

W-shape (wide flange) beam chart

Every W-shape in the AISC Shapes Database v16.0, W4 to W44, with weight per foot, dimensions and properties.

Section	h (mm)	b (mm)	tw (mm)	tf (mm)	kg/m	lb/ft	A (cm ²)	Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)
W6x8.5	148	100	4.32	4.95	13.00	8.50	16.30	620	82.80	83.60
W6x9	150	100	4.32	5.46	13.50	9.00	17.30	683	91.60	91.10
W8x10	200	100	4.32	5.21	15.00	10.00	19.10	1,280	87.00	128
W10x12	251	101	4.83	5.33	17.90	12.00	22.80	2,240	90.70	179
W6x12	153	102	5.84	7.11	18.00	12.00	22.90	920	124	120
W8x13	203	102	5.84	6.48	19.30	13.00	24.80	1,650	114	162
W4x13	106	103	7.11	8.76	19.30	13.00	24.70	470	161	89.50
W12x14	302	101	5.08	5.72	21.00	14.00	26.80	3,690	98.20	244
W10x15	254	102	5.84	6.86	22.30	15.00	28.50	2,870	120	226
W8x15	206	102	6.22	8	22.50	15.00	28.60	2,000	142	193
W6x15	152	152	5.84	6.6	22.50	15.00	28.60	1,210	388	159
W12x16	305	101	5.59	6.73	23.80	16.00	30.40	4,290	117	280
W5x16	127	127	6.1	9.14	23.80	16.00	30.40	891	313	140
W6x16	160	102	6.6	10.3	24.00	16.00	30.60	1,340	184	167
W10x17	257	102	6.1	8.38	25.30	17.00	32.20	3,410	148	265
W8x18	207	133	5.84	8.38	26.60	18.00	33.90	2,580	332	249
W5x19	131	128	6.86	10.9	28.10	19.00	35.90	1,090	380	167
W12x19	310	102	5.97	8.89	28.30	19.00	35.90	5,410	157	349
W10x19	259	102	6.35	10	28.40	19.00	36.30	4,010	179	308
W6x20	157	153	6.6	9.27	29.80	20.00	37.90	1,720	554	220
W8x21	210	134	6.35	10.2	31.30	21.00	39.70	3,130	407	298
W12x22	312	102	6.6	10.8	32.70	22.00	41.80	6,490	194	416
W10x22	259	146	6.1	9.14	32.70	22.00	41.90	4,910	475	380
W14x22	348	127	5.84	8.51	32.90	22.00	41.90	8,280	291	475
W8x24	201	165	6.22	10.2	35.90	24.00	45.70	3,440	762	342
W6x25	162	154	8.13	11.6	37.10	25.00	47.40	2,220	712	274
W10x26	262	147	6.6	11.2	38.50	26.00	49.10	5,990	587	457
W12x26	310	165	5.84	9.65	38.70	26.00	49.40	8,490	720	547
W16x26	399	140	6.35	8.76	38.80	26.00	49.50	12,500	399	629
W14x26	353	128	6.48	10.7	39.00	26.00	49.60	10,200	371	578
W8x28	205	166	7.24	11.8	41.70	28.00	53.20	4,080	903	398
W14x30	351	171	6.86	9.78	44.00	30.00	57.10	12,100	816	688

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W12x30	312	166	6.6	11.2	44.50	30.00	56.70	9,910	845	633
W10x30	267	148	7.62	13	44.80	30.00	57.00	7,080	695	531
W16x31	404	140	6.99	11.2	46.10	31.00	58.90	15,600	516	773
W8x31	203	203	7.24	11	46.10	31.00	58.90	4,580	1,540	451
W10x33	247	202	7.37	11	49.10	33.00	62.60	7,120	1,520	574
W14x34	356	171	7.24	11.6	51.00	34.00	64.50	14,200	970	796
W18x35	450	152	7.62	10.8	52.00	35.00	66.50	21,200	637	944
W12x35	318	167	7.62	13.2	52.00	35.00	66.50	11,900	1,020	747
W8x35	206	204	7.87	12.6	52.00	35.00	66.50	5,290	1,770	511
W16x36	404	178	7.49	10.9	53.00	36.00	68.40	18,600	1,020	926
W14x38	358	172	7.87	13.1	57.80	38.00	72.30	16,000	1,110	895
W10x39	252	203	8	13.5	58.00	39.00	74.20	8,700	1,870	690
W8x40	210	205	9.14	14.2	59.00	40.00	75.50	6,080	2,040	582
