

WIDE FLANGE



Wide Flange beams can be used for **cross bracing**, which is utilized to reinforce building structures when diagonal supports intersect. The common uses for cross bracing include bridges (for side supports) along with structural foundations. This method maximizes the weight of the load a structure is able to support.

Wide Flange beams can also be used for **waler systems**, which are designed for soil conditions that are less stable, such as C-60 and C-80 Soil Types, requiring tight or intermittent Sheet Piling. They offer protection and system flexibility needed to work around crossing utilities and repair points in addition to producing trenches.



Wide Flange beams may also be used for **earth retention systems (retaining walls)**, which are structures designed and constructed to resist the lateral pressure of the soil when there is a desired change in ground elevation that exceeds the angle at which the soil rests.

Retaining walls are built to hold back soil which would otherwise move. Their purpose is to stabilize slopes so that areas of different elevations can co-exist. Common examples of these areas are surrounding highways, buildings, and railways.

When Wide Flange is used for retaining walls, the piling is drilled rather than driven. The process removes soil from the ground and the resulting round hole is filled with concrete around the Wide Flange.

Generally (whether driven with H-Pile or drilled with Wide Flange), the design of these wall systems require the piling to have 2/3 of its length below the ground, leaving 1/3 of the beam above ground. But this may vary depending on environmental conditions, and the specific requirements deemed necessary by the engineers developing the plans.

In this section of the catalog, along with specifications for Wide Flange, you'll also find information on Wide Flange accessories such as:

CONNECTORS

Connectors are made to highly stringent standards that form precise, seamless connections between steel Sheet Pile, and other support systems, such as H-Piles, Wide Flange and Pipe Piling.



WIDE FLANGE & H-PILE: HOW ARE THEY DIFFERENT?

While Wide Flange and H-Pile look almost identical in shape, some key differences to consider make them both better for certain applications.

Wide Flanges are doubly-symmetric shapes with parallel inside flange surfaces. While Wide Flanges can be nearly square in shape, usually they are rectangular in shape and can range from lightweight, (as little as, 14 lbs per foot) to heavyweight, (over 400 lbs per foot.)

H-piles have parallel flange surfaces, as well as equal web and flange thicknesses. They are always square, meaning their depth and flange thickness are always equal or nearly equal in measurement.



Wide Flange



H-Pile

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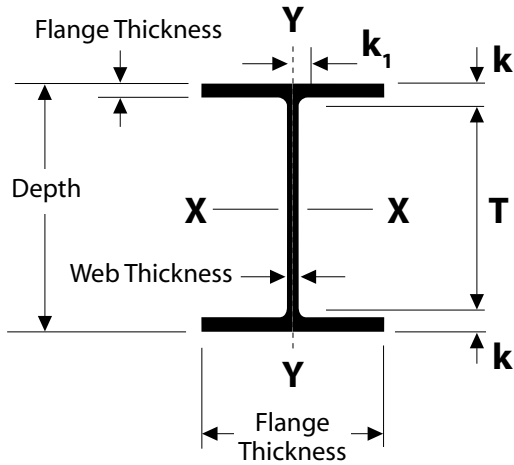
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WIDE FLANGE Specifications



WIDE FLANGE 4", 5" AND 6" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP		WEIGHT	AREA	DEPTH	FLANGE WIDTH	FLANGE	WEB	DETAILING DISTANCE			FILLET RADIUS	
								k	k ₁	T	R	R
								in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
4 x 4 100x100	W4 x 13 W100 x 19.3	13 19.3	3.83 2,470	4.16 106	4.060 103	0.345 8.8	0.280 7.1	0.680 17.4	1.490 38.2	2.670 67.8	0.400 10.29	3/8
	W5 x 19 W130 x 28.1	19 28.1	5.54 3,590	5.15 131	5.030 128	0.430 10.9	0.270 6.9	0.670 17.2	1.660 42.4	3.490 88.6	0.400 10.29	3/8
	W5 x 16 W130 x 23.8	16 23.8	4.68 3,040	5.01 127	5.000 127	0.360 9.1	0.240 6.1	0.640 16.4	1.520 38.8	3.490 88.2	0.400 10.29	3/8

PRIME SECTION GROUP		WT	AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS					
						FLANGE	WEB	k	k ₁	T		X-X			Y-Y			Z _x	Z _y				
						in	in	in	in	in		in	in	in	in	I _x	S _x	r _x	I _y	S _y	r _y	in	in
						(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	in ⁴ (mm)	in ³ (mm)	in (mm)	in ⁴ (mm)	in ³ (mm)	in (mm)	in (mm)	in (mm)
6 x 6 150 x 150	W6 x 25 W150 x 37.1	25 37.1	7.34 4,760	6.38 162	6.080 154	0.455 11.6	0.320 8.1	0.873 21.6	0.515 12.6	4.635 118.8	0.36 8.5	53.6 22.3	16.9 276	2.71 68.5	17.1 7.07	5.61 91.8	1.52 38.5	19.1 312	8.58 140				
	W6 x 20 W150 x 29.8	20 29.8	5.87 3,820	6.20 157	6.020 153	0.365 9.3	0.260 6.6	0.783 19.3	0.485 11.8	4.635 118.4	0.36 8.5	41.5 17.3	13.5 220	2.67 67.2	13.3 5.56	4.41 72.6	1.50 38.1	15.1 246	6.72 111				
	W6 x 15 W150 x 22.5	15 22.5	4.43 2,870	5.99 152	5.990 152	0.260 6.6	0.230 5.8	0.678 16.6	0.470 11.4	4.635 118.8	0.36 8.5	29.3 12.2	9.77 160	2.58 65.1	9.32 3.87	3.11 50.9	1.45 36.7	10.8 178	4.75 77.7				
	W6 x 16 W150 x 24	16 24	4.90 3,160	6.28 160	4.030 102	0.405 10.3	0.260 6.6	0.810 20.6	0.535 13.6	4.660 118.8	0.405 10.29	0.400 10.16	0.810 20.6	0.535 13.6	4.660 118.8	0.810 20.6	0.810 20.6	0.535 13.6	4.660 118.8				
	W6 x 12 W150 x 18	12 18	3.71 2,392	6.03 153	4.000 102	0.280 7.1	0.230 5.8	0.685 17.4	0.520 13.2	4.660 118.2	0.405 10.29	0.400 10.16	0.685 17.4	0.520 13.2	4.660 118.2	0.685 17.4	0.685 17.4	0.520 13.2	4.660 118.2				
	W6 x 9 W150 x 13.5	9 13.5	2.84 1,836	5.90 150	3.940 100	0.215 5.5	0.170 4.3	0.620 15.8	0.490 12.4	4.660 118.4	0.405 10.29	0.400 10.16	0.620 15.8	0.490 12.4	4.660 118.4	0.620 15.8	0.620 15.8	0.490 12.4	4.660 118.4				
	W6 x 8.5 W150 x 13	8.5 13	2.67 1,713	5.83 148	3.940 100	0.194 4.9	0.170 4.3	0.599 15.2	0.490 12.4	4.632 117.6	0.405 10.29	0.400 10.16	0.599 15.2	0.490 12.4	4.632 117.6	0.599 15.2	0.599 15.2	0.490 12.4	4.632 117.6				

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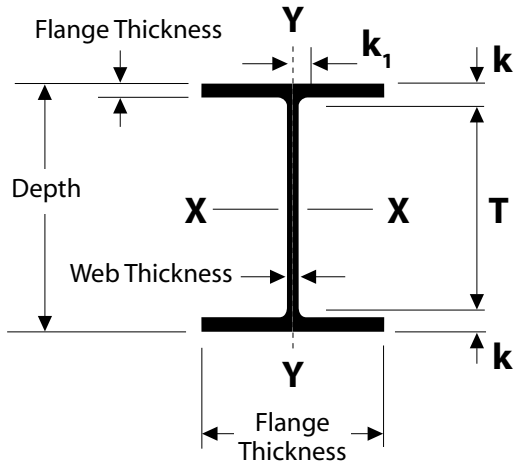
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WIDE FLANGE Specifications



WIDE FLANGE

8"

with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP			THICKNESS		DISTANCE			ELASTIC PROPERTIES						PLASTIC MODULUS					
	WT	AREA	DPT	FLANGE WIDTH	FLANGE WEB		k	k ₁	T	FILLET RADIUS R	X-X			Y-Y			Z _x	Z _y	
					in	in					I _x	S _x	r _x	I _y	S _y	r _y			
	in x lbs/ft	lb/ft	in ²	in	in	in	in	in	in	in	in ⁴	in ³	in	in ⁴	in ³	in	in ³	in ³	
8 x 8 200 x 200	W8 x 67 W200 x 100	67 100	19.7 12,700	9.00 229	8.280 210	0.935 23.7	0.570 14.5	1.510 38	0.797 20	5.981 153	0.510 13	272 113	60.4 990	3.72 94.5	88.6 36.9	21.4 351	2.12 53.8	70.1 1,149	32.7 536
	W8 x 58 W200 x 86	58 86	17.1 11,000	8.75 222	8.220 209	0.810 20.6	0.510 13.0	1.385 35	0.767 20	5.981 152	0.510 13	228 94.9	52.0 852	3.65 92.7	75.1 31.3	18.3 300	2.10 53.3	59.8 980	27.9 457
	W8 x 48 W200 x 71	48 71	14.1 9,100	8.50 216	8.110 206	0.685 17.4	0.400 10.2	1.260 32	0.712 18	5.981 152	0.510 13	184 76.6	43.2 708	3.61 91.7	60.9 25.3	15.0 246	2.08 52.8	49.0 803	22.9 375
	W8 x 40 W200 x 59	40 59	11.7 7,550	8.25 210	8.070 205	0.560 14.2	0.360 9.1	1.135 29	0.692 18	5.981 153	0.510 13	146 60.8	35.5 582	3.53 89.7	49.1 20.4	12.2 200	2.04 51.8	39.8 652	18.5 303
	W8 x 35 W200 x 52	35 52	10.3 6,650	8.12 206	8.020 204	0.495 12.6	0.310 7.9	1.070 27	0.667 17	5.981 152	0.510 13	127 52.9	31.2 511	3.51 89.2	42.6 17.7	10.6 174	2.03 51.6	34.7 569	16.1 264
	W8 x 31 W200 x 46.1	31 46.1	9.13 5,860	8.00 203	7.995 203	0.435 11.0	0.285 7.2	1.010 26	0.655 17	5.981 152	0.510 13	110 45.8	27.5 451	3.47 88.1	37.1 15.4	9.27 152	2.02 51.3	30.4 498	14.1 231
	W8 x 28 W200 x 41.7	28 41.7	8.25 5,320	8.06 205	6.535 166	0.465 11.8	0.285 7.2	1.040 26	0.655 17	5.981 152	0.510 13	98.0 40.8	24.3 398	3.45 87.6	21.7 9.03	6.63 109	1.62 41.1	27.2 446	10.1 166
	W8 x 24 W200 x 35.9	24 35.9	7.08 4,570	7.93 201	6.495 165	0.400 10.2	0.245 6.2	0.975 25	0.635 16	5.981 152	0.510 13	82.7 34.4	20.9 342	3.42 86.9	18.3 7.62	5.63 92.3	1.61 40.9	23.1 379	8.57 140
	W8 x 21 W200 x 31.3	21 31.3	6.16 4,030	8.28 210	5.270 134	0.400 10.2	0.250 6.4	0.857 22	0.519 13	6.567 167	0.390 10	75.3 31.7	18.2 10.16	3.49 12.4	9.77 12.4	3.71 12.4	1.26 12.4	20.4 12.4	5.69 12.4
	W8 x 18 W200 x 26.6	18 26.6	5.26 3,420	8.14 207	5.250 133	0.330 8.4	0.230 5.8	0.787 20	0.509 13	6.567 167	0.390 10	61.9 26.1	15.2 10.16	3.43 12.4	7.97 12.4	3.04 12.4	1.23 12.4	17.0 12.4	4.66 12.4
W8 x 15 W200 x 22.5	15 22.5	4.44 3,009	8.11 206	4.015 102	0.315 8.0	0.245 6.2	0.720 20	0.528 15.1	6.670 166	0.300 10.16	48.0 34.4	11.8 34.4	3.29 34.4	3.41 34.4	1.70 34.4	0.876 34.4	13.6 34.4	2.67 34.4	
W8 x 13 W200 x 19.3	13 19.3	3.84 2,627	7.99 203	4.000 102	0.255 6.5	0.230 5.8	0.660 18.5	0.520 14.9	6.670 166	0.300 10.16	39.6 31.7	9.91 31.7	3.21 31.7	2.73 31.7	1.37 31.7	0.843 31.7	11.4 31.7	2.15 31.7	
W8 x 10 W200 x 15	10 15	2.96 2,055	7.89 200	3.940 100	0.205 5.2	0.170 4.3	0.610 17.2	0.490 14.2	6.670 165.6	0.300 10.16	30.8 26.1	7.81 26.1	3.22 26.1	2.09 26.1	1.06 26.1	0.841 26.1	8.87 26.1	1.66 26.1	

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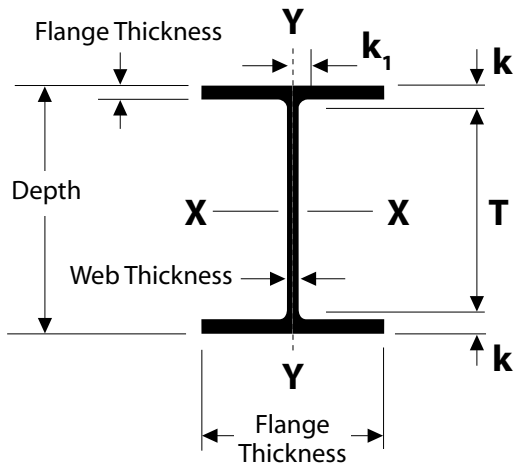
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WIDE FLANGE Specifications



