R.W. CONKLIN STEEL

100% Melted & Manufactured in the USA

- H-Pile
- Sheet Piling
- Wide Flange
- Pipe Pile
- Channel
- Plate
- Angle
- Steel Tube
- Rail Shapes
- Structural Tee
- Flats
- Bars

Call Toll-Free
1-888-CONKLIN
(266-5546)

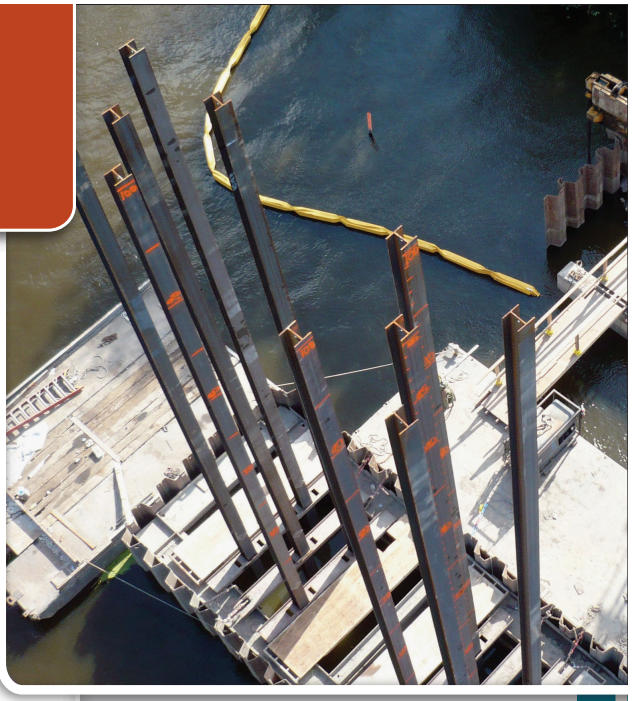
Inventories, depots and sales offices throughout the United States and Canada

www.conklinsteel.com

sales@conklinsteel.com

888-CONKLIN ✦ 513-769-0610 (Fax)

H-PILING



H-Piles are often driven into the ground and used for deep foundations to support structures in commercial construction, such as buildings and bridges. They are also used for: heavy highway, public works, marine, and industrial applications. Due to their strength, they can be utilized for driving in soil conditions that other piling would have difficulty penetrating. The durability of these steel columns work well for applications in areas that are that are prone to earthquakes or other natural disasters.

H-Piles are also commonly used for "soldier pile and lagging" construction where steel piles and timber are used for earth retention.

R.W. Conklin Steel stocks a wide variety of domestically produced H-Pile available in single lengths or multiple truckloads. H-Pile is available in 8, 10, 12, and 14 inch sections in lengths up to 100 feet. For the first time in nearly 100 years, steel mills are producing new sizes of H-pile — 16 and 18 inch. These new sizes have almost doubled the load capacity which is key to the engineering specifics desired in new projects. Ashraf Elsayed of Hall, Blake & Associates, who helped test the piles, says "They can carry more load while also meeting building codes that call for compact sections."

In this section of the catalog, you'll also find information on H-Piling accessories such as:

H-PILE SPLICERS

H-Pile Splicers are used to help with alignment of H-Piles. Splicers also significantly provide an additional weld area when splicing.

The time required to make the H-Pile splices can equal or exceed pile driving time. Pile Splicers substantially reduce splicing time in two ways. First, H-Pile alignment is quick and easy as the splice also serves as the welding template. The H-Pile splicers slip over the driven H-Pile section and the new section easily slides into the top of the H-Pile splicer providing quick and accurate alignment. Second, welding time is greatly reduced — often by up to 75% as only a fraction of the weld is required.

H-PILE POINTS

The load bearing capacity of driven steel H-Piles can be greatly reduced if the H-Piles are damaged during driving due to impact with rocks, boulders, rubble or other obstructions. H-Pile points provide the pile a tip, which minimizes this type of damage. H-Pile points increase the bending strength of pile flanges and web from 2 to 6 times thereby helping insure that the pile reaches final bearing in position and in good condition.

Our H-Pile Points are made of low-alloy cast steel, allowing the piling points to absorb more impact than similar H-Piling Points. They also have a pre-beveled tip, eliminating any kind of pile end preparation. Welding is easy with a weld-prep built into the casting, saving time and money. There is 5/16" groove weld across each flange making it unnecessary to weld the web or any inside flanges.

NEW H-PILE SIZES:

HOW ARE THEY USEFUL?

"As you get into larger structures, taller buildings, heavier loads, where a column would have a 15-pile cluster, now it might take only 10. They drive great, too. You can put big hammers to them and they hold up really well. You can drive through hard clay and dense silts and get to rock so you get to use the majority of the available strength of the steel."

— Michael Wysockey,
President of Thatcher Foundations

Describing the benefits of using the new H-Pile sizes

TO READ MORE ON NEW H-PILE SIZES, VISIT:

http://www.modernsteel.com/SteelInTheNews/

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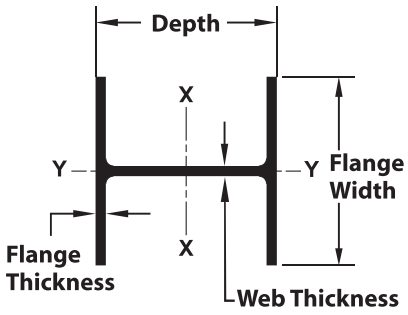
H-PILING *Specifications*



H-Piling is used in a variety of construction projects including, heavy highway, public works, marine, industrial, and more. We stock a wide variety of domestically produced H-Pile available in single lengths or multiple truckloads. H-Pile is available in 8, 10, 12, 14, 16 and 18-inch sections, and in lengths over 100 feet.

