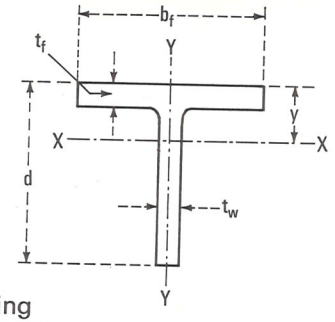
STRUCTURAL TEES (Cut from W Shapes)



Theoretical Dimensions and Properties for Designing

Section Number	Weight per Foot	Area of Section	Depth of Tee	Flange		Stem Thickness	$\frac{d}{t_w}$	Weight per Foot	Axis X-X				Axis Y-Y		
				Width	Thick-ness				I	S	r	y	I	S	r
	lb	A in.²	d in.	b_f in.	t_f in.	t_w in.		lb	in.⁴	in.³	in.	in.	in.⁴	in.³	in.
WT9 x	**42.5**	12.5	9.160	8.838	0.911	0.526	17.4	42.5	84.4	11.9	2.60	2.05	52.5	11.9	2.05
BT9A	**38.5**	11.4	9.080	8.787	0.831	0.475	19.1	38.5	75.3	10.6	2.58	1.99	47.1	10.7	2.04
	35	10.3	9.000	8.750	0.751	0.438	20.5	35	68.2	9.68	2.57	1.96	42.0	9.60	2.02
	32	9.43	8.935	8.715	0.686	0.403	22.2	32	61.9	8.83	2.56	1.92	37.9	8.70	2.00
WT9 x	**30**	8.83	9.125	7.558	0.695	0.416	21.9	30	64.9	9.32	2.71	2.16	25.1	6.63	1.68
BT9	**27.5**	8.10	9.060	7.532	0.630	0.390	23.2	27.5	59.6	8.64	2.71	2.16	22.5	5.97	1.67
	25	7.36	9.000	7.500	0.570	0.358	25.1	25	54.0	7.86	2.71	2.13	20.1	5.35	1.65
	22.5	6.62	8.930	7.477	0.499	0.335	26.7	22.5	49.0	7.24	2.72	2.16	17.4	4.66	1.62
WT9 x	**20.0**	5.88	8.950	6.018	0.524	0.316	28.3	20.0	44.9	6.75	2.76	2.29	9.54	3.17	1.27
BT9L	**17.5**	5.15	8.855	6.000	0.429	0.298	29.7	17.5	40.1	6.18	2.79	2.38	7.74	2.58	1.23
WT8 x	**48**	14.1	8.160	11.533	0.875	0.535	15.3	48	64.7	9.82	2.14	1.57	112	19.4	2.82
BT8B	**44**	12.9	8.080	11.502	0.795	0.504	16.0	44	59.5	9.11	2.14	1.55	101	17.5	2.79
WT8 x	**39**	11.5	8.160	8.586	0.875	0.529	15.4	39	60.0	9.45	2.28	1.81	46.3	10.8	2.01
BT8A	**35.5**	10.5	8.080	8.543	0.795	0.486	16.6	35.5	54.1	8.57	2.27	1.77	41.4	9.69	1.99
	32	9.41	8.000	8.500	0.715	0.443	18.1	32	48.3	7.72	2.27	1.73	36.7	8.63	1.97
	29	8.53	7.930	8.464	0.645	0.407	19.5	29	43.6	7.01	2.26	1.71	32.6	7.71	1.96
WT8 x	**25**	7.36	8.125	7.073	0.628	0.380	21.4	25	42.2	6.77	2.40	1.89	18.6	5.25	1.59
BT8	**22.5**	6.63	8.060	7.039	0.563	0.346	23.3	22.5	37.8	6.10	2.39	1.86	16.4	4.66	1.57
	20	5.89	8.000	7.000	0.503	0.307	26.1	20	33.2	5.38	2.37	1.82	14.4	4.11	1.56
	18	5.30	7.925	6.992	0.428	0.299	26.5	18	30.8	5.11	2.41	1.89	12.2	3.49	1.52
WT8 x	**15.5**	4.57	7.920	5.525	0.442	0.275	28.8	15.5	27.3	4.62	2.44	2.01	6.23	2.25	1.17
BT8L	**13**	3.84	7.825	5.500	0.345	0.250	31.3	13	23.3	4.07	2.47	2.08	4.80	1.74	1.12
WT7 x	**365**	107	11.220	17.889	4.910	3.069	3.66	365	740	95.6	2.63	3.47	2360	264	4.69
BT7G	**332.5**	97.8	10.835	17.646	4.522	2.826	3.83	332.5	623	82.2	2.52	3.25	2080	236	4.62
	302.5	89.0	10.470	17.418	4.157	2.598	4.03	302.5	525	70.8	2.43	3.05	1840	211	4.55
	275	80.9	10.130	17.206	3.818	2.386	4.25	275	444	61.1	2.34	2.86	1630	189	4.49
	250	73.5	9.815	17.008	3.501	2.188	4.49	250	377	52.8	2.26	2.68	1440	169	4.43
	227.5	66.9	9.525	16.828	3.213	2.008	4.74	227.5	322	45.9	2.19	2.51	1280	152	4.37

Properties shown in this table are for the full section with no reduction in stem length as specified in AISC Specification, Section 1.9.1, relating to width-thickness ratio of projecting elements under compression.