WIDE FLANGE

10"

with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP		THICKNESS		DISTANCE			ELASTIC PROPERTIES						PLASTIC MODULUS									
		WT AREA		DPT	FLANGE WIDTH		FLANGE		WEB	k	k ₁	T	FILLET RADIUS R			X-X		Y-Y			Z _x	Z _y
		in x lbs/ft	lb/ft	in ²	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in	in
		(mm x kg/m)	(kg/m)	(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
10 x 10 250 x 250	W10 x 112 W250 x 167	112 167	32.9 21,200	11.36 289	10.415 265	1.250 31.8	0.755 19.2	2.061 52	1.126 29	7.239 184	0.75 19	716 298	126 2,065	4.66 118	236 98.2	45.3 742	2.68 68.1	147 2,409	69.2 1,134			
	W10 x 100 W250 x 149	100 149	29.4 19,000	11.10 282	10.340 263	1.120 28.4	0.680 17.3	1.931 49	1.088 28	7.239 184	0.75 19	623 259	112 1,835	4.60 117	207 86.2	40.0 655	2.65 67.3	130 2,130	61.0 1,000			
	W10 x 88 W250 x 131	88 131	25.9 16,700	10.84 275	10.265 261	0.990 25.1	0.605 15.4	1.801 46	1.051 27	7.239 184	0.75 19	534 222	98.5 1,614	4.54 115	179 74.5	34.8 570	2.63 66.8	113 1,852	53.1 870			
	W10 x 77 W250 x 115	77 115	22.6 14,600	10.60 269	10.190 259	0.870 22.1	0.530 13.5	1.681 43	1.013 26	7.239 184	0.75 19	455 189	85.9 1,408	4.49 114	154 64.1	30.1 493	2.60 66.0	97.6 1,599	45.9 752			
	W10 x 68 W250 x 101	68 101	20.0 12,900	10.40 264	10.130 257	0.770 19.6	0.470 11.9	1.581 40	0.983 25	7.239 184	0.75 19	394 164	75.7 1,240	4.44 113	134 55.8	26.4 433	2.59 65.8	85.3 1,398	40.1 657			
	W10 x 60 W250 x 89	60 89	17.6 11,400	10.22 260	10.080 256	0.680 17.3	0.420 10.7	1.491 38	0.958 24	7.239 184	0.75 19	341 142	66.7 1,093	4.39 112	116 48.3	23.0 377	2.57 65.3	74.6 1,222	35.0 574			
	W10 x 54 W250 x 80	54 80	15.8 10,200	10.09 256	10.030 255	0.615 15.6	0.370 9.4	1.426 36	0.933 24	7.239 184	0.75 19	303 126	60.0 983	4.37 111	103 42.9	20.6 338	2.56 65.0	66.6 1,091	31.3 513			
	W10 x 49 W250 x 73	49 73	14.4 9,290	9.98 253	10.000 254	0.560 14.2	0.340 8.6	1.371 35	0.918 23	7.239 184	0.75 19	272 113	54.6 895	4.35 110	93.4 38.9	18.7 306	2.54 64.5	60.4 990	28.3 464			
	W10 x 45 W250 x 67	45 67	13.3 8,580	10.10 257	8.020 204	0.620 15.7	0.350 8.9	1.431 36	0.923 23	7.239 185	0.75 19	248 103	49.1 805	4.32 110	53.4 22.2	13.3 218	2.01 51.1	54.9 900	20.3 333			
	W10 x 39 W250 x 58	39 58	11.5 7,420	9.92 252	7.985 203	0.530 13.5	0.315 8.0	1.341 34	0.906 23	7.239 184	0.75 19	209 87	42.1 690	4.27 108	45.0 18.7	11.3 185	1.98 50.3	46.8 767	17.2 282			
W10 x 33 W250 x 49.1	33 49.1	9.71 6,260	9.73 247	7.960 202	0.435 11.0	0.290 7.4	1.246 32	0.893 23	7.239 184	0.75 19	171 71.2	35.0 574	4.19 106	36.6 15.2	9.20 151	1.94 49.3	38.8 636	14.0 229				
W10 x 30 W250 x 44.8	30 44.8	8.84 5,700	10.47 266	5.810 148	0.510 13.0	0.300 7.6	0.908 23	0.485 12	8.655 220	0.34 8.5	170 70.8	32.4 531	4.38 111	16.7 6.95	5.75 94.2	1.37 34.8	36.6 600	8.84 145				
W10 x 26 W250 x 38.5	26 38.5	7.61 4,910	10.33 262	5.770 147	0.440 11.2	0.260 6.6	0.838 21	0.465 12	8.655 220	0.34 8.5	144 59.9	27.9 457	4.35 110	14.1 5.87	4.89 80.1	1.36 34.5	31.3 513	7.50 123				
W10 x 22 W250 x 32.7	22 32.7	6.49 4,190	10.17 258	5.750 146	0.360 9.1	0.240 6.1	0.758 19	0.455 12	8.655 220	0.34 8.5	118 49.1	23.2 380	4.27 108	11.4 4.75	3.97 65.1	1.33 33.8	26.0 426	6.10 100				

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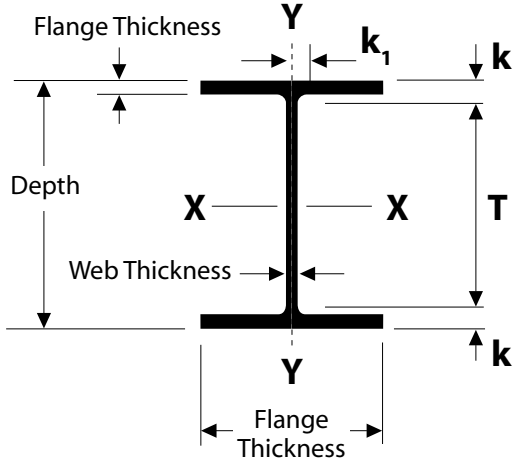
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WIDE FLANGE

Specifications



WIDE FLANGE

12"

with mm equivalents

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PRIME SECTION GROUP

12 x 12
310 x 310

	WT AREA		DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS	
	FLANGE WEB				k	k ₁	T	X-X			Y-Y			Z _x	Z _y			
	in	in						I _x	S _x		r _x	I _y	S _y			r _y		
in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in ² (mm ²)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in ⁴ (mm ⁴)	in ³ (mm ³)	in (mm)	in ⁴ (mm ⁴)	in ³ (mm ³)	in (mm)	in (mm)	in (mm)	in (mm)
W12 x 336 W310 x 500	336 500	98.8 63,900	16.82 427	13.385 340	2.955 75.1	1.775 45.1	3.805 97	1.675 43	9.211 234	0.790 20	4070 1,690	484 7,915	6.42 163	1190 495	177 2,900	3.47 88.1	603 9,881	274 4,490
W12 x 305 W310 x 454	305 454	89.6 58,000	16.32 415	13.235 336	2.705 68.7	1.625 41.3	3.555 90	1.600 41	9.211 234	0.790 20	3550 1,478	435 7,128	6.30 160	1050 437	159 2,606	3.42 86.9	537 8,800	244 3,998
W12 x 279 W310 x 415	279 415	81.9 53,000	15.85 403	13.140 334	2.470 62.7	1.530 38.9	3.320 84	1.552 39	9.211 234	0.790 20	3110 1,294	394 6,440	6.16 156	937 390	143 2,343	3.38 85.9	481 7,882	220 3,605
W12 x 252 W310 x 375	252 375	74.1 47,900	15.41 391	13.005 330	2.250 57.2	1.395 35.4	3.100 79	1.485 38	9.211 234	0.790 20	2720 1,132	354 5,785	6.06 154	828 345	127 2,081	3.34 84.8	428 7,014	196 3,212
W12 x 230 W310 x 342	230 342	67.7 43,800	15.05 382	12.895 328	2.070 52.6	1.285 32.6	2.920 74	1.430 36	9.211 234	0.790 20	2420 1,007	322 5,260	5.97 152	742 309	115 1,885	3.31 84.1	386 6,325	177 2,900
W12 x 210 W310 x 313	210 313	61.8 40,000	14.71 374	12.790 325	1.900 48.3	1.180 30.0	2.750 70	1.377 35	9.211 234	0.790 20	2140 891	292 4,785	5.89 150	664 276	104 1,704	3.28 83.3	348 5,703	159 2,606
W12 x 190 W310 x 283	190 283	55.8 36,200	14.38 365	12.670 322	1.735 44.1	1.060 26.9	2.585 66	1.317 33	9.211 234	0.790 20	1890 787	263 4,310	5.82 148	589 245	93.1 1,524	3.25 82.6	311 5,096	143 2,343
W12 x 170 W310 x 253	170 253	50.0 32,400	14.03 356	12.570 319	1.560 39.6	0.960 24.4	2.410 61	1.267 32	9.211 234	0.790 20	1650 687	235 3,851	5.75 146	517 215	82.3 1,349	3.22 81.8	275 4,506	126 2,065
W12 x 152 W310 x 226	152 226	44.7 29,000	13.71 348	12.480 317	1.400 35.6	0.870 22.1	2.250 57	1.222 31	9.211 234	0.790 20	1430 595	210 3,425	5.66 144	454 189	72.8 1,193	3.19 81.0	243 3,982	111 1,819
W12 x 136 W310 x 202	136 202	39.9 26,000	13.41 341	12.400 315	1.250 31.8	0.790 20.1	2.100 53	1.182 30	9.211 234	0.790 20	1240 516	186 3,048	5.58 142	398 166	64.2 1,052	3.16 80.3	214 3,507	98 1,606
W12 x 120 W310 x 179	120 179	35.3 22,900	13.12 333	12.320 313	1.105 28.1	0.710 18.0	1.955 50	1.142 29	9.211 234	0.790 20	1080 445	163 2,671	5.51 140	345 144	56.0 918	3.13 79.5	186 3,048	85.4 1,399
W12 x 106 W310 x 158	106 158	31.2 20,200	12.89 327	12.220 310	0.990 25.1	0.610 15.5	1.840 47	1.092 28	9.211 234	0.790 20	933 388	146 2,376	5.47 139	301 125	49.3 808	3.11 79.0	165 2,687	75.1 1,231
W12 x 96 W310 x 143	96 143	28.2 18,400	12.71 323	12.160 309	0.900 22.9	0.550 14.0	1.750 44	1.062 27	9.211 234	0.790 20	833 347	131 2,147	5.44 138	270 112	44.4 728	3.09 78.5	147 2,409	67.5 1,106
W12 x 87 W310 x 129	87 129	25.6 16,700	12.53 318	12.125 308	0.810 20.6	0.515 13.1	1.660 42	1.045 27	9.211 234	0.790 20	740 308	118 1,934	5.38 137	241 100	39.7 651	3.07 78.0	132 2,163	60.4 990
W12 x 79 W310 x 117	79 117	23.2 15,100	12.38 314	12.080 307	0.735 18.7	0.470 11.9	1.585 40	1.022 26	9.211 234	0.790 20	662 276	107 1,753	5.34 136	216 89.9	35.8 587	3.05 77.5	119 1,950	54.3 890
W12 x 72 W310 x 107	72 107	21.1 13,800	12.25 311	12.040 306	0.670 17.0	0.430 10.9	1.520 39	1.002 26	9.211 234	0.790 20	597 248	97.4 1,596	5.31 135	195 81.2	32.4 531	3.04 77.2	108 1,770	49.2 806
W12 x 65 W310 x 97	65 97	19.1 12,500	12.12 308	12.000 305	0.605 15.4	0.390 9.9	1.455 37	0.982 25	9.211 234	0.790 20	533 222	87.9 1,440	5.28 134	174 72.4	29.1 477	3.02 76.7	96.8 1,586	44.1 723

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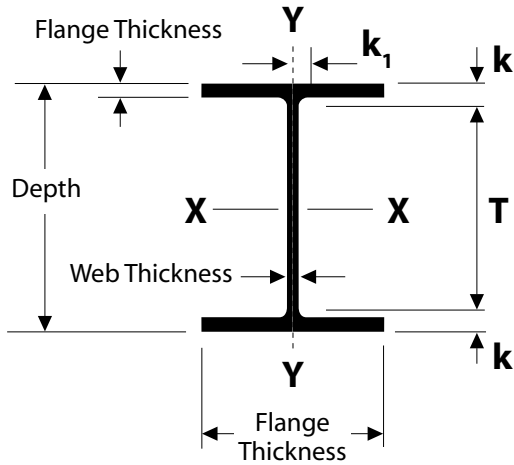
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WIDE FLANGE Specifications