W18x40	455	153	8	13.3	60.00	40.00	76.10	25,500	795	1,120
W16x40	406	178	7.75	12.8	60.00	40.00	76.10	21,600	1,200	1,060
W12x40	302	203	7.49	13.1	60.00	40.00	75.50	12,800	1,840	844
W14x43	348	203	7.75	13.5	64.00	43.00	81.30	17,800	1,880	1,030
W21x44	526	165	8.89	11.4	66.00	44.00	83.90	35,100	862	1,340
W16x45	409	179	8.76	14.4	67.00	45.00	85.80	24,400	1,370	1,190
W12x45	307	204	8.51	14.6	67.00	45.00	84.50	14,500	2,080	946
W10x45	257	204	8.89	15.7	67.00	45.00	85.80	10,300	2,220	805
W18x46	460	154	9.14	15.4	68.00	46.00	87.10	29,600	937	1,290
W8x48	216	206	10.2	17.4	71.00	48.00	91.00	7,660	2,530	708
W21x48	523	207	8.89	10.9	72.00	48.00	91.00	39,900	1,610	1,520
W14x48	351	204	8.64	15.1	72.00	48.00	91.00	20,100	2,140	1,150
W10x49	254	254	8.64	14.2	73.00	49.00	92.90	11,300	3,890	895
W21x50	528	166	9.65	13.6	74.00	50.00	94.80	41,000	1,040	1,550
W18x50	457	191	9.02	14.5	74.00	50.00	94.80	33,300	1,670	1,460
W12x50	310	205	9.4	16.3	74.00	50.00	94.20	16,300	2,340	1,050
W16x50	414	180	9.65	16	75.00	50.00	94.80	27,400	1,550	1,330
W14x53	353	205	9.4	16.8	79.00	53.00	101.00	22,500	2,400	1,270
W12x53	307	254	8.76	14.6	79.00	53.00	101.00	17,700	3,990	1,160
W10x54	257	254	9.4	15.6	80.00	54.00	102.00	12,600	4,290	983
W24x55	599	178	10	12.8	82.00	55.00	105.00	56,200	1,210	1,870
W21x55	528	209	9.53	13.3	82.00	55.00	105.00	47,500	2,010	1,800

Section	h (mm)	b (mm)	tw (mm)	tf (mm)	kg/m	lb/ft	A (cm ²)	Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)
W18x55	460	191	9.91	16	82.00	55.00	105.00	37,000	1,870	1,610
W21x57	536	167	10.3	16.5	85.00	57.00	108.00	48,700	1,270	1,820
W16x57	417	181	10.9	18.2	85.00	57.00	108.00	31,600	1,790	1,510
W12x58	310	254	9.14	16.3	86.00	58.00	110.00	19,800	4,450	1,280
W8x58	222	209	13	20.6	86.00	58.00	110.00	9,490	3,130	852
W18x60	462	192	10.5	17.7	89.00	60.00	114.00	41,000	2,090	1,770
W10x60	259	257	10.7	17.3	89.00	60.00	114.00	14,200	4,830	1,090
W14x61	353	254	9.53	16.4	91.00	61.00	115.00	26,600	4,450	1,510
W24x62	602	179	10.9	15	92.00	62.00	117.00	64,500	1,440	2,150
W21x62	533	209	10.2	15.6	92.00	62.00	118.00	55,400	2,390	2,080
W18x65	467	193	11.4	19.1	97.00	65.00	123.00	44,500	2,280	1,920
W12x65	307	305	9.91	15.4	97.00	65.00	123.00	22,200	7,240	1,440
W16x67	414	259	10	16.9	100.00	67.00	126.00	39,700	4,950	1,920
W8x67	229	210	14.5	23.7	100.00	67.00	127.00	11,300	3,690	990
W24x68	602	228	10.5	14.9	101.00	68.00	130.00	76,200	2,930	2,520
W21x68	536	210	10.9	17.4	101.00	68.00	129.00	61,600	2,690	2,290
W14x68	356	254	10.5	18.3	101.00	68.00	129.00	30,100	5,040	1,690
W10x68	264	257	11.9	19.6	101.00	68.00	128.00	16,400	5,580	1,240
W18x71	470	194	12.6	20.6	106.00	71.00	135.00	48,700	2,510	2,080
W12x72	312	305	10.9	17	107.00	72.00	136.00	24,800	8,120	1,600
W21x73	538	211	11.6	18.8	109.00	73.00	139.00	66,600	2,940	2,470
W14x74	361	257	11.4	19.9	110.00	74.00	141.00	33,100	5,580	1,840
