

**WIDE FLANGE BEAMS  
ASTM A36 & A992  
W SHAPES**

DESIGNATION	WEIGHT PER FOOT	DEPTH (IN.)	THICKNESS OF WEB (IN.)	WIDTH OF FLANGE (IN.)	THICKNESS OF FLANGE (IN.)
<b>W 4 X 13</b>	13	4.16	0.28	4.06	0.345
<b>W 5 X 16</b>	16	5.01	0.24	5.01	0.36
X 19	19	5.15	0.27	5.03	0.43
<b>W 6 X 9</b>	9	5.9	0.17	3.94	0.215
X 12	12	6.03	0.23	4	0.28
X 15	15	5.99	0.23	5.99	0.26
X 16	16	6.28	0.26	4.03	0.405
X 20	20	6.2	0.26	6.02	0.365
X 25	25	6.38	0.32	6.08	0.455
<b>W 8 X 10</b>	10	7.89	0.17	3.94	0.205
X 13	13	7.99	0.23	4	0.255
X 15	15	8.11	0.245	4.015	0.315
X 18	18	8.14	0.23	5.25	0.33
X 21	21	8.28	0.25	5.27	0.4
X 24	24	7.93	0.245	6.495	0.4
X 28	28	8.06	0.285	6.535	0.465
X 31	31	8.006	0.285	7.995	0.435
X 35	35	8.12	0.31	8.02	0.495
X 40	40	8.25	0.36	8.07	0.56
X 48	48	8.5	0.44	8.11	0.685
X 58	58	8.75	0.51	8.22	0.81
X 67	67	9	0.57	8.28	0.935
<b>W 10 X 12</b>	12	9.87	0.19	3.96	0.21
X 15	15	9.99	0.23	4	0.27
X 17	17	10.11	0.24	4.01	0.33
X 19	19	10.24	0.25	4.02	0.395
X 22	22	10.17	0.24	5.75	0.36
X 26	26	10.33	0.26	5.77	0.44
X 30	30	10.47	0.3	5.81	0.51
X 33	33	9.73	0.29	7.96	0.435
X 39	39	9.92	0.315	7.985	0.53
X 45	45	10.1	0.35	8.02	0.62
X 49	49	9.98	0.34	10	0.56
X 54	54	10.009	0.37	10.03	0.615
X 60	60	10.22	0.42	10.008	0.68
X 68	68	10.4	0.47	10.13	0.77
X 77	77	10.6	0.53	10.19	0.87
X 88	88	10.84	0.605	10.265	0.99
X 100	100	11.1	0.68	10.34	1.12
X 112	112	11.36	0.755	10.415	1.25
<b>W 12 X 14</b>	14	11.91	0.2	3.97	0.225
X 16	16	11.99	0.22	3.99	0.265
X 19	19	12.16	0.235	4.005	0.35
X 22	22	12.31	0.26	4.03	0.425
X 26	26	12.22	0.23	6.49	0.38

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X 30	30	12.34	0.26	6.52	0.44
X 35	35	12.5	0.3	6.56	0.52
X 40	40	11.94	0.295	8.005	0.515
X 45	45	12.06	0.335	8.045	0.575
X 50	50	12.19	0.37	8.08	0.64
X 53	53	12.06	0.345	9.995	0.575
X 58	58	12.19	0.36	10.01	0.64
X 65	65	12.12	0.39	12	0.605
X 72	72	12.25	0.43	12.04	0.67
X 79	79	12.38	0.47	12.08	0.735
X 87	87	12.53	0.515	12.125	0.81
X 96	96	12.71	0.55	12.16	0.901
X 106	106	12.89	0.61	12.22	0.99
X 120	120	13.12	0.71	12.32	1.105
X 136	136	13.41	0.79	12.4	1.25
X 152	152	13.71	0.87	12.48	1.4
X 170	170	14.03	0.96	12.57	1.56
X 190	190	14.38	1.06	12.67	1.735
X 210	210	14.71	1.18	12.79	1.9
X 230	230	15.05	1.285	12.895	2.07
X 252	252	15.41	1.395	12.005	2.25
X 279	279	15.85	1.53	13.14	2.47
X 305	305	16.32	1.625	13.385	2.955
<b>W 14 X 22</b>	22	13.74	0.23	5	0.335
X 26	26	13.91	0.255	5.025	0.42
X 30	30	13.84	0.27	6.73	0.385
X 34	34	13.98	0.285	6.745	0.455
X 38	38	14.1	0.31	6.77	0.515
X 43	43	13.66	0.305	7.995	0.53
X 48	48	13.79	0.34	8.03	0.595
X 53	53	13.92	0.37	8.06	0.66
X 61	61	13.89	0.375	9.995	0.645
X 68	68	14.04	0.415	10.035	0.72
X 74	74	14.17	0.45	10.07	0.785
X 82	82	14.31	0.51	10.13	0.855
X 90	90	14.52	0.44	14.52	0.71
X 99	99	14.16	0.485	14.565	0.78
X 109	109	14.32	0.525	14.605	0.86
X 120	120	14.48	0.59	14.67	0.94
X 132	132	14.66	0.645	14.725	1.03
X 145	145	14.78	0.68	15.5	1.09
X 159	159	14.98	0.745	15.565	1.19
X 176	176	15.22	0.83	15.65	1.31
X 193	193	15.48	0.89	15.71	1.44
X 211	211	15.72	0.98	15.8	1.56