WIDE FLANGE 12" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP		WT	AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS	
						FLANGE WEB		k	k ₁	T		X-X			Y-Y			Z _x	Z _y
						FLANGE	WEB					I _x	S _x	r _x	I _y	S _y	r _y		
						in	in	in	in	in		in	in ⁴	in ³	in	in ⁴	in ³	in	in ³
12 x 10 310 x 250	W12 x 58 W310 x 86	58 86	17.0 11,000	12.19 310	10.010 254	0.640 16.3	0.360 9.1	1.412 37	0.889 24	9.367 236	0.710 19	475 198	78.0 1,278	5.28 134	107.0 44.5	21.4 351	2.51 63.8	86.4 1,416	32.5 533
	W12 x 53 W310 x 79	53 79	15.6 10,100	12.06 306	9.995 254	0.575 14.6	0.345 8.8	1.347 35	0.882 23	9.367 236	0.710 19	425 177	70.6 1,157	5.23 133	95.8 39.9	19.2 315	2.48 63.0	77.9 1,277	29.1 477
	W12 x 50 W310 x 74	50 74	14.7 9,480	12.19 310	8.080 205	0.640 16.3	0.370 9.4	1.412 37	0.894 24	9.367 236	0.710 19	391 163	64.2 1,052	5.18 132	56.3 23.4	13.9 228	1.96 49.8	71.9 1,178	21.3 349
12 x 8 310 x 200	W12 x 45 W310 x 67	45 67	13.2 8,520	12.06 306	8.045 204	0.575 14.6	0.335 8.5	1.347 35	0.877 23	9.367 236	0.710 19	348 145	57.7 946	5.15 131	50.0 20.8	12.4 203	1.95 49.5	64.2 1,052	19.0 311
	W12 x 40 W310 x 60	40 60	11.8 7,610	11.94 303	8.005 203	0.515 13.1	0.295 7.5	1.287 34	0.857 23	9.367 236	0.710 19	307 128	51.5 844	5.13 130	44.1 18.4	11.0 180	1.94 49.3	57.0 934	16.8 275
	W12 x 35 W310 x 52	35 52	10.3 6,650	12.50 317	6.560 167	0.520 13.2	0.300 7.6	0.977 23	0.544 12	10.55 271	0.390 8.5	285 119	45.6 747	5.25 133	24.5 10.2	7.47 122	1.54 39.1	51.2 839	11.5 188
12 x 6 1/2 310 x 170	W12 x 30 W310 x 44.5	30 44.5	8.79 5,670	12.34 313	6.520 166	0.440 11.2	0.260 6.6	0.897 21	0.524 12	10.55 271	0.390 8.5	238 99.1	38.6 633	5.23 132	20.3 8.45	6.24 102	1.52 38.6	43.1 706	9.56 157
	W12 x 26 W310 x 38.7	26 38.7	7.65 4,940	12.22 310	6.490 165	0.380 9.7	0.230 5.8	0.837 20	0.509 11	10.55 271	0.390 8.5	204 84.9	33.4 547	5.19 131	17.3 7.20	5.34 87.5	1.51 38.4	37.2 610	8.18 134
	W12 x 22 W310 x 32.7	22 32.7	6.48 4,210	12.31 313	4.030 102	0.425 10.8	0.260 6.6	0.882 22	0.524 13	10.55 268	0.390 10	156 65.7	25.4 420	4.91 125	4.66 1.92	3.71 37.6	0.85 21.4	29.3 485	3.67 598
12 x 4 310 x 100	W12 x 19 W310 x 28.3	19 28.3	5.57 3,650	12.16 309	4.005 102	0.350 8.9	0.235 6.0	0.807 20	0.512 13	10.55 268	0.390 10	132 55.0	21.3 356	4.82 123	3.77 1.58	3.04 31.0	0.82 20.8	24.7 412	2.99 49.4
	W12 x 16 W310 x 23.8	16 23.8	4.71 3,070	11.99 305	3.990 101	0.265 6.7	0.220 5.6	0.722 18	0.504 13	10.55 268	0.390 10	105 43.5	17.1 285	4.67 119	2.82 1.16	1.70 22.9	0.77 19.4	20.1 333	2.26 36.9
	W12 x 14 W310 x 21	14 21	4.39 2,838	11.91 303	3.970 101	0.225 5.7	0.200 5.1	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

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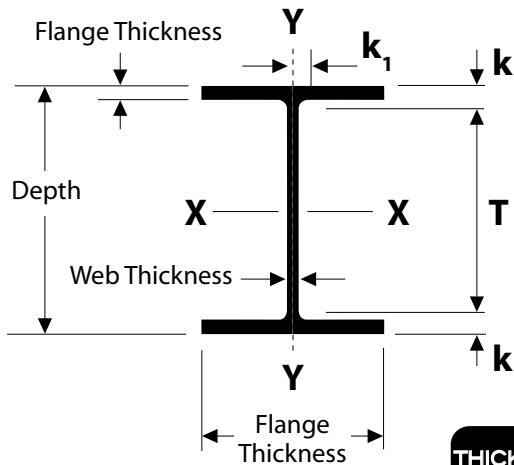
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WIDE FLANGE

Specifications



WIDE FLANGE

14"

with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP	WT AREA		DPT		FLANGE WIDTH		THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS	
							FLANGE WEB		k	k ₁	T		X-X			Y-Y			Z _x	Z _y
							in	in					I _x	S _x	r _x	I _y	S _y	r _y		
							in	in	in ⁴	in ³	in		in ⁴	in ³	in	in	in			
14 x 16 360 x 400	W14 x 730 W360 x 1086	730 1086	215.0 139,000	22.42 569	17.890 454	4.910 125.0	3.070 78.0	6.154 157	2.716 69	10.113 256	1.18 30	14,300 5,952	1,280 20,975	8.17 208	4,720 1,965	527 8,636	4.69 119	1,660 27,202	816 13,372	
	W14 x 665 W360 x 990	665 990	196.0 126,000	21.64 550	17.650 448	4.520 115.0	2.830 71.9	5.764 147	2.596 66	10.113 257	1.18 30	12,400 5,161	1,150 18,845	7.98 203	4,170 1,736	472 7,735	4.62 117	1,480 24,253	730 11,963	
	W14 x 605 W360 x 900	605 900	178.0 115,000	20.92 531	17.415 442	4.160 106.0	2.595 65.9	5.404 138	2.479 63	10.113 256	1.18 30	10,800 4,495	1,040 17,042	7.80 198	3,680 1,532	423 6,932	4.55 116	1,320 21,631	652 10,684	
	W14 x 550 W360 x 818	550 818	162.0 105,000	20.24 514	17.200 437	3.820 97.0	2.380 60.5	5.064 129	2.371 60	10.113 257	1.18 30	9,430 3,925	931 15,256	7.63 194	3,250 1,353	378 6,194	4.49 114	1,180 19,337	583 9,554	
	W14 x 500 W360 x 744	500 744	147.0 94,800	19.60 498	17.010 432	3.500 88.9	2.190 55.6	4.744 120	2.276 58	10.113 257	1.18 30	8,210 3,417	838 13,732	7.48 190	2,880 1,199	339 5,555	4.43 113	1,050 17,206	522 8,554	
	W14 x 455 W360 x 677	455 677	134.0 86,500	19.02 483	16.835 428	3.210 81.5	2.015 51.2	4.454 113	2.189 56	10.113 257	1.18 30	7,190 2,993	756 12,389	7.33 186	2,560 1,066	304 4,982	4.38 111	936 15,338	468 7,669	
	W14 x 426 W360 x 634	426 634	125.0 80,600	18.67 474	16.695 424	3.035 77.1	1.875 47.6	4.279 109	2.119 54	10.113 257	1.18 30	6,600 2,747	706 11,569	7.26 184	2,360 982	283 4,638	4.34 110	869 14,240	434 7,112	
	W14 x 398 W360 x 592	398 592	117.0 75,500	18.29 465	16.590 421	2.845 72.4	1.770 45.0	4.089 104	2.066 53	10.113 257	1.18 30	6,000 2,497	656 10,750	7.16 182	2,170 903	262 4,293	4.31 109	801 13,126	402 6,588	
	W14 x 370 W360 x 551	370 551	109.0 70,300	17.92 455	16.475 418	2.660 67.6	1.655 42.0	3.904 99	2.009 51	10.113 257	1.18 30	5,440 2,264	607 9,947	7.07 180	1,990 895	241 3,949	4.27 108	736 12,061	370 6,063	
	W14 x 342 W360 x 509	342 509	101.0 65,200	17.54 446	16.360 416	2.470 62.7	1.540 39.1	3.714 94	1.951 50	10.113 258	1.18 30	4,900 2,040	558 9,144	6.98 177	1,810 753	221 3,622	4.24 108	672 11,012	338 5,539	
	W14 x 311 W360 x 463	311 463	91.4 59,000	17.12 435	16.230 412	2.260 57.4	1.410 35.8	3.504 89	1.886 48	10.113 257	1.18 30	4,330 1,802	506 8,292	6.88 175	1,610 670	199 3,261	4.20 107	603 9,881	304 4,982	
	W14 x 283 W360 x 421	283 421	83.3 53,700	16.74 425	16.110 409	2.070 52.6	1.290 32.8	3.314 84	1.826 46	10.113 257	1.18 30	3,840 1,598	459 7,522	6.79 172	1,440 599	179 2,933	4.17 106	542 8,882	274 4,490	
	W14 x 257 W360 x 382	257 382	75.6 48,800	16.38 416	15.995 406	1.890 48.0	1.175 29.8	3.134 80	1.769 45	10.113 257	1.18 30	3,400 1,415	415 6,801	6.71 170	1,290 537	161 2,638	4.13 105	487 7,980	246 4,031	
	W14 x 233 W360 x 347	233 347	68.5 44,200	16.04 407	15.890 404	1.720 43.7	1.070 27.2	2.964 75	1.716 44	10.113 257	1.18 30	3,010 1,253	375 6,145	6.63 168	1,150 479	145 2,376	4.10 104	436 7,145	221 3,622	
	W14 x 211 W360 x 314	211 314	62.0 40,000	15.72 399	15.800 401	1.560 39.6	0.980 24.9	2.804 71	1.671 42	10.113 257	1.18 30	2,660 1,107	338 5,539	6.55 166	1,030 429	130 2,130	4.07 103	390 6,391	198 3,245	
	W14 x 193 W360 x 287	193 287	56.8 36,600	15.48 393	15.710 399	1.440 36.6	0.890 22.6	2.684 68	1.626 41	10.113 257	1.18 30	2,400 999	310 5,080	6.50 165	931 388	119 1,950	4.05 103	355 5,817	180 2,950	
W14 x 176 W360 x 262	176 262	51.8 33,400	15.22 387	15.650 398	1.310 33.3	0.830 21.1	2.554 65	1.596 41	10.113 257	1.18 30	2,140 891	281 4,605	6.43 163	838 349	107 1,753	4.02 102	320 5,244	163 2,671		
W14 x 159 W360 x 237	159 237	46.7 30,100	14.98 380	15.565 395	1.190 30.2	0.745 18.9	2.434 62	1.554 39	10.113 257	1.18 30	1,900 791	254 4,162	6.38 162	748 311	96.2 1,576	4.00 102	287 4,703	146 2,393		
W14 x 145 W360 x 216	145 216	42.7 27,500	14.78 375	15.500 394	1.090 27.7	0.680 17.3	2.334 59	1.521 39	10.113 257	1.18 30	1,710 712	232 3,802	6.33 161	677 283	87.3 1,431	3.98 101	260 4,261	133 2,179		

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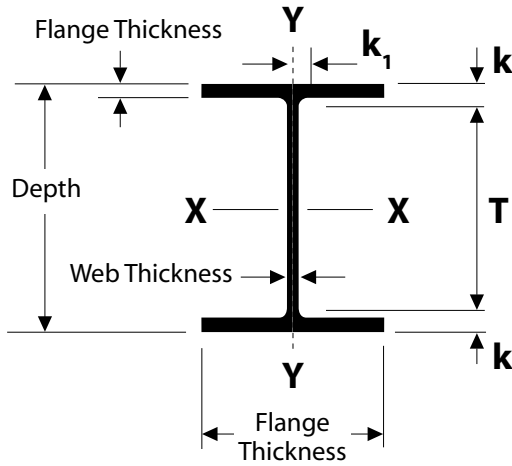
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WIDE FLANGE Specifications



WIDE FLANGE 14" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP		WT AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS		
					FLANGE	WEB	k	k ₁	T		X-X			Y-Y			Z _x	Z _y	
											I _x	S _x	r _x	I _y	S _y	r _y			
					in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in ² (mm ²)	in (mm)	in (mm)		in (mm)	in (mm)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)
14 x 14 1/2 360 x 370	W14 x 132 W360 x 196	132 196	38.8 372	14.66 374	14.725 374	1.030 26.2	0.645 16.4	2.274 58	1.504 38	10.113 257	1.18 30	1530 637	209 3,425	6.28 160	548 228	74.5 1,221	3.76 95.5	234 3,835	113 1,852
	W14 x 120 W360 x 179	120 179	35.3 22,800	14.48 368	14.670 373	0.940 23.9	0.590 15.0	2.184 55	1.476 38	10.113 257	1.18 30	1380 574	190 3,114	6.24 157	495 206	67.5 1,106	3.74 95.0	212 3,474	102 1,671
	W14 x 109 W360 x 162	109 162	32.0 20,600	14.32 364	14.605 371	0.860 21.8	0.525 13.3	2.104 53	1.444 37	10.113 257	1.18 30	1240 516	173 2,835	6.22 157	447 186	61.2 1,003	3.73 94.7	192 3,146	92.7 1,519
	W14 x 99 W360 x 147	99 147	29.1 18,800	14.16 360	14.565 370	0.780 19.8	0.485 12.3	2.024 51	1.424 36	10.113 257	1.18 30	1110 462	157 2,573	6.17 157	402 167	55.2 905	3.71 94.2	173 2,835	83.6 1,370
	W14 x 90 W360 x 134	90 134	26.5 17,100	14.02 356	14.520 369	0.710 18.0	0.440 11.2	1.954 50	1.401 36	10.113 257	1.18 30	999 416	143 2,343	6.14 156	362 151	49.9 818	3.70 94.0	157 2,573	75.6 1,239
	W14 x 82 W360 x 122	82 122	24.1 15,500	14.31 363	10.130 257	0.855 21.7	0.510 13.0	1.666 42	1.003 26	10.979 279	0.750 19	881 367	123 2,016	6.05 154	148 61.6	29.3 480	2.48 63.0	139 2,278	44.8 734
	W14 x 74 W360 x 110	74 110	21.8 14,100	14.17 360	10.070 256	0.785 19.9	0.450 11.4	1.596 40	1.012 25	10.979 279	0.750 19	795 331	112 1,835	6.04 153	134 55.8	26.6 436	2.48 63.0	126 2,065	40.5 664
	W14 x 68 W360 x 101	68 101	20.0 12,900	14.04 357	10.035 255	0.720 18.3	0.415 10.5	1.531 39	0.995 24	10.979 279	0.750 19	722 301	103 1,688	6.01 153	121 50.4	24.2 397	2.46 62.5	115 1,885	36.9 605
	W14 x 61 W360 x 91	61 91	17.9 11,500	13.89 353	9.995 254	0.645 16.4	0.375 9.5	1.456 37	0.975 24	10.979 279	0.750 19	640 266	92.1 1,509	5.98 152	107 44.5	21.5 352	2.45 62.2	102 1,671	32.8 537
	W14 x 53 W360 x 79	53 79	15.6 10,100	13.92 354	8.060 205	0.660 16.8	0.370 9.4	1.471 37	0.972 24	10.979 279	0.750 19	541 225	77.8 1,275	5.89 150	57.7 24.0	14.3 234	1.92 48.8	87.1 1,427	22.0 361
14 x 8 360 x 200	W14 x 48 W360 x 72	48 72	14.1 9,100	13.79 350	8.030 204	0.595 15.1	0.340 8.6	1.406 36	0.957 23	10.979 279	0.750 19	484 201	70.2 1,150	5.85 149	51.4 21.4	12.8 210	1.91 48.5	78.4 1,285	19.6 321
	W14 x 43 W360 x 64	43 64	12.6 8,130	13.66 347	7.995 203	0.530 13.5	0.305 7.7	1.341 34	0.940 23	10.979 279	0.750 19	428 178	62.6 1,026	5.82 148	45.2 18.8	11.3 185	1.89 48.0	69.6 1,141	17.3 283
14 x 6 3/4 360 x 170	W14 x 38 W360 x 57.8	38 57.8	11.2 7,230	14.10 358	6.770 172	0.515 13.1	0.310 7.9	0.972 25	0.588 14	12.157 309	0.390 10	385 160	54.6 895	5.87 149	26.7 11.1	7.88 129	1.55 39.4	61.5 1,008	12.1 198
	W14 x 34 W360 x 51	34 51	10.0 6,450	13.98 355	6.745 171	0.455 11.6	0.285 7.2	0.912 23	0.576 14	12.157 309	0.390 10	340 142	48.6 796	5.83 148	23.3 9.70	6.91 113	1.53 38.9	54.6 895	10.6 174
	W14 x 30 W360 x 44.6	30 44.6	8.85 5,710	13.84 352	6.730 171	0.385 9.8	0.270 6.9	0.842 21	0.568 13	12.157 309	0.390 10	291 121	42.0 688	5.73 146	19.6 8.16	5.82 95.4	1.49 37.8	47.3 775	8.99 147
14 x 5 360 x 130	W14 x 26 W360 x 39	26 39	7.69 4,960	13.91 353	5.025 128	0.420 10.7	0.255 6.5	0.877 22	0.561 13	12.157 309	0.390 10	245 102	35.3 578	5.65 144	8.91 3.71	3.55 58.2	1.08 27.4	40.2 659	5.54 90.8
	W14 x 22 W360 x 32.9	22 32.9	6.49 4,190	13.74 349	5.000 127	0.335 8.5	0.230 5.8	0.792 20	0.548 13	12.157 309	0.390 10	199 82.8	29.0 475	5.54 141	7.00 2.91	2.80 45.9	1.04 26.4	33.2 544	4.39 71.9

