

Available Products

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Steel Dynamics®

Steel Dynamics Sales North America, Inc.

Long Products Group

Structural and Rail Division



Information Subject to change without prior notification

Toll Free 866.740.8700

Structural Long Products

Available Shapes:

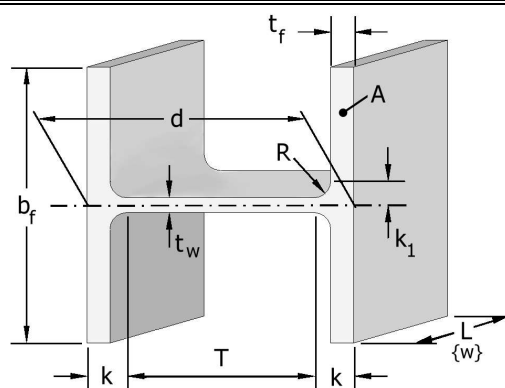
*W, HP, M,
C, MC, S*



Shape Dimensions

Nomenclature & Permissible Variations

W, HP & M



Symbol	Common Name	Units		Permissible Variations
		Imperial	Metric	
A	Cross-sectional Area	in ²	mm ²	★ Calculated from SDI shape – information only
b_f	Flange Width	in	mm	As per latest edition of ASTM A6/A6M
d	Flange Depth	in	mm	As per latest edition of ASTM A6/A6M
k	'k' – line	in	mm	Detailing dimension – information only
k₁	"k1" – line	in	mm	Detailing dimension – information only
L	Length	ft, in	m	★ Length cutting tolerance as per current SDI price page
R	Fillet Radius	in	mm	Mill practice – information only
T	'Clear' Web	in	mm	Detailing dimension – information only
t_f	Flange Thickness	in	mm	As per latest edition of ASTM A6/A6M
t_w	Web Thickness	in	mm	As per latest edition of ASTM A6/A6M
w	Weight / Mass	lbs/ft	kg/m	As per latest edition of ASTM A6/A6M
★ Denotes deviation from ASTM A6/A6M				

The permissible dimensional variations of structural long products manufactured by Steel Dynamics Inc, Structural and Rail Division, conform to the latest edition of ASTM A6/A6M. Cross-sectional areas in the following tables are calculated from nominal dimensions, and include the nominal fillet radius employed by Steel Dynamics Inc. Consequently, the tabulated values may slightly deviate from those published in ASTM A6/A6M.

Nominal detailing dimensions are provided as a courtesy. Permissible dimensional variations, and rolling factors (such as roll wear), may result in supplied shapes differing from the tabulated values. Consequently, allowances should be made for proper fitting and connections.

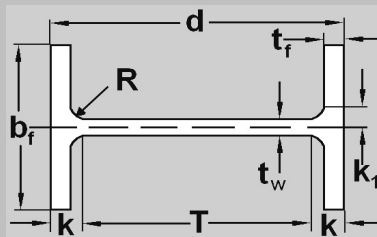
Piece length tolerance deviates from ASTM A6/A6M. Please consult the current price page for mill practice.

*Please note that Steel Dynamics, Inc. reserves the right to produce material in either the Heavy Section Mill (HSM) or the Medium Section Mill (MSM).





Inch - Pound Sizes		Comparable Metric Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(in x in)	(lbs/ft)	(mm x mm)	(kg/m)
14 x 6.75	30 - 38	360 x 170	44.6 - 58
14 x 5	22 - 26	360 x 130	32.9 - 39
16 x 10.25	67 - 100	410 x 260	100 - 149
16 x 7	36 - 57	410 x 180	53 - 85
16 x 5.5	26 - 31	410 x 140	38.8 - 46.1
18 x 11	76 - 234	460 x 280	113 - 349
18 x 7.5	41 - 71	460 x 190	60 - 106
18 x 6	35 - 46	460 x 150	52 - 68
21 x 12.25	101 - 223	530 x 310	150 - 332
21 x 8.25	48 - 93	530 x 210	72 - 138
21 x 6.5	44 - 57	530 x 170	66 - 85
24 x 12.75	104 - 192	610 x 320	155 - 285
24 x 9	56 - 103	610 x 230	83 - 153
24 x 7	55 - 62	610 x 180	82 - 92
27 x 14	146 - 178	690 x 360	217 - 265
27 x 10	84 - 129	690 x 250	125 - 192
30 x 10.5	90 - 132	760 x 270	134 - 196
33 x 11.5	118 - 169	840 x 290	176 - 251
36 x 12	135 - 256	920 x 300	201 - 381

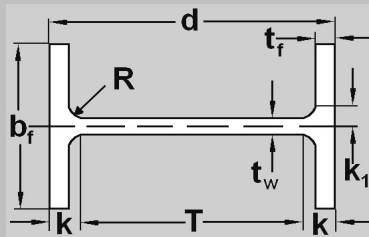


Nominal Shape Dimensions

W4

Comparable Metric Shapes
W100's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
						b_f	t_f		k	k_1	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
4x4	W4x13	W100x19.3	13	3.83	4.16	4.060	0.345	0.280	0.750	0.545	2.660	0.405	2/5



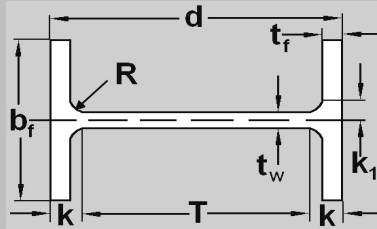
Nominal Shape Dimensions

W5

Comparable Metric Shapes
W130's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
						b_f	t_f		k	k_1	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
5x5	W5x19	W130x28.1	19	5.54	5.15	5.030	0.430	0.270	0.835	0.540	3.480	0.405	2/5
	W5x16	W130x23.8	16	4.68	5.01	5.000	0.360	0.240	0.765	0.525	3.480	0.405	2/5





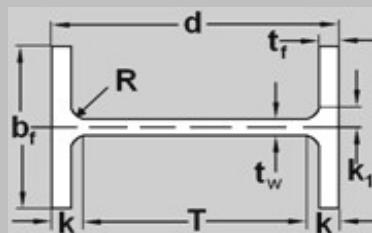
Nominal Shape Dimensions

W6

Comparable Metric Shapes
W150's

Prime Section Group	SECTION NAME	Comparable Metric Section	WEIGHT	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.							
						b _f	t _f	t _w	MSM			HSM			MSM	HSM
			w	A	d				k	k ₁	T	k	k ₁	T	R	R
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in	in	in	in
6x6	W6x25	W150x37.1	25	7.34	6.38	6.080	0.455	0.320	0.927	0.632	4.526	0.855	0.560	4.670	0.472	0.400
	W6x20	W150x29.8	20	5.87	6.20	6.020	0.365	0.260	0.837	0.602	4.526	0.765	0.530	4.670	0.472	0.400
	W6x15	W150x22.5	15	4.43	5.99	5.990	0.260	0.230	0.732	0.587	4.526	0.660	0.515	4.670	0.472	0.400
6x4	W6x16	W150x24	16	4.74	6.28	4.030	0.405	0.260	0.877	0.602	4.526	0.805	0.530	4.670	0.472	0.400
	W6x12	W150x18	12	3.55	6.03	4.000	0.280	0.230	0.752	0.587	4.526	0.680	0.515	4.670	0.472	0.400
	W6x9	W150x13.5	9	2.68	5.90	3.940	0.215	0.170	0.687	0.557	4.526	0.615	0.485	4.670	0.472	0.400
	W6x8.5	W150x13	8.5	2.52	5.83	3.940	0.194	0.170	0.666	0.557	4.498	0.594	0.485	4.642	0.472	0.400





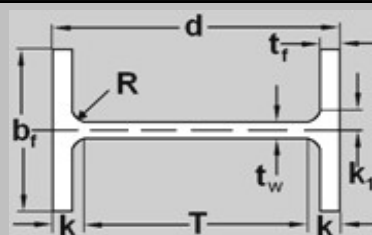
Nominal Shape Dimensions

W8

Comparable Metric Shapes
W200's

Prime Section Group	SECTION NAME	Comparable Metric Section	WEIGHT	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.						MSM	HSM
						b _f	t _f	t _w	MSM			HSM			MSM	HSM
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	k	k ₁	T	k	k ₁	T	R	R
8x8	W8x67	W200x100	67	19.70	9.00	8.280	0.935	0.570	1.407	0.757	6.186	1.335	0.685	6.330	0.472	0.400
	W8x58	W200x86	58	17.10	8.75	8.220	0.810	0.510	1.282	0.727	6.186	1.210	0.655	6.330	0.472	0.400
	W8x48	W200x71	48	14.10	8.50	8.110	0.685	0.400	1.157	0.672	6.186	1.085	0.600	6.330	0.472	0.400
	W8x40	W200x59	40	11.70	8.25	8.070	0.560	0.360	1.032	0.652	6.186	0.960	0.580	6.330	0.472	0.400
	W8x35	W200x52	35	10.30	8.12	8.020	0.495	0.310	0.967	0.627	6.186	0.895	0.555	6.330	0.472	0.400
	W8x31	W200x46.1	31	9.13	8.00	7.995	0.435	0.285	0.907	0.615	6.186	0.835	0.543	6.330	0.472	0.400
8x6½	W8x28	W200x41.7	28	8.25	8.06	6.535	0.465	0.285	0.937	0.615	6.186	0.865	0.543	6.330	0.472	0.400
	W8x24	W200x35.9	24	7.08	7.93	6.495	0.400	0.245	0.872	0.595	6.186	0.800	0.523	6.330	0.472	0.400
8x5¼	W8x21	W200x31.3	21	6.16	8.28	5.270	0.400	0.250	0.872	0.597	6.536	0.800	0.525	6.680	0.472	0.400
	W8x18	W200x26.6	18	5.26	8.14	5.250	0.330	0.230	0.802	0.587	6.536	0.730	0.515	6.680	0.472	0.400
8x4	W8x15	W200x22.5	15	4.44	8.11	4.015	0.315	0.245	0.787	0.595	6.536	0.715	0.523	6.680	0.472	0.400
	W8x13	W200x19.3	13	3.84	7.99	4.000	0.255	0.230	0.727	0.587	6.536	0.655	0.515	6.680	0.472	0.400
	W8x10	W200x15	10	2.96	7.89	3.940	0.205	0.170	0.677	0.557	6.536	0.605	0.485	6.680	0.472	0.400





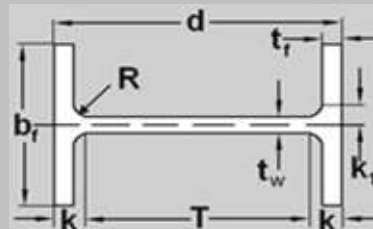
Nominal Shape Dimensions

W10

Comparable Metric Shapes
W250's

Prime Section Group	SECTION NAME	Comparable Metric Section	WEIGHT	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.							
									MSM			HSM				
	w	A	d	b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R		
in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in	in	in		
10x10	W10x112	W250x167	112	33.59	11.36	10.415	1.250	0.755	N/A	N/A	N/A	1.907	1.035	7.546	N/A	0.657
	W10x100	W250x149	100	30.05	11.10	10.340	1.120	0.680	N/A	N/A	N/A	1.777	0.997	7.546	N/A	0.657
	W10x88	W250x131	88	26.54	10.84	10.265	0.990	0.605	N/A	N/A	N/A	1.647	0.960	7.546	N/A	0.657
	W10x77	W250x115	77	23.29	10.60	10.190	0.870	0.530	N/A	N/A	N/A	1.527	0.922	7.546	N/A	0.657
	W10x68	W250x101	68	20.62	10.40	10.130	0.770	0.470	N/A	N/A	N/A	1.427	0.892	7.546	N/A	0.657
	W10x60	W250x89	60	18.29	10.22	10.080	0.680	0.420	N/A	N/A	N/A	1.337	0.867	7.546	N/A	0.657
	W10x54	W250x80	54	16.47	10.09	10.030	0.615	0.370	N/A	N/A	N/A	1.272	0.842	7.546	N/A	0.657
	W10x49	W250x73	49	15.07	9.98	10.000	0.560	0.340	N/A	N/A	N/A	1.217	0.827	7.546	N/A	0.657
10x8	W10x45	W250x67	45	13.91	10.10	8.020	0.620	0.350	1.277	0.832	7.546	1.277	0.832	7.546	0.657	0.657
	W10x39	W250x58	39	12.11	9.92	7.985	0.530	0.315	1.187	0.815	7.546	1.187	0.815	7.546	0.657	0.657
	W10x33	W250x49.1	33	10.35	9.73	7.960	0.435	0.290	1.092	0.802	7.546	1.092	0.802	7.546	0.657	0.657
10x5¾	W10x30	W250x44.8	30	9.31	10.47	5.810	0.510	0.300	0.982	0.622	8.506	0.910	0.550	8.650	0.472	0.400
	W10x26	W250x38.5	26	8.08	10.33	5.770	0.440	0.260	0.912	0.602	8.506	0.840	0.530	8.650	0.472	0.400
	W10x22	W250x32.7	22	6.96	10.17	5.750	0.360	0.240	0.832	0.592	8.506	0.760	0.520	8.650	0.472	0.400
10x4	W10x19	W250x28.4	19	5.85	10.24	4.020	0.395	0.250	0.867	0.597	8.506	0.795	0.525	8.650	0.472	0.400
	W10x17	W250x25.3	17	5.22	10.11	4.010	0.330	0.240	0.802	0.592	8.506	0.730	0.520	8.650	0.472	0.400
	W10x15	W250x22.3	15	4.64	9.99	4.000	0.270	0.230	0.742	0.587	8.506	0.670	0.515	8.650	0.472	0.400
	W10x12	W250x17.9	12	3.77	9.87	3.960	0.210	0.190	0.682	0.567	8.506	0.610	0.495	8.650	0.472	0.400





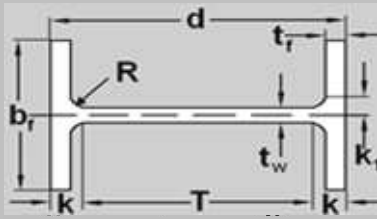
Nominal Shape Dimensions

W12

Comparable Metric Shapes
W310's

Prime Section Group	SECTION NAME	Comparable Metric Section	WEIGHT	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.						MSM	HSM
						b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in	in	in	in
12x12	W12x252	W310x375	252	74.10	15.41	13.005	2.250	1.395	N/A	N/A	N/A	3.037	1.485	9.336	N/A	0.787
	W12x230	W310x342	230	67.70	15.05	12.895	2.070	1.285	N/A	N/A	N/A	2.857	1.430	9.336	N/A	0.787
	W12x210	W310x313	210	61.80	14.71	12.790	1.900	1.180	N/A	N/A	N/A	2.687	1.377	9.336	N/A	0.787
	W12x190	W310x283	190	55.80	14.38	12.670	1.735	1.060	N/A	N/A	N/A	2.522	1.317	9.336	N/A	0.787
	W12x170	W310x253	170	50.00	14.03	12.570	1.560	0.960	N/A	N/A	N/A	2.347	1.267	9.336	N/A	0.787
	W12x152	W310x226	152	44.70	13.71	12.480	1.400	0.870	N/A	N/A	N/A	2.187	1.222	9.336	N/A	0.787
	W12x136	W310x202	136	39.90	13.41	12.400	1.250	0.790	N/A	N/A	N/A	2.037	1.182	9.336	N/A	0.787
	W12x120	W310x179	120	35.30	13.12	12.320	1.105	0.710	N/A	N/A	N/A	1.892	1.142	9.336	N/A	0.787
	W12x106	W310x158	106	31.20	12.89	12.220	0.990	0.610	N/A	N/A	N/A	1.777	1.092	9.336	N/A	0.787
	W12x96	W310x143	96	28.20	12.71	12.160	0.900	0.550	N/A	N/A	N/A	1.687	1.062	9.336	N/A	0.787
	W12x87	W310x129	87	25.60	12.53	12.125	0.810	0.515	N/A	N/A	N/A	1.597	1.045	9.336	N/A	0.787
	W12x79	W310x117	79	23.20	12.38	12.080	0.735	0.470	N/A	N/A	N/A	1.522	1.022	9.336	N/A	0.787
	W12x72	W310x107	72	21.10	12.25	12.040	0.670	0.430	N/A	N/A	N/A	1.457	1.002	9.336	N/A	0.787
	W12x65	W310x97	65	19.10	12.12	12.000	0.605	0.390	N/A	N/A	N/A	1.392	0.982	9.336	N/A	0.787
12x10	W12x58	W310x86	58	17.00	12.19	10.010	0.640	0.360	N/A	N/A	N/A	1.427	0.967	9.336	N/A	0.787
	W12x53	W310x79	53	15.60	12.06	9.995	0.575	0.345	N/A	N/A	N/A	1.362	0.960	9.336	N/A	0.787
12x8	W12x50	W310x74	50	14.70	12.19	8.080	0.640	0.370	1.297	0.842	9.596	1.427	0.972	9.336	0.657	0.787
	W12x45	W310x67	45	13.20	12.06	8.045	0.575	0.335	1.232	0.825	9.596	1.362	0.955	9.336	0.657	0.787
	W12x40	W310x60	40	11.80	11.94	8.005	0.515	0.295	1.172	0.805	9.596	1.302	0.935	9.336	0.657	0.787
12x6.5	W12x35	W310x52	35	10.30	12.50	6.560	0.520	0.300	0.992	0.622	10.516	0.920	0.550	10.660	0.472	0.400
	W12x30	W310x44.5	30	8.79	12.34	6.520	0.440	0.260	0.912	0.602	10.516	0.840	0.530	10.660	0.472	0.400
	W12x26	W310x38.7	26	7.65	12.22	6.490	0.380	0.230	0.852	0.587	10.516	0.780	0.515	10.660	0.472	0.400
12x4	W12x22	W310x32.7	22	6.48	12.31	4.030	0.425	0.260	0.897	0.602	10.516	0.825	0.530	10.660	0.472	0.400
	W12x19	W310x28.3	19	5.57	12.16	4.005	0.350	0.235	0.822	0.590	10.516	0.750	0.518	10.660	0.472	0.400
	W12x16	W310x23.8	16	4.71	11.99	3.990	0.265	0.220	0.737	0.582	10.516	0.665	0.510	10.660	0.472	0.400
	W12x14	W310x21.0	14	4.16	11.91	3.970	0.225	0.200	0.697	0.572	10.516	0.625	0.500	10.660	0.472	0.400





