

Wide Flange Beam Size Chart



Designation (in x lbs/ft)	Flange				
	Area (in ²)	Depth (in)	Width (in)	Thickness (in)	Web Thickness (in)
W44 x 335	98.7	44.02	15.945	1.77	1.025
x 290	85.8	43.62	15.825	1.575	0.865
x 262	77.2	43.31	15.75	1.415	0.785
x 230	67.9	42.91	15.75	1.22	0.71
W40 x 593	174.4	42.99	16.69	3.23	1.79
x 503	147.8	42.05	16.415	2.755	1.535
x 431	126.7	41.26	16.22	2.36	1.34
x 397	117	40.95	16.12	2.2	1.22
x 372	109.4	40.63	16.065	2.045	1.16
x 362	107	40.55	16.02	2.01	1.12
x 324	95.3	40.16	15.91	1.81	1
x 297	87.4	39.84	15.825	1.65	0.93
x 277	81.3	39.69	15.83	1.575	0.83
x 249	73.3	39.38	15.75	1.42	0.75
x 215	63.3	38.98	15.75	1.22	0.65
x 199	58.4	38.67	15.75	1.065	0.65
W40 x 392	115.3	41.57	12.36	2.52	1.415
x 331	97.5	40.79	12.165	2.125	1.22
x 327	95.9	40.79	12.13	2.13	1.18
x 294	86.2	40.39	12.01	1.93	1.06
x 278	81.9	40.16	11.97	1.81	1.025
x 264	77.6	40	11.93	1.73	0.96
x 235	68.9	39.69	11.89	1.575	0.83
x 211	62	39.37	11.81	1.415	0.75
x 183	53.7	38.98	11.81	1.2	0.65
x 167	49.1	38.59	11.81	1.025	0.65
x 149	43.8	38.2	11.81	0.83	0.63
W36 x 652	191.7	41.05	17.575	3.54	1.97
x 529	155.6	39.79	17.22	2.91	1.61
x 487	143.2	39.33	17.105	2.68	1.5
x 441	129.7	38.85	16.965	2.44	1.36
x 395	116.2	38.37	16.83	2.2	1.22
x 361	106.1	37.99	16.73	2.01	1.12
x 330	97	37.67	16.63	1.85	1.02
x 302	88.8	37.33	16.655	1.68	0.945
x 282	82.9	37.11	16.595	1.57	0.885
x 262	77	36.85	16.55	1.44	0.84
x 247	72.5	36.67	16.51	1.35	0.8
x 231	68	36.49	16.47	1.26	0.76
W36 x 256	75.4	37.43	12.215	1.73	0.96
x 232	68.1	37.12	12.12	1.57	0.87

x 210	61.8	36.69	12.18	1.36	0.83
x 194	57	36.49	12.115	1.26	0.765
x 182	53.6	36.33	12.075	1.18	0.725
x 170	50	36.17	12.03	1.1	0.68
x 160	47	36.01	12	1.02	0.65
x 150	44.2	35.85	11.975	0.94	0.625
x 135	39.7	35.55	11.95	0.79	0.6
W33 x 387	114	35.95	16.2	2.28	1.26
x 354	104.1	35.55	16.1	2.09	1.16
x 318	93.5	35.16	15.985	1.89	1.04
x 291	85.6	34.84	15.905	1.73	0.96
x 263	77.4	34.53	15.805	1.57	0.87
x 241	70.9	34.18	15.86	1.4	0.83
x 221	65	33.93	15.805	1.275	0.775
x 201	59.1	33.68	15.745	1.15	0.715
W33 x 169	49.5	33.82	11.5	1.22	0.67
x 152	44.7	33.49	11.565	1.055	0.635
x 141	41.6	33.3	11.535	0.96	0.605
x 130	38.3	33.09	11.51	0.855	0.58
x 118	34.7	32.86	11.48	0.74	0.55
W30 x 391	115	33.19	15.59	2.44	1.36
x 357	104.8	32.8	15.47	2.24	1.24
x 326	95.7	32.4	15.37	2.05	1.14
x 292	85.7	32.01	15.255	1.85	1.02
x 261	76.7	31.61	15.155	1.65	0.93
x 235	69	31.3	15.055	1.5	0.83
x 211	62	30.94	15.105	1.315	0.775
x 191	56.1	30.68	15.04	1.185	0.71
x 173	50.8	30.44	14.985	1.065	0.655
W30 x 148	43.5	30.67	10.48	1.18	0.65
x 132	38.9	30.31	10.545	1	0.615
x 124	36.5	30.17	10.515	0.93	0.585
x 116	34.2	30.01	10.495	0.85	0.565
x 108	31.7	29.83	10.475	0.76	0.545
x 99	29.1	29.65	10.45	0.67	0.52
x 90	26.4	29.53	10.4	0.61	0.47
W27 x 539	158.4	32.52	15.255	3.54	1.97
x 368	108.1	30.39	14.665	2.48	1.38
x 336	98.7	30	14.55	2.28	1.26
x 307	90.2	29.61	14.445	2.09	1.16
x 281	82.6	29.29	14.35	1.93	1.06
x 258	75.7	28.98	14.27	1.77	0.98
x 235	69.1	28.66	14.19	1.61	0.91
x 217	63.8	28.43	14.115	1.5	0.83
x 194	57	28.11	14.035	1.34	0.75

