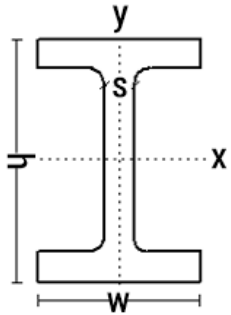


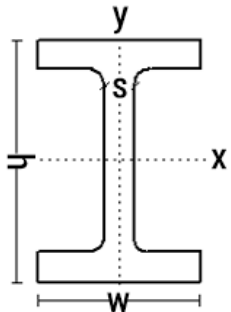


# AMERICAN WIDE FLANGE BEAMS - W BEAM (2)



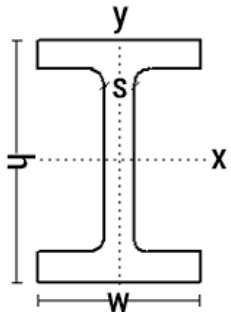
W18x119	19	11.27	0.655	35.1	119	2190	253	231	44.9
W18x106	18.7	11.2	0.590	31.1	106	1910	220	204	39.4
W18x97	15.6	11.15	0.535	28.5	97	1750	201	188	36.1
W18x86	18.4	11.09	0.480	25.3	86	1530	175	166	31.6
W18x76	18.2	11.04	0.425	22.3	76	1330	152	146	27.6
W18x71	18.5	7.64	0.495	20.8	71	1170	60.3	127	15.8
W18x65	18.4	7.59	0.450	19.1	65	1070	54.8	117	14.4
W18x60	18.2	7.56	0.415	17.6	60	984	50.1	108	13.3
W18x55	18.1	7.53	0.390	16.2	55	890	44.9	98.3	11.9
W18x50	18	7.5	0.355	14.7	50	800	40.1	88.9	10.7
W18x46	18.1	6.06	0.360	13.5	46	712	22.5	78.8	7.4
W18x40	17.9	6.02	0.315	11.8	40	612	19.1	68.4	6.4
W18x35	17.7	6	0.300	10.3	35	510	15.3	57.6	5.1

# AMERICAN WIDE FLANGE BEAMS - W BEAM (3)



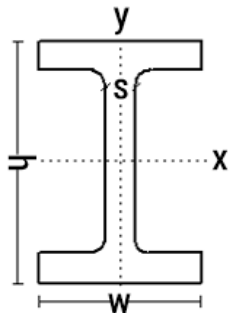
W14x132	14.66	14.725	0.645	38.8	132	1530	548	209	74.5
W14x120	14.48	14.670	0.590	35.3	120	1380	495	190	67.5
W14x109	14.32	14.605	0.525	32	109	1240	447	173	61.2
W14x99	14.16	14.565	0.485	29.1	99	1110	402	157	55.2
W14x90	14.02	14.520	0.440	26.5	90	999	362	143	49.9
W14x82	14.31	10.130	0.510	24.1	82	882	148	123	29.3
W14x74	14.17	10.070	0.450	21.8	74	796	134	112	26.6
W14x68	14.04	10.035	0.415	20.0	68	723	121	103	24.2
W14x61	13.89	9.995	0.375	17.9	61	640	107	92.2	21.5
W14x53	13.92	8.060	0.370	15.6	53	541	57.7	77.8	14.3
W14x48	13.79	8.030	0.340	14.1	48	485	51.4	70.3	12.8
W14x43	13.66	7.995	0.305	12.6	43	428	45.2	62.7	11.3
W14x38	14.10	6.770	0.310	11.2	38	385	26.7	54.6	7.9
W14x34	13.98	6.745	0.285	10.0	34	340	23.3	48.6	6.9
W14x30	13.84	6.730	0.270	8.85	30	291	19.6	42.0	5.8
W14x26	13.91	5.025	0.255	7.69	26	245	8.9	35.3	3.5
W14x22	13.74	5	0.230	6.49	22	199	7	29.0	2.8