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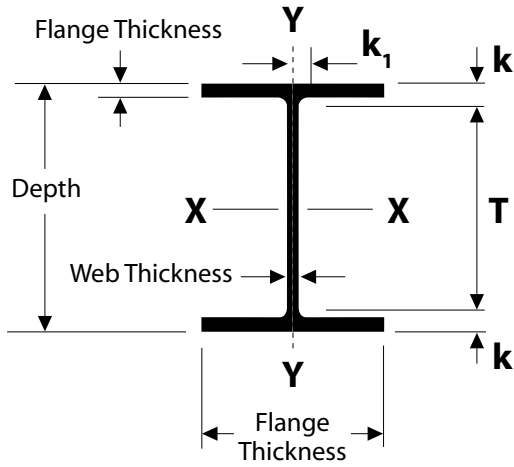
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WIDE FLANGE Specifications



WIDE FLANGE 16" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP	WT AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS			
				FLANGE WEB		k	k ₁	T		X-X			Y-Y			Z _x	Z _y		
				in	in	in	in	in		I _x	S _x	r _x	I _y	S _y	r _y	in	in		
				in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in ² (mm ²)	in (mm)	in (mm)		in (mm)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)
16 x 10 1/4 410 x 260	W16 x 100 W410 x 149	100 149	29.4 19,000	16.97 431	10.425 265	0.985 25.0	0.585 14.9	1.796 46	1.041 26	13.379 340	0.75 19	1490 620	175 2,868	7.10 180	186 77.4	35.7 585	2.51 63.8	198 3,245	54.9 900
	W16 x 89 W410 x 132	89 132	26.2 16,900	16.75 425	10.365 263	0.875 22.2	0.525 13.3	1.686 43	1.011 26	13.379 340	0.75 19	1300 541	155 2,540	7.05 179	163 67.8	31.4 515	2.49 63.2	175 2,868	48.1 788
	W16 x 77 W410 x 114	77 114	22.6 14,600	16.52 420	10.295 261	0.760 19.3	0.455 11.6	1.571 40	0.976 25	13.379 340	0.75 19	1110 462	134 2,196	7.00 178	138 57.4	26.9 441	2.47 62.7	150 2,458	41.1 674
	W16 x 67 W410 x 100	67 100	19.7 12,700	16.33 415	10.235 260	0.665 16.9	0.395 10.0	1.476 37	0.946 24	13.379 340	0.75 19	954 397	117 1,917	6.96 177	119 49.5	23.2 380	2.46 62.5	130 2,130	35.5 582
	W16 x 57 W410 x 85	57 85	16.8 10,800	16.43 417	7.120 181	0.715 18.2	0.430 10.9	1.526 39	0.963 24	13.379 340	0.75 19	758 316	92.2 1,511	6.72 171	43.1 17.9	12.1 198	1.60 40.6	105 1,721	18.9 310
	W16 x 50 W410 x 75	50 75	14.7 9,480	16.26 413	7.070 180	0.630 16.0	0.380 9.7	1.441 37	0.938 24	13.379 340	0.75 19	659 274	81.0 1,327	6.68 170	37.2 15.5	10.5 172	1.59 40.4	92.0 1,508	16.3 267
	W16 x 45 W410 x 67	45 67	13.3 8,580	16.13 410	7.035 179	0.565 14.4	0.345 8.8	1.376 35	0.921 23	13.379 340	0.75 19	586 244	72.7 1,191	6.65 169	32.8 13.7	9.34 153	1.57 39.9	82.3 1,349	14.5 238
	W16 x 40 W410 x 60	40 60	11.8 7,610	16.01 407	6.995 178	0.505 12.8	0.305 7.7	1.316 33	0.901 23	13.379 340	0.75 19	518 216	64.7 1,060	6.63 168	28.9 12.0	8.25 135	1.57 39.9	73.0 1,196	12.7 208
	W16 x 36 W410 x 53	36 53	10.6 6,840	15.86 403	6.985 177	0.430 10.9	0.295 7.5	1.241 31	0.896 23	13.379 340	0.75 19	448 186	56.5 926	6.51 165	24.5 10.2	7.00 115	1.52 38.6	64.0 1,049	10.8 177
	W16 x 31 W410 x 46.1	31 46.1	9.12 5,880	15.88 403	5.525 140	0.440 11.2	0.275 7.0	1.094 28	0.729 19	13.693 348	0.59 15	375 156	47.2 773	6.41 163	12.4 5.16	4.49 73.6	1.17 29.7	54.0 885	7.03 115
16 x 5 1/2 410 x 140	W16 x 26 W410 x 38.8	26 38.8	7.68 4,950	15.69 399	5.500 140	0.345 8.80	0.250 6.4	0.999 25	0.716 18	13.693 348	0.59 15	301 125	38.4 629	6.26 159	9.59 3.99	3.49 57.2	1.12 28.4	44.2 724	5.48 89.8

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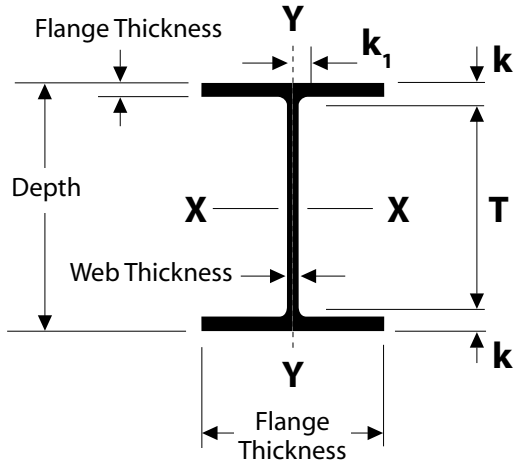
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WIDE FLANGE Specifications



WIDE FLANGE 18" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP	WT AREA		DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS		
					FLANGE WEB		k	k ₁	T		X-X			Y-Y			Z _x	Z _y	
					in	in					I _x	S _x	r _x	I _y	S _y	r _y			
					in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in ² (mm ²)	in (mm)	in (mm)		in (mm)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)
18 x 11 460 x 280	W18 x 311 W460 x 463	311 463	91.5 59,100	22.32 567	12.005 305	2.740 69.6	1.520 38.6	3.590 91	1.547 39	15.141 385	0.79 20	6,970 2,901	624 10,225	8.72 221	795 331	132 2,163	2.95 74.9	754 12,356	207 3,392
	W18 x 283 W460 x 421	283 421	83.2 53,700	21.85 555	11.890 302	2.500 63.5	1.400 35.6	3.350 85	1.487 38	15.151 385	0.79 20	6,170 2,568	565 9,259	8.61 219	704 293	118 1,934	2.91 73.9	676 11,078	185 3,032
	W18 x 258 W460 x 384	258 384	75.9 49,000	21.46 545	11.770 299	2.300 58.4	1.280 32.5	3.150 80	1.427 36	15.161 385	0.79 20	5,510 2,293	514 8,423	8.53 217	628 261	107 1,753	2.88 73.2	611 10,012	166 2,720
	W18 x 234 W460 x 348	234 348	68.8 44,400	21.06 535	11.650 296	2.110 53.6	1.160 29.5	2.960 75	1.367 35	15.141 385	0.79 20	4,900 2,040	466 7,636	8.44 214	558 232	95.8 1,570	2.85 72.4	549 8,996	149 2,442
	W18 x 211 W460 x 314	211 314	62.1 40,100	20.67 525	11.555 294	1.910 48.5	1.060 26.9	2.760 70	1.317 33	15.151 385	0.79 20	4,330 1,802	419 6,866	8.35 212	493 205	85.3 1,398	2.82 71.6	490 8,030	132 2,163
	W18 x 192 W460 x 286	192 286	56.4 36,400	20.35 517	11.455 291	1.750 44.5	0.960 24.4	2.600 66	1.267 32	15.151 385	0.79 20	3,870 1,611	380 6,227	8.28 210	440 183	76.8 1,259	2.79 70.9	442 7,243	119 1,950
	W18 x 175 W460 x 260	175 260	51.3 33,100	20.04 509	11.375 289	1.590 40.4	0.890 22.6	2.440 62	1.232 31	15.161 385	0.79 20	3,450 1,436	344 5,637	8.20 208	391 163	68.8 1,127	2.76 70.1	398 6,522	106 1,737
	W18 x 158 W460 x 235	158 235	46.3 29,900	19.72 501	11.300 287	1.440 36.6	0.810 20.6	2.290 58	1.192 30	15.141 385	0.79 20	3,060 1,274	310 5,080	8.12 206	347 144	61.5 1,006	2.74 69.6	356 5,834	94.8 1,553
	W18 x 143 W460 x 213	143 213	42.1 27,100	19.49 495	11.220 285	1.320 33.5	0.730 18.5	2.170 55	1.152 29	15.151 385	0.79 20	2,750 1,145	282 4,621	8.09 205	311 129	55.5 909	2.72 69.1	322 5,277	85.4 1,399
	W18 x 130 W460 x 193	130 193	38.2 24,700	19.25 489	11.160 283	1.200 30.5	0.670 17.0	2.050 52	1.122 29	15.151 385	0.79 20	2,460 1,024	256 4,195	8.03 204	278 116	49.9 818	2.70 68.6	290 4,752	76.7 1,257
	W18 x 119 W460 x 177	119 177	35.1 22,600	18.97 482	11.265 286	1.060 26.9	0.655 16.6	1.910 48	1.115 28	15.151 385	0.79 20	2,190 912	231 3,785	7.90 201	253 105	44.9 736	2.69 68.3	262 4,293	69.1 1,132
	W18 x 106 W460 x 158	106 158	31.1 20,100	18.73 476	11.200 284	0.940 23.9	0.590 15.0	1.790 45	1.082 28	15.151 385	0.79 20	1,910 795	204 3,343	7.84 199	220 91.6	39.4 646	2.66 67.6	230 3,769	60.5 991
	W18 x 97 W460 x 144	97 144	28.5 18,400	18.59 472	11.145 283	0.870 22.1	0.535 13.6	1.720 44	1.055 27	15.151 385	0.79 20	1,750 728	188 3,081	7.82 199	201 83.7	36.1 592	2.65 67.3	211 3,458	55.3 906
	W18 x 86 W460 x 128	86 128	25.3 16,300	18.39 467	11.090 282	0.770 19.6	0.480 12.2	1.620 41	1.027 26	15.151 385	0.79 20	1,530 637	166 2,720	7.77 197	175 72.8	31.6 518	2.63 66.8	186 3,048	48.4 793
W18 x 76 W460 x 113	76 113	22.3 14,400	18.21 463	11.035 280	0.680 17.3	0.425 10.8	1.530 39	1.000 25	15.151 385	0.79 20	1,330 554	146 2,393	7.73 196	152 63.3	27.6 452	2.61 66.3	163 2,671	42.2 692	

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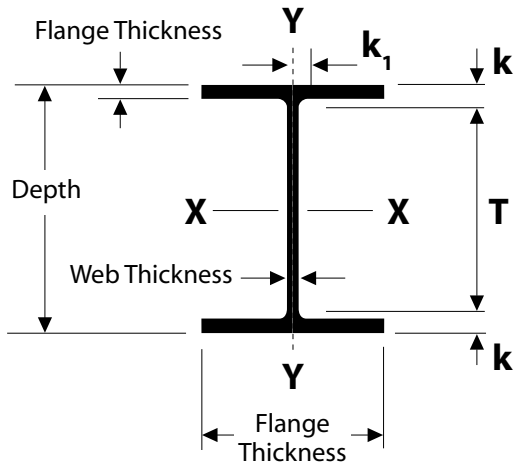
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WIDE FLANGE Specifications