SECTION SIZE	WEIGHT	AREA	DEPTH	FLANGE WIDTH	THICKNESS		COATING AREA	ELASTIC PROPERTIES					
								AXIS X-X			AXIS Y-Y		
					FLANGE	WEB		I	S	r	I	S	r
	lb/ft (kg/m)	in² (cm²)	in (mm)	in (mm)	in (mm)	in (mm)	ft²/ft (m²/m)	in⁴ (cm⁴)	in³ (cm³)	in (cm)	in⁴ (cm⁴)	in³ (cm³)	in (cm)
HP 8″ HP 200 mm	36 54	10.6 68.4	8.02 204	8.155 207	0.445 11.3	0.445 11.3	3.92 1.19	119 50	29.8 488	3.36 85	40.3 17	9.88 162	1.95 49.5
HP 10″ HP 250 mm	42 62	12.4 80.0	9.70 246	10.075 256	0.420 10.7	0.415 10.5	4.83 1.47	210 87	43.4 711	4.13 105	71.7 30	14.2 233	2.41 61.2
	57 85	16.8 108	9.99 254	10.225 260	0.565 14.4	0.565 14.4	4.91 1.50	294 122	58.8 964	4.18 106	101 42	19.7 323	2.45 62.2
	53 79	15.5 100	11.78 299	12.045 306	0.435 11.0	0.435 11.0	5.82 1.77	393 164	66.7 1093	5.03 128	127 53	21.1 346	2.86 72.6
HP 12″ HP 310 mm	63 94	18.4 119	11.94 303	12.125 308	0.515 13.1	0.515 13.1	5.86 1.79	472 196	79.1 1296	5.06 129	153 64	25.3 415	2.88 73.2
	74 110	21.8 141	12.13 308	12.215 310	0.610 15.5	0.605 15.4	5.91 180	569 237	93.8 1537	5.11 130	186 77	30.4 498	2.92 74.2
	84 125	24.6 159	12.28 312	12.295 312	0.685 17.4	0.685 17.4	5.97 1.82	650 271	106 1737	5.14 131	213 89	34.6 567	2.94 74.7
	73 109	21.4 138	13.61 346	14.585 370	0.505 12.8	0.505 12.8	6.96 2.12	729 303	107 1753	5.84 148	261 109	35.8 587	3.49 88.6
HP 14″ HP 360 mm	89 132	26.1 168	13.83 351	14.695 373	0.615 15.6	0.615 15.6	7.02 2.14	904 376	131 2147	5.88 149	326 136	44.3 726	3.53 89.7
	102 152	30.0 194	14.01 356	14.785 376	0.705 17.9	0.705 17.9	7.06 2.15	1050 437	150 2458	5.92 150	380 158	51.4 842	3.56 90.4
	117 174	34.4 222	14.21 361	14.885 378	0.805 20.4	0.805 20.4	7.12 2.17	1220 508	172 2819	5.96 151	443 184	59.5 975	3.59 91.2
	88 131	25.8 167	15.33 389	15.665 398	0.540 13.7	0.540 13.7	7.52 2.29	1110 462	145 2376	6.56 167	349 145	44.5 729	3.68 93.5
	101 151	29.8 192	15.50 394	15.750 400	0.625 15.9	0.625 15.9	7.56 2.30	1300 541	168 2753	6.59 167	412 171	52.2 855	3.71 94.2
HP 16″ HP 410 mm	121 181	35.7 230	15.75 400	15.875 403	0.750 19.1	0.750 19.1	7.62 232	1590 662	201 3294	6.66 169	504 210	63.4 1039	3.75 95.3
	141 211	41.7 269	16.00 406	16.000 406	0.875 22.2	0.875 22.2	7.69 2.34	1870 778	234 3835	6.70 170	599 249	74.9 1227	3.79 96.3
	162 242	47.7 308	16.25 413	16.125 410	1.000 25.4	1.000 25.4	7.75 2.36	2190 912	269 4408	6.78 172	697 290	86.6 1419	3.82 97.0
	183 272	53.8 347	16.50 419	16.250 413	1.125 28.6	1.125 28.6	7.81 2.38	22510 1045	304 4982	6.81 173	818 340	100.0 1639	3.89 98.8
	135 202	39.8 257	17.50 445	17.750 451	0.750 19.1	0.750 19.1	8.54 2.60	2200 916	251 4113	7.43 189	706 294	79.3 1299	4.21 106.9
HP 18″ HP 460 mm	157 234	46.2 298	17.74 451	17.870 454	0.870 22.1	0.870 22.1	8.60 2.62	2570 1070	290 47752	7.46 189	833 347	93.1 1526	4.25 108.0
	181 269	53.2 343	18.00 457	18.000 457	1.000 25.4	1.000 25.4	8.66 2.64	3020 1257	336 5506	7.53 191	974 405	108.0 1770	4.28 108.7
	204 304	60.0 387	18.25 464	18.125 460	1.125 28.6	1.125 28.6	8.73 2.66	3480 1448	380 6227	7.60 193	1120 466	124.0 2032	4.31 109.5