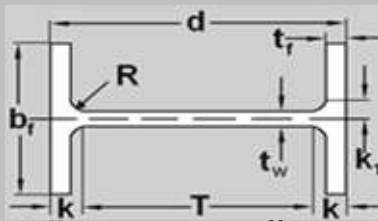
Nominal Shape Dimensions

W14

Comparable Metric Shapes
W360's

Prime Section Group	SECTION NAME	Comparable Metric Section	WEIGHT	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.						MSM	HSM
						b _f	t _f	t _w							R	R
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in	in	in	in
14x16	W14x283	W360x421	283	83.30	16.74	16.110	2.070	1.290	N/A	N/A	N/A	2.857	1.432	11.026	N/A	0.787
	W14x257	W360x382	257	75.60	16.38	15.995	1.890	1.175	N/A	N/A	N/A	2.677	1.375	11.026	N/A	0.787
	W14x233	W360x247	233	68.50	16.04	15.890	1.720	1.070	N/A	N/A	N/A	2.507	1.322	11.026	N/A	0.787
	W14x211	W360x314	211	62.00	15.72	15.800	1.560	0.980	N/A	N/A	N/A	2.347	1.277	11.026	N/A	0.787
	W14x193	W360x287	193	56.80	15.48	15.710	1.440	0.890	N/A	N/A	N/A	2.227	1.232	11.026	N/A	0.787
	W14x176	W360x262	176	51.80	15.22	15.650	1.310	0.830	N/A	N/A	N/A	2.097	1.202	11.026	N/A	0.787
	W14x159	W360x237	159	46.70	14.98	15.565	1.190	0.745	N/A	N/A	N/A	1.977	1.160	11.026	N/A	0.787
	W14x145	W360x216	145	42.70	14.78	15.500	1.090	0.680	N/A	N/A	N/A	1.877	1.127	11.026	N/A	0.787
14x14½	W14x132	W360x196	132	38.80	14.66	14.725	1.030	0.645	N/A	N/A	N/A	1.817	1.110	11.026	N/A	0.787
	W14x120	W360x179	120	35.30	14.48	14.670	0.940	0.590	N/A	N/A	N/A	1.727	1.082	11.026	N/A	0.787
	W14x109	W360x162	109	32.00	14.32	14.605	0.860	0.525	N/A	N/A	N/A	1.647	1.050	11.026	N/A	0.787
	W14x99	W360x147	99	29.10	14.16	14.565	0.780	0.485	N/A	N/A	N/A	1.567	1.030	11.026	N/A	0.787
	W14x90	W360x134	90	26.50	14.02	14.520	0.710	0.440	N/A	N/A	N/A	1.497	1.007	11.026	N/A	0.787
14x10	W14x82	W360x122	82	24.10	14.31	10.130	0.855	0.510	N/A	N/A	N/A	1.642	1.042	11.026	N/A	0.787
	W14x74	W360x110	74	21.80	14.17	10.070	0.785	0.450	N/A	N/A	N/A	1.572	1.012	11.026	N/A	0.787
	W14x68	W360x101	68	20.00	14.04	10.035	0.720	0.415	N/A	N/A	N/A	1.507	0.995	11.026	N/A	0.787
	W14x61	W360x91	61	17.90	13.89	9.995	0.645	0.375	N/A	N/A	N/A	1.432	0.975	11.026	N/A	0.787
14x8	W14x53	W360x79	53	15.60	13.92	8.060	0.660	0.370	1.317	0.842	11.286	1.447	0.972	11.026	0.657	0.787
	W14x48	W360x72	48	14.10	13.79	8.030	0.595	0.340	1.252	0.827	11.286	1.382	0.957	11.026	0.657	0.787
	W14x43	W360x64	43	12.60	13.66	7.995	0.530	0.305	1.187	0.810	11.286	1.317	0.940	11.026	0.657	0.787
14x6¾	W14x38	W360x58	38	11.20	14.10	6.770	0.515	0.310	1.172	0.812	11.756	0.915	0.555	12.270	0.657	0.400
	W14x34	W360x51	34	10.00	13.98	6.745	0.455	0.285	1.112	0.800	11.756	0.855	0.543	12.270	0.657	0.400
	W14x30	W360x44.6	30	8.85	13.84	6.730	0.385	0.270	1.042	0.792	11.756	0.785	0.535	12.270	0.657	0.400
14x5	W14x26	W360x39	26	7.69	13.91	5.025	0.420	0.255	1.077	0.785	11.756	0.820	0.528	12.270	0.657	0.400
	W14x22	W360x32.9	22	6.49	13.74	5.000	0.335	0.230	0.992	0.772	11.756	0.735	0.515	12.270	0.657	0.400





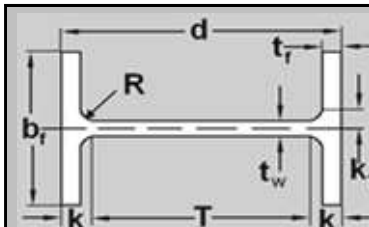
Nominal Shape Dimensions

W16

Comparable Metric Shapes
W410's

Prime Section Group	SECTION NAME	Comparable Metric Section	WEIGHT	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.						MSM	HSM
									MSM			HSM			MSM	HSM
			w	A	d	b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in	in	in	in
16x10¼	W16x100	W410x149	100	29.40	16.97	10.425	0.985	0.585	N/A	N/A	N/A	1.654	0.962	13.662	N/A	0.669
	W16x89	W410x132	89	26.20	16.75	10.365	0.875	0.525	N/A	N/A	N/A	1.544	0.932	13.662	N/A	0.669
	W16x77	W410x114	77	22.60	16.52	10.295	0.760	0.455	N/A	N/A	N/A	1.429	0.897	13.662	N/A	0.669
	W16x67	W410x100	67	19.70	16.33	10.235	0.665	0.395	N/A	N/A	N/A	1.334	0.867	13.662	N/A	0.669
16x7	W16x57	W410x85	57	16.80	16.43	7.120	0.715	0.430	1.372	0.872	13.686	1.384	0.884	13.662	0.657	0.669
	W16x50	W410x75	50	14.70	16.26	7.070	0.630	0.380	1.287	0.847	13.686	1.299	0.859	13.662	0.657	0.669
	W16x45	W410x67	45	13.30	16.13	7.035	0.565	0.345	1.222	0.830	13.686	1.234	0.842	13.662	0.657	0.669
	W16x40	W410x60	40	11.80	16.01	6.995	0.505	0.305	1.162	0.810	13.686	1.174	0.822	13.662	0.657	0.669
	W16x36	W410x53	36	10.60	15.86	6.985	0.430	0.295	1.087	0.805	13.686	1.099	0.817	13.662	0.657	0.669
16x5½	W16x31	W410x46.1	31	9.12	15.88	5.525	0.440	0.275	1.097	0.795	13.686	1.109	0.807	13.662	0.657	0.669
	W16x26	W410x38.8	26	7.68	15.69	5.500	0.345	0.250	1.002	0.782	13.686	1.014	0.794	13.662	0.657	0.669





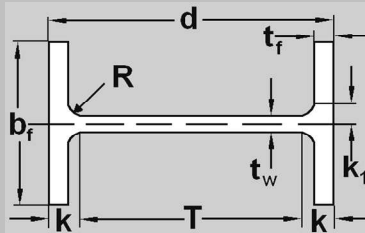
Nominal Shape Dimensions

W18

Comparable Metric Shapes
W460's

Prime Section Group	SECTION NAME	Comparable Metric Section	WEIGHT	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.						MSM	HSM
						b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in	in	in	in
18x11	W18x234	W460x349	234	68.80	21.06	11.650	2.110	1.160	N/A	N/A	N/A	2.779	1.249	15.502	N/A	0.669
	W18x211	W460x315	211	62.10	20.67	11.555	1.910	1.060	N/A	N/A	N/A	2.579	1.199	15.512	N/A	0.669
	W18x192	W460x286	192	56.40	20.35	11.455	1.750	0.960	N/A	N/A	N/A	2.419	1.149	15.512	N/A	0.669
	W18x175	W460x260	175	51.30	20.04	11.375	1.590	0.890	N/A	N/A	N/A	2.259	1.114	15.522	N/A	0.669
	W18x158	W460x235	158	46.30	19.72	11.300	1.440	0.810	N/A	N/A	N/A	2.109	1.074	15.502	N/A	0.669
	W18x143	W460x213	143	42.10	19.49	11.220	1.320	0.730	N/A	N/A	N/A	1.989	1.034	15.512	N/A	0.669
	W18x130	W460x193	130	38.20	19.25	11.160	1.200	0.670	N/A	N/A	N/A	1.869	1.004	15.512	N/A	0.669
	W18x119	W460x177	119	35.10	18.97	11.265	1.060	0.655	N/A	N/A	N/A	1.729	0.997	15.512	N/A	0.669
	W18x106	W460x158	106	31.10	18.73	11.200	0.940	0.590	N/A	N/A	N/A	1.609	0.964	15.512	N/A	0.669
	W18x97	W460x144	97	28.50	18.59	11.145	0.870	0.535	N/A	N/A	N/A	1.539	0.937	15.512	N/A	0.669
	W18x86	W460x128	86	25.30	18.39	11.090	0.770	0.480	N/A	N/A	N/A	1.439	0.909	15.512	N/A	0.669
	W18x76	W460x113	76	22.30	18.21	11.035	0.680	0.425	N/A	N/A	N/A	1.349	0.882	15.512	N/A	0.669
18x7½	W18x71	W460x106	71	20.80	18.47	7.635	0.810	0.495	1.467	0.905	15.536	1.479	0.917	15.512	0.657	0.669
	W18x65	W460x97	65	19.10	18.35	7.590	0.750	0.450	1.407	0.882	15.536	1.419	0.894	15.512	0.657	0.669
	W18x60	W460x89	60	17.60	18.24	7.555	0.695	0.415	1.352	0.865	15.536	1.364	0.877	15.512	0.657	0.669
	W18x55	W460x82	55	16.20	18.11	7.530	0.630	0.390	1.287	0.852	15.536	1.299	0.864	15.512	0.657	0.669
	W18x50	W460x74	50	14.70	17.99	7.495	0.570	0.355	1.227	0.835	15.536	1.239	0.847	15.512	0.657	0.669
18x6	W18x46	W460x68	46	13.50	18.06	6.060	0.605	0.360	1.262	0.837	15.536	1.274	0.849	15.512	0.657	0.669
	W18x40	W460x60	40	11.80	17.90	6.015	0.525	0.315	1.182	0.815	15.536	1.194	0.827	15.512	0.657	0.669
	W18x35	W460x52	35	10.30	17.70	6.000	0.425	0.300	1.082	0.807	15.536	1.094	0.819	15.512	0.657	0.669





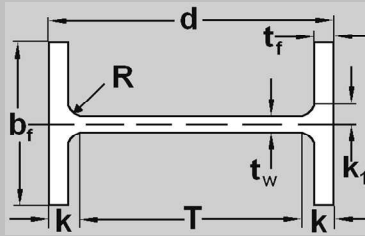
Nominal Shape Dimensions

W21

Comparable Metric Shapes
W530's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
						b_f	t_f		k	k_1	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
21x12¼	W21x223	W530x332	223	65.60	23.35	12.675	1.790	1.000	2.490	1.200	18.370	0.700	11/16
	W21x201	W530x300	201	59.20	23.03	12.575	1.630	0.910	2.330	1.155	18.370	0.700	11/16
	W21x182	W530x272	182	53.70	22.72	12.500	1.480	0.830	2.180	1.115	18.360	0.700	11/16
	W21x166	W530x248	166	48.90	22.48	12.420	1.360	0.750	2.060	1.075	18.360	0.700	11/16
	W21x147	W530x219	147	43.20	22.06	12.510	1.150	0.720	1.850	1.060	18.360	0.700	11/16
	W21x132	W530x196	132	38.80	21.83	12.440	1.035	0.650	1.735	1.025	18.360	0.700	11/16
	W21x122	W530x182	122	35.90	21.68	12.390	0.960	0.600	1.660	1.000	18.360	0.700	11/16
	W21x111	W530x165	111	32.70	21.51	12.340	0.875	0.550	1.575	0.975	18.360	0.700	11/16
	W21x101	W530x150	101	29.80	21.36	12.290	0.800	0.500	1.500	0.950	18.360	0.700	11/16
21x8¼	W21x93	W530x138	93	27.30	21.62	8.420	0.930	0.580	1.630	0.990	18.360	0.700	11/16
	W21x83	W530x123	83	24.30	21.43	8.355	0.835	0.515	1.535	0.958	18.360	0.700	11/16
	W21x73	W530x109	73	21.50	21.24	8.295	0.740	0.455	1.440	0.928	18.360	0.700	11/16
	W21x68	W530x101	68	20.00	21.13	8.270	0.685	0.430	1.385	0.915	18.360	0.700	11/16
	W21x62	W530x92	62	18.30	20.99	8.240	0.615	0.400	1.315	0.900	18.360	0.700	11/16
	W21x55*	W530x82	55	16.20	20.80	8.220	0.522	0.375	1.222	0.888	18.356	0.700	11/16
	W21x48*	W530x72	48	14.10	20.62	8.140	0.430	0.350	1.130	0.875	18.360	0.700	11/16
21x6½	W21x57	W530x85	57	16.70	21.06	6.555	0.650	0.405	1.350	0.903	18.360	0.700	11/16
	W21x50	W530x74	50	14.70	20.83	6.530	0.535	0.380	1.235	0.890	18.360	0.700	11/16
	W21x44	W530x66	44	13.00	20.66	6.500	0.450	0.350	1.150	0.875	18.360	0.700	11/16
	* Canadian Size												





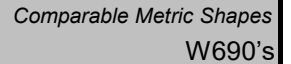
Nominal Shape Dimensions

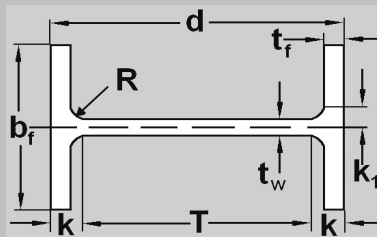
W24

Comparable Metric Shapes
W610's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
						b_f	t_f		k	k_1	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
24x12 ³ / ₄	W24x229	W610x341	229	67.20	26.02	13.110	1.730	0.960	2.430	1.180	21.160	0.700	11/16
	W24x207	W610x307	207	60.70	25.71	13.010	1.570	0.870	2.270	1.135	21.170	0.700	11/16
	W24x192	W610x285	192	56.30	25.47	12.950	1.460	0.810	2.160	1.105	21.150	0.700	11/16
	W24x176	W610x262	176	51.70	25.24	12.890	1.340	0.750	2.040	1.075	21.160	0.700	11/16
	W24x162	W610x241	162	47.70	25.00	12.955	1.220	0.705	1.920	1.053	21.160	0.700	11/16
	W24x146	W610x217	146	43.00	24.74	12.900	1.090	0.650	1.790	1.025	21.160	0.700	11/16
	W24x131	W610x195	131	38.50	24.48	12.855	0.960	0.605	1.660	1.003	21.160	0.700	11/16
	W24x117	W610x174	117	34.40	24.26	12.800	0.850	0.550	1.550	0.975	21.160	0.700	11/16
	W24x104	W610x155	104	30.60	24.06	12.750	0.750	0.500	1.450	0.950	21.160	0.700	11/16
24x9	W24x103	W610x153	103	30.30	24.53	9.000	0.980	0.550	1.680	0.975	21.170	0.700	11/16
	W24x94	W610x140	94	27.70	24.31	9.065	0.875	0.515	1.575	0.958	21.160	0.700	11/16
	W24x84	W610x125	84	24.70	24.10	9.020	0.770	0.470	1.470	0.935	21.160	0.700	11/16
	W24x76	W610x113	76	22.40	23.92	8.990	0.680	0.440	1.380	0.920	21.160	0.700	11/16
	W24x68	W610x101	68	20.10	23.73	8.965	0.585	0.415	1.285	0.908	21.160	0.700	11/16
24x7	W24x62	W610x92	62	18.20	23.74	7.040	0.590	0.430	1.290	0.915	21.160	0.700	11/16
	W24x55	W610x82	55	16.20	23.57	7.005	0.505	0.395	1.205	0.898	21.160	0.700	11/16





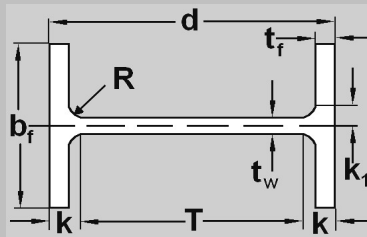


Nominal Shape Dimensions

W33

Comparable Metric Shapes
W840's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
			w	A	d	b _f	t _f	t _w	k	k ₁	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
33x11½	W33x169	W840x251	169	49.50	33.82	11.500	1.220	0.670	1.920	1.035	29.980	0.700	11/16
	W33x152	W840x226	152	44.70	33.49	11.565	1.055	0.635	1.755	1.018	29.980	0.700	11/16
	W33x141	W840x210	141	41.60	33.30	11.535	0.960	0.605	1.660	1.003	29.980	0.700	11/16
	W33x130	W840x193	130	38.30	33.09	11.510	0.855	0.580	1.555	0.990	29.980	0.700	11/16
	W33x118	W840x176	118	34.70	32.86	11.480	0.740	0.550	1.440	0.975	29.980	0.700	11/16