W24x76	607	228	11.2	17.3	113.00	76.00	145.00	87,400	3,430	2,880
W18x76	462	279	10.8	17.3	113.00	76.00	144.00	55,400	6,330	2,390
W16x77	419	262	11.6	19.3	114.00	77.00	146.00	46,200	5,740	2,200
W10x77	269	259	13.5	22.1	115.00	77.00	146.00	18,900	6,410	1,410
W12x79	315	307	11.9	18.7	117.00	79.00	150.00	27,600	8,990	1,750
W14x82	363	257	13	21.7	122.00	82.00	155.00	36,700	6,160	2,020
W21x83	544	212	13.1	21.2	123.00	83.00	157.00	76,200	3,390	2,800
W27x84	678	254	11.7	16.3	125.00	84.00	159.00	119,000	4,410	3,490
W24x84	612	229	11.9	19.6	125.00	84.00	159.00	98,600	3,930	3,210
W18x86	467	282	12.2	19.6	128.00	86.00	163.00	63,700	7,280	2,720
W12x87	318	307	13.1	20.6	129.00	87.00	165.00	30,800	10,000	1,930
W10x88	274	262	15.4	25.1	131.00	88.00	168.00	22,200	7,450	1,610
W16x89	427	264	13.3	22.2	132.00	89.00	169.00	54,100	6,780	2,540

Section	h (mm)	b (mm)	tw (mm)	tf (mm)	kg/m	lb/ft	A (cm ²)	Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)
W30x90	749	264	11.9	15.5	134.00	90.00	170.00	150,000	4,790	4,010
W14x90	356	368	11.2	18	134.00	90.00	171.00	41,600	15,100	2,340
W21x93	549	214	14.7	23.6	138.00	93.00	176.00	86,200	3,870	3,150
W27x94	683	254	12.4	18.9	140.00	94.00	178.00	136,000	5,160	3,980
W24x94	617	230	13.1	22.2	140.00	94.00	179.00	112,000	4,540	3,640
W12x96	323	310	14	22.9	143.00	96.00	182.00	34,700	11,200	2,150
W18x97	472	282	13.6	22.1	144.00	97.00	184.00	72,800	8,370	3,080
W30x99	754	267	13.2	17	147.00	99.00	187.00	166,000	5,330	4,410
W14x99	361	371	12.3	19.8	147.00	99.00	188.00	46,200	16,700	2,570
W16x100	432	264	14.9	25	149.00	100.00	190.00	62,000	7,740	2,870
W10x100	282	262	17.3	28.4	149.00	100.00	189.00	25,900	8,620	1,840
W21x101	544	312	12.7	20.3	150.00	101.00	192.00	101,000	10,300	3,720
W27x102	688	254	13.1	21.1	152.00	102.00	194.00	151,000	5,790	4,380
W24x103	622	229	14	24.9	153.00	103.00	195.00	125,000	4,950	4,010
W24x104	612	325	12.7	19.1	155.00	104.00	198.00	129,000	10,800	4,230
W18x106	475	284	15	23.9	158.00	106.00	201.00	79,500	9,160	3,340
W12x106	328	310	15.5	25.1	158.00	106.00	201.00	38,800	12,500	2,380
W30x108	757	267	13.8	19.3	161.00	108.00	205.00	186,000	6,080	4,900
W14x109	363	371	13.3	21.8	162.00	109.00	206.00	51,600	18,600	2,830
W21x111	546	312	14	22.2	165.00	111.00	210.00	111,000	11,400	4,080
W10x112	290	264	19.2	31.8	167.00	112.00	212.00	29,800	9,820	2,060
W27x114	693	257	14.5	23.6	170.00	114.00	217.00	170,000	6,620	4,900
W30x116	762	267	14.4	21.6	173.00	116.00	221.00	205,000	6,830	5,390
W24x117	617	325	14	21.6	174.00	117.00	222.00	147,000	12,400	4,770
W33x118	836	292	14	18.8	176.00	118.00	224.00	246,000	7,780	5,880
W18x119	483	287	16.6	26.9	177.00	119.00	226.00	91,200	10,500	3,790
W14x120	368	373	15	23.9	179.00	120.00	228.00	57,400	20,600	3,110
W12x120	333	312	18	28.2	179.00	120.00	227.00	44,500	14,400	2,670
W21x122	551	315	15.2	24.4	182.00	122.00	232.00	123,000	12,700	4,470
