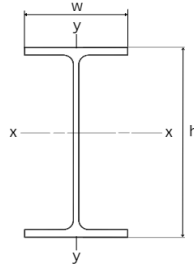


Wide Flange Beams



Section Group	Weight	Area	Depth	Web Thickness	Flange		Elastic Properties						Plastic Modulus	
					Width	Thickness	X - X			Y - Y			Z _x	Z _y
					bf	tf	I _x	S _x	r _x	I _y	S _y	r _y	cm ³	cm ³
lbs/ft	in ²	in	in	in	in	in ⁴	in ³	in	in ⁴	in ³	in	in ³	in ³	
kg/m	cm ²	mm	mm	mm	mm	cm ⁴	cm ³	cm	cm ⁴	cm ³	cm	cm ³	cm ³	
W6 x 6 W150 x 150	15	4.43	5.99	0.230	5.99	0.260	29.3	9.77	2.56	9.32	3.11	1.45	10.8	4.75
	22.5	28.58	152.1	5.8	152	6.6	1,219.6	160	6.5	387.9	51.0	3.7	177	78
	20	5.87	6.20	0.260	6.02	0.365	41.5	13.4	2.66	13.3	4.41	1.50	15.0	6.72
	29.8	37.87	157.5	6.6	153	9.3	1,727	220	6.8	553.6	72.3	3.8	246	110
W8 x 5½ W200 x 130	25	7.34	6.38	0.320	6.08	0.455	53.6	16.8	2.70	17.1	5.61	1.52	19.0	8.57
	37.1	47.35	162.1	8.1	154	11.6	2,231	275	6.9	711.8	91.9	3.9	311	140
	18	5.26	8.14	0.230	5.25	0.330	61.9	15.2	3.43	8.0	3.04	1.23	17.0	4.66
W8 x 6½ W200 x 171	26.6	33.94	206.8	5.8	133	8.4	2,576	249	8.7	333.0	49.8	3.1	279	76
	21	6.16	8.28	0.250	5.27	0.400	75.3	18.2	3.49	9.8	3.71	1.26	20.4	5.69
	31.3	39.74	210.3	6.4	134	10.2	3,134	298	8.9	407.9	60.8	3.2	334	93
W8 x 8 W203 x 203	24	7.08	7.93	0.245	6.50	0.40	82.7	20.9	3.42	18.3	5.63	1.61	23.1	8.57
	35.9	45.68	201.4	6.2	165	10.2	3,442	342	8.7	761.7	92.3	4.1	379	140
	28	8.25	8.06	0.285	6.54	0.465	98.0	24.3	3.45	21.7	6.63	1.62	27.2	10.10
W8 x 8 W203 x 203	41.7	53.23	204.7	7.2	166	11.8	4,079	398	8.8	903.2	109	4.11	446	166
	31	9.13	8.00	0.285	7.995	0.435	110	27.5	3.47	37.1	9.27	2.02	30.4	14.1
	46.1	58.90	203.2	7.2	203	11.0	4,579	451	8.8	1,544.2	151.9	5.1	498	231
	35	10.30	8.12	0.310	8.02	0.495	127	31.2	3.51	42.6	10.6	2.03	34.7	16.1
	52	66.45	206.2	7.9	204	12.6	5,286	511	8.9	1,773.1	173.7	5.2	569	264
	40	11.70	8.25	0.360	8.07	0.560	146	35.5	3.53	49.1	12.2	2.04	39.8	18.5
	59	75.48	209.6	9.1	205	14.2	6,077	582	9.0	2,043.7	199.9	5.2	652	303
	48	14.10	8.50	0.400	8.11	0.685	184	43.2	3.61	60.9	15.0	2.08	49.0	22.9
	71	90.97	215.9	10.2	206	17.4	7,659	708	9.2	2,534.8	245.8	5.3	803	375
W10 x 5.75 W254 x 146	58	17.10	8.75	0.510	8.22	0.81	228	52.0	3.65	75.1	18.3	2.10	59.8	27.9
	86	110.32	222.3	13.0	209	20.6	9,490	852	9.3	3,125.9	299.9	5.3	980	457
	67	19.70	9.00	0.570	8.28	0.935	272	60.4	3.72	88.6	21.4	2.12	70.1	32.70
	100	127.10	228.6	14.5	210	23.7	11,321	990	9.4	3,687.8	350.7	5.4	1149	536
	22	6.49	10.17	0.240	5.81	0.510	170	32.4	4.38	16.7	5.75	1.37	36.6	8.84
	32.7	41.87	258.3	6.1	148	13.0	7,076	531	11.1	695.1	94.2	3.5	600	145