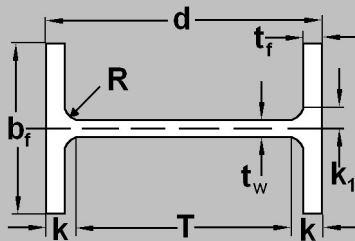
Nominal Shape Dimensions

W36

Comparable Metric Shapes
W920's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
			w	A	d	b _f	t _f	t _w	k	k ₁	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
36x12	W36x256	W920x381	256	75.40	37.43	12.215	1.730	0.960	2.480	1.230	32.470	0.750	3/4
	W36x232	W920x345	232	68.10	37.12	12.120	1.570	0.870	2.320	1.185	32.480	0.750	3/4
	W36x210	W920x313	210	61.80	36.69	12.180	1.360	0.830	2.110	1.165	32.470	0.750	3/4
	W36x194	W920x289	194	57.00	36.49	12.115	1.260	0.765	2.010	1.133	32.470	0.750	3/4
	W36x182	W920x271	182	53.60	36.33	12.075	1.180	0.725	1.930	1.113	32.470	0.750	3/4
	W36x170	W920x253	170	50.00	36.17	12.030	1.100	0.680	1.850	1.090	32.470	0.750	3/4
	W36x160	W920x238	160	47.00	36.01	12.000	1.020	0.650	1.770	1.075	32.470	0.750	3/4
	W36x150	W920x223	150	44.20	35.85	11.975	0.940	0.625	1.690	1.063	32.470	0.750	3/4
	W36x135	W920x201	135	39.70	35.55	11.950	0.790	0.600	1.540	1.050	32.470	0.750	3/4



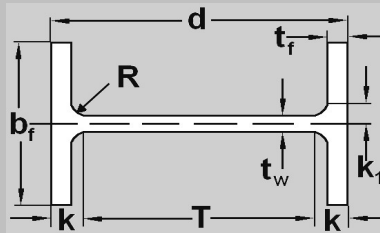


Imperial Sections

H-Pile

Inch-Pound Sizes		Comparable Metric Sizes			Inch-Pound Sizes		Comparable Metric Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(in x in)	(lbs/ft)	(mm x mm)	(kg/m)		(in x in)	(lbs/ft)	(mm x mm)	(kg/m)
8 x 8	36	200 x 200	53		12 x 12	53 - 117	310 x 310	79 - 174
10 x 10	42 - 57	250 x 250	62 - 85		14 x 14 ^{1/4}	73 - 117	360 x 370	108 - 174



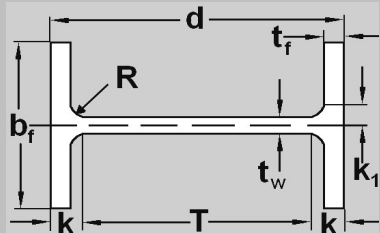


Nominal Shape Dimensions

HP8

Comparable Metric Shapes
HP200's

Prime Section Group	SECTION NAME	Comparable Metric Section	WEIGHT	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.							
						b _f	t _f	t _w	MSM			HSM			MSM	HSM
			w	A	d	b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in	in	in	in
8x8	HP8x36	HP200x53	36	10.60	8.02	8.155	0.445	0.445	0.917	0.695	6.186	0.845	0.623	6.330	0.472	0.400



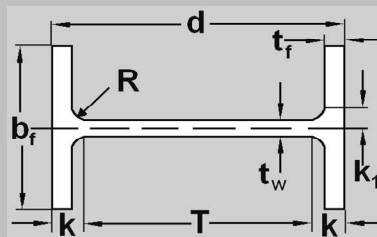
Nominal Shape Dimensions

HP10

Comparable Metric Shapes
HP250's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness					R	
			w	A	d	b _f	t _f	t _w	k	k ₁	T	in	in
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
10x10	HP10x57	HP250x85	57	16.80	9.99	10.225	0.565	0.565	1.222	0.940	7.546	0.657	2/3
	HP10x42	HP250x62	42	12.40	9.70	10.075	0.420	0.415	1.077	0.865	7.546	0.657	2/3





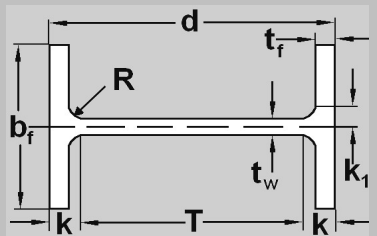
Nominal Shape Dimensions

HP12

Comparable Metric Shapes
HP310's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
			w	A	d	b _f	t _f	t _w	k	k ₁	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
12x12	HP12x117*	HP310x174	117	35.32	12.77	12.870	0.930	0.930	1.717	1.252	9.336	0.787	4/5
	HP12x102*	HP310x153	102	30.88	12.55	12.620	0.820	0.820	1.607	1.197	9.336	0.787	4/5
	HP12x89*	HP310x132	89	26.85	12.35	12.330	0.720	0.720	1.507	1.147	9.336	0.787	4/5
	HP12x84	HP310x125	84	24.60	12.28	12.295	0.685	0.685	1.472	1.130	9.336	0.787	4/5
	HP12x74	HP310x110	74	21.80	12.13	12.215	0.610	0.605	1.397	1.090	9.336	0.787	4/5
	HP12x63	HP310x93	63	18.40	11.94	12.125	0.515	0.515	1.302	1.045	9.336	0.787	4/5
	HP12x53	HP310x79	53	15.50	11.78	12.045	0.435	0.435	1.222	1.005	9.336	0.787	4/5

* Canadian Sizes



Nominal Shape Dimensions

HP14

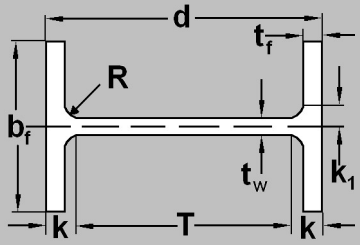
Comparable Metric Shapes
HP360's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
			w	A	d	b _f	t _f	t _w	k	k ₁	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
14x14½	HP14x117	HP360x174	117	34.40	14.21	14.885	0.805	0.805	1.592	1.190	11.026	0.787	4/5
	HP14x102	HP360x152	102	30.00	14.01	14.785	0.705	0.705	1.492	1.140	11.026	0.787	4/5
	HP14x89	HP360x132	89	26.10	13.83	14.695	0.615	0.615	1.402	1.095	11.026	0.787	4/5
	HP14x73	HP360x108	73	21.40	13.61	14.585	0.505	0.505	1.292	1.040	11.026	0.787	4/5



Information Subject to change without prior notification

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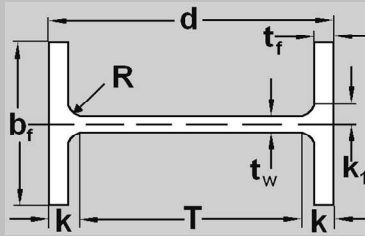


Imperial Sections

M Shapes

Inch - Pound Sizes		Comparable Metric Sizes			Inch - Pound Sizes		Comparable Metric Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(in x in)	(lbs/ft)	(mm x mm)	(kg/m)		(in x in)	(lbs/ft)	(mm x mm)	(kg/m)
12.5 x 3.75	12.4	318 x 95	18.5		12 x 3.065	10.8 – 11.8	310 x 78	16.1 – 17.6
10 x 2.690	8 – 9	250 x 68	11.9 – 13.4		12 x 3.25	10	310 x 83	14.9
8 x 2.281	6.2 – 6.5	200 x 58	9.2 – 9.7		10 x 2.688	7.5	250 x 68	11.2



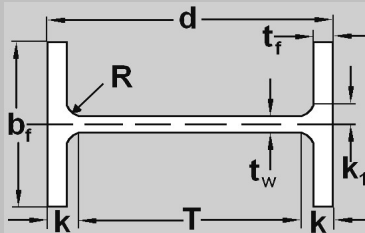


Nominal Shape Dimensions

M8

Comparable Metric Shapes
M200's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
						b_f	t_f		k	k_1	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
8x2.281	M8x6.2	M200x9.2	6.2	1.81	8.00	2.281	0.177	0.129	0.477	0.365	7.046	0.300	3/10
	M8x6.5	M200x9.7	6.5	1.92	8.00	2.281	0.189	0.135	0.489	0.368	7.022	0.300	3/10



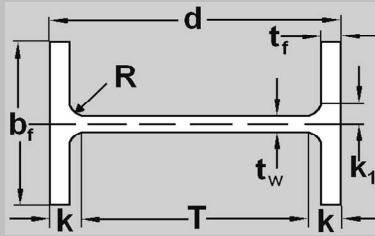
Nominal Shape Dimensions

M10

Comparable Metric Shapes
M250's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
						b_f	t_f		k	k_1	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
10x2.690	M10x8.0	M250x11.9	8	2.35	9.95	2.690	0.182	0.141	0.482	0.371	8.986	0.300	3/10
	M10x9.0	M250x13.4	9	2.65	10.00	2.690	0.206	0.157	0.506	0.379	8.988	0.300	3/10
10x2.688	M10x7.5	M250x11.2	7.5	2.21	9.99	2.688	0.173	0.130	0.473	0.365	9.044	0.300	3/10





Nominal Shape Dimensions

M12

Comparable Metric Shapes
M310's

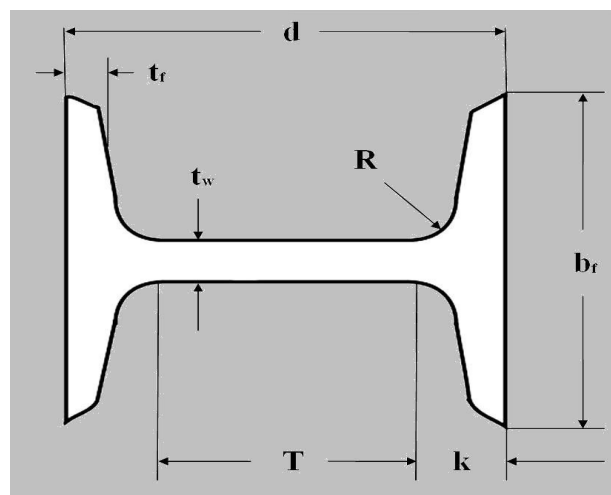
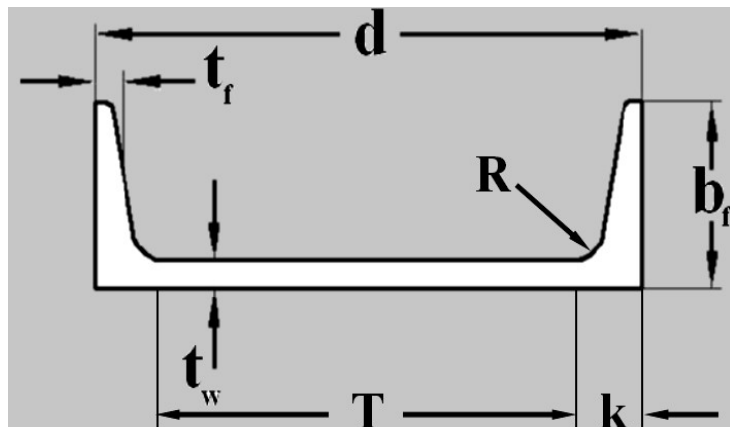
Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius	
						Width	Thickness						
						b_f	t_f		k	k_1	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in	in
12.5x3.750	M12.5x12.4	M318x18.5	12.4	3.66	12.53	3.750	0.228	0.155	0.528	0.378	11.478	0.300	3/10
12x3	M12x11.8	M310x17.6	11.8	3.47	12.00	3.065	0.225	0.177	0.525	0.389	10.950	0.300	3/10
	M12x10.8	M310x16.1	10.8	3.18	11.97	3.065	0.210	0.160	0.510	0.380	10.950	0.300	3/10
	M12x10	M310x14.9	10	2.94	11.97	3.250	0.180	0.149	0.480	0.375	11.010	0.300	3/10



Shape Dimensions

Nomenclature & Permissible Variations

C, MC & S



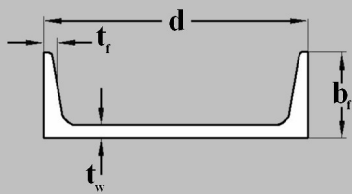
Symbol	Common Name	Units		Permissible Variations
		Imperial	Metric	
A	Cross-sectional Area	in ²	mm ²	★ Calculated from SDI shape – information only
b_f	Flange Width	in	mm	As per latest edition of ASTM A6/A6M
d	Flange Depth	in	mm	As per latest edition of ASTM A6/A6M
k	'k' – line	in	mm	Detailing dimension – information only
L	Length	ft, in	m	★ Length cutting tolerance as per current SDI price page
R	Fillet Radius	in	mm	Mill practice – information only
T	'Clear" Web	in	mm	Detailing dimension – information only
t_f	Flange Thickness	in	mm	As per latest edition of ASTM A6/A6M
t_w	Web Thickness	in	mm	As per latest edition of ASTM A6/A6M
w	Weight / Mass	lbs/ft	kg/m	As per latest edition of ASTM A6/A6M
★ Denotes deviation from ASTM A6/A6M				

The permissible dimensional variations of structural long products manufactured by Steel Dynamics Inc, Structural and Rail Division, conform to the latest edition of ASTM A6/A6M. Cross-sectional areas in the following tables are calculated from nominal dimensions, and include the nominal fillet radius employed by Steel Dynamics Inc. Consequently, the tabulated values may slightly deviate from those published in ASTM A6/A6M.

Nominal detailing dimensions are provided as a courtesy. Permissible dimensional variations, and rolling factors (such as roll wear), may result in supplied shapes differing from the tabulated values. Consequently, allowances should be made for proper fitting and connections.

Piece length tolerance deviates from ASTM A6/A6M. Please consult the current price page for mill practice.



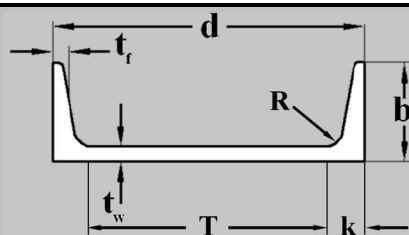


Imperial Sections

C-Shaped Channels

Inch - Pound Sizes		Comparable Metric Sizes			Inch - Pound Sizes		Comparable Metric Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(in x in)	(lbs/ft)	(mm x mm)	(kg/m)		(in x in)	(lbs/ft)	(mm x mm)	(kg/m)
8 x 2.5	11.5 -18.75	200 x 63.5	17.1 – 27.9		12 x 3	20.7 – 30	310 x 75	30.8 – 45
10 x 2.75	15.3 - 30	250 x 70	22.8 - 45		15 x 3.5	33.9 - 50	380 x 90	50.4 - 74



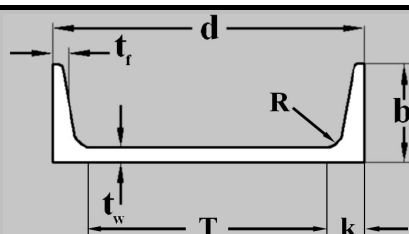


Nominal Shape Dimensions

C8

Comparable Metric Shapes
C200's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness		k	T	R	
			w	A	d	b _f	t _f	t _w	in	in	in	in
8x2.5	C8x18.75	C200x27.9	18.75	5.51	8.00	2.527	0.390	0.487	0.803	6.394	0.315	5/16
	C8x13.75	C200x20.5	13.75	4.04	8.00	2.343	0.390	0.303	0.803	6.394	0.315	5/16
	C8x11.5	C200x17.1	11.5	3.38	8.00	2.260	0.390	0.220	0.803	6.394	0.315	5/16



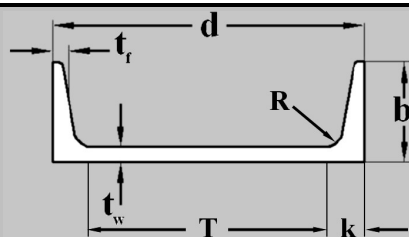
Nominal Shape Dimensions

C10

Comparable Metric Shapes
C250's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness		k	T	R	
			w	A	d	b _f	t _f	t _w	in	in	in	in
10x2.75	C10x30	C250x45	30	8.82	10.00	3.033	0.436	0.673	1.018	7.965	0.472	1/2
	C10x25	C250x37	25	7.35	10.00	2.886	0.436	0.526	1.018	7.965	0.472	1/2
	C10x20	C250x30	20	5.88	10.00	2.739	0.436	0.379	1.018	7.965	0.472	1/2
	C10x15.3	C250x22.8	15.3	4.49	10.00	2.600	0.436	0.240	1.018	7.965	0.472	1/2



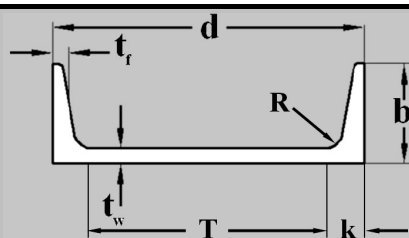


Nominal Shape Dimensions

C12

Comparable Metric Shapes
C310's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness					
			w	A	d	b _f	t _f		t _w	k	T	R
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in
12x3	C12x30	C310x45	30	8.82	12.00	3.170	0.501	0.510	1.094	9.812	0.472	1/2
	C12x25	C310x37	25	7.35	12.00	3.047	0.501	0.387	1.094	9.812	0.472	1/2
	C12x20.7	C310x30.8	20.7	6.09	12.00	2.942	0.501	0.282	1.094	9.812	0.472	1/2