W30x124	767	267	14.9	23.6	185.00	124.00	235.00	223,000	7,530	5,820
W27x129	701	254	15.5	27.9	192.00	129.00	244.00	198,000	7,660	5,650
W33x130	841	292	14.7	21.7	193.00	130.00	247.00	279,000	9,070	6,650
W18x130	490	284	17	30.5	193.00	130.00	247.00	102,000	11,600	4,200
W24x131	622	328	15.4	24.4	195.00	131.00	249.00	167,000	14,200	5,390
W30x132	770	267	15.6	25.4	196.00	132.00	250.00	240,000	8,160	6,230

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W21x132	554	315	16.5	26.4	196.00	132.00	250.00	134,000	13,900	4,830
W14x132	373	373	16.4	26.2	196.00	132.00	250.00	63,700	22,800	3,420
W36x135	904	305	15.2	20.1	201.00	135.00	257.00	325,000	9,370	7,190
W12x136	340	315	20.1	31.8	202.00	136.00	257.00	51,600	16,600	3,050
W33x141	846	292	15.4	24.4	210.00	141.00	268.00	310,000	10,200	7,340
W18x143	495	284	18.5	33.5	213.00	143.00	271.00	114,000	12,900	4,620
W14x145	376	394	17.3	27.7	216.00	145.00	275.00	71,200	28,200	3,800
W27x146	696	356	15.4	24.8	217.00	146.00	279.00	236,000	18,400	6,780
W24x146	627	328	16.5	27.7	217.00	146.00	277.00	191,000	16,300	6,080
W21x147	561	318	18.3	29.2	219.00	147.00	279.00	151,000	15,700	5,390
W30x148	780	267	16.5	30	220.00	148.00	281.00	278,000	9,450	7,140
W40x149	970	300	16	21.1	222.00	149.00	283.00	408,000	9,530	8,410
W36x150	912	305	15.9	23.9	223.00	150.00	286.00	376,000	11,200	8,260
W33x152	851	295	16.1	26.9	226.00	152.00	290.00	340,000	11,400	7,980
W12x152	348	318	22.1	35.6	226.00	152.00	288.00	59,500	18,900	3,420
W18x158	500	287	20.6	36.6	235.00	158.00	299.00	127,000	14,400	5,080
W14x159	381	396	18.9	30.2	237.00	159.00	301.00	79,100	31,100	4,160
W36x160	914	305	16.5	25.9	238.00	160.00	303.00	406,000	12,300	8,880
W27x161	701	356	16.8	27.4	240.00	161.00	307.00	263,000	20,700	7,510
W24x162	635	330	17.9	31	241.00	162.00	308.00	215,000	18,400	6,780
W21x166	572	315	19.1	34.5	248.00	166.00	315.00	178,000	18,100	6,230
W40x167	980	300	16.5	26.2	249.00	167.00	318.00	483,000	11,800	9,830
W33x169	859	292	17	31	251.00	169.00	319.00	387,000	12,900	9,000
W36x170	919	305	17.3	27.9	253.00	170.00	323.00	437,000	13,300	9,520
W12x170	356	320	24.4	39.6	253.00	170.00	323.00	68,700	21,500	3,850
W30x173	772	381	16.6	27.2	257.00	173.00	328.00	343,000	24,900	8,870
W18x175	508	290	22.6	40.4	260.00	175.00	332.00	144,000	16,300	5,640
W24x176	640	328	19.1	34	262.00	176.00	334.00	236,000	19,900	7,370
W14x176	386	399	21.1	33.3	262.00	176.00	334.00	89,100	34,900	4,600
W27x178	706	358	18.4	30.2	265.00	178.00	339.00	292,000	23,100	8,280
W36x182	922	307	18.4	30	271.00	182.00	346.00	470,000	14,400	10,200
W40x183	991	300	16.5	30.5	272.00	183.00	344.00	549,000	13,800	11,100
W21x182	577	318	21.1	37.6	272.00	182.00	346.00	197,000	20,100	6,830
W12x190	366	323	26.9	44.2	283.00	190.00	361.00	78,700	24,500	4,310
W30x191	780	381	18	30.2	284.00	191.00	362.00	383,000	28,000	9,830