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PZ/PZC + BEAM CONNECTORS

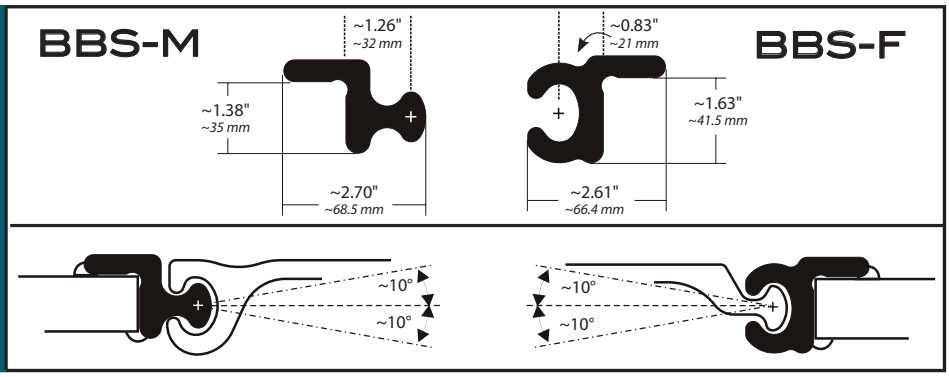
Specifications

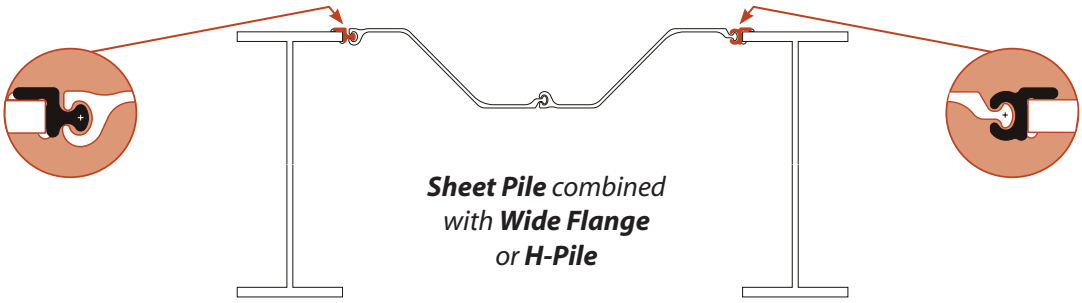
BBS-M/BBS-F

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)





Sheet Pile *combined with* ***Wide Flange*** *or* ***H-Pile***

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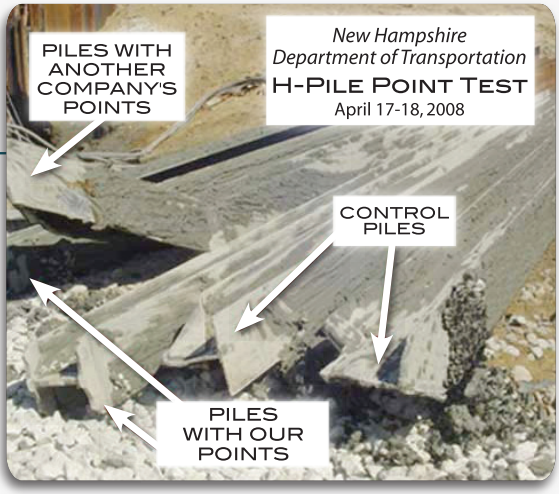
H-PILE PILING POINTS

Specifications

A CASE STUDY: PILING POINTS



The New Hampshire Department of Transportation conducted a comprehensive H-pile point test in Rochester, NH on April 17-18, 2008. The test involved driving and pulling a total of fifteen 12" x 53" H-piles. There were three control piles driven without pile points, and twelve piles driven with four different H-pile points (three piles for each design). Our 12" Hard-Bite Model 77600-B-30 65/35 was used for this test. All the piles were driven utilizing a pile driving monitoring device.

When all three control piles were pulled, it showed they sustained significant damage, even though the monitoring device registered no damage to the piles while driving. Also, one H-pile with another company's piling point attached, resulted in total pile failure. However, all three piles with our pile points attached, completely protected the piles even under the most extreme driving stresses.

Over the past 50 years, APF H-pile points have been independently tested and also tested by various state and federal agencies proving their effectiveness to protect the pile while driving and provide a sound undamaged pile.

PILING POINTS: FILL A NEED

Piling Points are a good "Insurance Policy"

- Damage, which has occurred during pile driving, often cannot be detected from the surface.
- If you are driving H-piles, we have a point that can save you trouble, time, and money.
- Having no bad piles means avoiding re-designing and the costly interruption even one rejected pile can create. Protect the dependability of the installation, as well as the owner and contractor in controlling costs.
- Our rugged points will cut through difficult strata allowing deep seating of the pile.
- Pulling of test piles often leads to surprising evidence of unpredicted failures in unprotected piles and even those re-inforced by methods other than our steel points.
- Stresses permitted on steel have increased and design loads have become heavier, it is more essential than ever that every pile reach bearing depth in good condition.

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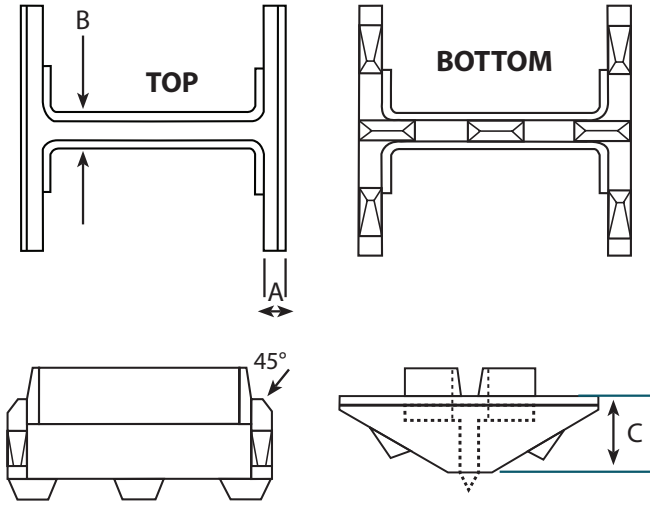
H-PILE PILING POINTS
Specifications

HARD-BITE POINT
HP 7780-B & HP 77750-B



Our H-Piling Points are made of low alloy cast steel, allowing the points to absorb more impact than similar H-Piling Points. They also have a pre-beveled tip, eliminating any kind of pile end preparation.