# AMERICAN WIDE FLANGE BEAMS - W BEAM (4)



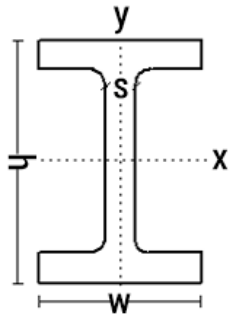
W Beam	Weight (lb/ft)	Depth (in)	Flange Width (in)	Flange Thickness (in)	Web Thickness (in)	Area (in <sup>2</sup> )	$I_x$ (in <sup>4</sup> )	$I_y$ (in <sup>4</sup> )	$S_x$ (in <sup>3</sup> )	$S_y$ (in <sup>3</sup> )
W 12 x 136	13.41	12.4	0.79	39.9	136	1240	398	186	64.2	
W 12 x 120	13.12	12.32	0.71	35.3	120	1070	345	163	56.0	
W 12 x 106	12.89	12.22	0.61	31.2	106	933	301	145	49.3	
W 12 x 96	12.71	12.16	0.55	28.2	96	833	270	131	44.4	
W 12 x 87	12.53	12.125	0.515	25.6	87	740	241	118	39.7	
W 12 x 79	12.38	12.08	0.47	23.2	79	662	216	107	35.8	
W 12 x 72	12.25	12.04	0.43	21.1	72	597	195	97.4	32.4	
W 12 x 65	12.12	12	0.39	19.1	65	533	174	87.9	29.1	
W 12 x 58	12.19	10.01	0.36	17.0	58	475	107	78	21.4	
W 12 x 53	12.06	9.995	0.345	15.6	53	425	95.8	70.6	19.2	
W 12 x 50	12.19	8.08	0.37	14.7	50	394	56.3	64.7	13.9	
W 12 x 45	12.06	8.045	0.335	13.2	45	350	50.0	58.1	12.4	
W 12 x 40	11.94	8.005	0.295	11.8	40	310	44.1	51.9	11.0	
W 12 x 35	12.50	6.56	0.3	10.3	35	285	24.5	45.6	7.5	
W 12 x 30	12.34	6.52	0.26	8.8	30	238	20.3	38.6	6.2	
W 12 x 26	12.22	6.490	0.23	7.7	26	204	17.3	33.4	5.3	
W 12 x 22	12.31	4.03	0.26	6.5	22	156	4.7	25.4	2.3	
W 12 x 19	12.16	4.005	0.235	5.6	19	130	3.8	21.3	1.9	
W 12 x 16	11.99	3.990	0.22	4.7	16	103	2.8	17.1	1.4	
W 12 x 14	11.91	3.970	0.2	4.2	14	88.6	2.4	14.9	1.2	

# AMERICAN WIDE FLANGE BEAMS - W BEAM (5)



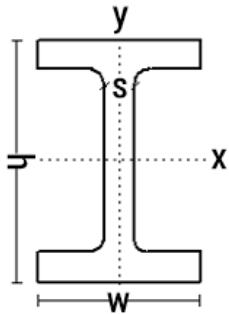
W10 x112	11.36	10.415	0.755	32.9	112	716	236	126	45.3
W10 x100	11.1	10.340	0.680	29.4	100	623	207	112	40.0
W10 x88	10.84	10.265	0.605	25.9	88	534	179	98.5	34.8
W10 x77	10.60	10.190	0.530	22.6	77	455	154	85.9	30.1
W10 x68	10.40	10.130	0.470	20.0	68	394	134	75.7	26.4
W10 x60	10.22	10.080	0.420	17.6	60	341	116	66.7	23.0
W10 x54	10.09	10.030	0.370	15.8	54	303	103	60.0	20.6
W10 x49	9.98	10	0.340	14.4	49	272	93.4	54.6	18.7
W10 x45	10.10	8.020	0.350	13.3	45	248	53.4	49.1	13.3
W10 x39	9.92	7.985	0.315	11.5	39	209	45.0	42.1	11.3
W10 x33	9.73	7.960	0.290	9.71	33	170	36.6	35.0	9.2
W10 x30	10.47	5.81	0.3	8.84	30	170	16.7	32.4	5.8
W10 x26	10.33	5.770	0.26	7.6	26	144	14.1	27.9	4.9
W10 x22	10.17	5.750	0.240	6.5	22	118	11.4	23.2	4
W10 x19	10.24	4.020	0.250	5.6	19	96.3	3	18.8	2.1
W10 x17	10.11	4.010	0.240	5	17	81.9	3.6	16.2	1.8
W10 x15	9.99	4	0.230	4.4	15	68.9	2.9	13.8	1.5
W10 x12	9.87	3.960	0.190	3.5	12	53.8	2.2	10.9	1.1