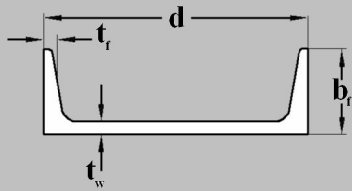
Nominal Shape Dimensions

C15

Comparable Metric Shapes
C380's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness					
			w	A	d	b _f	t _f		t _w	k	T	R
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in
15x3.5	C15x50	C380x74	50	14.70	15.00	3.716	0.650	0.716	1.315	12.370	0.551	4/7
	C15x40	C380x60	40	11.80	15.00	3.520	0.650	0.520	1.315	12.370	0.551	4/7
	C15x33.9	C380x50.4	33.9	9.96	15.00	3.400	0.650	0.400	1.315	12.370	0.551	4/7



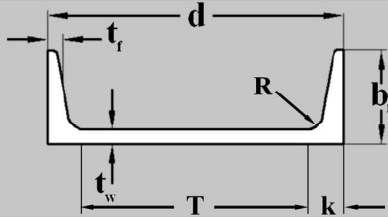


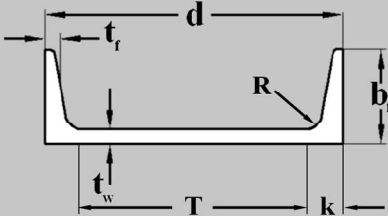
Imperial Sections

MC-Shaped Channels

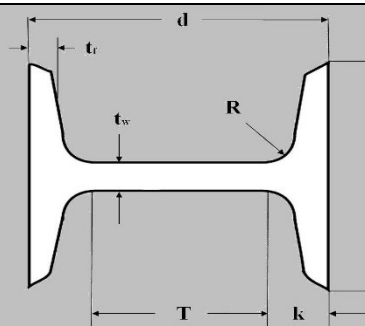
Inch - Pound Sizes		Comparable Metric Sizes			Inch - Pound Sizes		Comparable Metric Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(in x in)	(lbs/ft)	(mm x mm)	(kg/m)		(in x in)	(lbs/ft)	(mm x mm)	(kg/m)
10 x 1	6.5 - 8.4	250 x 25	9.7 - 12.5		10 x 3	22 - 25	250 x 76	33 - 37
12 x 2	10.6 - 14.3	310 x 51	15.8 - 21.3					



			<h1>Nominal Shape Dimensions</h1>			<h1>MC10</h1>			<i>Comparable Metric Shapes</i> C250's			
Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness					
			w	A	d	b _f	t _f	t _w	k	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in
10x3	MC10x25	MC250x37	25	7.35	10.00	3.405	0.575	0.380	0.507	8.986	0.256	1/4
10x3	MC10x22	MC250x33	22	6.45	10.00	3.315	0.575	0.290	0.507	8.986	0.256	1/4
10x1	MC10x8.4	MC250x12.5	8.4	2.46	10.00	1.500	0.280	0.170	0.507	8.986	0.256	1/4
10x1	MC10x6.5	MC250x9.7	6.5	1.91	10.00	1.170	0.202	0.152	0.507	8.986	0.256	1/4

			<h1>Nominal Shape Dimensions</h1>			<h1>MC12</h1>			<i>Comparable Metric Shapes</i> C310's			
Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness					
			w	A	d	b _f	t _f	t _w	k	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in
12x2	MC12x14.3	MC310x21.3	14.3	4.19	12.00	2.125	0.313	0.250	0.616	10.768	0.315	5/16
12x2	MC12x10.6	MC310x15.8	10.6	3.10	12.00	1.500	0.309	0.190	0.616	10.768	0.315	5/16



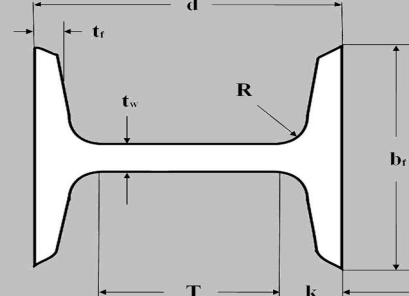


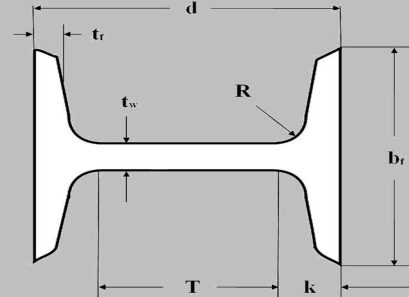
Imperial Sections

S-Shapes

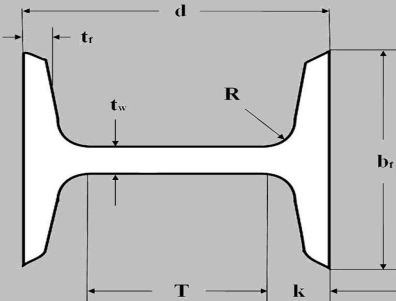
Inch - Pound Sizes		Comparable Metric Sizes			Inch - Pound Sizes		Comparable Metric Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(in x in)	(lbs/ft)	(mm x mm)	(kg/m)		(in x in)	(lbs/ft)	(mm x mm)	(kg/m)
12 x 5	31.8 – 35	310 x 129	47.3 – 52		18 x 6	54.7 – 70	460 x 152	81.4 – 104
12 x 5.5	40.8 – 50	310 x 139	60.7 – 74		20 x 6.25	66 – 75	510 x 159	98 – 112
15 x 5.5	42.9 – 50	380 x 139	64 – 74		20 x 7	86 – 96	510 x 178	128 – 143
					24 x 7	80 – 100	610 x 178	119 – 149
					24 x 8	106 – 121	610 x 203	158 – 180



 <div> <h1>Nominal Shape Dimensions</h1> <h1>S12</h1> <p>Comparable Metric Shapes S310's</p> </div>												
Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness					
			w	A	d	b _f	t _f	t _w	k	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in
12 x 5.5	S12 x 50	S310 x 74	50	14.70	12.00	5.477	0.659	0.687	1.288	9.425	0.559	5/9
	S12 x 40.8	S310 x 60.7	40.8	12.00	12.00	5.252	0.659	0.462	1.288	9.425	0.559	5/9
12 x 5	S12 x 35	S310 x 52	35	10.30	12.00	5.078	0.544	0.428	1.055	9.891	0.448	4/9
	S12 x 31.8	S310 x 47.3	31.8	9.35	12.00	5.000	0.544	0.350	1.055	9.891	0.448	4/9

 <div> <h1>Nominal Shape Dimensions</h1> <h1>S15</h1> <p>Comparable Metric Shapes S380's</p> </div>												
Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness					
			w	A	d	b _f	t _f	t _w	k	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in
15 x 5.5	S15 x 50	S380 x 74	50	14.70	15.00	5.640	0.622	0.550	1.172	12.657	0.512	1/2
	S15 x 42.9	S380 x 64	42.9	12.60	15.00	5.501	0.622	0.411	1.172	12.657	0.512	1/2



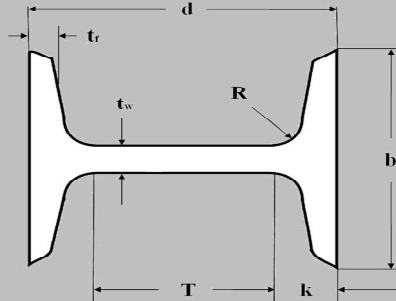


Nominal Shape Dimensions

S18

Comparable Metric Shapes
S460's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness					
			w	A	d	b _f	t _f	t _w	k	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	
18 x 6	S18 x 70	S460 x 104	70	20.60	18.00	6.251	0.691	0.711	1.360	15.280	0.559	5/9
	S18 x 54.7	S460 x 81.4	54.7	16.10	18.00	6.001	0.691	0.461	1.360	15.280	0.559	5/9



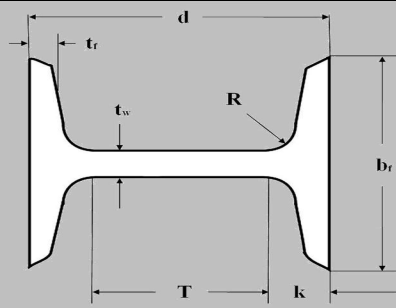
Nominal Shape Dimensions

S20

Comparable Metric Shapes
S510's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius			
			w	A	d	Width	Thickness							
			in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	b _f	t _f	t _w	k	T	in	in
								in	in	in	in	in	in	in
20 x 6.25	S20 x 75	S510 x 112	75	22.00	20.00	6.385	0.795	0.635	1.504	16.993	0.598	3/5		
	S20 x 66	S510 x 98	66	19.40	20.00	6.255	0.795	0.505	1.504	16.993	0.598	3/5		
20 x 7	S20 x 96	S510 x 143	96	28.20	20.30	7.200	0.920	0.800	1.681	16.938	0.598	3/5		
	S20 x 86	S510 x 128	86	25.30	20.30	7.060	0.920	0.660	1.681	16.938	0.598	3/5		





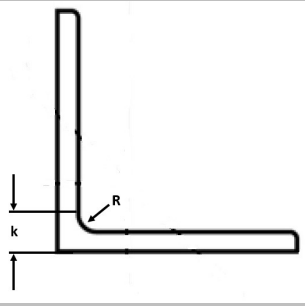
Nominal Shape Dimensions

S24

Comparable Metric Shapes
S610's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius	
						Width	Thickness					
						b_f	t_f		k	T	R	
	in x lbs/ft	mm x kg/m	lbs/ft	in ²	in	in	in	in	in	in	in	in
24 x 7	S24 x 100	S610 x 149	100	29.30	24.00	7.245	0.870	0.745	1.590	20.820	0.598	3/5
	S24 x 90	S610 x 134	90	26.50	24.00	7.125	0.870	0.625	1.590	20.820	0.598	3/5
	S24 x 80	S610 x 119	80	23.50	24.00	7.000	0.870	0.500	1.590	20.820	0.598	3/5
24 x 8	S24 x121	S610 x 180	121	35.60	24.50	8.050	1.090	0.800	1.842	20.816	0.598	3/5
	S24 x 106	S610 x 158	106	31.20	24.50	7.870	1.090	0.620	1.842	20.816	0.598	3/5





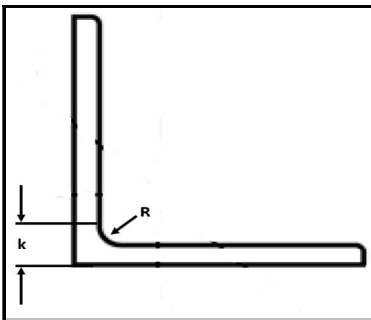
Imperial Sections

L-Shapes

Equal and Unequal

Imperial Sizes		Metric Sizes			Imperial Sizes		Metric Sizes	
Prime Section Group	Thickness range in Group	Prime Section Group	Thickness range in Group		Prime Section Group	Thickness range in Group	Prime Section Group	Thickness range in Group
(in x in)	(in)	(mm x mm)	(mm)		(in x in)	(in)	(mm x mm)	(mm)
5 x 5	5/16 – 7/8	127 x 127	7.9 – 22.2		6 x 4	5/16 – 7/8	152 x 102	7.9 – 22.2
6 x 6	5/16 – 1	152 x 152	7.9 – 25.4		7 x 4	3/8 – 3/4	178 x 102	9.5 – 19.0
8 x 8	1/2 – 1 1/8	203 x 203	12.7 – 28.6		8 x 4	7/16 – 1	203 x 102	11.1 – 25.4
					8 x 6	7/16 – 1	203 x 152	11.1 – 25.4





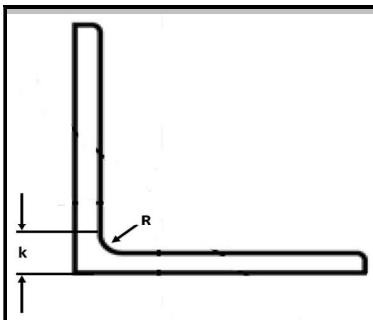
Nominal Shape Dimensions

L5

Comparable Metric Shapes
L127's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Thickness	Detailing Distance	Fillet Radius
			w	A	t _f	k	R
			lbs/ft	in ²	in	in	in
5 x 5	L5 x 5 x 7/8	L127 X127 X 22.2	27.2	7.98	0.875	1.296	0.421
	L5 x 5 x 3/4	L127 X127 X 19.0	23.6	6.94	0.750	1.171	0.421
	L5 x 5 x 5/8	L127 X127 X 15.9	20.0	5.86	0.625	1.046	0.421
	L5 x 5 x 1/2	L127 X127 X 12.7	16.2	4.75	0.500	0.921	0.421
	L5 x 5 x 7/16	L127 X127 X 11.1	14.3	4.18	0.438	0.859	0.421
	L5 x 5 x 3/8	L127 X127 X 9.5	12.3	3.61	0.375	0.796	0.421
	L5 x 5 x 5/16	L127 X127 X 7.9	10.3	3.03	0.313	0.734	0.421





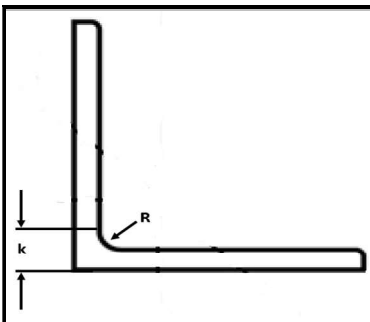
Nominal Shape Dimensions

L6

Comparable Metric Shapes
L152's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Thickness	Detailing Distance	Fillet Radius
			w	A	t _f	k	R
			lbs/ft	in ²	in	in	in
6 x 4	L6 x 4 x 7/8	L152 x102 x 22.2	27.2	7.98	0.875	1.296	0.421
	L6 x 4 x 3/4	L152 x102 x 19.0	23.6	6.94	0.750	1.171	0.421
	L6 x 4 x 5/8	L152 x102 x 15.9	20.0	5.86	0.625	1.046	0.421
	L6 x 4 x 9/16	L152 x102 x 14.3	18.1	5.31	0.563	0.984	0.421
	L6 x 4 x 1/2	L152 x102 x 12.7	16.2	4.75	0.500	0.921	0.421
	L6 x 4 x 7/16	L152 x102 x 11.1	14.3	4.18	0.438	0.859	0.421
	L6 x 4 x 3/8	L152 x102 x 9.5	12.3	3.61	0.375	0.796	0.421
	L6 x 4 x 5/16	L152 x102 x 7.9	10.3	3.03	0.313	0.734	0.421
6 x 6	L6 x 6 x 1	L152 x 152 x 25.4	37.4	11.00	1.000	1.480	0.480
	L6 x 6 x 7/8	L152 x 152 x 22.2	33.1	9.73	0.875	1.355	0.480
	L6 x 6 x 3/4	L152 x 152 x 19.0	28.7	8.44	0.750	1.230	0.480
	L6 x 6 x 5/8	L152 x 152 x 15.9	24.2	7.11	0.625	1.105	0.480
	L6 x 6 x 9/16	L152 x 152 x 14.3	21.9	6.43	0.563	1.043	0.480
	L6 x 6 x 1/2	L152 x 152 x 12.7	19.6	5.75	0.500	0.980	0.480
	L6 x 6 x 7/16	L152 x 152 x 11.1	17.2	5.06	0.438	0.918	0.480
	L6 x 6 x 3/8	L152 x 152 x 9.5	14.9	4.36	0.375	0.855	0.480
	L6 x 6 x 5/16	L152 x 152 x 7.9	12.4	3.65	0.313	0.793	0.480





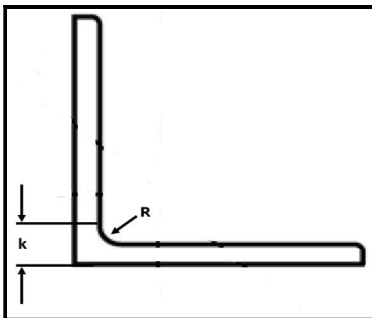
Nominal Shape Dimensions

L7

Comparable Metric Shapes
L178's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Thickness	Detailing Distance	Fillet Radius
			w	A	t _f	k	R
			lbs/ft	in ²	in	in	in
7 x 4	L7 x 4 x 3/4	L178 x102 x 19.0	26.2	7.69	0.750	1.171	0.421
	L7 x 4 x 5/8	L178 x102 x 15.9	22.1	6.48	0.625	1.046	0.421
	L7 x 4 x 1/2	L178 x102 x 12.7	17.9	5.25	0.500	0.921	0.421
	L7 x 4 x 7/16	L178 x102 x 11.1	15.7	4.62	0.438	0.859	0.421
	L7 x 4 x 3/8	L178 x102 x 9.5	13.6	3.98	0.375	0.796	0.421