Welding is easy with a weld-prep built into the casting, saving you time and money.

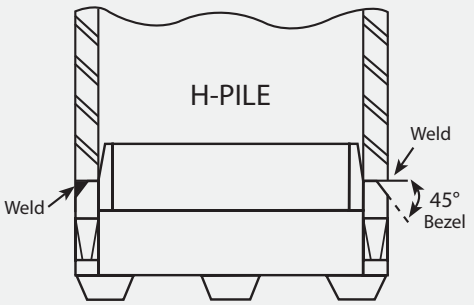
H-PILE POINT MODEL	A	B	C
14" HP			
77750-B	1"	1-1/4"	2-3/4"
12" HP			
77750-B	1"	1-5/16"	3"
7780-B	3/4"	3/4"	3-1/2"
10" HP			
77750-B	1"	1"	2-1/16"

Installation Instructions

1.) Fit point onto the end of a square cut pile end.

2.) Weld point to the pile in either flat or vertical position using E70XX electrodes.

3.) Weld across full width of flange following chart below for minimum size weld.



H-PILE SIZE	FLANGE THICKNESS	MINIMUM SIZE GROOVE WELD
HP 14		
x 117	.805	7/16
x 102	.705	3/8
x 89	.615	3/8
x 73	.505	5/16
HP 12		
x 84	.685	3/8
x 74	.610	3/8

H-PILE SIZE	FLANGE THICKNESS	MINIMUM SIZE GROOVE WELD
HP 12		
x 63	.515	5/16
x 53	.435	5/16
HP 10		
x 57	.565	5/16
x 42	.420	5/16

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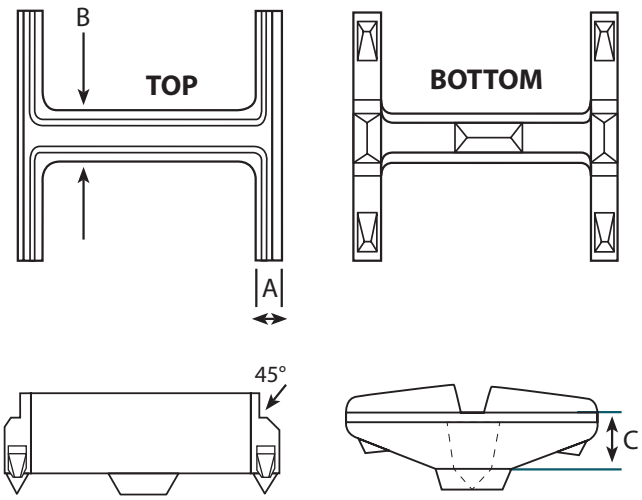
H-PILE PILING POINTS
Specifications

HARD-BITE POINT
HP 77600-B, HP 77600-B-18#
HP 77600-B-30#, HP 77600-B-46#



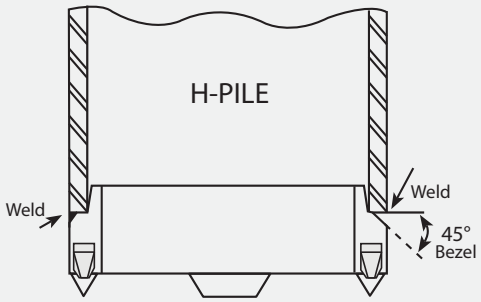
H-PILE POINT MODEL	A	B	C
14" HP			
77600-B	1"	1-1/4"	2-3/4"
77600-B-46#	1-1/2"	1-3/4"	3"
77750-B	1"	1"	4"
12" HP			
77600-B-30#	1"	1-5/16"	3"
77750-B	3/4"	3/4"	3-1/2"
7780-B	3/4"	3/4"	3"
10" HP			
77600-B	1"	1"	2-1/16"
77600-B-18#	1"	1-1/8"	2-3/8"
77750-B	3/4"	3/4"	3"
8" HP			
77600-B	1-1/16"	1"	1-7/16"

Installation Instructions

1.) Fit point onto the end of a square cut pile end.

2.) Weld point to the pile in either flat or vertical position using E70XX electrodes.

3.) Weld across full width of flange following chart below for minimum size weld.



H-PILE SIZE	FLANGE THICKNESS	MINIMUM SIZE GROOVE WELD
HP 14		
x 117	.805	7/16
x 102	.705	3/8
x 89	.615	3/8
x 73	.505	5/16
HP 12		
x 84	.685	3/8
x 74	.610	3/8

H-PILE SIZE	FLANGE THICKNESS	MINIMUM SIZE GROOVE WELD
HP 12		
x 63	.515	5/16
x 53	.435	5/16
HP 10		
x 57	.565	5/16
x 42	.420	5/16
HP 8		
x 36	.445	5/16

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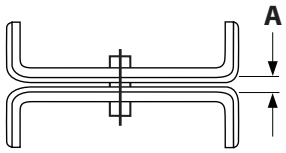
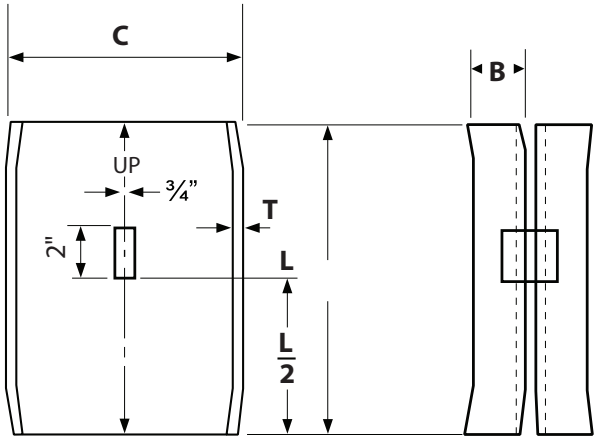
H-PILE SPLICERS

Specifications

H-Pile Splicers are used to help with alignment of H-Piles. Splicers also significantly provide an additional weld area when splicing.



