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Figure 8	Appendix C. Properties of Rolled-Steel Shapes (SI Units) Continued from page 705 W Shapes (Wide-Flange Shapes)											
Figure 8		and the		Flange		Web	Aris X-X			Axis Y-Y		
Beer and	Designation†	Area A, mm²	Depth d, mm	Width b ₁ , mm	Thick- ness t _p , mm	Thick- ness t _w , mm	<i>l,</i> 10º mm ⁴	S, 10 ³ mm ³	r, mm	10° mm4	S, 10 ³ mm ³	r, mm
Jonnston	W310 × 143	18200	323	309	22.9	14.0	347	2150	138.2	112.4	728	78.5
1992	107	13600	311	306	17.0	10.9	248	1595	134.9	81.2	531	77.2
	74	9480	310	205	16.3	9.4	164.0	1058	131.6	23.4	228	49.8
	60	7610	303	203	13.1	7.5	129.0	851	130.3	18.36	180.9	49.0
	52	6650	317	167	13.2	7.6	118.6	748	133.4	10.20	122.2	39.1
	44.5	5670	313	166	11.2	6.6	99.1	633	132.3	8.45	101.8	38.6
	38.7	, 4940	310	165	9.7	5.8	84.9	548	131.3	7.20	87.3	38.4
	32.7	4180	313	102	10.8	6.6	64.9	415	124.7	1.940	38.0	21.5
	23.8	3040	305	101	6.7	5.6	42.9	281	118.0	1.1/4	23.2	19.03
	W250 × 167	21200	289	265	31.8	19.2	298.0	2060	118.4	98.2	741	68.1
	101	12900	264	257	19.6	11.9	164.0	1242	112.8	55.8	434	65.8
	80	10200	256	255	15.6	9.4	126.1	985	111.0	42.8	336	65.0
	67	8580	257	204	15.7	8.9	103.2	803	110.0	22.2	218	51.1
	58	7420	252	203	13.5	8.0	87.0	690	108.5	18.73	184.5	50.3
	49.1	6260	247	202	11.0	7.4	70.8	5/3	106.4	15.23	150.8	49.3
	44.8	5700	266	148	13.0	7.6	10.8	532	100 5	0.90	93.9	22.8
	32.7	4190	258	140	9.1	0.1	49.1	209	105.0	1 706	35.9	00.0
	28.4	3630	260	102	10.0	0.4 5.9	987	208	100.3	1.790	23.6	20.6
	22.3	2830	204	102	0.9	0.0	20.1	220	100.5	1.200	20.0	20.0
	11/000 >< 98	11000	999	209	90.6	130	949	855	927	31.3	300	53.3













	(V	Shapes Vide-Flan	ge Shape	(U.S. Cu Continued es)	Rolled-Ste stomary U I from page	eel Shape nits) e 704)S			1 X-			
		a standard		Flar	nge		Series and		Sec. 1	MS STREET	No. 4		
		Ares	Depth	Thick-		Web Thick-	Axis X-X			Axis Y-Y			
	Designation†	A, In ²	d, in.	b _i , in.	t _r , in.	t _e , in.	<i>I_x</i> , in ⁴	S,, in ³	<i>r_s</i> , in.	I _s , in ^s	S_y , in ³	<i>r</i> _v , in.	
	W12 × 96	28.2	12.71	12.160	0.900	0.550	833	131	5.44	270	44.4	3.09	
150	72	21.1	12.25	12.040	0.670	0.430	597	97.4	5.31	195	32.4	3.04	
	50	14.7	12.19	8.080	0.640	0.370	394	64.7	5.18	56.3	13.9	1.96	
Figure 10	40	11.8	11.94	8.005	0.515	0.295	310	51.9	5.13	44.1	11.0	1.93	
I Iguie I o	35	10.3	12.50	6.560	0.520	0.300	285	45.6	5.25	24.5	7.47	1.54	
	30	8.79	12.34	6.520	0.440	0.260	238	38.6	5.21	20.3	6.24	1.52	
Beer and	26	7.65	12.22	6.490	0,380	0.230	204 ·	33.4	5.17	17.3	5.34	1.51	
Deel allu	22	6.48	12.31	4.030	0.425	0.260	156	25.4	4.91	4.66	2.31	0.848	
Johnston	16	4.71	11.99	3.990	0.265	0.220	103	17.1	4.67	2.82	1.41	0.773	
Joiniston	W10 × 112	32.9	11.36	10.415	1 250	0.755	716	196	4 66	036	45.3	9 68	
1002	68	20.0	10.40	10.130	0.770	0.470	394	75 7	4 44	134	96.4	2.50	
1992	54	15.8	10.09	10.030	0.615	0.370	303	60.0	4 37	103	20.4	2.56	
	45	13.3	10.00	8 020	0.620	0.350	0.48	40.1	4.07	53.4	12.0	2.00	
	10	11.5	0.00	7 095	0.520	0.300	200	40.1	4.00	45.0	11.2	1.09	
	33	0.71	0.73	7.960	0.435	0.900	170	42.1	4.10	36.6	0.90	1.00	
	30	8.84	10.47	5.810	0.430	0.200	170	30.0	4.19	167	5.20	1.04	
	00	6.40	10.17	5.010	0.360	0.000	110	02.4	4.00	11.4	2.07	1.07	
	10	5.69	10.11	4.020	0.300	0.240	110	20.2	4.27	11.4	0.14	0.974	
	15	4.41	9.99	4.000	0.270	0.230	68.9	13.8	3.95	2.89	1.45	0.810	
	W8 × 58	17.1	8.75	8.220	0.810	0.510	228	52.0	3.65	75.1	18.3	2.10	
	48	14.1	8.50	8.110	0.685	0.400	184	43.3	3.61	60.9	15.0	2.08	
	40	11.7	8.25	8.070	0.560	0.360	146	35.5	3.53	49.1	12.2	2.04	
	35	10.3	8.12	8.020	0.495	0.310	127	31.2	3.51	42.6	10.6	2.03	
	31	9.13	8.00	7.995	0.435	0.285	110	27.5	3.47	37.1	9.27	2.02	
	28	8.25	8.06	6.535	0.465	0.285	98.0	24.3	3.45	21.7	6.63	1.62	
	24	7.08	7.93	6.495	0.400	0.245	82.8	20.9	3 42	18.3	5.63	1.61	
	21	6.16	8.28	5.270	0.400	0.250	75.3	18.2	3.49	9.77	3.71	1.26	
	18	5.26	8.14	5 250	0.330	0.230	61.9	15.9	3.43	7 97	3.04	1.93	
	15	4.44	8.11	4.015	0.315	0.945	48.0	11.8	3.90	3.41	1.70	0.876	
	13	3.84	7.99	4.000	0.255	0.230	39.6	9.91	3.21	2.73	1.37	0.843	
				(The second sec	CONSTRUCTION OF A	a second s			The second second				