Nominal Shape Dimensions

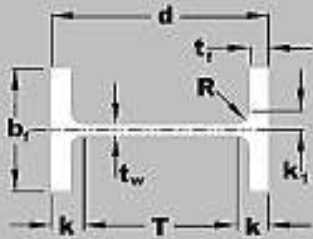
L8

Comparable Metric Shapes

L203's

Prime Section Group	Section Name	Comparable Metric Section	Weight	Area	Thickness	Detailing Distance	Fillet Radius
			w	A	t _f	k	R
			lbs/ft	in ²	in	in	in
8 x 8	L8 x 8 x 1 1/8	L203 x 203 x 28.6	56.9	16.70	1.125	1.625	0.500
	L8 x 8 x 1	L203 x 203 x 25.4	51.0	15.00	1.000	1.500	0.500
	L8 x 8 x 7/8	L203 x 203 x 22.2	45.0	13.20	0.875	1.375	0.500
	L8 x 8 x 3/4	L203 x 203 x 19.0	38.9	11.40	0.750	1.250	0.500
	L8 x 8 x 5/8	L203 x 203 x 15.9	32.7	9.61	0.625	1.125	0.500
	L8 x 8 x 9/16	L203 x 203 x 14.3	29.6	8.68	0.563	1.063	0.500
	L8 x 8 x 1/2	L203 x 203 x 12.7	26.4	7.75	0.500	1.000	0.500
8 x 6	L8 x 6 x 1	L203 x 152 x 25.4	44.2	13.00	1.000	1.480	0.480
	L8 x 6 x 7/8	L203 x 152 x 22.2	39.1	11.50	0.875	1.355	0.480
	L8 x 6 x 3/4	L203 x 152 x 19.0	33.8	9.94	0.750	1.230	0.480
	L8 x 6 x 5/8	L203 x 152 x 15.9	28.5	8.36	0.625	1.105	0.480
	L8 x 6 x 9/16	L203 x 152 x 14.3	25.7	7.56	0.563	1.043	0.480
	L8 x 6 x 1/2	L203 x 152 x 12.7	23.0	6.75	0.500	0.980	0.480
	L8 x 6 x 7/16	L203 x 152 x 11.1	20.2	5.93	0.438	0.918	0.480
8 x 4	L8 x 4 x 1	L203 x 102 x 25.4	37.4	11.00	1.000	1.421	0.421
	L8 x 4 x 7/8	L203 x 102 x 22.2	33.1	9.73	0.875	1.296	0.421
	L8 x 4 x 3/4	L203 x 102 x 19.0	28.7	8.44	0.750	1.171	0.421
	L8 x 4 x 5/8	L203 x 102 x 15.9	24.2	7.11	0.625	1.046	0.421
	L8 x 4 x 9/16	L203 x 102 x 14.3	21.9	6.43	0.563	0.984	0.421
	L8 x 4 x 1/2	L203 x 102 x 12.7	19.6	5.75	0.500	0.921	0.421
	L8 x 4 x 7/16	L203 x 102 x 11.1	17.2	5.06	0.438	0.859	0.421



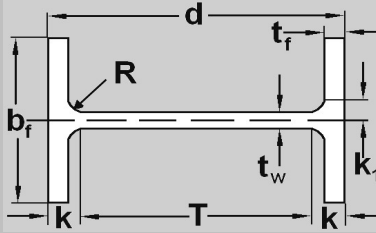


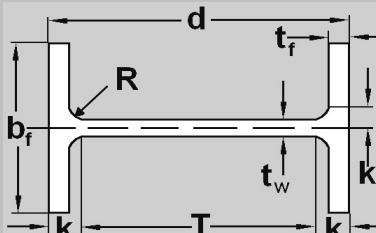
Metric Sections

Wide Flange Beams

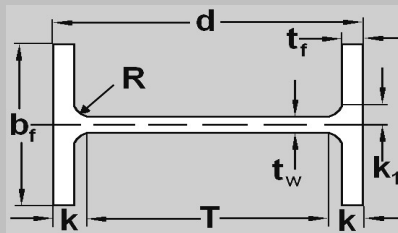
Metric Sizes		Comparable Inch-Pound Sizes			Metric Sizes		Comparable Inch-Pound Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(mm x mm)	(kg/m)	(in x in)	(lbs/ft)		(mm x mm)	(kg/m)	(in x in)	(lbs/ft)
100 x 100	19.3	4 x 4	13		360 x 170	44.6 - 58	14 x 6 ³ / ₄	30 - 38
					360 x 130	32.9 - 39	14 x 5	22 - 26
130 x 130	23.8 - 28.1	5 x 5	16 - 19					
					410 x 260	100 - 149	16 x 10 ¹ / ₄	67 - 100
150 x 150	22.5 - 37.1	6 x 6	15 - 25		410 x 180	53 - 85	16 x 7	36 - 57
150 x 100	13 - 24	6 x 4	8.5 - 16		410 x 140	38.8 - 46.1	16 x 5 ¹ / ₂	26 - 31
200 x 200	46.1 - 100	8 x 8	31 - 67		460 x 280	113 - 349	18 x 11	76 - 234
200 x 170	35.9 - 41.7	8 x 6 ¹ / ₂	24 - 28		460 x 190	60 - 106	18 x 7 ¹ / ₂	41 - 71
200 x 130	21 - 31.3	8 x 5 ¹ / ₄	14 - 21		460 x 150	52 - 68	18 x 6	35 - 46
200 x 100	15 - 22.5	8 x 4	10 - 15					
					530 x 310	150 - 332	21 x 12 ¹ / ₄	101 - 223
250 x 250	73 - 167	10 x 10	49 - 112		530 x 210	72 - 138	21 x 8 ¹ / ₄	48 - 93
250 x 200	49.1 - 67	10 x 8	33 - 45		530 x 170	66 - 85	21 x 6 ¹ / ₂	44 - 57
250 x 150	24 - 44.8	10 x 5 ³ / ₄	16 - 30					
250 x 100	17.9 - 28.4	10 x 4	12 - 19		610 x 320	155 - 285	24 x 12 ³ / ₄	104 - 192
					610 x 230	83 - 153	24 x 9	56 - 103
310 x 310	97 - 375	12 x 12	65 - 252		610 x 180	82 - 92	24 x 7	55 - 62
310 x 250	79 - 86	12 x 10	53 - 58					
310 x 200	60 - 74	12 x 8	40 - 50		690 x 360	217 - 265	27 x 14	146 - 178
310 x 170	31 - 52	12 x 6 ¹ / ₂	21 - 35		690 x 250	125 - 192	27 x 10	84 - 129
310 x 100	21 - 32.7	12 x 4	14 - 22					
					760 x 270	134 - 196	30 x 10 ¹ / ₂	90 - 132
360 x 406	216 - 421	14 x 16	145 - 283					
360 x 370	134 - 196	14 x 14 ¹ / ₂	90 - 132		840 x 290	176 - 251	30 x 11 ¹ / ₂	118 - 169
360 x 250	91 - 122	14 x 10	61 - 82					
360 x 200	64 - 79	14 x 8	43 - 53		920 x 300	201 - 381	36 x 12	135 - 256



 <div> <h1>Nominal Shape Dimensions</h1> <h1>W100</h1> <p>Comparable Imperial Shapes W4's</p> </div>												
Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm	mm	mm	mm		mm	mm	mm	mm
100 x 100	W100 x 19.3	W4 x 13	19.3	2470	106	103	8.8	7.1	19.1	13.8	67.8	10.29

 <div> <h1>Nominal Shape Dimensions</h1> <h1>W130</h1> <p>Comparable Imperial Shapes W5's</p> </div>												
Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm	mm	mm	mm		mm	mm	mm	mm
130 x 130	W130 x 28.1	W5 x 19	28.1	3590	131	128	10.9	20.4	21.2	20.5	88.6	10.29
	W130 x 23.8	W5 x 16	23.8	3040	127	127	9.1	17.9	19.4	19.2	88.2	10.29





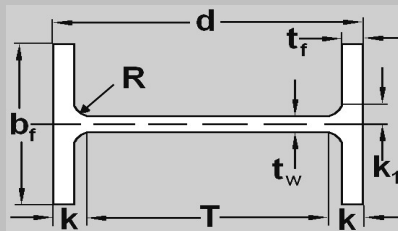
Nominal Shape Dimensions

W150

Comparable Imperial Shapes
W6's

Prime Section Group	SECTION NAME	Comparable Imperial Section	Mass	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*			
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.									
									MSM			HSM					MSM	HSM
									k	k ₁	T	k	k ₁	T			R	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R		
150x150	W150x37.1	W6x25	37.1	4740	162	154	11.6	8.1	23.6	16.1	114.8	21.8	14.2	118.5	12.00	10.16		
	W150x29.8	W6x20	29.8	3790	157	153	9.3	6.6	21.3	15.3	114.4	19.5	13.5	118.1	12.00	10.16		
	W150x22.5	W6x15	22.5	2860	152	152	6.6	5.8	18.6	14.9	114.8	16.8	13.1	118.5	12.00	10.16		
150x100	W150x24	W6x16	24	3060	160	102	10.3	6.6	22.3	15.3	115.4	20.5	13.5	119.1	12.00	10.16		
	W150x18	W6x12	18	2290	153	102	7.1	5.8	19.1	14.9	114.8	17.3	13.1	118.5	12.00	10.16		
	W150x13.5	W6x9	13.5	1730	150	100	5.5	4.3	17.5	14.2	115.0	15.7	12.3	118.7	12.00	10.16		
	W150x13	W6x8.5	13	1630	148	100	4.9	4.3	16.9	14.2	114.2	15.1	12.3	117.9	12.00	10.16		





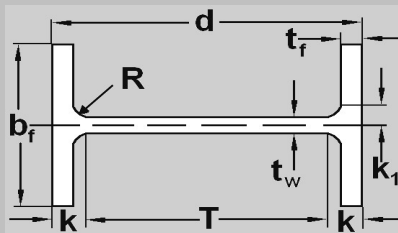
Nominal Shape Dimensions

W200

Comparable Imperial Shapes
W8's

Prime Section Group	SECTION NAME	Comparable Imperial Section	Mass	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.							
									MSM			HSM				
	M	A	d	b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R		
mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
200x200	W200x100	W8x67	100	12942	229	210	23.7	14.5	35.7	19.3	157.6	33.9	17.4	161.3	12.00	10.16
	W200x86	W8x58	86	11316	222	209	20.6	13.0	32.6	18.5	156.8	30.8	16.7	160.5	12.00	10.16
	W200x71	W8x48	71	9371	216	206	17.4	10.2	29.4	17.1	157.2	27.6	15.3	160.9	12.00	10.16
	W200x59	W8x40	59	7829	210	205	14.2	9.1	26.2	16.6	157.6	24.4	14.7	161.3	12.00	10.16
	W200x52	W8x35	52	6924	206	204	12.6	7.9	24.6	16.0	156.8	22.8	14.1	160.5	12.00	10.16
	W200x46.1	W8x31	46.1	6124	203	203	11.0	7.2	23.0	15.6	157.0	21.2	13.8	160.7	12.00	10.16
200x170	W200x41.7	W8x28	41.7	5578	205	166	11.8	7.2	23.8	15.6	157.4	22.0	13.8	161.1	12.00	10.16
	W200x35.9	W8x24	35.9	4840	201	165	10.2	6.2	22.2	15.1	156.6	20.4	13.3	160.3	12.00	10.16
200x130	W200x31.3	W8x21	31.3	4301	210	134	10.2	6.4	22.2	15.2	165.6	20.4	13.4	169.3	12.00	10.16
	W200x26.6	W8x18	26.6	3692	207	133	8.4	5.8	20.4	14.9	166.2	18.6	13.1	169.9	12.00	10.16
200x100	W200x22.5	W8x15	22.5	3009	206	102	8.0	6.2	20.0	15.1	166.0	18.2	13.3	169.7	12.00	10.16
	W200x19.3	W8x13	19.3	2627	203	102	6.5	5.8	18.5	14.9	166.0	16.7	13.1	169.7	12.00	10.16
	W200x15	W8x10	15	2055	200	100	5.2	4.3	17.2	14.2	165.6	15.4	12.3	169.3	12.00	10.16





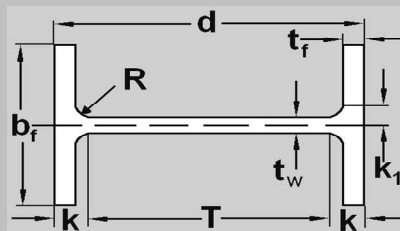
Nominal Shape Dimensions

W250

Comparable Imperial Shapes
W10's

Prime Section Group	SECTION NAME	Comparable Imperial Section	Mass M	Area A	Depth d	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.						MSM	HSM
						b _f	t _f	t _w								
						b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R
	mm x kg/m	in x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
250x250	W250x167	W10x112	167	21200	289	265	31.8	19.2	N/A	N/A	N/A	48.5	26.3	192.0	N/A	16.70
	W250x149	W10x100	149	19000	282	263	28.4	17.3	N/A	N/A	N/A	45.1	25.4	191.8	N/A	16.70
	W250x131	W10x88	131	16700	275	261	25.1	15.4	N/A	N/A	N/A	41.8	24.4	191.4	N/A	16.70
	W250x115	W10x77	115	14600	269	259	22.1	13.5	N/A	N/A	N/A	38.8	23.5	191.4	N/A	16.70
	W250x101	W10x68	101	12900	264	257	19.6	11.9	N/A	N/A	N/A	36.3	22.7	191.4	N/A	16.70
	W250x89	W10x60	89	11400	260	256	17.3	10.7	N/A	N/A	N/A	34.0	22.1	192.0	N/A	16.70
	W250x80	W10x54	80	10200	256	255	15.6	9.4	N/A	N/A	N/A	32.3	21.4	191.4	N/A	16.70
	W250x73	W10x49	73	9290	253	254	14.2	8.6	N/A	N/A	N/A	30.9	21.0	191.2	N/A	16.70
250x200	W250x67	W10x45	67	8580	257	204	15.7	8.9	32.4	21.2	192.2	32.4	21.2	192.2	16.70	16.70
	W250x58	W10x39	58	7420	252	203	13.5	8.0	30.2	20.7	191.6	30.2	20.7	191.6	16.70	16.70
	W250x49.1	W10x33	49.1	6260	247	202	11.0	7.4	27.7	20.4	191.6	27.7	20.4	191.6	16.70	16.70
250x150	W250x44.8	W10x30	44.8	5700	266	148	13.0	7.6	25.0	15.8	216.0	23.2	14.0	219.7	12.00	10.16
	W250x38.5	W10x26	38.5	4910	262	147	11.2	6.6	23.2	15.3	215.6	21.4	13.5	219.3	12.00	10.16
	W250x32.7	W10x22	32.7	4190	258	146	9.1	6.1	21.1	15.1	215.8	19.3	13.2	219.5	12.00	10.16
250x100	W250x28.4	W10x19	28.4	3630	260	102	10.0	6.4	22.0	15.2	216.0	20.2	13.4	219.7	12.00	10.16
	W250x25.3	W10x17	25.3	3220	257	102	8.4	6.1	20.4	15.1	216.2	18.6	13.2	219.9	12.00	10.16
	W250x22.3	W10x15	22.3	2850	254	102	6.9	5.8	18.9	14.9	216.2	17.1	13.1	219.9	12.00	10.16
	W250x17.9	W10x12	17.9	2280	251	101	5.3	4.8	17.3	14.4	216.4	15.5	12.6	220.1	12.00	10.16





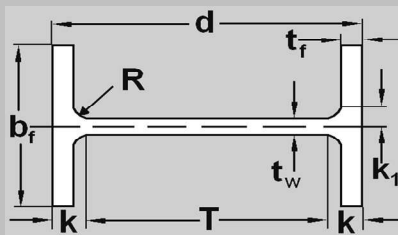
Nominal Shape Dimensions

W310

Comparable Imperial Shapes
W12's

Prime Section Group	SECTION NAME	Comparable Imperial Section	Mass	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*			
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.									
									MSM			HSM					MSM	HSM
									k	k ₁	T	k	k ₁	T			R	R
						mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm
310x310	W310x375	W12x252	375.0	47800	391	330	57.2	35.4	N/A	N/A	N/A	77.2	37.7	236.6	N/A	20.00		
	W310x342	W12x230	342.0	43700	382	328	52.6	32.6	N/A	N/A	N/A	72.6	36.3	236.8	N/A	20.00		
	W310x313	W12x210	313.0	39900	374	325	48.3	30.0	N/A	N/A	N/A	68.3	35.0	237.4	N/A	20.00		
	W310x283	W12x190	283.0	36000	365	322	44.1	26.9	N/A	N/A	N/A	64.1	33.5	236.8	N/A	20.00		
	W310x253	W12x170	253.0	32300	356	319	39.6	24.4	N/A	N/A	N/A	59.6	32.2	236.8	N/A	20.00		
	W310x226	W12x152	226.0	28800	348	317	35.6	22.1	N/A	N/A	N/A	55.6	31.1	236.8	N/A	20.00		
	W310x202	W12x136	202.0	25700	341	315	31.8	20.1	N/A	N/A	N/A	51.8	30.1	237.4	N/A	20.00		
	W310x179	W12x120	179.0	22800	333	313	28.1	18.0	N/A	N/A	N/A	48.1	29.0	236.8	N/A	20.00		
	W310x158	W12x106	158.0	20100	327	310	25.1	15.5	N/A	N/A	N/A	45.1	27.8	236.8	N/A	20.00		
	W310x143	W12x96	143.0	18200	323	309	22.9	14.0	N/A	N/A	N/A	42.9	27.0	237.2	N/A	20.00		
	W310x129	W12x87	129.0	16500	318	308	20.6	13.1	N/A	N/A	N/A	40.6	26.6	236.8	N/A	20.00		
	W310x117	W12x79	117.0	15000	314	307	18.7	11.9	N/A	N/A	N/A	38.7	26.0	236.6	N/A	20.00		
	W310x107	W12x72	107.0	13600	311	306	17.0	10.9	N/A	N/A	N/A	37.0	25.5	237.0	N/A	20.00		
	W310x97	W12x65	97.0	12300	308	305	15.4	9.9	N/A	N/A	N/A	35.4	25.0	237.2	N/A	20.00		
310x250	W310x86	W12x58	86.0	11000	310	254	16.3	9.1	N/A	N/A	N/A	36.3	24.6	237.4	N/A	20.00		
	W310x79	W12x53	79.0	10100	306	254	14.6	8.8	N/A	N/A	N/A	34.6	24.4	236.8	N/A	20.00		
310x200	W310x74	W12x50	74.0	9480	310	205	16.3	9.4	33.0	21.4	244.0	36.3	24.7	237.4	16.70	20.00		
	W310x67	W12x45	67.0	8520	306	204	14.6	8.5	31.3	21.0	243.4	34.6	24.3	236.8	16.70	20.00		
	W310x60	W12x40	60.0	7610	303	203	13.1	7.5	29.8	20.5	243.4	33.1	23.8	236.8	16.70	20.00		
310x170	W310x52	W12x35	52.0	6650	317	167	13.2	7.6	25.2	15.8	266.6	23.4	14.0	270.3	12.00	10.16		
	W310x44.5	W12x30	44.5	5670	313	166	11.2	6.6	23.2	15.3	266.6	21.4	13.5	270.3	12.00	10.16		
	W310x38.7	W12x26	38.7	4940	310	165	9.7	5.8	21.7	14.9	266.6	19.9	13.1	270.3	12.00	10.16		
310x100	W310x32.7	W12x22	32.7	4180	313	102	10.8	6.6	22.8	15.3	267.4	21.0	13.5	271.1	12.00	10.16		
	W310x28.3	W12x19	28.3	3590	309	102	8.9	6.0	20.9	15.0	267.2	19.1	13.2	270.9	12.00	10.16		
	W310x23.8	W12x16	23.8	3040	305	101	6.7	5.6	18.7	14.8	267.6	16.9	13.0	271.3	12.00	10.16		
	W310x21	W12x14	21.0	2680	303	101	5.7	5.1	17.7	14.6	267.6	15.9	12.7	271.3	12.00	10.16		