NOTE: INCREASE IN FLANGE WELD THICKNESS AND/OR GRADE OF WELD MATERIAL MAY BE REQUIRED TO DEVELOP THE FULL VALUE OF PILE IN BENDING.



H-PILE SECTION SIZE	FLANGE WEB	MINIMUM WELD SIZE	TOTAL INCHES OF WELD*	A (±1/16)	B (±1/16)	C (±1/16)	L (±1/16)
	in	in	in	in	in	in	in
HP 18							
x 204	1.1250	0.6250	56	1.2500	0.250	15.8120	16
x 181	1.0000	0.5625	56	1.1250	0.250	15.8120	16
x 157	0.8700	0.5000	56	0.9950	0.250	15.8120	16
x 135	0.7500	0.4375	56	0.8750	0.250	15.8120	16
HP 16							
x 183	1.125	0.6250	53	1.2500	0.250	14.0600	16
x 162	1.000	0.5625	52	1.1250	0.250	14.0600	16
x 141	0.875	0.5000	52	1.0000	0.250	14.0600	16
x 121	0.750	0.4375	52	0.8750	0.250	14.0600	16
x 101	0.625	0.3750	52	0.7500	0.250	14.0600	16
x 88	0.540	0.3750	51	0.6650	0.250	14.0600	16
HP 14							
x 117	0.805	0.4375	50	0.9375	0.275	12.4375	16
x 102	0.705	0.4375	50	0.9375	0.275	12.4375	16
x 89	0.625	0.3750	49	0.6875	0.275	12.4375	16
x 73	0.500	0.3750	49	0.6250	0.275	12.4375	16
HP 12							
x 84	0.6875	0.4375	44	0.7500	0.250	10.7500	14
x 74	0.6250	0.3750	44	0.6875	0.250	10.7500	14
x 63	0.5000	0.3750	44	0.6250	0.250	10.7500	14
x 53	0.4375	0.3125	44	0.5000	0.250	10.7500	14
HP 10							
x 57	0.5625	0.3125	40	0.6250	0.200	8.7500	12
x 42	0.4375	0.3125	40	0.5000	0.200	8.7500	12
HP 8							
x 36	0.4375	0.3125	36	0.5000	0.175	7.000	10

Splicer is made from 3/8 inch thick steel. *Includes eight 5/16 inch x 2-1/2 inch fillet welds near corners of splicer.

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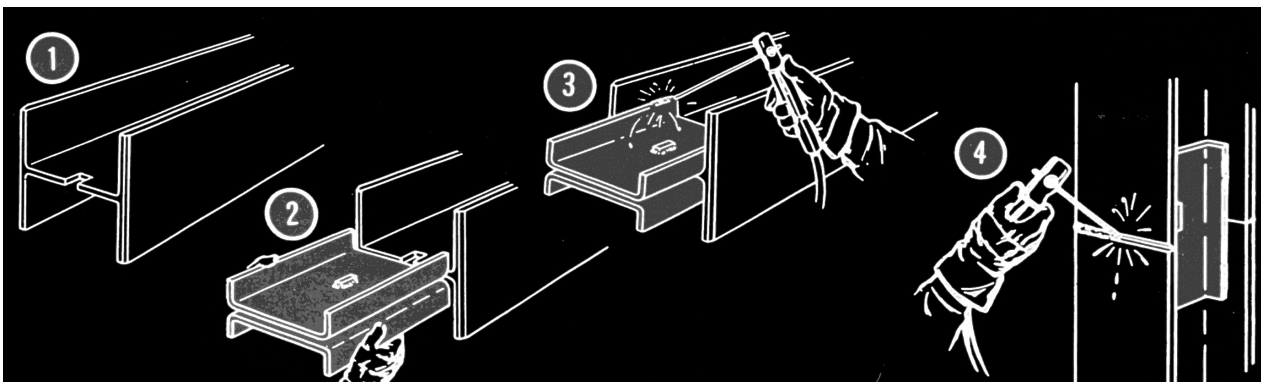
H-PILE SPLICERS

Specifications

NOTE: INCREASE IN FLANGE WELD THICKNESS AND/OR GRADE OF WELD MATERIAL MAY BE REQUIRED TO DEVELOP THE FULL VALUE OF PILE IN BENDING.

DETAILS OF ASSEMBLY

1. With pile on the ground, scarf the outside edge of each flange of the H and torch cut a 7/8" x 2-1/8" notch in the web.
2. Set splicer on H to one-half of length. Splicer can be put on the driven length.
3. Make a 5/16" x 2-1/2" fillet weld along each corner. Total of 8.
4. Set length to be added in position. Die-formed tapers provide for quick entry and close positioning. Place partial penetration groove weld along the full width of each flange and a fillet weld at each remaining corner. (E70 welding rod recommended.)



