02	3.39	1.96	0.692	1.12	4.22	0.920	19.1	0.766	76.2	0.00576	29.7
9ZS2.25x085	9.000	2.250	0.085	0.960	50	0.1875	1.27	4.32	14.7	3.27	3.40	1.57	0.557	1.11	3.41	0.739	15.5	0.763	76.3	0.00306	23.8
9ZS2.25x070	9.000	2.250	0.070	0.930	50	0.1875	1.05	3.56	12.2	2.70	3.41	1.28	0.457	1.11	2.80	0.605	12.8	0.761	76.4	0.00171	19.5
9ZS2.25x065	9.000	2.250	0.065	0.920	50	0.1875	0.971	3.30	11.3	2.51	3.41	1.19	0.424	1.11	2.60	0.561	11.9	0.760	76.4	0.00137	18.1
9ZS2.25x059	9.000	2.250	0.059	0.910	50	0.1875	0.881	3.00	10.3	2.28	3.41	1.08	0.384	1.11	2.36	0.508	10.8	0.759	76.4	0.00102	16.4
8ZS3.25x105	8.000	3.250	0.105	0.990	50	0.1875	1.67	5.69	16.9	4.23	3.18	4.67	1.22	1.67	6.66	1.75	19.8	1.02	66.3	0.00615	49.9
8ZS3.25x085	8.000	3.250	0.085	0.960	50	0.1875	1.36	4.61	13.8	3.44	3.19	3.75	0.982	1.66	5.38	1.41	16.1	1.02	66.5	0.00326	40.1
8ZS3.25x070	8.000	3.250	0.070	0.930	50	0.1875	1.12	3.79	11.4	2.85	3.19	3.07	0.806	1.66	4.43	1.15	13.3	1.02	66.6	0.00182	32.9
8ZS3.25x065	8.000	3.250	0.065	0.920	50	0.1875	1.04	3.52	10.6	2.65	3.20	2.85	0.747	1.66	4.11	1.07	12.4	1.02	66.6	0.00146	30.5
8ZS3.25x059	8.000	3.250	0.059	0.910	50	0.1875	0.940	3.20	9.62	2.41	3.20	2.58	0.677	1.66	3.73	0.970	11.2	1.02	66.7	0.00109	27.6
8ZS2.75x105	8.000	2.750	0.105	0.990	50	0.1875	1.57	5.33	15.3	3.82	3.12	3.13	0.938	1.41	5.09	1.28	17.1	0.902	70.0	0.00576	34.9
8ZS2.75x085	8.000	2.750	0.085	0.960	50	0.1875	1.27	4.32	12.4	3.11	3.13	2.51	0.755	1.41	4.11	1.03	13.9	0.899	70.2	0.00306	28.0
8ZS2.75x070	8.000	2.750	0.070	0.930	50	0.1875	1.05	3.56	10.3	2.57	3.14	2.05	0.620	1.40	3.38	0.841	11.5	0.897	70.3	0.00171	23.0
8ZS2.75x065	8.000	2.750	0.065	0.920	50	0.1875	0.971	3.30	9.56	2.39	3.14	1.90	0.575	1.40	3.14	0.780	10.7	0.896	70.3	0.00137	21.3
8ZS2.75x059	8.000	2.750	0.059	0.910	50	0.1875	0.881	3.00	8.69	2.17	3.14	1.72	0.521	1.40	2.85	0.706	9.71	0.895	70.4	0.00102	19.3
8ZS2.25x105	8.000	2.250	0.105	0.990	50	0.1875	1.46	4.98	13.6	3.41	3.05	1.96	0.692	1.16	3.73	0.872	14.7	0.772	73.7	0.00538	22.9
8ZS2.25x085	8.000	2.250	0.085	0.960	50	0.1875	1.19	4.03	11.1	2.77	3.06	1.57	0.557	1.15	3.01	0.700	12.0	0.769	73.9	0.00285	18.4
8ZS2.25x070	8.000	2.250	0.070	0.930	50	0.1875	0.976	3.32	9.18	2.30	3.07	1.28	0.457	1.15	2.47	0.573	9.89	0.767	74.0	0.00159	15.1
8ZS2.25x065	8.000	2.250	0.065	0.920	50	0.1875	0.906	3.08	8.54	2.13	3.07	1.19	0.424	1.15	2.30	0.532	9.20	0.766	74.0	0.00128	14.0
8ZS2.25x059	8.000	2.250	0.059	0.910	50	0.1875	0.822	2.80	7.76	1.94	3.07	1.08	0.384	1.14	2.08	0.481	8.36	0.765	74.0	0.000954	12.7
7ZS2.25x105	7.000	2.250	0.105	0.990	50	0.1875	1.36	4.62	9.92	2.83	2.70	1.96	0.692	1.20	3.23	0.815	11.1	0.774	70.5	0.00499	17.1
7ZS2.25x085	7.000	2.250	0.085	0.960	50	0.1875	1.10	3.74	8.09	2.31	2.71	1.57	0.557	1.20	2.61	0.655	9.01	0.772	70.6	0.00265	13.8
7ZS2.25x070	7.000	2.250	0.070	0.930	50	0.1875	0.906	3.08	6.70	1.91	2.72	1.28	0.457	1.19	2.15	0.536	7.45	0.769	70.8	0.00148	11.3
7ZS2.25x065	7.000	2.250	0.065	0.920	50	0.1875	0.841	2.86	6.23	1.78	2.72	1.19	0.424	1.19	1.99	0.497	6.92	0.769	70.8	0.00118	10.5
7ZS2.25x059	7.000	2.250	0.059	0.910	50	0.1875	0.763	2.60	5.67	1.62	2.72	1.08	0.384	1.19	1.81	0.450	6.29	0.768	70.9	0.000886	9.46