Nominal Shape Dimensions

W360

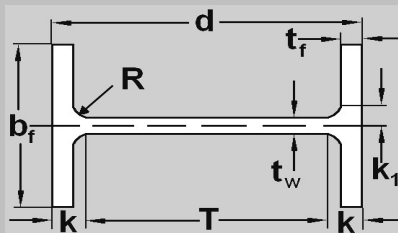
Comparable Imperial Shapes
W14's

Prime Section Group	SECTION NAME	Comparable Imperial Section	Mass	Area	Depth	Flange		Web	Detailing Distance*						Fillet Radius*			
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.									
									MSM			HSM					MSM	HSM
									k	k ₁	T	k	k ₁	T			R	R
						mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm
360x406	W360x421	W14x283	421	53700	425	409	52.6	32.8	N/A	N/A	N/A	72.6	36.4	279.8	N/A	20.00		
	W360x382	W14x257	382	48800	416	406	48.0	29.8	N/A	N/A	N/A	68.0	34.9	280.0	N/A	20.00		
	W360x347	W14x233	347	44200	407	404	43.7	27.2	N/A	N/A	N/A	63.7	33.6	279.6	N/A	20.00		
	W360x314	W14x211	314	40000	399	401	39.6	24.9	N/A	N/A	N/A	59.6	32.5	279.8	N/A	20.00		
	W360x287	W14x193	287	36600	393	399	36.6	22.6	N/A	N/A	N/A	56.6	31.3	279.8	N/A	20.00		
	W360x262	W14x176	262	33400	387	398	33.3	21.1	N/A	N/A	N/A	53.3	30.6	280.4	N/A	20.00		
	W360x237	W14x159	237	30100	380	395	30.2	18.9	N/A	N/A	N/A	50.2	29.5	279.6	N/A	20.00		
	W360x216	W14x145	216	27500	375	394	27.7	17.3	N/A	N/A	N/A	47.7	28.7	279.6	N/A	20.00		
360x370	W360x196	W14x132	196	25000	372	374	26.2	16.4	N/A	N/A	N/A	46.2	28.2	279.6	N/A	20.00		
	W360x179	W14x120	179	22800	368	373	23.9	15.0	N/A	N/A	N/A	43.9	27.5	280.2	N/A	20.00		
	W360x162	W14x109	162	20600	364	371	21.8	13.3	N/A	N/A	N/A	41.8	26.7	280.4	N/A	20.00		
	W360x147	W14x99	147	18800	360	370	19.8	12.3	N/A	N/A	N/A	39.8	26.2	280.4	N/A	20.00		
	W360x134	W14x90	134	17100	356	369	18.0	11.2	N/A	N/A	N/A	38.0	25.6	280.0	N/A	20.00		
360x250	W360x122	W14x82	122	15500	363	257	21.7	13.0	N/A	N/A	N/A	41.7	26.5	279.6	N/A	20.00		
	W360x110	W14x74	110	14100	360	256	19.9	11.4	N/A	N/A	N/A	39.9	25.7	280.2	N/A	20.00		
	W360x101	W14x68	101	12900	357	255	18.3	10.5	N/A	N/A	N/A	38.3	25.3	280.4	N/A	20.00		
	W360x91	W14x61	91	11500	353	254	16.4	9.5	N/A	N/A	N/A	36.4	24.8	280.2	N/A	20.00		
360x200	W360x79	W14x53	79	10100	354	205	16.8	9.4	33.5	21.4	287.0	36.8	24.7	280.4	16.70	20.00		
	W360x72	W14x48	72	9100	350	204	15.1	8.6	31.8	21.0	286.4	35.1	24.3	279.8	16.70	20.00		
	W360x64	W14x43	64	8130	347	203	13.5	7.7	30.2	20.6	286.6	33.5	23.9	280.0	16.70	20.00		
360x170	W360x58	W14x38	58	7230	358	172	13.1	7.9	29.8	20.7	298.4	23.3	14.1	311.5	16.70	10.16		
	W360x51	W14x34	51	6450	355	171	11.6	7.2	28.3	20.3	298.4	21.8	13.8	311.5	16.70	10.16		
	W360x44.6	W14x30	44.6	5710	352	171	9.8	6.9	26.5	20.2	299.0	20.0	13.6	312.1	16.70	10.16		
360x130	W360x39	W14x26	39	4960	353	128	10.7	6.5	27.4	20.0	298.2	20.9	13.4	311.3	16.70	10.16		
	W360x32.9	W14x22	32.9	4190	349	127	8.5	5.8	25.2	19.6	298.6	18.7	13.1	311.7	16.70	10.16		



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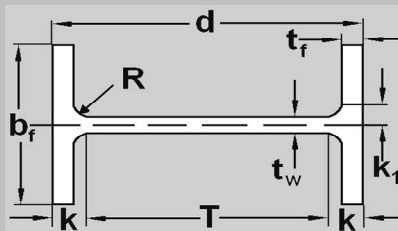
Nominal Shape Dimensions

W410

Comparable Imperial Shapes
W16's

Prime Section Group	SECTION NAME	Comparable Imperial Section	Mass M	Area A	Depth d	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.						MSM	HSM
						b _f	t _f	t _w								
						mm	mm	mm	k	k ₁	T	k	k ₁	T	R	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
410x260	W410x149	W16x100	149	19000	431	265	25.0	14.9	N/A	N/A	N/A	45.0	27.5	341.0	N/A	20.00
	W410x132	W16x89	132	16900	425	263	22.2	13.3	N/A	N/A	N/A	42.2	26.7	340.6	N/A	20.00
	W410x114	W16x77	114	14600	420	261	19.3	11.6	N/A	N/A	N/A	39.3	25.8	341.4	N/A	20.00
	W410x100	W16x67	100	12700	415	260	16.9	10.0	N/A	N/A	N/A	36.9	25.0	341.2	N/A	20.00
410x180	W410x85	W16x57	85	10800	417	181	18.2	10.9	34.9	22.2	347.2	38.2	25.5	340.6	16.70	20.00
	W410x75	W16x50	75	9480	413	180	16.0	9.7	32.7	21.6	347.6	36.0	24.9	341.0	16.70	20.00
	W410x67	W16x45	67	8580	410	179	14.4	8.8	31.1	21.1	347.8	34.4	24.4	341.2	16.70	20.00
	W410x60	W16x40	60	7610	407	178	12.8	7.7	29.5	20.6	348.0	32.8	23.9	341.4	16.70	20.00
	W410x53	W16x36	53	6840	403	177	10.9	7.5	27.6	20.5	347.8	30.9	23.8	341.2	16.70	20.00
410x140	W410x46.1	W16x31	46.1	5880	403	140	11.2	7.0	27.9	20.2	347.2	31.2	23.5	340.6	16.70	20.00
	W410x38.8	W16x26	38.8	4950	399	140	8.8	6.4	25.5	19.9	348.0	28.8	23.2	341.4	16.70	20.00





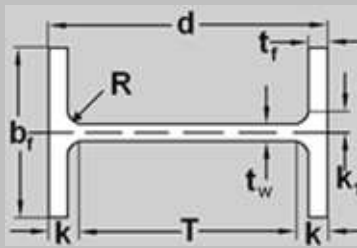
Nominal Shape Dimensions

W460

Comparable Imperial Shapes
W18's

Prime Section Group	SECTION NAME	Comparable Imperial Section	Mass M	Area A	Depth d	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.						MSM R	HSM R
						b _f	t _f	t _w								
						b _f	t _f	t _w	k	k ₁	T	k	k ₁	T	R	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
460x280	W460x349	W18x234	349	44400	535	296	53.6	29.5	N/A	N/A	N/A	73.6	34.8	387.8	N/A	20.00
	W460x315	W18x211	315	40100	525	294	48.5	26.9	N/A	N/A	N/A	68.5	33.5	388.0	N/A	20.00
	W460x286	W18x192	286	36400	517	291	44.5	24.4	N/A	N/A	N/A	64.5	32.2	388.0	N/A	20.00
	W460x260	W18x175	260	33100	509	289	40.4	22.6	N/A	N/A	N/A	60.4	31.3	388.2	N/A	20.00
	W460x235	W18x158	235	29900	501	287	36.6	20.6	N/A	N/A	N/A	56.6	30.3	387.8	N/A	20.00
	W460x213	W18x143	213	27100	495	285	33.5	18.5	N/A	N/A	N/A	53.5	29.3	388.0	N/A	20.00
	W460x193	W18x130	193	24700	489	283	30.5	17.0	N/A	N/A	N/A	50.5	28.5	388.0	N/A	20.00
	W460x177	W18x119	177	22600	482	286	26.9	16.6	N/A	N/A	N/A	46.9	28.3	388.2	N/A	20.00
	W460x158	W18x106	158	20100	476	284	23.9	15.0	N/A	N/A	N/A	43.9	27.5	388.2	N/A	20.00
	W460x144	W18x97	144	18400	472	283	22.1	13.6	N/A	N/A	N/A	42.1	26.8	387.8	N/A	20.00
	W460x128	W18x86	128	16300	467	282	19.6	12.2	N/A	N/A	N/A	39.6	26.1	387.8	N/A	20.00
	W460x113	W18x76	113	14400	463	280	17.3	10.8	N/A	N/A	N/A	37.3	25.4	388.4	N/A	20.00
460x190	W460x106	W18x71	106	13400	469	194	20.6	12.6	N/A	N/A	N/A	40.6	26.3	387.8	N/A	20.00
	W460x97	W18x65	97	12300	466	193	19.0	11.4	N/A	N/A	N/A	39.0	25.7	388.0	N/A	20.00
	W460x89	W18x60	89	11400	463	192	17.7	10.5	N/A	N/A	N/A	37.7	25.3	387.6	N/A	20.00
	W460x82	W18x55	82	10500	460	191	16.0	9.9	N/A	N/A	N/A	36.0	25.0	388.0	N/A	20.00
	W460x74	W18x50	74	9480	457	190	14.5	9.0	N/A	N/A	N/A	34.5	24.5	388.0	N/A	20.00
460x150	W460x68	W18x46	68	8710	459	154	15.4	9.1	32.1	21.3	394.8	35.4	24.6	388.2	16.70	20.00
	W460x60	W18x40	60	7610	455	153	13.3	8.0	30.0	20.7	395.0	33.3	24.0	388.4	16.70	20.00
	W460x52	W18x35	52	6650	450	152	10.8	7.6	27.5	20.5	395.0	30.8	23.8	388.4	16.70	20.00





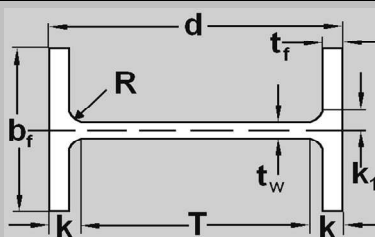
Nominal Shape Dimensions

W530

Comparable Imperial Shapes
W21's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
						Width	Thickness					
			M	A	d	b _f	t _f	t _w	k	k ₁	T	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm
530x310	W530x332	W21x223	332	42300	593	322	45.5	25.4	63.3	30.5	466.4	17.78
	W530x300	W21x201	300	38200	585	319	41.4	23.1	59.2	29.3	466.6	17.78
	W530x272	W21x182	272	34600	577	317	37.6	21.1	55.4	28.3	466.2	17.78
	W530x248	W21x166	248	31500	571	315	34.5	19.0	52.3	27.3	466.4	17.78
	W530x219	W21x147	219	27900	560	318	29.2	18.3	47.0	26.9	466.0	17.78
	W530x196	W21x132	196	25000	554	316	26.3	16.5	44.1	26.0	465.8	17.78
	W530x182	W21x122	182	23200	551	315	24.4	15.2	42.2	25.4	466.6	17.78
	W530x165	W21x111	165	21100	546	313	22.2	14.0	40.0	24.8	466.0	17.78
	W530x150	W21x101	150	19200	543	312	20.3	12.7	38.1	24.1	466.8	17.78
530x210	W530x138	W21x93	138	17600	549	214	23.6	14.7	41.4	25.1	466.2	17.78
	W530x123	W21x83	123	15700	544	212	21.2	13.1	39.0	24.3	466.0	17.78
	W530x109	W21x73	109	13900	539	211	18.8	11.6	36.6	23.6	465.8	17.78
	W530x101	W21x68	101	12900	537	210	17.4	10.9	35.2	23.2	466.6	17.78
	W530x92	W21x62	92	11800	533	209	15.6	10.2	33.4	22.9	466.2	17.78
	W530x82*	W21x55	82	10500	528	209	13.3	9.5	31.1	22.5	465.8	17.78
	W530x72*	W21x48	72	9180	524	207	10.9	9.0	28.7	22.3	466.6	17.78
530x170	W530x85	W21x57	85	10800	535	166	16.5	10.3	34.3	22.9	466.4	17.78
	W530x74	W21x50	74	9480	529	166	13.6	9.7	31.4	22.6	466.2	17.78
	W530x66	W21x44	66	8390	525	165	11.4	8.9	29.2	22.2	466.6	17.78
	* Canadian Size											





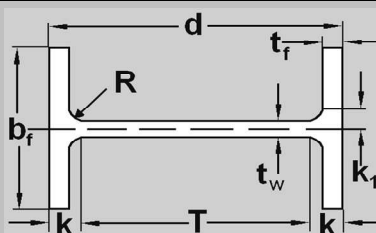
Nominal Shape Dimensions

W610

Comparable Imperial Shapes
W24's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm	mm
610x320	W610x341	W24x229	341	43400	661	333	43.9	24.4	61.7	30.0	537.6	17.78
	W610x307	W24x207	307	39100	653	330	39.9	22.1	57.7	28.8	537.6	17.78
	W610x285	W24x192	285	36100	647	329	37.1	20.6	54.9	28.1	537.2	17.78
	W610x262	W24x176	262	33300	641	327	34.0	19.0	51.8	27.3	537.4	17.78
	W610x241	W24x162	241	30800	635	329	31.0	17.1	48.8	26.3	537.4	17.78
	W610x217	W24x146	217	27700	628	328	27.7	16.5	45.5	26.0	537.0	17.78
	W610x195	W24x131	195	24800	622	327	24.4	15.4	42.2	25.5	537.6	17.78
	W610x174	W24x117	174	22200	616	325	21.6	14.0	39.4	24.8	537.2	17.78
	W610x155	W24x104	155	19700	611	324	19.0	12.7	36.8	24.1	537.4	17.78
610x230	W610x153	W24x103	153	19600	623	229	24.9	14.0	42.7	24.8	537.6	17.78
	W610x140	W24x94	140	17900	617	230	22.2	13.1	40.0	24.3	537.0	17.78
	W610x125	W24x84	125	15900	612	229	19.6	11.9	37.4	23.7	537.2	17.78
	W610x113	W24x76	113	14500	608	228	17.3	11.2	35.1	23.4	537.8	17.78
	W610x101	W24x68	101	13000	603	228	14.9	10.5	32.7	23.0	537.6	17.78
610x180	W610x92	W24x62	92	11700	603	179	15.0	10.9	32.8	23.2	537.4	17.78
	W610x82	W24x55	82	10500	599	178	12.8	10.0	30.6	22.8	537.8	17.78