W10 x 8 W254 x 203	26	7.61	10.33	0.260	5.77	0.44	144	27.9	4.35	14.1	4.89	1.36	31.3	7.50
	38.5	49.10	262.4	6.6	147	11.2	5,994	457	11.0	586.9	80.1	3.5	513	123
	30	8.84	10.47	0.300	5.75	0.36	118	23.2	4.27	11.4	3.97	1.33	26.0	6.10
	44.8	57.03	265.9	7.6	146	9.1	4,912	380	10.8	474.5	65.1	3.4	426	100
W10 x 10 W254 x 254	33	9.71	9.73	0.290	7.96	0.435	171	35.0	4.19	36.6	9.2	1.94	38.8	14.0
	49.1	62.65	247.1	7.4	202	11.0	7,118	574	10.6	1,523.4	150.8	4.9	636	229
	39	11.50	9.92	0.315	7.985	0.53	209	42.1	4.27	45.0	11.3	1.98	46.8	17.2
	58.0	74.19	252.0	8.0	203	13.5	8,699	690	10.8	1,873.0	185.2	5.0	767	282
	45	13.30	10.10	0.350	8.02	0.62	248	49.1	4.32	53.4	13.3	2.01	54.9	20.3
W10 x 10W 254 x 254	67	85.81	256.5	8.9	204	15.7	10,323	805	11.0	2,222.7	217.9	5.1	900	333
	49	14.40	9.98	0.340	10.00	0.56	272	54.6	4.35	93.4	18.7	2.54	60.4	28.3
	73	92.90	253.5	8.6	254	14.2	11,321	895	11.0	3,887.6	306.4	6.5	990	464
	54	15.80	10.09	0.370	10.03	0.615	303	60.0	4.37	103	20.6	2.56	66.6	31.3
	80	101.94	256.3	9.4	255	15.6	12,612	983	11.1	4,287.2	337.6	6.5	1091	513
	60	17.60	10.2	0.420	10.08	0.68	341	66.7	4.39	116	23.0	2.57	74.6	35.0
	89	113.55	259.6	10.7	256	17.3	14,193	1093	11.2	4,828.3	376.9	6.5	1222	574
	68	20.00	10.4	0.470	10.13	0.77	394	75.7	4.44	134	26.4	2.59	85.3	40.1
	101	129.03	264.2	11.9	257	19.6	16,400	1241	11.3	5,577.5	432.6	6.6	1398	657
W10 x 12 W254 x 305	77	22.60	10.6	0.530	10.19	0.87	455	85.9	4.49	154	30.1	2.60	97.6	45.9
	115	145.81	269.2	13.5	259	22.1	18,939	1408	11.4	6,410.0	493.3	6.6	1599	752
	88	25.90	10.8	0.605	10.265	0.99	534	98.5	4.54	179	34.8	2.63	113	53.1
	131	167.10	275.3	15.4	261	25.1	22,227	1614	11.5	7,450.5	570.3	6.7	1852	870
	100	29.40	11.1	0.680	10.34	1.12	623	112.0	4.60	207	40.0	2.65	130	61.0
W12 x 4 W310 x 100	149	189.68	281.9	17.3	263	28.4	25,931	1835	11.7	8,616.0	655.5	6.7	2130	1000
	112	32.90	11.36	0.755	10.415	1.25	716	126.00	4.66	236	45.30	2.68	147.0	69.20
	167	212.26	288.5	19.2	265	31.8	29,802	2065	11.8	9,823.1	742.3	6.8	2409	1134
	16	4.71	11.99	0.22	3.99	0.265	103	17.1	4.7	2.8	1.41	0.77	20.1	2.26
W12 x 6 W310 x 150	23.8	30.39	304.5	5.6	101	6.7	4,287	280	11.9	116.5	23.1	2.0	329	37
	19	5.57	12.2	0.235	4.005	0.35	130	21.3	4.82	3.7	1.88	0.82	24.7	2.98
	28.3	35.94	308.9	6.0	102	8.9	5,411	349	12.2	154.0	30.8	2.1	405	49
	22	6.48	12.31	0.260	4.03	0.425	156	24.5	4.91	4.7	2.31	0.85	29.3	3.66
32.7	41.81	312.7	6.6	102	10.8	6,493	401	12.5	195.6	37.9	2.2	480	60	