

# WIDE FLANGE BEAMS

MANHATTAN STEEL SUPPLY  
201-795-4060



Section Number	Pounds per Ft.	Depth of Section	Flange Width(in.)	Flange Thickness(in.)	Web Thickness(in.)
4 x 4	13	4.160	4.060	0.345	0.280
5 x 5	16	5.010	5.000	0.360	0.240
	19	5.150	5.030	0.430	0.270
6 x 4	9	5.900	3.940	0.215	0.170
	12	6.030	4.000	0.280	0.230
	16	6.280	4.030	0.405	0.260
6 x 6	15	5.990	5.990	0.260	0.230
	20	6.200	6.020	0.365	0.260
	25	6.380	6.080	0.455	0.320
8 x 4	10	7.890	3.940	0.205	0.170
	13	7.990	4.000	0.255	0.230
	15	8.110	4.015	0.315	0.245
8 x 5 1/4	18	8.140	5.250	0.330	0.230
	21	8.280	5.270	0.400	0.250
8 x 6 1/2	24	7.930	6.495	0.400	0.245
	28	8.060	6.535	0.465	0.285
8 x 8	31	8.00	7.995	0.435	0.285
	35	8.120	8.020	0.495	0.310
	40	8.250	8.070	0.560	0.360
	48	8.500	8.110	0.685	0.400
	58	8.750	8.220	0.810	0.510

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<b>8 x 8</b>	67	9.000	8.280	0.935	0.570
<b>10 x 4</b>	12	9.870	3.960	0.210	0.190
	15	9.990	4.000	0.270	0.230
	17	10.110	4.010	0.330	0.240
	19	10.240	4.020	0.395	0.250
<b>10 x 5 3/4</b>	22	10.170	5.750	0.360	0.240
	26	10.330	5.770	0.440	0.260
	30	10.470	5.810	0.510	0.300
<b>10 x 8</b>	33	9.730	7.960	0.435	0.290
	39	9.920	7.985	0.530	0.315
	45	10.100	8.020	0.620	0.350
<b>10 x 10</b>	49	9.980	10.000	0.560	0.340
	54	10.090	10.030	0.615	0.370
	60	10.220	10.080	0.680	0.420
	68	10.400	10.130	0.770	0.470
	77	10.600	10.190	0.870	0.530
	88	10.840	10.265	0.990	0.605
	100	11.100	10.340	1.120	0.680
	112	11.360	10.415	1.250	0.755
<b>12 x 4</b>	14	11.910	3.970	0.225	0.200
	16	11.990	3.990	0.265	0.200
	19	12.160	4.005	0.350	0.235
	22	12.310	4.030	0.425	0.260

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Section Number	Pounds per Ft.	Depth of Section	Flange		Web Thickness(in.)
			Width(in.)	Thickness(in.)	
12 x 6 1/2	26	12.220	6.490	0.380	0.230
	30	12.340	6.520	0.440	0.260
	35	12.500	6.560	0.520	0.300
12 x 8	40	11.940	8.005	0.515	0.295
	45	12.060	8.045	0.575	0.335
	50	12.190	8.080	0.640	0.370
12 x 10	53	12.060	9.995	0.575	0.345
	58	12.190	10.010	0.640	0.360
12 x 12	65	12.120	12.000	0.605	0.390
	72	12.250	12.040	0.670	0.430
	79	12.380	12.080	0.735	0.470
	87	12.530	12.125	0.810	0.515
	96	12.710	12.160	0.900	0.550
	106	12.890	12.220	0.990	0.610
	120	13.120	12.230	1.105	0.710
	136	13.410	12.400	1.250	0.790
	152	13.710	12.480	1.400	0.870
	170	14.030	12.570	1.560	0.960
	190	14.380	12.670	1.735	1.060
14 x5	22	13.740	5.000	0.335	0.230
	26	13.910	5.025	0.420	0.255
14 x 6 3/4	30	13.840	6.730	0.385	0.270
	34	13.980	6.745	0.455	0.285
	38	14.100	6.770	0.515	0.310