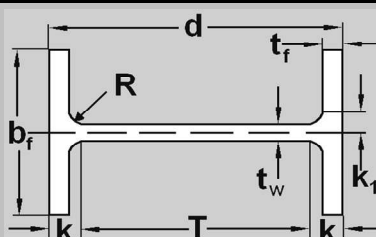


Nominal Shape Dimensions

W690

Comparable Imperial Shapes
W27's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm	mm
690x360	W690x265	W27x178	265	33700	706	358	30.2	18.4	48.0	27.0	610.0	17.78
	W690x240	W27x161	240	30600	701	356	27.4	16.8	45.2	26.2	610.6	17.78
	W690x217	W27x146	217	27700	695	355	24.8	15.4	42.6	25.5	609.8	17.78
690x250	W690x192	W27x129	192	24400	702	254	27.9	15.5	45.7	25.5	610.6	17.78
	W690x170	W27x114	170	21600	693	256	23.6	14.5	41.4	25.0	610.2	17.78
	W690x152	W27x102	152	19400	688	254	21.1	13.1	38.9	24.3	610.2	17.78
	W690x140	W27x94	140	17900	684	254	18.9	12.4	36.7	24.0	610.6	17.78
	W690x125	W27x84	125	16000	678	253	16.3	11.7	34.1	23.6	609.8	17.78



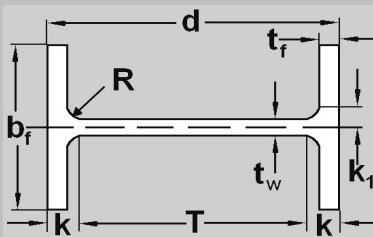
Nominal Shape Dimensions

W760

Comparable Imperial Shapes
W30's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm	mm
760x270	W760x220	W30x148	220	28100	779	266	30.0	16.5	47.8	26.0	683.4	17.78
	W760x196	W30x132	196	25919	770	268	25.4	15.6	43.2	25.6	683.6	17.78
	W760x185	W30x124	185	24398	766	267	23.6	14.9	41.4	25.2	683.2	17.78
	W760x173	W30x116	173	22971	762	267	21.6	14.4	39.4	25.0	683.2	17.78
	W760x161	W30x108	161	21281	758	266	19.3	13.8	37.1	24.7	683.8	17.78
	W760x147	W30x99	147	19586	753	265	17.0	13.2	34.8	24.4	683.4	17.78
	W760x134	W30x90	134	17826	750	264	15.5	11.9	33.3	23.7	683.4	17.78



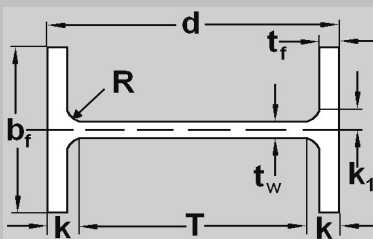


Nominal Shape Dimensions

W840

Comparable Imperial Shapes
W33's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm
840x290	W840x251	W33x169	251	31900	859	292	31.0	17.0	48.8	26.3	761.4	17.78
	W840x226	W33x152	226	28800	851	294	26.8	16.1	44.6	25.8	761.8	17.78
	W840x210	W33x141	210	26800	846	293	24.4	15.4	42.2	25.5	761.6	17.78
	W840x193	W33x130	193	24700	840	292	21.7	14.7	39.5	25.1	761.0	17.78
	W840x176	W33x118	176	22400	835	292	18.8	14.0	36.6	24.8	761.8	17.78



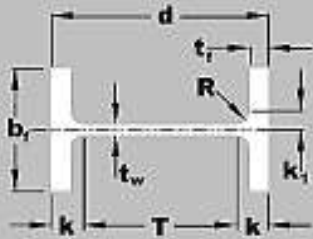
Nominal Shape Dimensions

W920

Comparable Imperial Shapes
W36's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm
920x300	W920x381	W36x256	381	49183	951	310	43.3	24.4	62.4	31.3	826.3	19.05
	W920x345	W36x232	345	44901	943	308	39.9	22.1	59.0	30.1	825.1	19.05
	W920x313	W36x210	313	40776	932	309	34.5	21.1	53.6	29.6	824.9	19.05
	W920x289	W36x194	289	37700	927	308	32.0	19.4	51.1	28.8	824.9	19.05
	W920x271	W36x182	271	35545	923	307	30.0	18.4	49.1	28.3	824.9	19.05
	W920x253	W36x170	253	33254	919	306	27.9	17.3	47.0	27.7	825.1	19.05
	W920x238	W36x160	238	31288	915	305	25.9	16.5	45.0	27.3	825.1	19.05
	W920x223	W36x150	223	29502	911	304	23.9	15.9	43.0	27.0	825.1	19.05
	W920x201	W36x135	201	26581	903	304	20.1	15.2	39.2	26.7	824.7	19.05



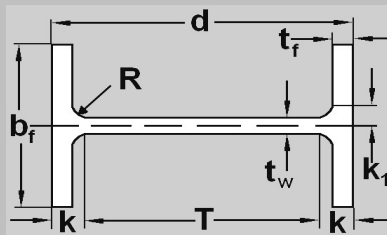


Metric Sections

H-Pile

Metric Sizes		Comparable Inch-Pound Sizes			Metric Sizes		Comparable Inch-Pound Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(mm x mm)	(kg/m)	(in x in)	(lbs/ft)		(mm x mm)	(kg/m)	(in x in)	(lbs/ft)
200 x 200	53	8 x 8	36		310 x 310	79 - 174	12 x 12	53 - 117
250 x 250	62 - 85	10 x 10	42 - 57		360 x 370	108 - 174	14 x 14 ^{1/4}	73 - 117



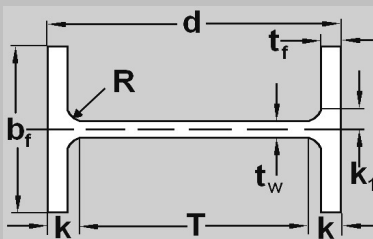


Nominal Shape Dimensions

HP200

Comparable Imperial Shapes
HP8's

Prime Section Group	SECTION NAME	Comparable Imperial Section	Mass M	Area A	Depth d	Flange		Web	Detailing Distance*						Fillet Radius*	
						Width	Thickness	Thickness	*These values depend on the mill. Manual measurements are necessary to confirm.							
						b _f	t _f	t _w							MSM	HSM
						mm	mm	mm	k	k ₁	T	k	k ₁	T	R	R
200x200	HP200x53	HP8x36	53	6840	204	207	11.3	11.3	23.3	17.7	157.4	21.5	15.8	161.1	12.0	10.16



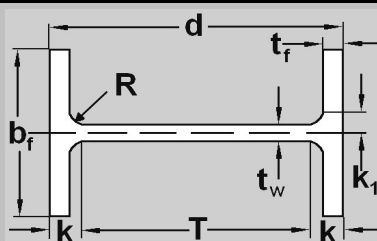
Nominal Shape Dimensions

HP250

Comparable Imperial Shapes
HP10's

Prime Section Group	Section Name	Comparable Metric Section	Mass M	Area A	Depth d	Flange		Web Thickness t _w	Detailing Distance			Fillet Radius R
						Width	Thickness					
						b _f	t _f		k	k ₁	T	
						mm	mm		mm	mm	mm	
250x250	HP250x85	HP10x57	85	10800	254	260	14.4	14.4	31.1	23.9	191.8	16.7
	HP250x62	HP10x42	62	8000	246	256	10.7	10.5	27.4	22.0	191.2	16.7





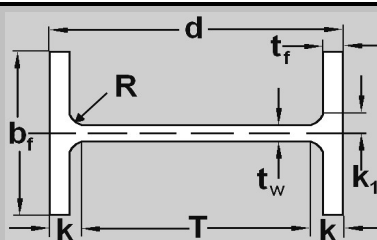
Nominal Shape Dimensions

HP310

Comparable Imperial Shapes
HP12's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm	mm	b _f	t _f		mm	mm	mm	mm
310x310	HP310x174*	HP12x117	174	22764	324	327	23.6	23.6	43.6	31.8	236.8	20.0
	HP310x153*	HP12x102	153	19921	319	321	20.8	20.8	40.8	30.4	237.4	20.0
	HP310x132*	HP12x89	132	17330	314	313	18.3	18.3	38.3	29.2	237.4	20.0
	HP310x125	HP12x84	125	15900	312	312	17.4	17.4	37.4	28.7	237.2	20.0
	HP310x110	HP12x74	110	14100	308	310	15.5	15.4	35.5	27.7	237.0	20.0
	HP310x93	HP12x63	93	11900	303	308	13.1	13.1	33.1	26.6	236.8	20.0
	HP310x79	HP12x53	79	10000	299	306	11.0	11.0	31.0	25.5	237.0	20.0

*Canadian Section



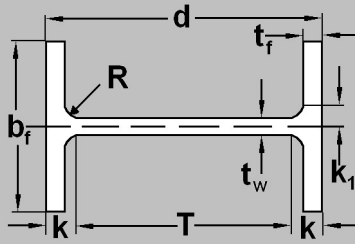
Nominal Shape Dimensions

HP360

Comparable Imperial Shapes
HP14's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm	mm	b _f	t _f		mm	mm	mm	mm
360x370	HP360x174	HP14x117	174	22200	361	378	20.4	20.4	40.4	30.2	280.2	20.0
	HP360x152	HP14x102	152	19400	356	376	17.9	17.9	37.9	29.0	280.2	20.0
	HP360x132	HP14x89	132	16800	351	373	15.6	15.6	35.6	27.8	279.8	20.0
	HP360x108	HP14x73	108	13800	346	370	12.8	12.8	32.8	26.4	280.4	20.0



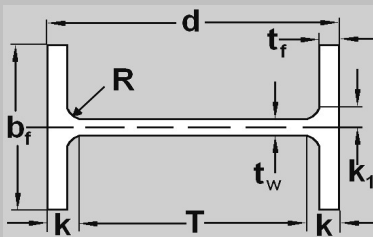


Metric Sections

M Shapes

Metric Sizes		Comparable Inch-Pound Sizes			Metric Sizes		Comparable Inch-Pound Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(mm x mm)	(kg/m)	(in x in)	(lbs/ft)		(mm x mm)	(kg/m)	(in x in)	(lbs/ft)
318 x 95	18.5	12.5 x 3.750	12.4		250 x 68	11.9 – 13.4	10 x 2.690	8 – 9
310 x 78	16.1 – 17.6	12 x 3.065	10.8 – 11.8		250 x 68	11.2	10 x 2.688	7.5
310 x 83	14.9	12 x 3.25	10		200 x 58	9.2 – 9.7	8 x 2.281	6.2 – 6.5



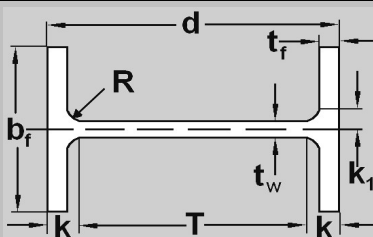


Nominal Shape Dimensions

M200

Comparable Imperial Shapes
M8's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm	mm
200 x 58	M200 x 9.7	M8 x 6.5	9.7	1240	203	57	4.8	3.4	12.4	9.3	178.2	7.62
	M200 x 9.2	M8 x 6.2	9.2	1170	203	58	4.5	3.3	12.1	9.3	178.8	7.62



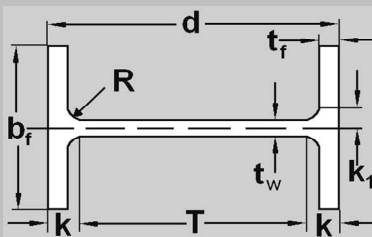
Nominal Shape Dimensions

M250

Comparable Imperial Shapes
M10's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness		k	k ₁	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm	mm
250 x 68	M250 x 13.4	M10 x 9	13.4	1710	254	68	4.6	3.6	12.2	9.4	229.6	7.62
	M250 x 11.9	M10 x 8	11.9	1520	253	68	5.2	4.0	12.8	9.6	227.4	7.62
	M250 x 11.2	M10 x 7.5	11.2	1430	253	68	4.6	3.3	12.2	9.3	228.6	7.62





Nominal Shape Dimensions

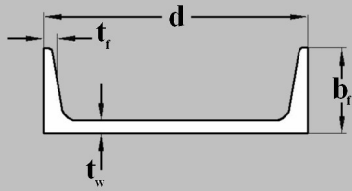
M310

Comparable Imperial Shapes

M12's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance			Fillet Radius
			M	A	d	Width	Thickness					
			kg/m	mm ²	mm	b _f	t _f	t _w	k	k ₁	T	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm	mm
318 x 95	M310 x 18.5	M12.5x112.4	18.5	2361	318	95	5.8	3.9	13.4	9.6	291.2	7.62
310 x 75	M310 x 17.6	M12x11.8	17.6	2240	305	78	5.7	4.5	13.3	9.9	278.4	7.62
	M310 x 16.1	M12x10.8	16.1	2050	304	78	5.3	4.1	12.9	9.7	278.2	7.62
	M310 x 14.9	M12x10	14.9	1900	304	83	4.6	3.8	12.2	9.5	279.6	7.62



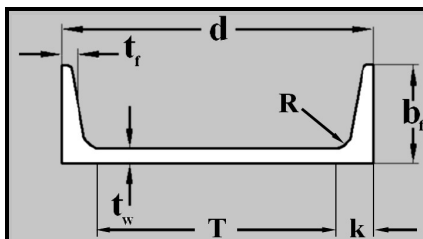


Metric Sections

C-Shaped Channels

Metric Sizes		Comparable Inch-Pound Sizes			Metric Sizes		Comparable Inch-Pound Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(mm x mm)	(kg/m)	(in x in)	(lbs/ft)		(mm x mm)	(kg/m)	(in x in)	(lbs/ft)
200 x 63.5	17.1 – 27.9	8 x 2.5	11.5 -18.75		310 x 75	30.8 – 45	12 x 3	20.7 – 30
250 x 70	22.8 - 45	10 x 2.75	15.3 - 30		380 x 90	50.4 - 74	15 x 3.5	33.9 - 50



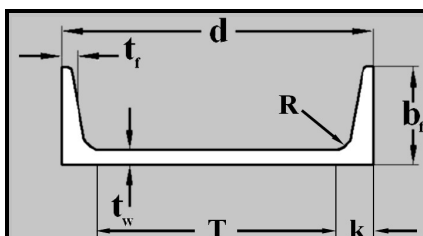


Nominal Shape Dimensions

C200

Comparable Imperial Shapes
C8's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
			M	A	d	Width	Thickness				
			kg/m	mm ²	mm	b _f	t _f		k	T	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm
200 x 63.5	C200x27.9	C8x18.75	27.9	3550	203	64	9.9	12.4	20.3	162.4	8.0
	C200x20.5	C8x13.75	20.5	2610	203	59	9.9	7.7	20.3	162.4	8.0
	C200x17.1	C8x11.5	17.1	2180	203	57	9.9	5.6	20.3	162.4	8.0



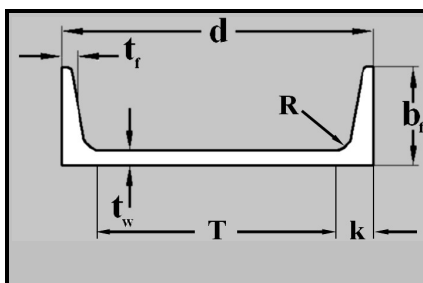
Nominal Shape Dimensions

C250

Comparable Imperial Shapes
C10's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
			M	A	d	Width	Thickness				
			kg/m	mm ²	mm	b _f	t _f		k	T	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm
250 x 70	C250 x 45	C10 x 30	45	5690	254	76	11.1	17.1	25.9	202.3	12.0
	C250 x 37	C10 x 25	37	4740	254	73	11.1	13.4	25.9	202.3	12.0
	C250 x 30	C10 x 20	30	3790	254	73	11.1	9.6	25.9	202.3	12.0
	C250 x 22.8	C10 x 15.3	22.8	2900	254	65	11.1	6.1	25.9	202.3	12.0



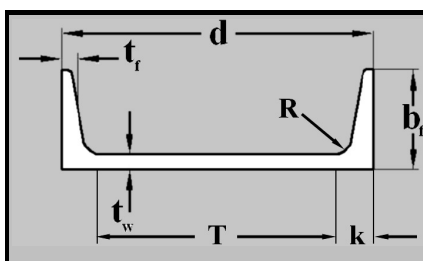


Nominal Shape Dimensions

C310

Comparable Imperial Shapes
C12's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
			M	A	d	Width	Thickness		k	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm
310 x 75	C310 x 45	C12x30	45	5690	305	80	12.7	13.0	27.9	249.2	12.0
	C310 x 37	C12x25	37	4740	305	77	12.7	9.8	27.9	249.2	12.0
	C310 x 30.8	C12x20.7	30.8	3930	305	74	12.7	7.2	27.9	249.2	12.0



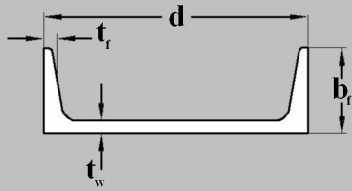
Nominal Shape Dimensions

C380

Comparable Imperial Shapes
C15's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
			M	A	d	Width	Thickness		k	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm
380 x 90	C380 x 74	C15x50	74	9480	381	94	16.5	18.2	33.4	314.2	14.0
	C380 x 60	C15x40	60	7610	381	89	16.5	13.2	33.4	314.2	14.0
	C380 x 50.4	C15x33.9	50.4	6430	381	86	16.5	10.2	33.4	314.2	14.0



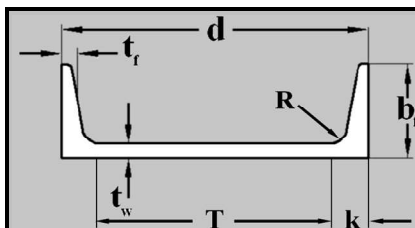


Metric Sections

MC-Shaped Channels

Metric Sizes		Comparable Inch-Pound Sizes			Metric Sizes		Comparable Inch-Pound Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(mm x mm)	(kg/m)	(in x in)	(lbs/ft)		(mm x mm)	(kg/m)	(in x in)	(lbs/ft)
250 x 25	9.7 – 12.5	10 x 1	6.5 – 8.4		250 x 76	33 - 37	10 x 3	22 - 25
310 x 51	15.8 – 21.3	12 x 2	10.6 – 14.3					