x 178	52.3	27.81	14.085	1.19	0.725
x 161	47.4	27.59	14.02	1.08	0.66
x 146	42.9	27.38	13.965	0.975	0.605
W27 x 129	37.8	27.63	10.01	1.1	0.61
x 114	33.5	27.29	10.07	0.93	0.57
x 102	30	27.09	10.015	0.83	0.515
x 94	27.7	26.92	9.99	0.745	0.49
x 84	24.8	26.71	9.96	0.64	0.46
W24 x 370	108	27.99	13.66	2.72	1.52
x 335	98.4	27.52	13.52	2.48	1.38
x 306	89.8	27.13	13.405	2.28	1.26
x 279	82	26.73	13.305	2.09	1.16
x 250	73.5	26.34	13.185	1.89	1.04
x 229	67.2	26.02	13.11	1.73	0.96
x 207	60.7	25.71	13.01	1.57	0.87
x 192	56.3	25.47	12.95	1.46	0.81
x 176	51.7	25.24	12.89	1.34	0.75
x 162	47.7	25	12.955	1.22	0.705
x 146	43	24.74	12.9	1.09	0.65
x 131	38.5	24.48	12.855	0.96	0.605
x 117	34.4	24.26	12.8	0.85	0.55
x 104	30.6	24.06	12.75	0.75	0.5
W24 x 103	30.3	24.53	9	0.98	0.55
x 94	27.7	24.31	9.065	0.875	0.515
x 84	24.7	24.1	9.02	0.77	0.47
x 76	22.4	23.92	8.99	0.68	0.44
x 68	20.1	23.73	8.965	0.585	0.415
W24 x 62	18.2	23.74	7.04	0.59	0.43
x 55	16.2	23.57	7.005	0.505	0.395
W21 x 201	59.2	23.03	12.575	1.63	0.91
x 182	53.7	22.72	12.5	1.48	0.83
x 166	48.9	22.48	12.42	1.36	0.75
x 147	43.2	22.06	12.51	1.15	0.72
x 132	38.8	21.83	12.44	1.035	0.65
x 122	35.9	21.68	12.39	0.96	0.6
x 111	32.7	21.51	12.34	0.875	0.55
x 101	29.8	21.36	12.29	0.8	0.5
W21 x 93	27.3	21.62	8.42	0.93	0.58
x 83	24.3	21.43	8.355	0.835	0.515
x 73	21.5	21.24	8.295	0.74	0.455
x 68	20	21.13	8.27	0.685	0.43
x 62	18.3	20.99	8.24	0.615	0.4
x 55	16.2	20.8	8.22	0.522	0.375
x 48	14.1	20.62	8.14	0.43	0.35
W21 x 57	16.7	21.06	6.555	0.65	0.405