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Section Number	Pounds per Ft.	Depth of Section	Flange Width(in.)	Flange Thickness(in.)	Web Thickness(in.)
14 x 8	43	13.660	7.995	0.530	0.305
	48	13.790	8.030	0.595	0.340
	53	13.920	8.060	0.660	0.370
14 x 10	61	13.890	9.995	0.645	0.375
	68	14.040	10.035	0.720	0.415
	74	14.170	10.070	0.785	0.450
	82	14.310	10.130	0.855	0.510
14 x 14 1/2	90	14.020	14.520	0.710	0.440
	99	14.160	14.565	0.780	0.485
	109	14.320	14.605	0.860	0.525
	120	14.480	14.670	0.940	0.590
	132	14.660	14.725	1.030	0.645
14 x 16	145	14.780	15.500	1.090	0.680
	159	14.980	15.565	1.190	0.745
	176	15.220	15.650	1.310	0.830
	193	15.480	15.710	1.440	0.890
	211	15.720	15.800	1.560	0.980
	233	16.040	15.890	1.720	1.070
	257	16.380	15.995	1.890	1.175
	283	16.740	16.110	2.070	1.290
	311	17.120	16.230	2.260	1.410
	342	17.540	16.360	2.470	1.540
	370	17.920	16.475	2.660	1.655
	398	18.290	16.590	2.845	1.770
426	18.670	16.695	3.035	1.875	

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Section Number	Pounds per Ft.	Depth of Section	Flange		Web Thickness(in.)
			Width(in.)	Thickness(in.)	
<b>16 x 5 1/2</b>	26	15.690	5.500	0.345	0.250
	31	15.880	5.525	0.440	0.275
<b>16 x 7</b>	36	15.860	6.985	0.430	0.295
	40	16.010	6.995	0.505	0.305
	45	16.130	7.035	0.565	0.345
	50	16.260	7.070	0.630	0.380
	57	16.430	7.120	0.715	0.430
<b>16 x 10 1/4</b>	67	16.330	10.235	0.665	0.395
	77	16.520	10.295	0.760	0.455
	89	16.750	10.365	0.875	0.525
	100	16.970	10.425	0.985	0.585
<b>18 x 6</b>	35	17.700	6.000	0.425	0.300
	40	17.900	6.015	0.525	0.315
	46	18.060	6.060	0.605	0.360
<b>18 x 7 1/2</b>	50	17.990	7.495	0.570	0.355
	55	18.110	7.530	0.630	0.390
	60	18.240	7.555	0.695	0.415
	65	18.350	7.590	0.750	0.450
	71	18.470	7.635	0.810	0.495

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Section Number	Pounds per Ft.	Depth of Section	Flange		Web Thickness(in.)
			Width(in.)	Thickness(in.)	
18 x 11	76	18.210	11.035	0.680	0.425
	86	18.390	11.090	0.770	0.480
	97	18.590	11.145	0.870	0.535
	106	18.730	11.200	0.940	0.590
	119	18.970	11.265	1.060	0.655
	130	19.250	11.160	1.200	0.670
	143	19.490	11.220	1.320	0.730
	158	19.720	11.300	1.440	0.810
	175	20.040	11.375	1.590	0.890
	192	20.350	11.455	1.750	0.960
	211	20.670	11.555	1.910	1.060
	234	21.060	11.650	2.110	1.160
	258	21.460	11.770	2.300	1.280
283	21.850	11.890	2.500	1.400	
311	22.320	12.005	2.740	1.520	
21 x 6 1/2	44	20.660	6.500	0.450	0.350
	50	20.830	6.530	0.535	0.380
	57	21.060	6.555	0.650	0.405
21 x 8 1/4	48	20.620	8.140	0.430	0.350
	55	20.800	8.220	0.522	0.375
	62	20.990	8.240	0.615	0.400
	68	21.130	8.270	0.685	0.430
	73	21.240	8.295	0.740	0.455
	83	21.430	8.355	0.835	0.515
	93	21.620	8.420	0.930	0.580