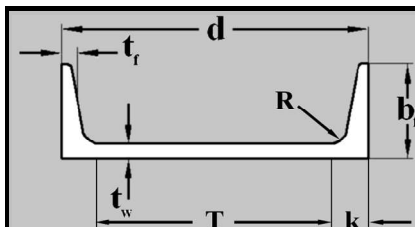


Nominal Shape Dimensions

MC250

Comparable Imperial Shapes
MC10's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
			M	A	d	Width	Thickness		k	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm
250 x 76	MC250 x 37	MC10 x 25	37	4740	254	86	14.6	9.7	12.9	228.3	6.5
250 x 76	MC250 x 33	MC10 x 22	33	4160	254	84	14.6	7.4	12.9	228.3	6.5
250 x 25	MC250 x 12.5	MC10 x 8.4	12.5	1590	254	38	7.1	4.3	12.9	228.3	6.5
250 x 25	MC250 x 9.7	MC10 x 6.5	9.7	1240	254	28	5.1	3.9	12.9	228.3	6.5



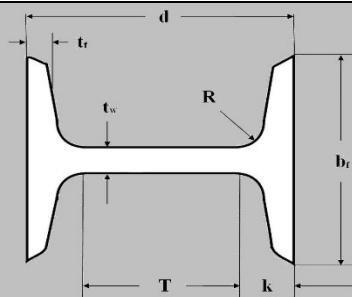
Nominal Shape Dimensions

MC310

Comparable Imperial Shapes
MC12's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
			M	A	d	Width	Thickness		k	T	R
			kg/m	mm ²	mm	b _f	t _f		mm	mm	mm
310 x 51	MC310 x 21.3	MC12 x 14.3	21.3	2700	305	54	8.0	6.4	15.8	273.5	8.0
310 x 51	MC310 x 15.8	MC12 x 10.6	15.8	2000	305	38	7.8	4.8	15.8	273.5	8.0



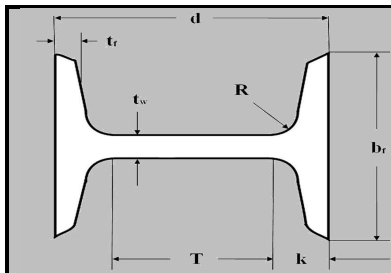


Metric Sections

S-Shapes

Metric Sizes		Comparable Inch-Pound Sizes			Metric Sizes		Comparable Inch-Pound Sizes	
Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group		Prime Section Group	Weight range in Group	Prime Section Group	Weight range in Group
(mm x mm)	(kg/m)	(in x in)	(lbs/ft)		(mm x mm)	(kg/m)	(in x in)	(lbs/ft)
310 x 129	47.3 – 52	12 x 5	31.8 – 35		460 x 152	81.4 – 104	18 x 6	54.7 – 70
310 x 139	60.7 – 74	12 x 5.5	40.8 – 50		510 x 159	98 – 112	20 x 6.25	66 – 75
380 x 140	64 – 74	15 x 5.5	42.9 - 50		510 x 179	128 – 143	20 x 7	86 – 96
					610 x 178	119 – 149	24 x 7	80 – 100
					610 x 200	158 – 180	24 x 8	106 - 121





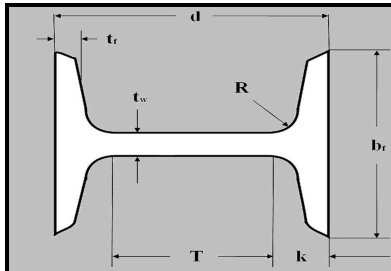
Nominal Shape Dimensions

S310

Comparable Imperial Shapes

S12's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
						Width	Thickness				
			M	A	d	b _f	t _f	t _w	k	T	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm
310 x 139	S310 x 74	S12 x 50	74	9480	305	139	16.7	17.4	32.8	239.4	14.2
	S310 x 60.7	S12 x 40.8	60.7	7740	305	133	16.7	11.7	32.8	239.4	14.2
310 x 129	S310 x 52	S12 x 35	52	6650	305	129	13.8	10.9	26.9	251.2	11.4
	S310 x 47.3	S12 x 31.8	31.8	6030	305	127	13.8	8.9	26.9	251.2	11.4



Nominal Shape Dimensions

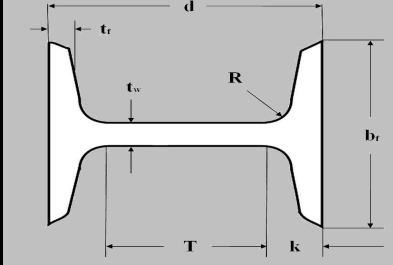
S380

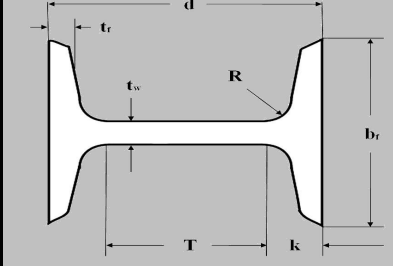
Comparable Imperial Shapes

S15's

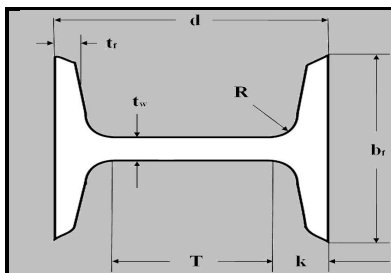
Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
						Width	Thickness				
			M	A	d	b _f	t _f	t _w	k	T	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm
380 x 140	S380 x 74	S15 x 50	74	9480	381	143	15.8	14.0	29.8	321.5	13.0
	S380 x 64	S15 x 42.9	64	8130	381	140	15.8	10.4	29.8	321.5	13.0



 <div> <h1>Nominal Shape Dimensions</h1> <h1>S460</h1> <p>Comparable Imperial Shapes S18's</p> </div>											
Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
			M	A	d	Width	Thickness				
			kg/m	mm ²	mm	b _f	t _f	t _w	k	T	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm
460 x 152	S460 x 104	S18 x 70	104	13300	457	159	17.6	18.1	34.5	388.1	14.2
	S460 x 81.4	S18 x 54.7	81.4	10400	457	152	17.6	11.7	34.5	388.1	14.2

 <div> <h1>Nominal Shape Dimensions</h1> <h1>S510</h1> <p>Comparable Imperial Shapes S20's</p> </div>											
Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
			M	A	d	Width	Thickness				
			kg/m	mm ²	mm	b _f	t _f	t _w	k	T	R
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	mm
510 x 159	S510 x 112	S20 x 75	112	4200	508	162	20.2	16.1	38.2	431.6	15.2
	S510 x 98	S20 x 66	98	12500	508	159	20.2	12.8	38.2	431.6	15.2
510 x 179	S510 x 143	S20 x 96	143	18200	516	183	23.4	20.3	42.9	430.2	15.2
	S510 x 128	S20 x 86	128	16300	516	179	23.4	16.8	42.9	430.2	15.2





Nominal Shape Dimensions

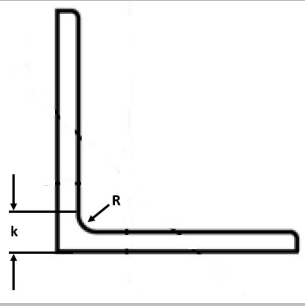
S610

Comparable Imperial Shapes

S24's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Depth	Flange		Web Thickness	Detailing Distance		Fillet Radius
						Width	Thickness				
			M	A	d	b _f	t _f		t _w	k	T
	mm x kg/m	ln x lbs/ft	kg/m	mm ²	mm	mm	mm	mm	mm	mm	
610 x 178	S610 x 149	S24 x 100	149	18900	610	184	22.1	18.9	40.6	528.8	15.2
	S610 x 134	S24 x 90	134	17100	610	181	22.1	15.9	40.6	528.8	15.2
	S610 x 119	S24 x 80	119	15200	610	178	22.1	12.7	40.6	528.8	15.2
610 x 200	S610 x 180	S24 x 121	180	23000	622	204	27.7	20.3	46.7	528.7	15.2
	S610 x 158	S24 x 106	158	20100	622	200	27.7	15.7	46.7	528.7	15.2





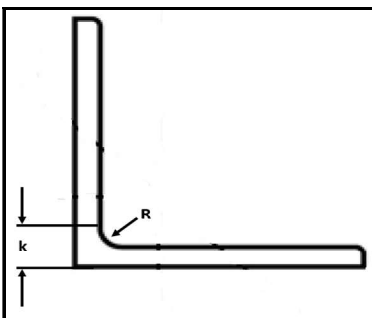
Metric Sections

L-Shapes

Equal and Unequal

Imperial Sizes		Metric Sizes			Imperial Sizes		Metric Sizes	
Prime Section Group	Thickness range in Group	Prime Section Group	Thickness range in Group		Prime Section Group	Thickness range in Group	Prime Section Group	Thickness range in Group
(in x in)	(in)	(mm x mm)	(mm)		(in x in)	(in)	(mm x mm)	(mm)
5 x 5	5/16 – 7/8	127 x 127	7.9 – 22.2		6 x 4	5/16 – 7/8	152 x 102	7.9 – 22.2
6 x 6	5/16 – 1	152 x 152	7.9 – 25.4		7 x 4	3/8 – 3/4	178 x 102	9.5 – 19.0
8 x 8	1/2 – 1 1/8	203 x 203	12.7 – 28.6		8 x 4	7/16 – 1	203 x 102	11.1 – 25.4
					8 x 6	7/16 – 1	203 x 152	11.1 – 25.4





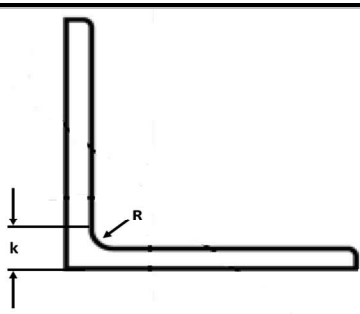
Nominal Shape Dimensions

L127

Comparable Imperial Shapes
L5's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Thickness	Detailing Distance	Fillet Radius
			M	A	t _f	k	R
			kg/m	mm ²	mm	mm	mm
127 x 127	L127 X127 X 22.2	L5 x 5 x 7/8	40.5	5150	22.2	32.9	10.7
	L127 X127 X 19.0	L5 x 5 x 3/4	35.1	4480	19.0	29.7	10.7
	L127 X127 X 15.9	L5 x 5 x 5/8	29.8	3780	15.9	26.6	10.7
	L127 X127 X 12.7	L5 x 5 x 1/2	24.1	3070	12.7	23.4	10.7
	L127 X127 X 11.1	L5 x 5 x 7/16	21.3	2700	11.1	21.8	10.7
	L127 X127 X 9.5	L5 x 5 x 3/8	18.3	2330	9.5	20.2	10.7
	L127 X127 X 7.9	L5 x 5 x 5/16	15.3	1960	7.9	18.6	10.7





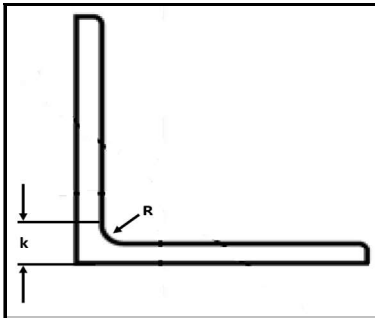
Nominal Shape Dimensions

L152

Comparable Imperial Shapes
L6's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Thickness	Detailing Distance	Fillet Radius
			M	A	t _f	k	R
			kg/m	mm ²	mm	mm	mm
152 x 102	L152 x102 x 22.2	L6 x 4 x 7/8	40.3	5150	22.2	32.9	10.7
	L152 x102 x 19.0	L6 x 4 x 3/4	35.0	4480	19.0	29.7	10.7
	L152 x102 x 15.9	L6 x 4 x 5/8	29.6	1780	15.9	26.6	10.7
	L152 x102 x 14.3	L6 x 4 x 9/16	26.8	3430	14.3	25.0	10.7
	L152 x102 x 12.7	L6 x 4 x 1/2	24.0	3060	12.7	23.4	10.7
	L152 x102 x 11.1	L6 x 4 x 7/16	21.2	2700	11.1	21.8	10.7
	L152 x102 x 9.5	L6 x 4 x 3/8	18.2	2330	9.5	20.2	10.7
	L152 x102 x 7.9	L6 x 4 x 5/16	15.3	1950	7.9	18.6	10.7
152 x 152	L152 x 152 x 25.4	L6 x 6 x 1	55.7	7100	25.4	37.6	12.2
	L152 x 152 x 22.2	L6 x 6 x 7/8	49.3	6280	22.2	34.4	12.2
	L152 x 152 x 19.0	L6 x 6 x 3/4	42.7	5450	19.0	31.2	12.2
	L152 x 152 x 15.9	L6 x 6 x 5/8	36.0	4590	15.9	28.1	12.2
	L152 x 152 x 14.3	L6 x 6 x 9/16	32.6	4150	14.3	26.5	12.2
	L152 x 152 x 12.7	L6 x 6 x 1/2	29.2	3710	12.7	24.9	12.2
	L152 x 152 x 11.1	L6 x 6 x 7/16	25.6	3270	11.1	23.3	12.2
	L152 x 152 x 9.5	L6 x 6 x 3/8	22.2	2810	9.5	21.7	12.2
	L152 x 152 x 7.9	L6 x 6 x 5/16	18.5	2360	7.9	20.1	12.2





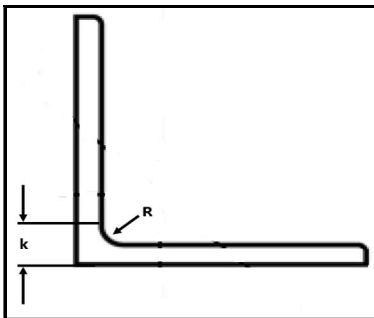
Nominal Shape Dimensions

L178

Comparable Imperial Shapes
L7's

Prime Section Group	Section Name	Comparable Imperial Section	Weight	Area	Thickness	Detailing Distance	Fillet Radius
			M	A	t _f	k	R
			kg/m	mm ²	mm	mm	mm
178 x 102	L178 x102 x 19.0	L7 x 4 x 3/4	38.8	4960	19.0	29.7	10.7
	L178 x102 x 15.9	L7 x 4 x 5/8	32.7	4180	15.9	26.6	10.7
	L178 x102 x 12.7	L7 x 4 x 1/2	26.5	3390	12.7	23.4	10.7
	L178 x102 x 11.1	L7 x 4 x 7/16	23.4	2980	11.1	21.8	10.7
	L178 x102 x 9.5	L7 x 4 x 3/8	20.2	2570	9.5	20.2	10.7





Nominal Shape Dimensions

L203

Comparable Imperial Shapes
L8's

Prime Section Group	Section Name	Comparable Imperial Section	Mass	Area	Thickness	Detailing Distance	Fillet Radius
			M	A	t _f	k	R
			kg/m	mm ²	mm	mm	mm
203 x 203	L203 x 203 x 28.6	L8 x 8 x 1 1/8	84.7	10800	28.6	41.3	12.7
	L203 x 203 x 25.4	L8 x 8 x 1	75.9	9680	25.4	38.1	12.7
	L203 x 203 x 22.2	L8 x 8 x 7/8	67.0	8500	22.2	34.9	12.7
	L203 x 203 x 19.0	L8 x 8 x 3/4	57.9	7360	19.0	31.7	12.7
	L203 x 203 x 15.9	L8 x 8 x 5/8	48.7	6200	15.9	28.6	12.7
	L203 x 203 x 14.3	L8 x 8 x 9/16	44.0	5600	14.3	27.0	12.7
	L203 x 203 x 12.7	L8 x 8 x 1/2	39.3	5000	12.7	25.4	12.7
203 x 152	L203 x 152 x 25.4	L8 x 6 x 1	65.5	8390	25.4	37.6	12.2
	L203 x 152 x 22.2	L8 x 6 x 7/8	57.9	7420	22.2	34.4	12.2
	L203 x 152 x 19.0	L8 x 6 x 3/4	50.1	6410	19.0	31.2	12.2
	L203 x 152 x 15.9	L8 x 6 x 5/8	42.2	5390	15.9	28.1	12.2
	L203 x 152 x 14.3	L8 x 6 x 9/16	38.1	4880	14.3	26.5	12.2
	L203 x 152 x 12.7	L8 x 6 x 1/2	34.1	4350	12.7	24.9	12.2
	L203 x 152 x 11.1	L8 x 6 x 7/16	29.9	3830	11.1	23.3	12.2
203 x 102	L203 x 102 x 25.4	L8 x 4 x 1	55.4	7100	25.4	36.1	10.7
	L203 x 102 x 22.2	L8 x 4 x 7/8	49.3	6280	22.2	32.9	10.7
	L203 x 102 x 19.0	L8 x 4 x 3/4	42.5	5450	19.0	29.7	10.7
	L203 x 102 x 15.9	L8 x 4 x 5/8	36.0	4590	15.9	26.6	10.7
	L203 x 102 x 14.3	L8 x 4 x 9/16	32.4	4150	14.3	25.0	10.7
	L203 x 102 x 12.7	L8 x 4 x 1/2	29.0	3710	12.7	23.4	10.7
	L203 x 102 x 11.1	L8 x 4 x 7/16	25.6	3260	11.1	21.8	10.7



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