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W24x192	648	330	20.6	37.1	285.00	192.00	365.00	261,000	22,100	8,050
W18x192	518	292	24.4	44.5	286.00	192.00	363.00	161,000	18,300	6,230
W14x193	394	399	22.6	36.6	287.00	193.00	366.00	99,900	38,800	5,080
W36x194	927	307	19.4	32	289.00	194.00	368.00	504,000	15,600	10,900
W27x194	714	356	19.1	34	289.00	194.00	368.00	327,000	25,800	9,160
W40x199	983	401	16.5	27.2	296.00	199.00	379.00	620,000	28,900	12,600
W33x201	856	399	18.2	29.2	299.00	201.00	381.00	483,000	31,200	11,200
W21x201	584	320	23.1	41.4	300.00	201.00	383.00	221,000	22,600	7,550
W24x207	653	330	22.1	39.9	307.00	207.00	392.00	284,000	24,100	8,700
W36x210	932	310	21.1	34.5	313.00	210.00	399.00	549,000	17,100	11,800
W12x210	373	325	30	48.3	313.00	210.00	399.00	89,100	27,600	4,790
W40x211	1000	300	19.1	36.1	314.00	211.00	401.00	645,000	16,200	12,900
W30x211	785	384	19.7	33.5	314.00	211.00	402.00	429,000	31,500	10,900
W14x211	399	401	24.9	39.6	314.00	211.00	400.00	111,000	42,900	5,540
W18x211	526	295	26.9	48.5	315.00	211.00	402.00	180,000	20,500	6,870
W40x215	991	401	16.5	31	321.00	215.00	410.00	695,000	33,400	14,100
W27x217	721	358	21.1	38.1	323.00	217.00	412.00	371,000	29,300	10,300
W33x221	861	401	19.7	32.5	329.00	221.00	421.00	537,000	35,000	12,400
W21x223	594	323	25.4	45.5	332.00	223.00	429.00	253,000	25,600	8,520
W24x229	660	333	24.4	43.9	341.00	229.00	434.00	318,000	27,100	9,640
W12x230	384	328	32.8	52.6	342.00	230.00	437.00	101,000	30,900	5,260
W44x230	1090	401	18	31	343.00	230.00	437.00	866,000	33,100	15,900
W36x231	927	419	19.3	32	344.00	231.00	440.00	649,000	39,100	14,000
W36x232	943	307	22.1	39.9	345.00	232.00	439.00	624,000	19,500	13,300
W14x233	406	404	27.2	43.7	347.00	233.00	442.00	125,000	47,900	6,150
W18x234	536	297	29.5	53.6	349.00	234.00	443.00	204,000	23,200	7,640
W40x235	1010	302	21.1	40.1	350.00	235.00	446.00	724,000	18,500	14,300
W30x235	795	384	21.1	38.1	350.00	235.00	447.00	487,000	35,600	12,300
W27x235	729	361	23.1	40.9	350.00	235.00	448.00	404,000	32,000	11,100
W33x241	869	404	21.1	35.6	359.00	241.00	459.00	591,000	38,800	13,600
W36x247	932	419	20.3	34.3	368.00	247.00	468.00	695,000	42,000	15,000
W21x248	602	325	27.9	50.5	369.00	248.00	476.00	284,000	29,100	9,440
W40x249	1000	401	19.1	36.1	371.00	249.00	474.00	816,000	38,500	16,300
W24x250	668	335	26.4	48	372.00	250.00	474.00	353,000	30,100	10,600
W12x252	391	330	35.6	57.2	375.00	252.00	478.00	113,000	34,500	5,780

Section	h (mm)	b (mm)	tw (mm)	tf (mm)	kg/m	lb/ft	A (cm ²)	Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)
W36x256	951	310	24.4	43.9	381.00	256.00	486.00	699,000	22,000	14,700
W14x257	417	406	30	48	382.00	257.00	488.00	142,000	53,700	6,800
W27x258	737	363	24.9	45	384.00	258.00	491.00	450,000	35,800	12,200
W18x258	546	300	32.5	58.4	384.00	258.00	490.00	229,000	26,100	8,420
W30x261	803	386	23.6	41.9	389.00	261.00	497.00	545,000	39,900	13,600