WIDE FLANGE 18" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP					THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS					
	18 x 7 1/2 410 x 260	WT	AREA	DPT	FLANGE WIDTH	FLANGE	WEB	k	k ₁		T	X-X			Y-Y			Z _x	Z _y			
												in	in	in	I _x	S _x	r _x			I _y	S _y	r _y
												in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in ² (mm ²)	in (mm)	in (mm)	in (mm)			in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)
CSA*	W18 x 71 W460 x 106	71 106	20.8 13,400	18.47 469	7.635 194	0.810 20.6	0.495 12.6	1.464 37	0.839 21	15.543 395	0.59 15	1,170 487	127 2,081	7.50 191	60.3 25.1	15.8 259	1.70 43.2	146 2,393	24.7 405			
	W18 x 65 W460 x 97	65 97	19.1 12,300	18.35 466	7.590 193	0.750 19.0	0.450 11.4	1.404 36	0.816 21	15.543 395	0.59 15	1,070 445	117 1,917	7.49 190	54.8 22.8	14.4 236	1.69 42.9	133 2,179	22.5 369			
	W18 x 60 W460 x 89	60 89	17.6 11,400	18.24 463	7.555 192	0.695 17.7	0.415 10.5	1.349 34	0.799 20	15.543 395	0.59 15	984 410	108 1,770	7.47 190	50.1 20.9	13.3 218	1.68 42.7	123 2,016	20.6 338			
	W18 x 55 W460 x 82	55 82	16.2 10,500	18.11 460	7.530 191	0.630 16.0	0.390 9.9	1.284 33	0.786 20	15.543 395	0.59 15	890 370	98.3 1,611	7.41 188	44.9 18.7	11.9 195	1.67 42.4	112 1,835	18.5 303			
	W18 x 50 W460 x 74	50 74	14.7 9,480	17.99 457	7.495 190	0.570 14.5	0.355 9.0	1.224 31	0.769 20	15.543 395	0.59 15	800 333	88.9 1,457	7.38 187	40.1 16.7	10.7 175	1.65 41.9	101 1,655	16.6 272			
	CSA* W18 x 45 W460 x 67	45 67	13.3 8,570	17.86 454	7.480 190	0.500 12.7	0.340 8.5	1.154 29	0.761 19	15.553 395	0.59 15	711 296	79.3 1,300	7.32 186	34.8 14.5	9.34 153	1.62 41.2	90.3 1,480	14.5 238			
	CSA* W18 x 41 W460 x 61	41 61	11.9 7,660	17.70 450	7.450 189	0.430 10.8	0.320 8.1	1.084 27	0.751 19	15.553 395	0.59 15	613 255	69.0 1,130	7.17 182	29.3 12.2	7.87 129	1.57 39.9	78.7 1,290	12.3 201			
	W18 x 46 W460 x 68	46 68	13.5 8,710	18.06 459	6.060 154	0.605 15.4	0.360 9.1	1.259 32	0.771 20	15.543 395	0.59 15	712 296	78.8 1,291	7.25 184	22.5 9.37	7.43 122	1.29 32.8	90.7 1,486	11.7 192			
	18 x 6 410 x 140 W18 x 40 W460 x 60	40 60	11.8 7,610	17.90 455	6.015 153	0.525 13.3	0.315 8.0	1.179 30	0.749 19	15.543 395	0.59 15	612 255	68.4 1,121	7.21 183	19.1 7.95	6.35 104	1.27 32.3	78.4 1,285	10.0 164			
	W18 x 35 W460 x 52	35 52	10.3 6,650	17.70 450	6.000 152	0.425 10.8	0.300 7.6	1.079 27	0.741 19	15.533 395	0.59 15	510 212	57.6 944	7.04 179	15.3 6.37	5.12 83.9	1.22 31.0	66.5 1,090	8.06 132			

* These Wide Flange beams meet the Canadian Standards Association specifications.

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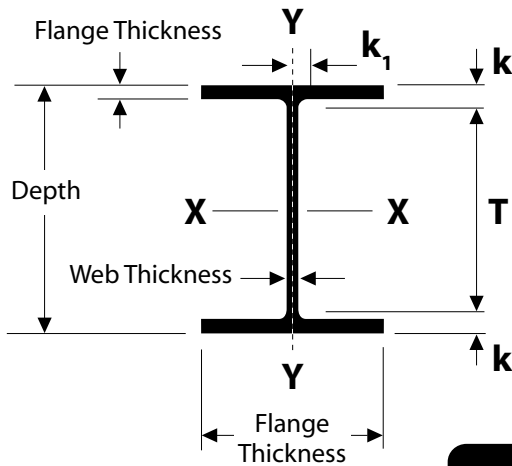
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WIDE FLANGE Specifications



WIDE FLANGE 21" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP	WT	AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS		
					FLANGE WEB		k	k ₁	T		X-X			Y-Y			Z _x	Z _y	
					in	in	in	in	in		in	in	I _x	S _x	r _x	I _y	S _y	r _y	in
in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in ² (mm ²)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)		
21 x 13 530 x 330	W21 x 275 W530 x 409*	275 409	81.8 52,700	24.13 613	12.890 327	2.190 55.6	1.220 31.0	3.434 87	1.791 45	17.263 439	1.18 30	7,710 3,210	639 10,500	9.71 247	786 327	122 2,000	3.10 78.7	750 12,300	190 3,120
	W21 x 248 W530 x 369*	248 369	73.8 47,600	23.74 603	12.775 324	1.990 50.5	1.100 27.9	3.234 82	1.731 44	17.273 439	1.18 30	6,850 2,850	577 9,450	9.63 245	695 289	109 1,780	3.07 77.9	672 11,000	169 2,770
	W21 x 223 W530 x 332*	223 332	66.3 42,800	23.35 593	12.675 322	1.790 45.5	1.000 25.4	3.034 77	1.681 43	17.283 439	1.18 30	6,040 2,510	517 8,480	9.54 242	610 254	96.2 1,580	3.03 77.0	598 9,800	150 2,450
	W21 x 201 W530 x 300	201 300	59.2 38,200	23.03 585	12.575 319	1.630 41.4	0.910 23.1	2.874 73	1.636 42	17.283 439	1.18 30	5,310 2,210	461 7,554	9.47 241	542 226	86.1 1,411	3.02 76.7	530 8,685	133 2,179
	W21 x 182 W530 x 272	182 272	53.7 34,600	22.72 577	12.500 317	1.480 37.6	0.830 21.1	2.724 69	1.596 41	17.273 439	1.18 30	4,730 1,969	417 6,833	9.40 239	483 201	77.2 1,265	3.00 76.2	476 7,800	119 1,950
	W21 x 166 W530 x 248	166 248	48.9 31,500	22.48 571	12.420 315	1.360 34.5	0.750 19.0	2.604 66	1.556 40	17.273 439	1.18 30	4,280 1,781	380 6,227	9.36 238	435 181	70.0 1,147	2.99 75.9	432 7,079	108 1,770
	W21 x 147 W530 x 219	147 219	43.2 27,900	22.06 560	12.510 318	1.150 29.2	0.720 18.3	2.394 61	1.541 39	17.273 439	1.18 30	3,630 1,511	329 5,391	9.17 233	376 157	60.1 985	2.95 74.9	373 6,112	92.6 1,517
	W21 x 132 W530 x 196	132 196	38.8 25,000	21.83 554	12.440 316	1.035 26.3	0.650 16.5	2.279 58	1.506 38	17.273 438	1.18 30	3,220 1,340	295 4,834	9.12 232	333 139	53.5 877	2.93 74.4	333 5,457	82.3 1,349
	W21 x 122 W530 x 182	122 182	35.9 23,200	21.68 551	12.390 315	0.960 24.4	0.600 15.2	2.204 56	1.481 38	17.273 439	1.18 30	2,960 1,232	273 4,474	9.09 231	305 127	49.2 806	2.92 74.2	307 5,031	75.6 1,239
	W21 x 111 W530 x 165	111 165	32.7 21,100	21.51 546	12.340 313	0.875 22.2	0.550 14.0	2.119 54	1.456 37	17.273 439	1.18 30	2,670 1,111	249 4,080	9.05 230	274 114	44.5 729	2.90 73.7	279 4,572	68.2 1,118
W21 x 101 W530 x 150	101 150	29.8 19,200	21.36 543	12.290 312	0.800 20.3	0.500 12.7	2.044 52	1.431 36	17.273 439	1.18 30	2,420 1,007	227 3,720	9.02 229	248 103	40.3 660	2.89 73.4	253 4,156	61.7 1,011	
W21 x 93 W530 x 138	93 138	27.3 17,600	21.62 549	8.420 214	0.930 23.6	0.580 14.7	1.741 44	1.038 26	18.139 461	0.75 19	2,070 862	192 3,146	8.70 221	92.9 39	22.1 362	1.84 46.7	221 3,622	34.7 569	
W21 x 83 W530 x 123	83 123	24.3 15,700	21.43 544	8.355 212	0.835 21.2	0.515 13.1	1.646 42	1.006 26	18.139 461	0.75 19	1,830 762	171 2,802	8.67 220	81.4 34	19.5 320	1.83 46.5	196 3,212	30.5 500	
W21 x 73 W530 x 109	73 109	21.5 13,900	21.24 539	8.295 211	0.740 18.8	0.455 11.6	1.551 39	0.976 25	18.139 460	0.75 19	1,600 666	151 2,474	8.64 219	70.6 29	17.0 279	1.81 46.0	172 2,819	26.6 436	
W21 x 68 W530 x 101	68 92	20.0 12,900	21.13 537	8.270 210	0.685 17.4	0.430 10.9	1.496 38	0.963 24	18.139 461	0.75 19	1,480 616	140 2,294	8.60 218	64.7 27	15.7 257	1.80 45.7	160 2,622	24.4 400	
W21 x 62 W530 x 92	62 92	18.3 11,800	20.99 533	8.240 209	0.615 15.6	0.400 10.2	1.426 36	0.948 24	18.139 461	0.75 19	1,330 554	127 2,081	8.54 217	57.5 24	14.0 229	1.77 45.0	144 2,360	21.7 356	
W21 x 55 W530 x 82	55 82	16.2 10,500	20.80 528	8.220 209	0.522 13.3	0.375 9.5	1.333 34	0.936 24	18.139 460	0.75 19	1,140 475	110 1,803	8.40 213	48.4 20	11.8 193	1.73 43.9	126 2,065	18.4 302	
W21 x 48 W530 x 72	48 72	14.1 9,180	20.62 524	8.140 207	0.430 10.9	0.350 9.0	1.241 31	0.923 23	18.139 461	0.75 19	959 399	93 1,524	8.24 209	38.7 16	9.52 156	1.66 42.2	107 1,753	14.9 244	
W21 x 57 W530 x 85	57 85	16.7 10,800	21.06 535	6.555 166	0.650 16.5	0.405 10.3	1.461 37	0.951 24	18.139 461	0.75 19	1,170 487	111 1,819	8.36 212	30.6 13	9.35 153	1.35 34.3	129 2,114	14.8 243	
W21 x 50 W530 x 74	50 74	14.7 9,480	20.83 529	6.530 166	0.535 13.6	0.380 9.7	1.346 34	0.938 24	18.139 461	0.75 19	984 410	94.5 1,549	8.18 208	24.9 10	7.64 125	1.30 33.0	110 1,803	12.2 200	
W21 x 44 W530 x 66	44 66	13.0 8,390	20.66 525	6.500 165	0.450 11.4	0.350 8.9	1.261 32	0.923 23	18.139 461	0.75 19	843 351	81.6 1,337	8.06 205	20.7 9	6.37 104	1.26 32.0	95.4 1,563	10.2 167	

*Non-ASTM A6 Sections

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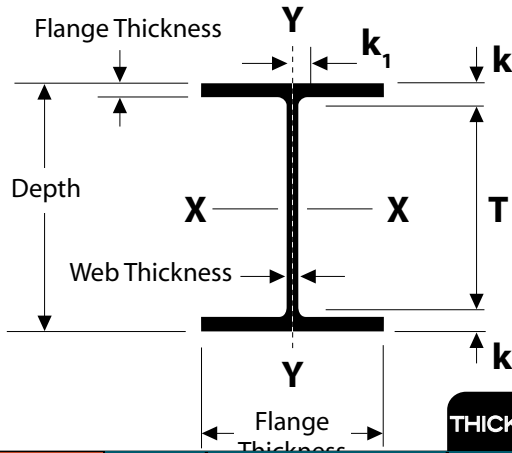
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WIDE FLANGE