Sheet Piling

Steel Sheet Piling has a connection "interlock" at both ends of the section. These interlocks connect with one another to form a continuous wall of Sheet Piling. Soil conditions may allow for the sections to be vibrated into the ground instead of being hammer driven. Typically these are designed to create a rigid barrier for earth and water, while resisting the lateral pressures of those bending forces. The shape or geometry of a section lends to the structural strength. In addition, the soil in which the section is driven has numerous mechanical properties that can affect the performance. The wall of sheeting provides excellent resistance to bending forces and is used to provide structural strength to a foundation.

Steel Sheet Piling is classified in two construction applications, permanent and temporary. A permanent application is one that "stays-in-place" where the sheet piling wall is driven and remains in the ground. A temporary application provides access and safety for construction in a confined area, but once the work is completed, the Sheet Piling is removed.

R.W. Conklin Steel carries a vast inventory of Sheet Pile. Hot-Rolled Sheet Piling, such as, PZ, PZC, and PS Shapes, as well as Cold-Formed Sheet Piling, such as, Lightweight, LZ, SZ, and MSZ (Mega-Z). All shapes can be used for combined walls and are available in all grade qualities.

PZC Sheet Piling is available in PZC-13, 14, 18, 19, 25, 26, and 28. PZC's are manufactured to be wider, lighter, and stronger than traditional PZ piling, and because the new sizes have a higher Section Modulus and Moment of Inertia, they offer more possibilities for a variety of projects.

Mega-Z Sheet Piling is also being manufactured to provide larger sizes than have been previously available in Cold-Formed sections, which also offer a higher Section Modulus and Moment of Inertia.

In this section of the catalog, you'll also find information on Sheet Piling accessories such as:

SHEET PILING 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.

SHEET PILING PROTECTORS

Sheet Piling Protectors help insure pile penetration and at the same time provide significant protection. These protectors may be installed with tack-weld or drive-fit.

COLD FORMED OR HOT ROLLED:

WHAT IS THE DIFFERENCE?

Cold rolling (or cold-formed) is a metal working process in which metal is formed by passing it through rollers at a temperature below its recrystallization temperature. Cold rolling increases the yield strength and hardness of a metal by introducing defects into the metal's crystal structure.

Hot-rolled steel shapes are formed at increased temperatures while the cold-formed steel shapes are formed at room temperature. The manufacturing process involves forming the material by either press-braking or cold roll-forming to achieve the desired shape.

Since cold-formed steel is formed at room temperature, the material becomes harder and stronger. Its lightweight makes it easier and more economical to mass-produce, transport and install

R.W. CONKLINSTEEL

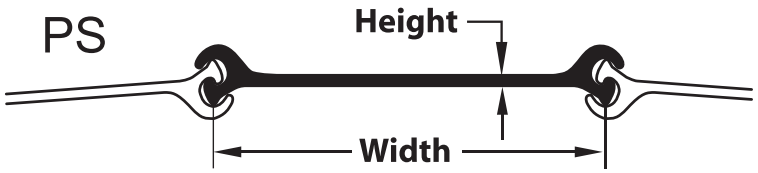
100% Melted & Manufactured in the USA

1-888-CONKLIN (266-5546)

www.conklinsteel.com

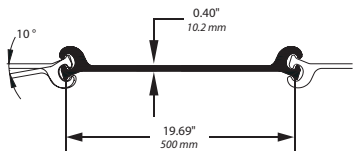
HOT ROLLED PS FLAT WEB SHEET PILING

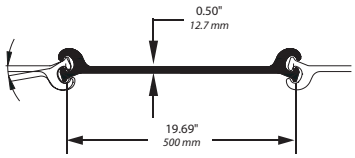
Specifications



SECTION SIZE	NOMINAL WIDTH	DEPTH (HEIGHT)	WALL DEPTH (HEIGHT)	WEB THICKNESS	PER SINGLE SECTION						PER UNIT OF WALL			
					AREA	WEIGHT	MOMENT OF INERTIA	SECTION MODULUS	TOTAL SURFACE AREA	NOMINAL COATING AREA*	AREA	WEIGHT	MOMENT OF INERTIA	SECTION MODULUS
	in (mm)	in (mm)	in (mm)	in (mm)	in^2 (cm^2)	lb/ft (kg/m)	in^4 (cm^4)	in^3 (cm^3)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in^2/ft (cm^2/m)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	in^3/ft (cm^3/m)
PS 27.5	19.69 *500*	2.83 *72*	3.55 *90*	0.40 *10.2*	13.26 *85.5*	45.1 *67.1*	5.0 *207*	3.2 *52*	4.50 *1.37*	3.64 *1.11*	8.08 *171.0*	27.5 *134.2*	3.0 *414*	1.9 *103*
PS 31	19.69 *500*	2.83 *72*	3.55 *90*	0.50 *12.7*	14.96 *96.5*	50.9 *75.7*	5.0 *207*	3.2 *52*	4.50 *1.37*	3.64 *1.11*	9.11 *192.9*	31.0 *151.4*	3.0 *414*	1.9 *103*

* Both sides of the sheet; excludes socket and ball of interlock.





PROPER INTERLOCK

IMPROPER INTERLOCK

AVAILABLE STEEL GRADES

SECTION SIZE	PS's					PZ's	
	YIELD STRENGTH (ksi)	YIELD STRENGTH (MPa)	INTERLOCK STRENGTH (k/in)	INTERLOCK STRENGTH (kN/m)	MAXIMUM SWING**	YIELD STRENGTH (ksi)	YIELD STRENGTH (MPa)
A328	39	270	16	2800	10 Degrees	39	270
A572-50	50	345	20	3500	10 Degrees	50	345
A572-60	60	415	24	4200	10 Degrees	60	415
A588	65	450	24	4200	10 Degrees	65	450
A690	50	345	20	3500	10 Degrees	50	345

Higher interlock strengths are available but obtainable swing may be reduced in interlock strengths about 24 Kips/in. (4,200 Kn/m)

* The minimum ultimate interlock strengths assume proper interlocking of sheets. To verify the strength of PS Sheet Piling, both yielding of the web and failure of the interlock should be considered.