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X 233	233	16.04	1.07	15.89	1.72
X 257	257	16.38	1.175	15.995	1.89
X 283	283	16.74	1.29	16.11	2.07
X 311	311	17.12	1.14	16.23	2.26
X 342	342	17.54	1.54	16.36	2.47
X 370	370	17.92	1.655	16.475	2.66
X 398	398	18.29	1.77	16.59	2.845
X 426	426	18.67	1.875	16.695	3.035
X 455	455	19.02	2.015	16.835	3.21
X 500	500	19.6	2.19	17.01	3.5
X 550	550	20.24	2.38	17.2	3.82
X 605	605	20.82	2.595	17.415	4.16
X 665	665	21.64	2.83	17.65	4.52
X 730	730	22.42	3.07	17.89	4.91
X 808	808	22.84	3.74	17.56	5.12
X 873	873	23.62	3.937	18.757	5.51
<b>W 16 X 26</b>	26	15.69	0.25	5.5	0.345
X 31	31	15.88	0.275	5.525	0.44
X 36	36	15.86	0.295	6.985	0.43
X 40	40	16.01	3.05	6.995	0.505
X 45	45	16.13	0.345	7.035	0.565
X 50	50	16.26	0.38	7.07	0.63
X 57	57	16.43	0.43	7.12	0.715
X 67	67	16.33	0.395	10.235	0.665
X 77	77	16.52	0.455	10.295	0.76
X 89	89	16.75	0.525	10.365	0.875
X100	100	16.97	0.585	10.425	0.985
<b>W 18 X 35</b>	35	17.7	0.3	6	0.425
X 40	40	17.9	0.315	6.015	0.525
X 46	46	17.06	0.36	6.06	0.605
X 50	50	17.99	0.355	7.495	0.57
X 55	55	18.11	0.39	7.53	0.63
X 60	60	18.24	0.415	7.55	0.695
X 65	65	18.35	0.45	7.59	0.75
X 71	71	18.47	0.495	7.635	0.81
X 76	76	18.21	0.425	11.035	0.68
X 86	86	18.39	0.48	11.09	0.77
X 97	97	18.59	0.535	11.145	0.87
X106	106	18.73	0.59	11.2	0.94
X119	119	18.97	0.655	11.265	1.06
X130	130	19.25	0.67	11.16	1.2
X143	143	19.49	0.73	11.22	1.32
X158	158	19.72	0.81	11.3	1.44
X 175	175	20.04	0.89	11.375	1.59
X 192	192	20.35	0.96	11.455	1.75