W44x262	1100	401	19.9	36.1	390.00	262.00	498.00	1,000,000	38,400	18,200
W36x262	937	422	21.3	36.6	390.00	262.00	498.00	745,000	45,400	15,900
W33x263	876	401	22.1	39.9	392.00	263.00	499.00	662,000	43,300	15,100
W40x264	1020	302	24.4	43.9	393.00	264.00	499.00	807,000	20,500	15,900
W21x275	612	328	31	55.6	409.00	275.00	528.00	320,000	32,800	10,500
W40x277	1010	401	21.1	40.1	412.00	277.00	526.00	912,000	43,300	18,000
W40x278	1020	305	26.2	46	415.00	278.00	531.00	853,000	21,700	16,700
W24x279	678	338	29.5	53.1	415.00	279.00	528.00	400,000	34,300	11,800
W12x279	404	333	38.9	62.7	415.00	279.00	528.00	129,000	39,000	6,440
W27x281	744	366	26.9	49	419.00	281.00	536.00	495,000	39,700	13,300
W36x282	942	422	22.5	39.9	420.00	282.00	535.00	816,000	49,900	17,200
W18x283	556	302	35.6	63.5	421.00	283.00	537.00	257,000	29,300	9,260
W14x283	424	409	32.8	52.6	421.00	283.00	537.00	160,000	59,900	7,520
W36x286	960	312	26.9	49	425.00	286.00	541.00	787,000	25,100	16,400
W44x290	1110	401	22	40.1	433.00	290.00	551.00	1,120,000	43,300	20,300
W33x291	884	404	24.4	43.9	433.00	291.00	552.00	737,000	48,300	16,700
W30x292	813	389	25.9	47	434.00	292.00	555.00	620,000	45,800	15,200
W40x294	1030	305	26.9	49	438.00	294.00	556.00	912,000	23,400	17,700
W40x297	1010	401	23.6	41.9	443.00	297.00	563.00	966,000	45,400	19,200
W36x302	947	424	24	42.7	449.00	302.00	574.00	878,000	54,100	18,500
W12x305	414	335	41.4	68.8	454.00	305.00	577.00	148,000	43,700	7,130
W24x306	688	340	32	57.9	455.00	306.00	579.00	445,000	38,300	12,900
W27x307	752	366	29.5	53.1	457.00	307.00	582.00	545,000	43,700	14,500
W14x311	434	411	35.8	57.4	463.00	311.00	590.00	180,000	67,000	8,290
W18x311	566	305	38.6	69.6	464.00	311.00	591.00	290,000	33,100	10,200
W33x318	894	406	26.4	48	473.00	318.00	605.00	812,000	53,700	18,200
W36x318	970	315	30	54.1	474.00	318.00	603.00	882,000	28,400	18,200
W40x324	1020	404	25.4	46	483.00	324.00	615.00	1,070,000	50,800	21,000
W30x326	823	391	29	52.1	484.00	326.00	619.00	699,000	51,600	17,000
W40x327	1040	307	30	54.1	486.00	327.00	619.00	1,020,000	26,600	19,700

Section	h (mm)	b (mm)	tw (mm)	tf (mm)	kg/m	lb/ft	A (cm ²)	Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)
W36x330	958	422	25.9	47	491.00	330.00	625.00	970,000	59,100	20,300
W40x331	1040	310	31	54.1	494.00	331.00	630.00	1,030,000	26,800	19,800
W24x335	699	343	35.1	63	498.00	335.00	634.00	495,000	42,900	14,200
W44x335	1120	404	26.2	45	499.00	335.00	635.00	1,290,000	49,900	23,100
W27x336	762	371	32	57.9	500.00	336.00	640.00	608,000	49,100	15,900
W12x336	427	340	45.2	75.2	500.00	336.00	638.00	169,000	49,500	7,910
W14x342	445	417	39.1	62.7	509.00	342.00	652.00	204,000	75,300	9,140
W36x350	980	320	33	58.9	521.00	350.00	665.00	982,000	32,500	20,000
W33x354	904	409	29.5	53.1	527.00	354.00	671.00	916,000	60,800	20,300
W30x357	833	394	31.5	56.9	531.00	357.00	677.00	778,000	57,900	18,700