** Swing reduces 1.5 degrees for each 10 feet (3 meters) in length over 70 feet (21 meters).

NOTE: Do not Interlock PS sections made by two different manufacturers. PS and Z-sheet piling should not be interlocked together. Only PS 27.5 and PS 31 can be interlocked with each other.

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PS FLAT WEB CONNECTORS
Specifications

Corner & Junction Piles

SWC 30A

CORNER
For 30° Y-corners in circular cells with flat sheet piles
WEIGHT
~37.89 lb/ft

SWC 30B

CORNER
For 30° Y-corners in circular cells with flat sheet piles
WEIGHT
~28.83 lb/ft

SWC 60A

CORNER
For 60° Y-corners in circular cells with flat sheet piles
WEIGHT
~41.11 lb/ft

SWC 60B

CORNER
For 60° Y-corners in circular cells with flat sheet piles
WEIGHT
~33.46 lb/ft

SWC 90A

CORNER
For 90° Y-corners in circular cells with flat sheet piles
WEIGHT
~35.82 lb/ft

SWC 90B

CORNER
For 90° Y-corners in circular cells with flat sheet piles
WEIGHT
~35.82 lb/ft

SWC 120

CORNER
For 120° Y-corners in circular cells with flat sheet piles
WEIGHT
~38.29 lb/ft

SWC

CORNER
For weld-on connections
WEIGHT
~12.34 lb/ft

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HOT ROLLED PS FLAT WEB SHEET PILING

Specifications

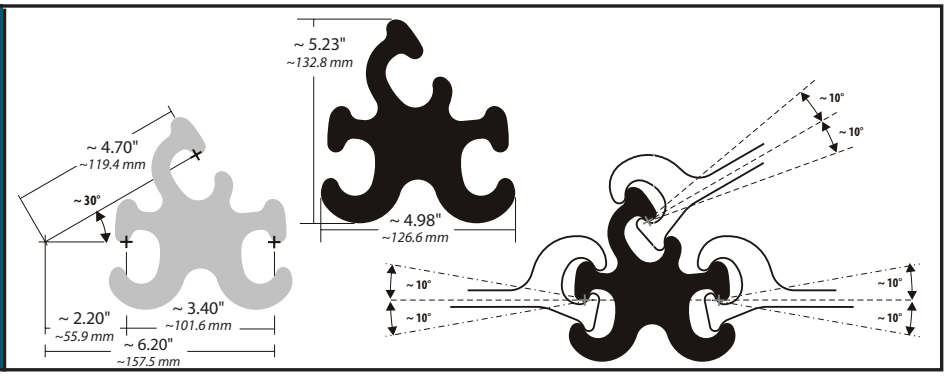
SWC 30 A

30° WYE PILE

WEIGHT
~ 37.89 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)



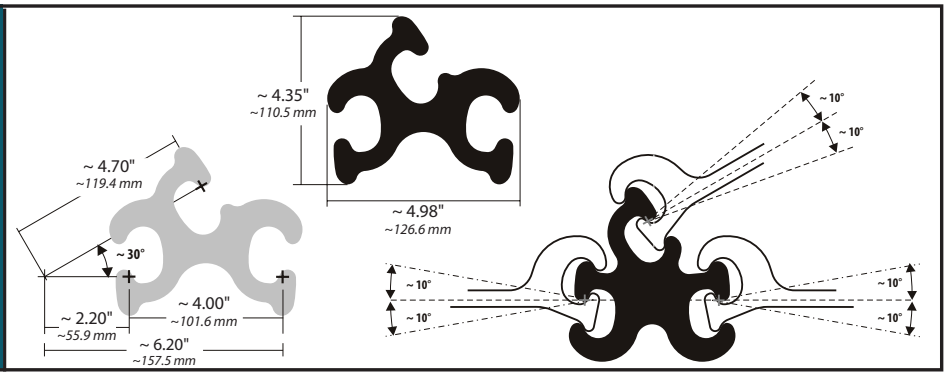
SWC 30 B

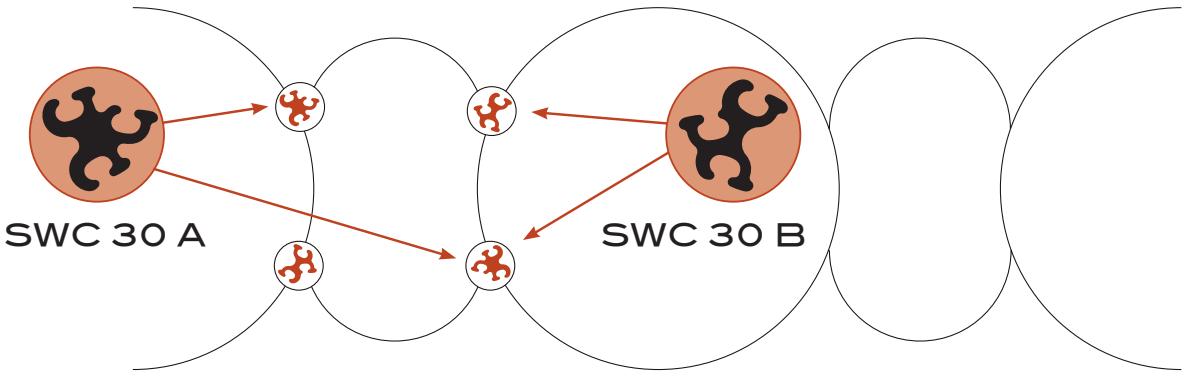
30° WYE PILE

WEIGHT
~ 28.83 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)