Specifications



WIDE FLANGE 24"

with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP	WT	AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES			PLASTIC MODULUS					
					FLANGE	WEB	k	k ₁	T		X-X			Y-Y			Z _x	Z _y	
											I _x	S _x	r _x	I _y	S _y	r _y			
in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in ² (mm ²)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)		
24 x 12 3/4 530 x 330	W24 x 370 W610 x 551	370 551	108.0 70,200	27.99 711	13.660 347	2.720 69.1	1.520 38.6	3.964 101	1.941 49	20.063 510	1.18 30	13,400 5,577	957 15,682	11.1 282	1,160 483	170 2,786	3.27 83.1	1,130 18,517	267 4,375
	W24 x 335 W610 x 498	335 498	98.4 63,500	27.52 699	13.520 343	2.480 63.0	1.380 35.1	3.724 94	1.871 48	20.073 510	1.18 30	11,900 4,953	864 14,158	11.0 279	1,030 429	152 2,491	3.23 82.0	1,020 16,715	238 3,900
	W24 x 306 W610 x 455	306 455	89.8 57,900	27.13 689	13.405 340	2.280 57.9	1.260 32.0	3.524 89	1.811 46	20.083 510	1.18 30	10,700 4,454	789 12,929	10.9 277	919 383	137 2,245	3.20 81.3	922 15,109	214 3,507
	W24 x 279 W610 x 415	279 415	82.0 52,900	26.73 679	13.305 338	2.090 53.1	1.160 29.5	3.334 85	1.761 45	20.063 510	1.18 30	9,600 3,996	718 11,766	10.8 274	823 343	124 2,032	3.17 80.5	835 13,683	193 3,163
	W24 x 250 W610 x 372	250 372	73.5 47,400	26.34 669	13.185 335	1.890 48.0	1.040 26.4	3.134 80	1.701 43	20.073 510	1.18 30	8,490 3,534	644 10,553	10.7 272	724 301	110 1,803	3.14 79.8	744 12,192	171 2,802
	W24 x 229 W610 x 341	229 341	67.2 43,400	26.02 661	13.110 333	1.730 43.9	0.960 24.4	2.974 75	1.661 42	20.073 510	1.18 30	7,650 3,184	588 9,636	10.7 272	651 271	99.4 1,629	3.11 79.0	675 11,061	154 2,524
	W24 x 207 W610 x 307	207 307	60.7 39,100	25.71 653	13.010 330	1.570 39.9	0.870 22.1	2.814 71	1.616 41	20.083 510	1.18 30	6,820 2,839	531 8,701	10.6 269	578 241	88.8 1,455	3.08 78.2	606 9,931	137 2,245
	W24 x 192 W610 x 285	192 285	56.3 36,100	25.47 647	12.950 329	1.460 37.1	0.810 20.6	2.704 69	1.586 40	20.063 510	1.18 30	6,260 2,606	491 8,046	10.5 267	530 221	81.8 1,340	3.07 78.0	559 9,160	126 2,065
	W24 x 176 W610 x 262	176 262	51.7 33,300	25.24 641	12.890 327	1.340 34.0	0.750 19.0	2.584 66	1.556 40	20.073 510	1.18 30	5,680 2,364	450 7,374	10.5 267	479 199	74.3 1,218	3.04 77.2	511 8,374	115 1,885
	W24 x 162 W610 x 241	162 241	47.7 30,800	25.00 635	12.955 329	1.220 31.0	0.705 17.9	2.464 63	1.534 39	20.073 510	1.18 30	5,170 2,152	414 6,784	10.4 264	443 184	68.4 1,121	3.05 77.5	468 7,669	105 1,721
	W24 x 146 W610 x 217	146 217	43.0 27,700	24.74 628	12.900 328	1.090 27.7	0.650 16.5	2.334 59	1.506 38	20.073 510	1.18 30	4,580 1,906	371 6,080	10.3 262	391 163	60.5 991	3.01 76.5	418 6,850	93.2 1,527
	W24 x 131 W610 x 195	131 195	38.5 24,800	24.48 622	12.855 327	0.960 24.4	0.605 15.4	2.204 56	1.484 38	20.073 510	1.18 30	4,020 1,673	329 5,391	10.2 259	340 142	53.0 869	2.97 75.4	370 6,063	81.5 1,336
	W24 x 117 W610 x 174	117 174	34.4 22,200	24.26 616	12.800 325	0.850 21.6	0.550 14.0	2.094 53	1.456 37	20.073 510	1.18 30	3,540 1,473	291 4,769	10.1 257	297 124	46.5 767	2.94 74.7	327 5,359	71.4 1,170
	W24 x 104 W610 x 155	104 155	30.6 19,700	24.06 611	12.750 324	0.750 19.0	0.500 12.7	1.994 51	1.431 36	20.073 510	1.18 30	3,100 1,290	258 4,228	10.1 257	259 108	40.7 667	2.91 73.9	289 4,736	62.4 1,023
	W24 x 103 W610 x 153	103 153	30.3 19,600	24.53 623	9.000 229	0.980 24.9	0.550 14.0	2.224 56	1.456 37	20.083 510	1.18 30	3,000 1,249	245 4,015	10.0 254	119 49.5	26.5 434	1.99 50.5	280 4,588	41.5 680
	W24 x 94 W610 x 140	94 140	27.7 17,900	24.31 617	9.065 230	0.875 22.2	0.515 13.1	2.119 54	1.439 37	20.073 510	1.18 30	2,700 1,124	222 3,638	9.87 251	109 45.4	24.0 393	1.98 50.3	254 4,162	37.5 615
W24 x 84 W610 x 125	84 125	24.7 15,900	24.10 612	9.020 229	0.770 19.6	0.470 11.9	2.014 51	1.416 36	20.073 510	1.18 30	2,370 986	196 3,212	9.79 249	94.4 39.3	20.9 342	1.95 49.5	224 3,671	32.6 534	
W24 x 76 W610 x 113	76 113	22.4 14,500	23.92 608	8.990 228	0.680 17.3	0.440 11.2	1.924 49	1.401 36	20.073 510	1.18 30	2,100 874	176 2,884	9.69 246	82.5 34.3	18.4 302	1.92 48.8	200 3,277	28.6 469	
W24 x 68 W610 x 101	68 101	20.1 13,000	23.73 603	8.965 228	0.585 14.9	0.415 10.5	1.829 46	1.389 35	20.073 510	1.18 30	1,830 762	154 2,524	9.55 243	70.4 29.3	15.7 257	1.87 47.5	177 2,900	24.5 401	
CSA* W24 x 61 W610 x 91	61 91	18.0 11,600	23.56 598	8.930 227	0.500 12.7	0.380 9.7	1.744 44	1.371 35	20.073 510	1.18 30	1,602 667	136 2,230	9.45 240	59.6 24.8	13.4 219	1.82 46.3	156 2,560	20.9 343	
CSA* W24 x 56 W610 x 84	56 84	16.6 10,700	23.48 596	8.900 226	0.460 11.7	0.355 9.0	1.704 43	1.359 35	20.073 510	1.18 30	1,473 613	126 2,060	9.41 239	54.3 22.6	12.2 200	1.81 45.9	144 2,360	19.1 313	
W24 x 62 W610 x 92	62 92	18.2 11,700	23.74 603	7.040 179	0.590 15.0	0.430 10.9	1.401 36	0.963 24	20.939 532	0.75 19	1,550 645	131 2,147	9.23 234	34.5 14.4	9.8 161	1.38 35.1	153 2,507	15.7 257	
W24 x 55 W610 x 82	55 82	16.2 10,500	23.57 599	7.005 178	0.505 12.8	0.395 10.0	1.316 33	0.946 24	20.939 532	0.75 19	1,350 562	114 1,868	9.11 231	29.1 12.1	8.3 136	1.34 34.0	134 2,196	13.3 218	

* These Wide Flange beams meet the Canadian Standards Association specifications.

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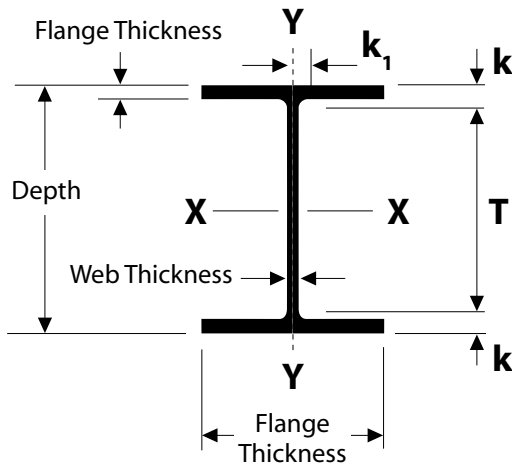
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WIDE FLANGE Specifications



WIDE FLANGE 27" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which its inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP	WT AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS			
				FLANGE WEB		k	k ₁	T		X-X			Y-Y			Z _x	Z _y		
				in	in	in	in	in		I _x	S _x	r _x	I _y	S _y	r _y	in	in		
				lb/ft	in ²	in	in	in		in ⁴	in ³	in	in ⁴	in ³	in	in	in		
27 x 14 690 x 330	W27 x 368 W690 x 548	368 548	108.1 69,800	30.39 772	14.665 372	2.480 63.0	1.380 35.1	3.724 95	1.871 48	22.943 583	1.18 30	16,200 6,743	1,060 17,370	12.2 310	1,310 545	179 2,933	3.48 88.4	1,240 20,320	279 4,572
	W27 x 336 W690 x 500	336 500	98.7 63,700	30.00 762	14.550 370	2.280 57.9	1.260 32.0	3.524 89	1.811 46	22.953 583	1.18 30	14,600 6,077	972 15,928	12.1 307	1,180 491	162 2,655	3.45 87.6	1,130 18,517	252 4,130
	W27 x 307 W690 x 457	307 457	90.2 58,200	29.61 752	14.445 367	2.090 53.1	1.160 29.5	3.334 85	1.761 45	22.943 583	1.18 30	13,100 5,453	887 14,535	12.0 305	1,050 437	146 2,393	3.41 86.6	1,030 16,879	227 3,720
	W27 x 281 W690 x 419	281 419	82.6 53,300	29.29 744	14.350 365	1.930 49.0	1.060 26.9	3.174 81	1.711 43	22.943 583	1.18 30	11,900 4,953	814 13,339	12.0 305	953 397	133 2,179	3.39 86.1	936 15,338	206 3,376
	W27 x 258 W690 x 384	258 384	75.7 48,900	28.98 736	14.270 362	1.770 45.0	0.980 24.9	3.014 77	1.671 42	22.953 583	1.18 30	10,800 4,495	745 12,208	11.9 302	859 358	120 1,966	3.36 85.3	852 13,962	187 3,064
	W27 x 235 W690 x 350	235 350	69.1 44,600	28.66 728	14.190 360	1.610 40.9	0.910 23.1	2.854 72	1.636 42	22.953 583	1.18 30	9,700 4,037	677 11,094	11.8 300	769 320	108 1,770	3.33 84.6	772 12,651	168 2,753
	W27 x 217 W690 x 323	217 323	63.8 41,100	28.43 722	14.115 359	1.500 38.1	0.830 21.1	2.744 70	1.596 41	22.943 583	1.18 30	8,910 3,709	627 10,275	11.8 300	704 293	100 1,639	3.32 84.3	711 11,651	154 2,524
	W27 x 194 W690 x 289	194 289	57.0 36,800	28.11 714	14.035 356	1.340 34.0	0.750 19.0	2.584 66	1.556 40	22.943 583	1.18 30	7,860 3,272	559 9,160	11.7 297	619 258	88.1 1,444	3.29 83.6	631 10,340	136 2,229
	W27 x 178 W690 x 265	178 265	52.3 33,700	27.81 706	14.085 358	1.190 30.2	0.725 18.4	2.434 62	1.544 39	22.943 583	1.18 30	7,020 2,922	505 8,275	11.6 295	555 231	78.8 1,291	3.25 82.6	570 9,341	122 1,999
	W27 x 161 W690 x 240	161 240	47.4 30,600	27.59 701	14.020 356	1.080 27.4	0.660 16.8	2.324 59	1.511 38	22.943 583	1.18 30	6,310 2,626	458 7,505	11.5 292	497 207	70.9 1,162	3.23 82.0	515 8,439	109 1,786
	W27 x 146 W690 x 217	146 217	42.9 27,700	27.38 695	13.965 355	0.975 24.8	0.605 15.4	2.219 56	1.484 38	22.943 582	1.18 30	5,660 2,356	414 6,784	11.5 292	443 184	63.5 1,041	3.20 81.3	464 7,604	97.7 1,601
	W27 x 129 W690 x 192	129 192	37.8 24,400	27.63 702	10.010 254	1.100 27.9	0.610 15.5	2.344 59	1.486 38	22.943 583	1.18 30	4,760 1,981	345 5,654	11.2 284	184 76.6	36.8 603	2.21 56.1	395 6,473	57.6 944
	W27 x 114 W690 x 170	114 170	33.5 21,600	27.29 693	10.070 256	0.930 23.6	0.570 14.5	2.174 55	1.466 37	22.943 583	1.18 30	4,080 1,698	299 4,900	11.0 279	159 66.2	31.5 516	2.18 55.4	343 5,621	49.3 808
	W27 x 102 W690 x 152	102 152	30.0 19,400	27.09 688	10.015 254	0.830 21.1	0.515 13.1	2.074 53	1.439 37	22.943 583	1.18 30	3,620 1,507	267 4,375	11.0 279	139 57.9	27.8 456	2.15 54.6	305 4,998	43.4 711
	W27 x 94 W690 x 140	94 140	27.7 17,900	26.92 684	9.990 254	0.745 18.9	0.490 12.4	1.989 50	1.426 36	22.943 583	1.18 30	3,270 1,361	243 3,982	10.9 277	124 51.6	24.8 406	2.12 53.8	278 4,556	38.8 636
	W27 x 84 W690 x 125	84 125	24.8 16,000	26.71 678	9.960 253	0.640 16.3	0.460 11.7	1.884 48	1.411 36	22.943 582	1.18 30	2,850 1,186	213 3,490	10.7 272	106 44.1	21.2 347	2.07 52.6	244 3,998	33.2 544

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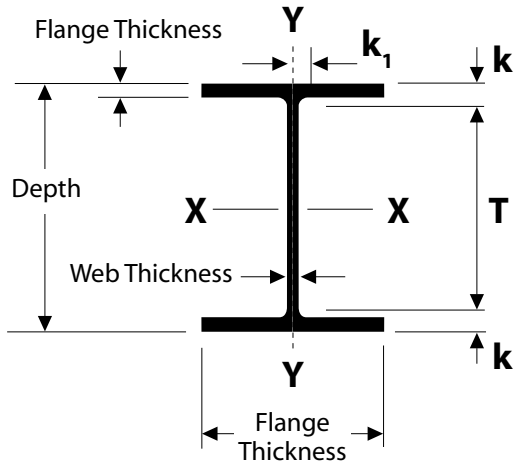
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WIDE FLANGE Specifications