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Section Number	Pounds per Ft.	Depth of Section	Flange		Web Thickness(in.)
			Width(in.)	Thickness(in.)	
21 x 12 1/4	101	21.360	12.290	0.800	0.500
	111	21.510	12.340	0.875	0.550
	122	21.680	12.390	0.960	0.600
	132	21.830	12.440	1.035	0.650
	147	22.060	12.510	1.150	0.720
24 x 7	55	23.570	7.005	0.505	0.395
	62	23.740	7.040	0.590	0.430
24 x 9	68	23.730	8.965	0.585	0.415
	76	23.920	8.990	0.680	0.440
	84	24.100	9.020	0.770	0.470
	94	24.310	9.065	0.875	0.515
	103	24.530	9.000	0.980	0.550
24 x 12 3/4	104	24.060	12.750	0.750	0.500
	117	24.260	12.800	0.850	0.550
	131	24.480	12.855	0.960	0.605
	146	24.740	12.900	1.090	0.650
	162	25.000	12.955	1.220	0.705
	176	25.240	12.890	1.340	0.750
	192	24.470	12.950	1.460	0.810

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Section Number	Pounds per Ft.	Depth of Section	Flange Width(in.)	Flange Thickness(in.)	Web Thickness(in.)
<b>27 x 10</b>	84	26.710	9.960	0.640	0.460
	94	26.920	9.990	0.745	0.490
	102	27.090	10.015	0.830	0.515
	114	27.290	10.070	0.930	0.570
	129	27.630	10.000	1.100	0.610
<b>27 x 14</b>	146	27.380	13.965	0.975	0.605
	161	27.590	14.020	1.080	0.660
	178	27.810	14.085	1.190	0.725
<b>30 x 10 1/2</b>	90	29.530	10.400	0.610	0.470
	99	29.650	10.450	0.670	0.520
	108	29.830	10.475	0.760	0.545
	116	30.010	10.495	0.850	0.565
	124	30.170	10.515	0.930	0.585
	132	30.310	10.545	1.000	0.615
	148	30.670	10.480	1.180	0.650
<b>30 x 15</b>	173	30.440	14.985	1.065	0.655
	191	30.680	15.040	1.185	0.710
	211	30.940	15.105	1.315	0.775
<b>33 x 11 1/2</b>	118	32.860	11.480	0.740	0.550
	130	33.090	11.480	0.740	0.550
	141	33.300	11.510	0.855	0.580
	152	33.300	11.565	1.055	0.635
	169	33.820	11.500	1.220	0.670



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			Width(in.)	Thickness(in.)	
<b>33 x 15 3/4</b>	201	33.680	15.745	1.150	0.715
	221	33.930	15.805	1.275	0.775
	241	34.180	15.860	1.400	0.830
<b>33 x 15 3/4</b>	201	33.680	15.745	1.150	0.715
	221	33.930	15.805	1.275	0.775
	241	34.180	15.860	1.400	0.830
	61	23.540	8.937	0.500	0.380
	68	23.730	8.965	0.585	0.415
	76	23.920	8.990	0.680	0.440
	84	24.100	9.020	0.770	0.470
	94	24.310	9.065	0.875	0.515
	103	24.530	9.000	0.980	0.550
	<b>36 x 16 1/2</b>	231	36.490	16.470	1.260
247		36.670	16.510	1.350	0.800
262		36.850	16.550	1.440	0.840
282		37.110	16.595	1.570	0.885
302		37.330	16.655	1.680	0.945

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			Width(in.)	Thickness(in.)	
<b>40 x 12</b>	149	38.20	11.810	0.830	0.630
	167	38.59	11.810	1.025	0.650
	183	39.98	11.810	1.200	0.650
	211	39.37	11.810	1.415	0.750
	235	39.69	11.890	1.575	0.960
	264	40.00	11.930	1.730	0.960
	278	40.16	11.970	1.810	1.025
	294	40.39	12.010	1.930	1.060
	327	40.79	12.130	2.130	1.180
	<b>40 x 16</b>	215	38.98	15.750	1.065
249		39.38	15.750	1.420	0.750
277		39.69	15.830	1.575	0.830
297		39.84	15.825	1.650	0.930
324		40.16	15.910	1.810	1.000
362		40.55	16.020	2.010	1.120
372		40.63	16.065	2.045	1.160
397		40.95	16.120	2.200	1.220
431		41.26	16.220	2.360	1.340