# AMERICAN WIDE FLANGE BEAMS - W BEAM (6)



W Beam Size	Weight (lb/ft)	Depth (D) (in)	Flange Width (W) (in)	Web Thickness (t) (in)	Flange Thickness (t <sub>f</sub> ) (in)	Section Modulus (S <sub>x</sub> ) (in <sup>3</sup> )	Section Modulus (S <sub>y</sub> ) (in <sup>3</sup> )	Radius of Gyration (r <sub>x</sub> ) (in)	Radius of Gyration (r <sub>y</sub> ) (in)
W10 x112	11.36	10.415	0.755	32.9	112	716	236	126	45.3
W10 x100	11.1	10.340	0.680	29.4	100	623	207	112	40.0
W10 x88	10.84	10.265	0.605	25.9	88	534	179	98.5	34.8
W10 x77	10.60	10.190	0.530	22.6	77	455	154	85.9	30.1
W10 x68	10.40	10.130	0.470	20.0	68	394	134	75.7	26.4
W10 x60	10.22	10.080	0.420	17.6	60	341	116	66.7	23.0
W10 x54	10.09	10.030	0.370	15.8	54	303	103	60.0	20.6
W10 x49	9.98	10	0.340	14.4	49	272	93.4	54.6	18.7
W10 x45	10.10	8.020	0.350	13.3	45	248	53.4	49.1	13.3
W10 x39	9.92	7.985	0.315	11.5	39	209	45.0	42.1	11.3
W10 x33	9.73	7.960	0.290	9.71	33	170	36.6	35.0	9.2
W10 x30	10.47	5.81	0.3	8.84	30	170	16.7	32.4	5.8
W10 x26	10.33	5.770	0.26	7.6	26	144	14.1	27.9	4.9
W10 x22	10.17	5.750	0.240	6.5	22	118	11.4	23.2	4
W10 x19	10.24	4.020	0.250	5.6	19	96.3	3	18.8	2.1
W10 x17	10.11	4.010	0.240	5	17	81.9	3.6	16.2	1.8
W10 x15	9.99	4	0.230	4.4	15	68.9	2.9	13.8	1.5
W10 x12	9.87	3.960	0.190	3.5	12	53.8	2.2	10.9	1.1

# AMERICAN WIDE FLANGE BEAMS - W BEAM (7)



W 6x25	6.38	6.080	0.320	7.3	25	53.4	17.1	16.7	5.6
W 6x20	6.20	6.020	0.260	5.9	20	41.4	13.3	13.4	4.4
W 6x16	6.28	4.030	0.260	4.7	16	32.1	4.4	10.2	2.2
W 6x15	5.99	5.990	0.230	4.4	15	29.1	9.3	9.7	3.1
W 6x12	6.03	4	0.230	3.6	12	22.1	3	7.3	1.5
W 6x9	5.90	3.940	0.170	2.7	9	16.4	2.2	5.6	1.1
W 4x13	4.16	4.060	0.280	3.8	13	11.3	3.9	5.5	1.9