WIDE FLANGE 30" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which its inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP			THICKNESS		DISTANCE			FILLET RADIUS			ELASTIC PROPERTIES						PLASTIC MODULUS			
			FLANGE WEB					R			X-X			Y-Y			Z _x Z _y			
	in x lbs/ft (mm x kg/m)	WT AREA lb/ft (kg/m)	DPT in (mm)	FLANGE WIDTH in (mm)	in (mm)	in (mm)	k in (mm)	k ₁ in (mm)	T in (mm)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	S _x in ³ (10 ³ mm ³)	r _x in (mm)	I _y in ⁴ (10 ⁶ mm ⁴)	S _y in ³ (10 ³ mm ³)	r _y in (mm)	Z _x in (10 ³ mm ³)	Z _y in (10 ³ mm ³)		
30 x 15 760 x 380	W30 x 391 W760 x 582	391 582	115.0 74,200	33.19 843	15.590 396	2.440 62.0	1.360 34.5	3.684 94	1.861 47	25.823 656	1.18 30	20,700 8,616	1,250 20,484	13.4 340	1,550 645	198 3,245	3.67 93.2	1,450 23,761	310 5,080	
	W30 x 357 W760 x 531	357 531	104.8 67,600	32.80 833	15.470 393	2.240 56.9	1.240 31.5	3.484 88	1.801 46	25.833 656	1.18 30	18,700 7,784	1,140 18,681	13.3 338	1,390 579	179 2,933	3.64 92.5	1,320 21,631	279 4,572	
	W30 x 326 W760 x 484	326 484	95.7 61,700	32.40 823	15.370 390	2.050 52.1	1.140 29.0	3.294 84	1.751 45	25.813 656	1.18 30	16,800 6,993	1,040 17,042	13.2 335	1,240 516	162 2,655	3.60 91.4	1,190 19,501	252 4,130	
	W30 x 292 W760 x 434	292 434	85.7 55,300	32.01 813	15.255 387	1.850 47.0	1.020 25.9	3.094 79	1.691 43	25.823 656	1.18 30	14,900 6,202	930 15,240	13.2 335	1,100 458	144 2,360	3.58 90.9	1,060 17,370	223 3,654	
	W30 x 261 W760 x 389	261 389	76.7 49,500	31.61 803	15.155 385	1.650 41.9	0.930 23.6	2.894 73	1.646 42	25.823 656	1.18 30	13,100 5,453	829 13,585	13.1 333	959 399	127 2,081	3.53 89.7	943 15,453	196 3,212	
	W30 x 235 W760 x 350	235 350	69.0 44,500	31.30 795	15.055 382	1.500 38.1	0.830 21.1	2.744 70	1.596 41	25.813 656	1.18 30	11,700 4,870	748 12,257	13.0 330	855 356	114 1,868	3.51 89.2	847 13,880	175 2,868	
	W30 x 211 W760 x 314	211 314	62.0 40,000	30.94 786	15.105 384	1.315 33.4	0.775 19.7	2.559 65	1.569 40	25.823 656	1.18 30	10,300 4,287	665 10,897	12.9 328	757 315	100 1,639	3.49 88.6	751 12,307	155 2,540	
	W30 x 191 W760 x 284	191 284	56.1 36,200	30.68 779	15.040 382	1.185 30.1	0.710 18.0	2.429 62	1.536 39	25.823 656	1.18 30	9,200 3,829	600 9,832	12.8 325	673 280	89.5 1,467	3.46 87.9	675 11,061	138 2,261	
	W30 x 173 W760 x 257	173 257	50.8 32,800	30.44 773	14.985 381	1.065 27.1	0.655 16.6	2.309 59	1.509 38	25.823 656	1.18 30	8,230 3,426	541 8,865	12.7 323	598 249	79.8 1,308	3.42 86.9	607 9,947	123 2,016	
	W30 x 148 W760 x 220	148 220	43.5 28,100	30.67 779	10.480 266	1.180 30.0	0.650 16.5	2.424 62	1.506 38	25.823 656	1.18 30	6,680 2,780	436 7,145	12.4 315	227 94.5	43.3 710	2.28 57.9	500 8,194	68.0 1,114	
	W30 x 132 W760 x 196	132 196	38.9 25,100	30.31 770	10.545 268	1.000 25.4	0.615 15.6	2.244 57	1.489 38	25.823 656	1.18 30	5,770 2,402	380 6,227	12.2 310	196 81.6	37.2 610	2.25 57.2	437 7,161	58.4 957	
	W30 x 124 W760 x 185	124 185	36.5 23,500	30.17 766	10.515 267	0.930 23.6	0.585 14.9	2.174 55	1.474 37	25.823 656	1.18 30	5,360 2,231	355 5,817	12.1 307	181 75.3	34.4 564	2.23 56.6	408 6,686	54.0 885	
	W30 x 116 W760 x 173	116 173	34.2 22,100	30.01 762	10.495 267	0.850 21.6	0.565 14.4	2.094 53	1.464 37	25.823 656	1.18 30	4,930 2,052	329 5,391	12.0 305	164 68.3	31.3 513	2.19 55.6	378 6,194	49.2 806	
	30 x 10 3/4 760 x 270	W30 x 108 W760 x 161	108 161	31.7 20,500	29.83 758	10.475 266	0.760 19.3	0.545 13.8	2.004 51	1.454 37	25.823 656	1.18 30	4,470 1,861	299 4,900	11.9 302	146 60.8	27.9 457	2.15 54.6	346 5,670	43.9 719
		W30 x 99 W760 x 147	99 147	29.1 18,800	29.65 753	10.450 265	0.670 17.0	0.520 13.2	1.914 49	1.441 37	25.823 656	1.18 30	3,990 1,661	269 4,408	11.7 297	128 53.3	24.5 401	2.10 53.3	312 5,113	38.6 633
		W30 x 90 W760 x 134	90 134	26.4 17,000	29.53 750	10.400 264	0.610 15.5	0.470 11.9	1.854 47	1.416 36	25.823 656	1.18 30	3,610 1,503	245 4,015	11.7 297	115 47.9	22.1 362	2.09 53.1	283 4,638	34.7 569

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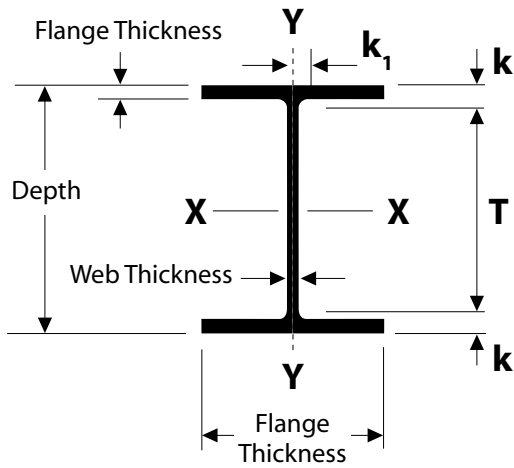
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WIDE FLANGE Specifications



WIDE FLANGE 33" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP	WT AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS				
				FLANGE WEB		k	k ₁	T		X-X			Y-Y			Z _x	Z _y			
				in	in	in	in	in		I _x	S _x	r _x	I _y	S _y	r _y	in	in			
				in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in ² (mm ²)	in (mm)	in (mm)		in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)	in (mm)	in ⁴ (10 ⁶ mm ⁴)	in ³ (10 ³ mm ³)		
33 x 15 3/4 840 x 400	W33 x 387 W840 x 576	387 576	114.0 73,500	35.95 913	16,200 411	2.280 57.9	1.260 32.0	3.524 89	1.811 46	28.903 734	1.18 30	24,300 10,114	1,350 22,122	14.6 371	1,620 674	200 3,277	3.77 95.8	1,560 25,564	312 5,113	
	W33 x 354 W840 x 527	354 527	104.1 67,200	35.55 903	16,100 409	2.090 53.1	1.160 29.5	3.334 85	1.761 45	28.883 734	1.18 30	22,000 9,157	1,240 20,320	14.5 368	1,460 608	181 2,966	3.74 95.0	1,420 23,270	282 4,621	
	W33 x 318 W840 x 473	318 473	93.5 60,300	35.16 893	15,985 406	1.890 48.0	1.040 26.4	3.134 80	1.701 43	28.893 734	1.18 30	19,500 8,117	1,110 18,190	14.5 368	1,290 537	161 2,638	3.71 94.2	1,270 20,811	250 4,097	
	W33 x 291 W840 x 433	291 433	85.6 55,200	34.84 885	15,905 404	1.730 43.9	0.960 24.4	2.974 75	1.661 42	28.893 734	1.18 30	17,700 7,367	1,020 16,715	14.4 366	1,160 483	146 2,393	3.68 93.5	1,160 19,009	226 3,703	
	W33 x 263 W840 x 392	263 392	77.4 49,900	34.53 877	15,805 401	1.570 39.9	0.870 22.1	2.814 71	1.616 41	28.903 734	1.18 30	15,900 6,618	919 15,060	14.3 363	1,040 433	131 2,147	3.66 93.0	1,040 17,042	202 3,310	
	W33 x 241 W840 x 359	241 359	70.9 45,700	34.18 868	15,860 403	1.400 35.6	0.830 21.1	2.644 67	1.596 41	28.893 734	1.18 30	14,200 5,910	831 13,618	14.1 358	933 388	118 1,934	3.62 91.9	940 15,404	182 2,982	
	W33 x 221 W840 x 329	221 329	65.0 41,900	33.93 862	15,805 401	1.275 32.4	0.775 19.7	2.519 64	1.569 40	28.893 734	1.18 30	12,900 5,369	759 12,438	14.1 358	840 350	106 1,737	3.59 91.2	857 14,044	164 2,687	
	W33 x 201 W840 x 299	201 299	59.1 38,100	33.68 855	15,745 400	1.150 29.2	0.715 18.2	2.394 61	1.539 39	28.893 734	1.18 30	11,600 4,828	686 11,241	14.0 356	749 312	95.2 1,560	3.56 90.4	773 12,667	147 2,409	
	W33 x 169 W840 x 251	169 251	49.5 31,900	33.82 859	11,500 292	1.220 31.0	0.670 17.0	2.464 63	1.516 39	28.893 734	1.18 30	9,290 3,867	549 8,996	13.7 348	310 129	53.9 883	2.50 63.5	629 10,307	84.4 1,383	
	W33 x 152 W840 x 226	152 226	44.7 28,800	33.49 851	11,565 294	1.055 26.8	0.635 16.1	2.299 58	1.499 38	28.893 734	1.18 30	8,160 3,396	487 7,980	13.5 343	273 114	47.2 773	2.47 62.7	559 9,160	73.9 1,211	
	33 x 11 1/2 840 x 290	W33 x 141 W840 x 210	141 210	41.6 26,800	33.30 846	11,535 293	0.960 24.4	0.605 15.4	2.204 56	1.484 38	28.893 734	1.18 30	7,450 3,101	448 7,341	13.4 340	246 102	42.7 700	2.43 61.7	514 8,423	66.9 1,096
		W33 x 130 W840 x 193	130 193	38.3 24,700	33.09 840	11,510 292	0.855 21.7	0.580 14.7	2.099 53	1.471 37	28.893 734	1.18 30	6,710 2,793	406 6,653	13.2 335	218 90.7	37.9 621	2.39 60.7	467 7,653	59.5 975
W33 x 118 W840 x 176		118 176	34.7 22,400	32.86 835	11,480 292	0.740 18.8	0.550 14.0	1.984 50	1.456 37	28.893 734	1.18 30	5,900 2,456	359 5,883	13.0 330	187 77.8	32.6 534	2.32 58.9	415 6,801	51.3 841	

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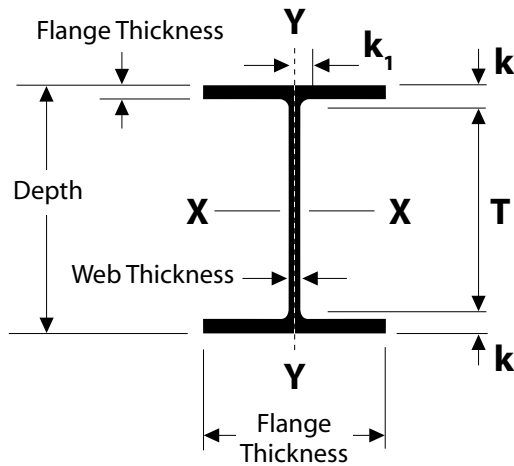
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WIDE FLANGE Specifications