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X 211	211	20.67	1.06	11.555	1.91
X 234	234	21.06	1.16	11.65	2.11
X 258	258	21.46	1.28	11.77	2.3
X 283	283	21.85	1.4	11.89	2.5
X 311	311	22.32	1.52	12.005	2.74
<b>W 21 X 44</b>	44	20.66	0.35	6.5	0.45
X 50	50	20.83	0.38	6.53	0.535
X 57	57	21.06	0.405	6.555	0.65
X 62	62	20.99	0.4	8.24	0.615
X 68	68	21.13	0.43	8.27	0.685
X 73	73	21.24	0.455	8.295	0.74
X 83	83	21.43	0.515	8.355	0.835
X 93	93	21.62	0.58	8.42	0.93
X 101	101	21.36	0.5	12.29	0.8
X 111	111	21.51	0.55	12.34	0.875
X 122	122	21.68	0.6	13.39	0.96
X 132	132	21.83	0.65	12.44	1.035
X 147	147	22.06	0.72	12.51	1.15
X 166	166	22.48	0.75	12.42	1.36
X 182	182	22.72	0.83	12.5	1.48
X 248	248	23.74	1.11	12.775	1.99
X 275	275	24.13	1.22	12.89	2.19
X 300	300	24.53	1.32	12.99	2.38
<b>W 24 X 55</b>	55	23.57	0.395	7.005	5.05
X 62	62	23.74	0.43	7.04	0.59
X 68	68	23.73	0.415	8.965	0.585
X 76	76	23.92	0.44	8.99	0.68
X 84	84	24.1	0.47	9.02	0.77
X 94	94	24.31	0.515	9.065	0.875
X 104	104	24.06	0.5	12.75	0.75
X 117	117	24.26	0.55	12.8	0.85
X 131	131	24.48	0.605	12.855	0.96
X 146	146	24.74	0.65	12.9	1.09
X 162	162	25	0.705	12.955	1.22
X 176	176	25.24	0.75	12.89	1.34
X 192	192	25.47	0.81	12.95	1.46
X 207	207	25.71	0.87	13.01	1.57
X 229	229	26.02	0.96	13.11	1.73
X 250	250	26.34	1.04	13.185	1.89
X 279	279	26.73	1.16	13.305	2.09
X 306	306	27.13	1.26	13.405	2.28
X 335	335	27.52	1.38	13.52	2.48
X 370	370	27.99	1.52	13.66	2.72
X 408	408	28.54	1.65	13.8	2.99
X 450	450	29.09	1.81	13.955	3.27

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DESIGNATION	WEIGHT PER FOOT	DEPTH (IN.)	THICKNESS OF WEB (IN.)	WIDTH OF FLANGE (IN.)	THICKNESS OF FLANGE (IN.)
X 492	492	29.65	1.97	14.115	3.54
<b>W 27 X 84</b>	84	26.71	0.46	9.96	0.64
X 94	94	26.92	0.49	9.99	0.745
X 102	102	27.09	0.515	10.015	0.83
X 114	114	27.29	0.57	10.07	0.93
X 146	146	27.38	0.605	13.965	0.975
X 161	161	27.59	0.66	14.02	1.08
X 178	178	27.81	0.725	14.085	1.19
X 194	194	28.11	0.75	14.035	1.34
X 217	217	28.43	0.83	14.115	1.5
X 235	234	28.66	0.91	14.19	1.61
X 258	258	28.98	0.98	14.27	1.77
X 281	281	29.29	1.06	14.35	1.93
X 307	307	29.61	1.16	14.445	2.09
X 336	336	30	1.26	14.545	2.28
X 368	368	30.39	1.38	14.665	2.48
X 407	407	30.87	1.52	14.8	2.72
X 448	448	31.42	1.65	14.94	2.99
X 494	494	31.97	1.81	15.095	3.27
X 539	539	32.52	1.97	15.225	3.54
<b>W 30 X 90</b>	90	29.53	0.47	10.4	0.61
X 99	99	29.65	0.52	10.45	0.67
X 108	108	29.83	0.545	10.475	0.76
X 116	116	30.01	0.565	10.495	0.85
X 124	124	30.17	0.585	10.515	0.93
X 132	132	30.31	0.615	10.545	1
X 173	173	30.44	0.655	14.985	1.065
X 191	191	30.68	0.71	15.04	1.185
X 211	211	30.94	0.775	15.105	1.315
X 235	235	31.3	0.83	15.055	1.5
X 261	261	31.61	0.93	15.155	1.65
X 292	292	32.01	1.02	15.255	1.85
X 326	326	32.4	1.14	15.37	2.05
X 357	357	32.8	1.24	15.47	2.24
X 391	391	33.19	1.36	15.59	2.44
X 433	433	33.66	1.5	15.725	2.68
X 477	477	34.21	1.63	15.865	2.95
X 526	526	34.76	1.79	16.02	3.23
X 581	581	35.39	1.97	16.2	3.54