W36x361	965	424	28.4	51.1	537.00	361.00	684.00	1,070,000	65,300	22,100
W40x362	1030	406	28.4	51.1	539.00	362.00	684.00	1,200,000	57,400	23,300
W44x368	1130	406	27.9	50	548.00	368.00	697.00	1,440,000	56,200	25,600
W27x368	772	373	35.1	63	548.00	368.00	703.00	674,000	54,500	17,400
W24x370	711	348	38.6	69.1	551.00	370.00	703.00	558,000	48,300	15,700
W14x370	455	419	42.2	67.6	551.00	370.00	703.00	226,000	82,800	9,950
W40x372	1030	409	29.5	52.1	554.00	372.00	710.00	1,230,000	59,100	23,900
W36x387	993	323	36.1	65	576.00	387.00	735.00	1,100,000	36,700	22,300
W33x387	914	411	32	57.9	576.00	387.00	735.00	1,010,000	67,400	22,100
W30x391	843	396	34.5	62	582.00	391.00	742.00	862,000	64,500	20,500
W40x392	1060	315	36.1	64	584.00	392.00	748.00	1,240,000	33,400	23,600
W36x395	975	427	31	55.9	588.00	395.00	748.00	1,190,000	72,800	24,400
W40x397	1040	409	31	55.9	591.00	397.00	755.00	1,330,000	64,100	25,600
W14x398	465	422	45	72.4	592.00	398.00	755.00	250,000	90,300	10,700
W44x408	1140	409	31	55.1	607.00	408.00	774.00	1,610,000	63,300	28,300
W14x426	475	424	47.8	77.2	634.00	426.00	806.00	275,000	98,200	11,600
W40x431	1050	411	34	59.9	642.00	431.00	819.00	1,450,000	70,300	27,700
W36x441	988	432	34.5	62	656.00	441.00	839.00	1,340,000	82,800	27,000
W14x455	483	427	51.3	81.5	677.00	455.00	865.00	299,000	107,000	12,400
W36x487	998	434	38.1	68.1	725.00	487.00	923.00	1,500,000	93,700	30,000
W14x500	498	432	55.6	88.9	744.00	500.00	948.00	342,000	120,000	13,700
W40x503	1070	417	39.1	70.1	748.00	503.00	955.00	1,730,000	84,900	32,400
W36x529	1010	437	40.9	73.9	787.00	529.00	1,010.00	1,650,000	104,000	32,600
W27x539	826	389	50	89.9	802.00	539.00	1,030.00	1,070,000	87,800	25,700
W14x550	513	437	60.5	97	818.00	550.00	1,050.00	393,000	135,000	15,300

Section	h (mm)	b (mm)	tw (mm)	tf (mm)	kg/m	lb/ft	A (cm ²)	Ix (cm ⁴)	Iy (cm ⁴)	Zx (cm ³)
W40x593	1090	424	45.5	82	883.00	593.00	1,120.00	2,100,000	105,000	38,300
W14x605	531	442	66	106	900.00	605.00	1,150.00	450,000	153,000	17,000
W36x652	1040	447	50	89.9	970.00	652.00	1,240.00	2,110,000	134,000	40,300
W40x655	1110	429	50	89.9	976.00	655.00	1,250.00	2,350,000	119,000	42,500
W14x665	549	450	71.9	115	990.00	665.00	1,260.00	516,000	174,000	18,800
W36x723	1060	452	55.1	99.1	1,080.00	723.00	1,370.00	2,380,000	154,000	44,900
W14x730	569	455	78	125	1,090.00	730.00	1,390.00	595,000	196,000	21,000
W36x802	1080	457	60.5	109	1,190.00	802.00	1,520.00	2,700,000	175,000	49,800
W14x808	579	472	95	130	1,200.00	808.00	1,540.00	662,000	231,000	22,800
W36x853	1090	462	64	115	1,270.00	853.00	1,620.00	2,910,000	191,000	53,300
W14x873	599	478	100	140	1,300.00	873.00	1,660.00	753,000	257,000	25,100
W36x925	1090	472	76.7	115	1,380.00	925.00	1,750.00	3,040,000	206,000	55,600

Source: AISC Shapes Database v16.0. Nominal values for estimating; verify with the producer. steelweight-calculator.com