x 50	14.7	20.83	6.53	0.535	0.38
x 44	13	20.66	6.5	0.45	0.35
W18 x 311	91.5	22.32	12.005	2.74	1.52
x 283	83.2	21.85	11.89	2.5	1.4
x 258	75.9	21.46	11.77	2.3	1.28
x 234	68.8	21.06	11.65	2.1	1.16
x 211	62.1	20.67	11.555	1.91	1.06
x 192	56.4	20.35	11.455	1.75	0.96
x 175	51.3	20.04	11.375	1.59	0.89
x 158	46.3	19.72	11.3	1.44	0.81
x 143	42.1	19.49	11.22	1.32	0.73
x 130	38.2	19.25	11.16	1.2	0.67
x 119	35.1	18.97	11.265	1.06	0.655
x 106	31.1	18.73	11.2	0.94	0.59
x 97	28.5	18.59	11.145	0.87	0.535
x 86	25.3	18.39	11.09	0.77	0.48
x 76	22.3	18.21	11.035	0.68	0.425
W18 x 71	20.8	18.47	7.635	0.81	0.495
x 65	19.1	18.35	7.59	0.75	0.45
x 60	17.6	18.24	7.555	0.695	0.415
x 55	16.2	18.11	7.53	0.63	0.39
x 50	14.7	17.99	7.495	0.57	0.355
W18 x 46	13.5	18.06	6.06	0.605	0.36
x 40	11.8	17.9	6.015	0.525	0.315
x 35	10.3	17.7	6	0.425	0.3
W16 x 100	29.4	16.97	10.425	0.985	0.585
x 89	26.2	16.75	10.365	0.875	0.525
x 77	22.6	16.52	10.295	0.76	0.455
x 67	19.7	16.33	10.235	0.665	0.395
W16 x 57	16.8	16.43	7.12	0.715	0.43
x 50	14.7	16.26	7.07	0.63	0.38
x 45	13.3	16.13	7.035	0.565	0.345
x 40	11.8	16.01	6.995	0.505	0.305
x 36	10.6	15.86	6.985	0.43	0.295
W16 x 31	9.12	15.88	5.525	0.44	0.275
x 26	7.68	15.69	5.5	0.345	0.25
W14 x 730	215	22.42	17.89	4.91	3.07
x 665	196	21.64	17.65	4.52	2.83
x 605	178	20.92	17.415	4.16	2.595
x 550	162	20.24	17.2	3.82	2.38
x 500	147	19.6	17.01	3.5	2.19
x 455	134	19.02	16.835	3.21	2.015
x 426	125	18.67	16.695	3.035	1.875
x 398	117	18.29	16.59	2.845	1.77
x 370	109	17.92	16.475	2.66	1.655

x 342	101	17.54	16.36	2.47	1.54
x 311	91.4	17.12	16.23	2.26	1.41
x 283	83.3	16.74	16.11	2.07	1.29
x 257	75.6	16.38	15.995	1.89	1.175
x 233	68.5	16.04	15.89	1.72	1.07
x 211	62	15.72	15.8	1.56	0.98
x 193	56.8	15.48	15.71	1.44	0.89
x 176	51.8	15.22	15.65	1.31	0.83
x 159	46.7	14.98	15.565	1.19	0.745
x 145	42.7	14.78	15.5	1.09	0.68
W14 x 132	38.8	14.66	14.725	1.03	0.645
x 120	35.3	14.48	14.67	0.94	0.59
x 109	32	14.32	14.605	0.86	0.525
x 99	29.1	14.16	14.565	0.78	0.485
x 90	26.5	14.02	14.52	0.71	0.44
W14 x 82	24.1	14.31	10.13	0.855	0.51
x 74	21.8	14.17	10.07	0.785	0.45
x 68	20	14.04	10.035	0.72	0.415
x 61	17.9	13.89	9.995	0.645	0.375
W14 x 53	15.6	13.92	8.06	0.66	0.37
x 48	14.1	13.79	8.03	0.595	0.34
x 43	12.6	13.66	7.995	0.53	0.305
W14 x 38	11.2	14.1	6.77	0.515	0.31
x 34	10	13.98	6.745	0.455	0.285
x 30	8.85	13.84	6.73	0.385	0.27
W14 x 26	7.69	13.91	5.025	0.42	0.255
x 22	6.49	13.74	5	0.335	0.23
W12 x 336	98.8	16.82	13.385	2.955	1.775
x 305	89.6	16.32	13.235	2.705	1.625
x 279	81.9	15.85	13.14	2.47	1.53
x 252	74.1	15.41	13.005	2.25	1.395
x 230	67.7	15.05	12.895	2.07	1.285
x 210	61.8	14.71	12.79	1.9	1.18
x 190	55.8	14.38	12.67	1.735	1.06
x 170	50	14.03	12.57	1.56	0.96
x 152	44.7	13.71	12.48	1.4	0.87
x 136	39.9	13.41	12.4	1.25	0.79
x 120	35.3	13.12	12.32	1.105	0.71
x 106	31.2	12.89	12.22	0.99	0.61
x 96	28.2	12.71	12.16	0.9	0.55
x 87	25.6	12.53	12.125	0.81	0.515
x 79	23.2	12.38	12.08	0.735	0.47
x 72	21.1	12.25	12.04	0.67	0.43
x 65	19.1	12.12	12	0.605	0.39
W12 x 58	17	12.19	10.01	0.64	0.36