WIDE FLANGE 36" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

	WT	AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES			PLASTIC MODULUS				
					FLANGE WEB		k	k ₁	T		X-X		Y-Y		Z _x	Z _y		
					in	in	in	in	in		I _x	S _x	r _x	I _y	S _y	r _y	in	in
					lb/ft	in ²	in	in	in		in ⁴	in ³	in	in ⁴	in ³	in	in	in
W36 x 441 W920 x 656	441	129.7	38.85	16.965	2.440	1.360	3.684	1.861	31.483	1.18	32,100	1,650	15.7	1,910	235	3.92	1,910	368
	656	83,700	987	431	62.0	34.5	94	47	800	30	13,361	27,039	399	795	3,851	99.6	31,299	6,030
W36 x 395 W920 x 588	395	116.2	38.37	16.830	2.200	1.220	3.444	1.791	31.483	1.18	28,500	1,490	15.7	1,750	208	3.88	1,710	325
	588	75,000	975	427	55.9	31.0	87	46	800	30	11,863	24,417	399	728	3,408	98.6	28,022	5,326
W36 x 361 W920 x 537	361	106.1	37.99	16.730	2.010	1.120	3.254	1.741	31.483	1.18	25,700	1,350	15.6	1,570	188	3.85	1,550	293
	537	68,500	965	425	51.1	28.4	83	44	800	30	10,697	22,122	396	653	3,081	97.8	25,400	4,801
W36 x 330 W920 x 491	330	97.0	37.67	16.630	1.850	1.020	3.094	1.691	31.483	1.18	23,300	1,240	15.5	1,420	171	3.83	1,410	265
	491	62,600	957	422	47.0	25.9	79	43	800	30	9,698	20,320	394	591	2,802	97.3	23,106	4,343
W36 x 302 W920 x 449	302	88.8	37.33	16.655	1.680	0.945	2.924	1.654	31.483	1.18	21,100	1,130	15.4	1,300	156	3.82	1,280	241
	449	57,600	948	423	42.7	24.0	74	42	800	30	8,782	18,517	391	541	2,556	97.0	20,975	3,949
W36 x 282 W920 x 420	282	82.9	37.11	16.595	1.570	0.885	2.814	1.624	31.483	1.18	19,600	1,050	15.4	1,200	144	3.80	1,190	223
	420	53,500	943	422	39.9	22.5	71	41	800	30	8,158	17,206	391	499	2,360	96.5	19,501	3,654
W36 x 262 W920 x 390	262	77.0	36.85	16.550	1.440	0.840	2.684	1.601	31.483	1.18	17,900	972	15.3	1,090	132	3.76	1,100	204
	390	49,700	936	420	36.6	21.3	68	41	800	30	7,451	15,928	389	454	2,163	95.5	18,026	3,343
W36 x 247 W920 x 368	247	72.5	36.67	16.510	1.350	0.800	2.594	1.581	31.483	1.18	16,700	913	15.2	1,010	123	3.74	1,030	190
	368	46,800	931	419	34.3	20.3	66	40	799	30	6,951	14,961	386	420	2,016	95.0	16,879	3,114
W36 x 231 W920 x 344	231	68.0	36.49	16.470	1.260	0.760	2.504	1.561	31.483	1.18	15,600	854	15.1	940	114	3.71	963	176
	344	43,900	927	418	32.0	19.3	64	40	800	30	6,493	13,994	384	391	1,868	94.2	15,781	2,884
W36 x 256 W920 x 381	256	75.4	37.43	12.215	1.730	0.960	2.974	1.661	31.483	1.18	16,800	895	14.9	528	86.5	2.65	1,040	137
	381	48,600	951	310	43.9	24.4	75	42	800	30	6,993	14,666	378	220	1,417	67.3	17,042	2,245
W36 x 232 W920 x 345	232	68.1	37.12	12.120	1.570	0.870	2.814	1.616	31.493	1.18	15,000	809	14.8	468	77.2	2.62	936	122
	345	44,000	943	308	39.9	22.1	71	41	800	30	6,243	13,257	376	195	1,265	66.5	15,338	1,999
W36 x 210 W920 x 313	210	61.8	36.69	12.180	1.360	0.830	2.604	1.596	31.483	1.18	13,200	719	14.6	411	67.5	2.58	833	107
	313	39,900	932	309	34.5	21.1	66	41	800	30	5,494	11,782	371	171	1,106	65.5	13,650	1,753
W36 x 194 W920 x 289	194	57.0	36.49	12.115	1.260	0.765	2.504	1.564	31.483	1.18	12,100	664	14.6	375	61.9	2.56	767	97.7
	289	36,800	927	308	32.0	19.4	64	40	800	30	5,036	10,881	371	156	1,014	65.0	12,569	1,601
W36 x 182 W920 x 271	182	53.6	36.33	12.075	1.180	0.725	2.424	1.544	31.483	1.18	11,300	623	14.5	347	57.6	2.55	718	90.7
	271	34,600	923	307	30.0	18.4	62	39	800	30	4,703	10,209	368	144	944	64.8	11,766	1,486
W36 x 170 W610 x 253	170	50.0	36.17	12.030	1.100	0.680	2.344	1.521	31.483	1.18	10,500	581	14.5	320	53.2	2.53	668	83.8
	253	32,300	919	306	27.9	17.3	59	39	800	30	4,370	9,521	368	133	872	64.3	10,947	1,373
W36 x 160 W610 x 238	160	47.0	36.01	12.000	1.020	0.650	2.264	1.506	31.483	1.18	9,760	542	14.4	295	49.1	2.50	624	77.3
	238	30,300	915	305	25.9	16.5	57	38	800	30	4,062	8,882	366	123	805	63.5	10,225	1,267
W36 x 150 W610 x 223	150	44.2	35.85	11.975	0.940	0.625	2.184	1.494	31.483	1.18	9,040	504	14.3	270	45.1	2.47	581	70.9
	223	28,500	911	304	23.9	15.9	55	38	800	30	3,763	8,259	363	112	739	62.7	9,521	1,162
W36 x 135 W610 x 201	135	39.7	35.55	11.950	0.790	0.600	2.034	1.481	31.483	1.18	7,800	439	14.0	225	37.7	2.38	509	59.7
	201	25,600	903	304	20.1	15.2	52	38	800	30	3,247	7,194	356	93.7	618	60.5	8,341	978

PRIME SECTION GROUP

36 x 16 1/2
920 x 420

36 x 12
920 x 300

R.W. CONKLINSTEEL

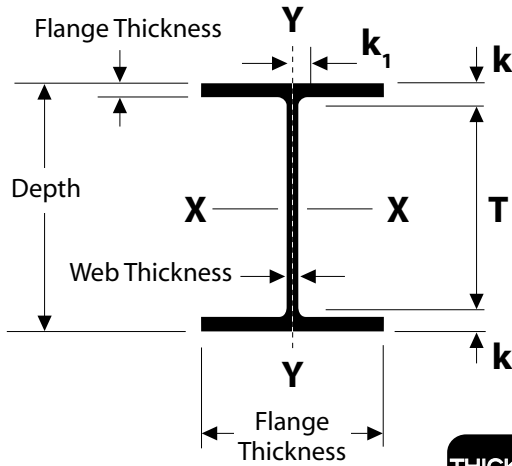
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WIDE FLANGE Specifications



WIDE FLANGE 40" & 44" with mm equivalents

Wide Flange shapes are doubly-symmetric shapes in which it's inside flange surfaces are parallel. R.W. Conklin Steel Supply stocks a wide variety of Wide Flange shapes with sizes ranging from 4 x 13 to 40 x 431.

PRIME SECTION GROUP	WT AREA		DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS R	ELASTIC PROPERTIES						PLASTIC MODULUS		
	in x lbs/ft	lb/ft	in	in	in	in	k	k ₁	T		X-X			Y-Y			Z _x	Z _y	
	(mm x kg/m)	(kg/m)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		I _x	S _x	r _x	I _y	S _y	r _y	in	in	
											(10 ⁶ mm ⁴)	(10 ³ mm ³)	(mm)	(10 ⁶ mm ⁴)	(10 ³ mm ³)	(mm)	(10 ⁶ mm ⁴)	(10 ⁶ mm ⁴)	
40 x 16 1000 x 400	W40 x 431 W1000 x 642	431 642	126.7 81,800	41.26 1,048	16.220 412	2.360 60.0	1.340 34.0	3.604 92	1.851 47	34.053 865	1.18 30	34,800 14,485	1,690 27,694	16.6 422	1,690 703	208 3,408	3.65 92.7	1,960 32,119	328 5,375
	W40 x 397 W1000 x 591	397 591	117.0 75,300	40.95 1,040	16.120 409	2.200 55.9	1.220 31.0	3.444 87	1.791 46	34.063 865	1.18 30	32,000 13,319	1,560 25,564	16.6 422	1,540 641	191 3,130	3.64 92.5	1,800 29,497	300 4,916
	W40 x 372 W1000 x 554	372 554	109.4 70,600	40.63 1,032	16.065 408	2.045 52.0	1.160 29.5	3.289 84	1.761 45	34.053 865	1.18 30	29,600 12,320	1,460 23,925	16.5 419	1,420 591	177 2,900	3.60 91.4	1,680 27,530	277 4,539
	W40 x 362 W1000 x 539	362 539	107.0 68,700	40.55 1,030	16.020 407	2.010 51.1	1.120 28.4	3.254 83	1.741 44	34.043 865	1.18 30	28,900 12,029	1,420 23,270	16.5 419	1,380 574	173 2,835	3.60 91.4	1,640 26,875	270 4,424
	W40 x 324 W1000 x 483	324 483	95.3 61,500	40.16 1,020	15.910 404	1.810 46.0	1.000 25.4	3.054 78	1.681 43	34.053 865	1.18 30	25,600 10,656	1,280 20,975	16.4 417	1,220 508	153 2,507	3.58 90.9	1,460 23,925	239 3,916
	W40 x 297 W1000 x 443	297 443	87.4 56,400	39.84 1,012	15.825 402	1.650 41.9	0.930 23.6	2.894 73	1.646 42	34.053 865	1.18 30	23,200 9,657	1,170 19,173	16.3 414	1,090 454	138 2,261	3.54 89.9	1,330 21,795	215 3,523
	W40 x 277 W1000 x 412	277 412	81.3 52,500	39.69 1,008	15.830 402	1.575 40.0	0.830 21.1	2.819 72	1.596 41	34.053 865	1.18 30	21,900 9,115	1,100 18,026	16.4 417	1,040 433	132 2,163	3.58 90.9	1,250 20,484	204 3,343
	W40 x 249 W1000 x 371	249 371	73.3 47,300	39.38 1,000	15.750 400	1.420 36.1	0.750 19.0	2.664 68	1.556 40	34.053 865	1.18 30	19,600 8,158	993 16,272	16.3 414	926 385	118 1,934	3.55 90.2	1,120 18,353	182 2,982
	W40 x 215 W1000 x 321	215 321	63.3 40,800	38.98 990	15.750 400	1.220 31.0	0.650 16.5	2.464 63	1.506 38	34.053 865	1.18 30	16,700 6,951	859 14,076	16.2 411	796 331	101 1,655	3.54 89.9	964 15,797	156 2,556
	W40 x 199 W1000 x 296	199 296	58.4 37,700	38.67 982	15.750 400	1.065 27.1	0.650 16.5	2.309 59	1.506 38	34.053 865	1.18 30	14,900 6,202	770 12,618	16.0 406	695 289	88.2 1,445	3.45 87.6	869 14,240	137 2,245
	W40 x 327 W1000 x 486	327 486	95.9 61,900	40.79 1,036	12.130 308	2.130 54.1	1.180 30.0	3.374 86	1.771 45	34.043 865	1.18 30	24,500 10,198	1,200 19,664	16.0 406	640 266	105 1,721	2.58 65.5	1,410 23,106	170 2,786
	W40 x 294 W1000 x 438	294 438	86.2 55,600	40.39 1,026	12.010 305	1.930 49.0	1.060 26.9	3.174 81	1.711 43	34.043 865	1.18 30	21,900 9,115	1,080 17,698	15.9 404	562 234	93.5 1,532	2.55 64.8	1,270 20,811	150 2,458
	W40 x 264 W1000 x 393	264 393	77.6 50,100	40.00 1,016	11.930 303	1.730 43.9	0.960 24.4	2.974 75	1.661 42	34.053 865	1.18 30	19,400 8,075	971 15,912	15.8 401	493 205	82.6 1,354	2.52 64.0	1,130 18,517	132 2,163
	W40 x 235 W1000 x 350	235 350	68.9 44,600	39.69 1,008	11.890 302	1.575 40.0	0.830 21.1	2.819 72	1.596 41	34.043 865	1.18 30	17,400 7,242	875 14,339	15.9 404	444 185	74.6 1,222	2.54 64.5	1,010 16,551	118 1,934
	W40 x 211 W1000 x 314	211 314	62.0 40,000	39.37 1,000	11.810 300	1.415 35.9	0.750 19.1	2.659 67	1.556 40	34.043 865	1.18 30	15,500 6,452	786 12,880	15.8 401	390 162	66.1 1,083	2.51 63.8	906 14,847	105 1,721
	W40 x 183 W1000 x 272	183 272	53.7 34,600	38.98 990	11.810 300	1.200 31.0	0.650 16.5	2.444 63	1.506 38	34.093 865	1.18 30	13,200 5,494	675 11,061	15.7 399	331 138	56.0 918	2.49 63.2	774 12,684	88.3 1,447
W40 x 167 W1000 x 249	167 249	49.1 31,700	38.59 980	11.810 300	1.025 26.0	0.650 16.5	2.269 58	1.506 38	34.053 865	1.18 30	11,600 4,828	600 9,832	15.3 389	283 118	47.9 785	2.40 61.0	693 11,356	76.0 1,245	
W40 x 149 W1000 x 222	149 222	43.8 28,200	38.20 970	11.810 300	0.830 21.1	0.630 16.0	2.074 53	1.496 38	34.053 865	1.18 30	9,800 4,079	513 8,407	15.0 381	229 95.3	38.8 636	2.29 58.2	598 9,799	62.2 1,019	
44 x 16 1100 x 400	W44 x 335 W1100 x 499	335 499	98.7 63,500	44.02 1,118	15.945 405	1.770 45.0	1.025 26.0	3.014 77	1.694 43	37.993 965	1.18 30	31,100 12,945	1,410 23,106	17.8 452	1,200 499	150 2,458	3.49 88.6	1,620 26,547	236 3,867
	W44 x 290 W1100 x 433	290 433	85.8 55,100	43.62 1,108	15.825 402	1.575 40.0	0.865 22.0	2.819 72	1.614 41	37.983 965	1.18 30	27,000 11,238	1,240 20,320	17.8 452	1,040 433	132 2,163	3.49 88.6	1,410 23,106	205 3,359
	W44 x 262 W1100 x 390	262 390	77.2 49,700	43.31 1,100	15.750 400	1.415 36.0	0.785 20.0	2.659 68	1.574 40	37.993 965	1.18 30	24,100 10,031	1,110 18,190	17.7 450	923 384	117 1,917	3.47 88.1	1,270 20,811	182 2,982
	W44 x 230 W1100 x 343	230 343	67.9 43,600	42.91 1,090	15.750 400	1.220 31.0	0.710 18.0	2.464 63	1.536 39	37.983 965	1.18 30	20,800 8,658	971 15,912	17.5 445	796 331.3	101 1,655	3.43 87.1	1,100 18,026	157 2,573

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PZ/PZC + BEAM CONNECTORS

Specifications

BBS-M/BBS-F

WEIGHT

~ 6.50 lb/ft

WORKS WITH

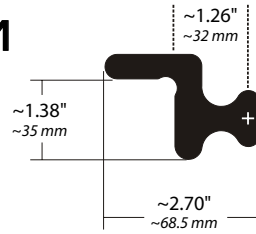
PZ: 22, 27, 35, 40

PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE

ASTM Grade 50 (or better)

BBS-M



BBS-F