x 53	15.6	12.06	9.995	0.575	0.345
W12 x 50	14.7	12.19	8.08	0.64	0.37
x 45	13.2	12.06	8.045	0.575	0.335
x 40	11.8	11.94	8.005	0.515	0.295
W12 x 35	10.3	12.5	6.56	0.52	0.3
x 30	8.79	12.34	6.52	0.44	0.26
x 26	7.65	12.22	6.49	0.38	0.23
W12 x 22	6.48	12.31	4.03	0.425	0.26
x 19	5.57	12.16	4.005	0.35	0.235
x 16	4.71	11.99	3.99	0.265	0.22
x 14	4.16	11.91	3.97	0.225	0.2
W10 x 112	32.9	11.36	10.415	1.25	0.755
x 100	29.4	11.1	10.34	1.12	0.68
x 88	25.9	10.84	10.265	0.99	0.605
x 77	22.6	10.6	10.19	0.87	0.53
x 68	20	10.4	10.13	0.77	0.47
x 60	17.6	10.22	10.08	0.68	0.42
x 54	15.8	10.09	10.03	0.615	0.37
x 49	14.4	9.98	10	0.56	0.34
W10 x 45	13.3	10.1	8.02	0.62	0.35
x 39	11.5	9.92	7.985	0.53	0.315
x 33	9.71	9.73	7.96	0.435	0.29
W10 x 30	8.84	10.47	5.81	0.51	0.3
x 26	7.61	10.33	5.77	0.44	0.26
x 22	6.49	10.17	5.75	0.36	0.24
W10 x 19	5.62	10.24	4.02	0.395	0.25
x 17	4.99	10.11	4.01	0.33	0.24
x 15	4.41	9.99	4	0.27	0.23
x 12	3.54	9.87	3.96	0.21	0.19
W8 x 67	19.7	9	8.28	0.935	0.57
x 58	17.1	8.75	8.22	0.81	0.51
x 48	14.1	8.5	8.11	0.685	0.4
x 40	11.7	8.25	8.07	0.56	0.36
x 35	10.3	8.12	8.02	0.495	0.31
x 31	9.13	8	7.995	0.435	0.285
W8 x 28	8.25	8.06	6.535	0.465	0.285
x 24	7.08	7.93	6.495	0.4	0.245
W8 x 21	6.16	8.28	5.27	0.4	0.25
x 18	5.26	8.14	5.25	0.33	0.23
W8 x 15	4.44	8.11	4.015	0.315	0.245
x 13	3.84	7.99	4	0.255	0.23
x 10	2.96	7.89	3.94	0.205	0.17
W6 x 25	7.34	6.38	6.08	0.455	0.32
x 20	5.87	6.2	6.02	0.365	0.26
x 15	4.43	5.99	5.99	0.26	0.23

W6 x 16	4.74	6.28	4.03	0.405	0.26
x 12	3.55	6.03	4	0.28	0.23
x 9	2.68	5.9	3.94	0.215	0.17
x 8.5	2.52	5.83	3.94	0.195	0.17
W5 x 19	5.54	5.15	5.03	0.43	0.27
x 16	4.68	5.01	5	0.36	0.24
W4 x 13	3.83	4.16	4.06	0.345	0.28