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HOT ROLLED PS FLAT WEB SHEET PILING

Specifications

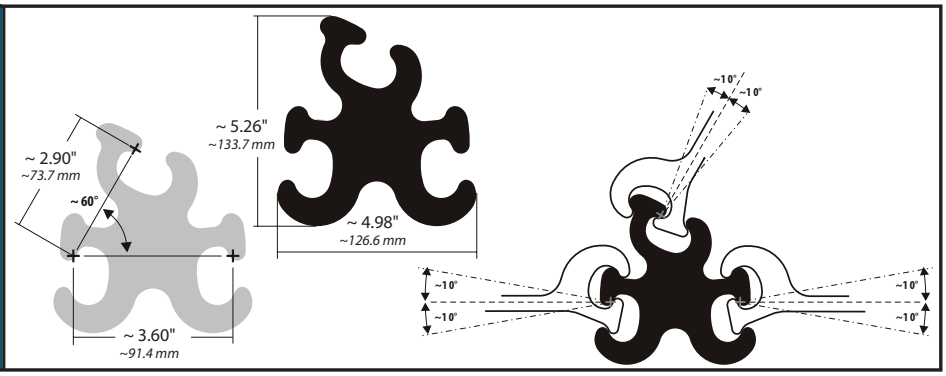
SWC 60 A

60° WYE PILE

WEIGHT
~ 41.11 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)



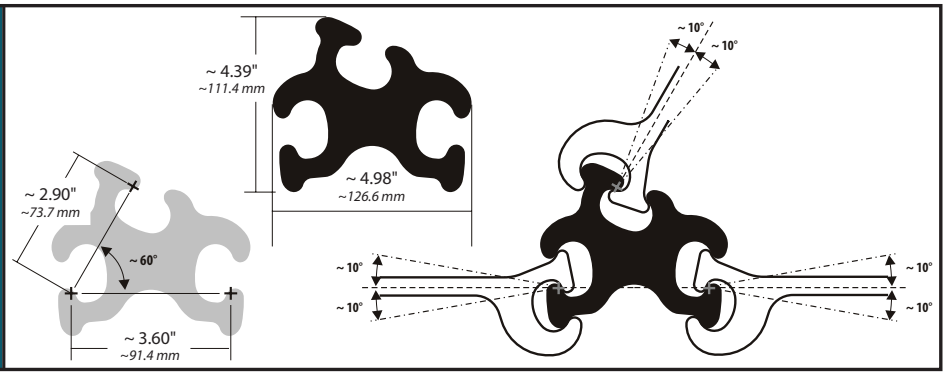
SWC 60 B

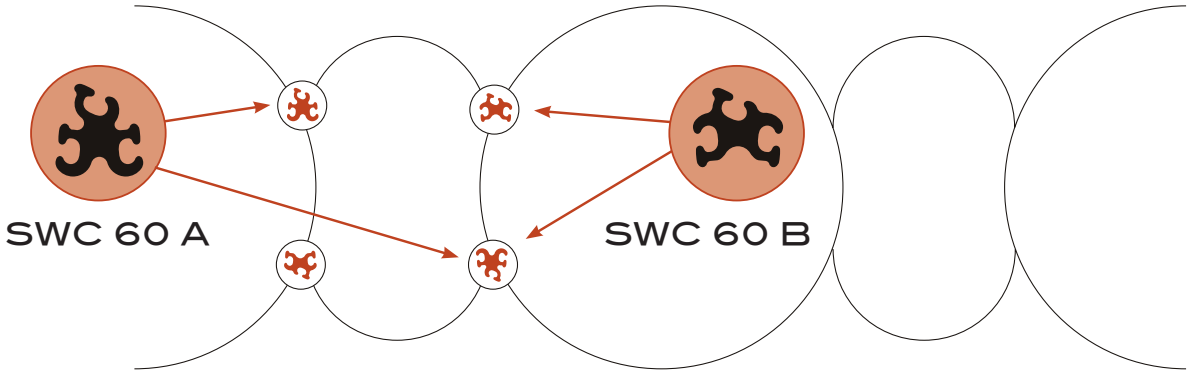
60° WYE PILE

WEIGHT
~ 33.46 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)





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HOT ROLLED PS FLAT WEB SHEET PILING

Specifications

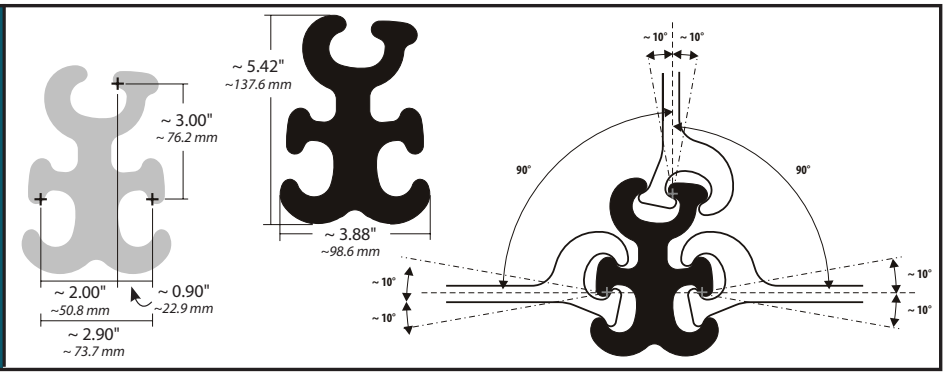
SWC 90 A

90° WYE PILE

WEIGHT
~ 35.82 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)



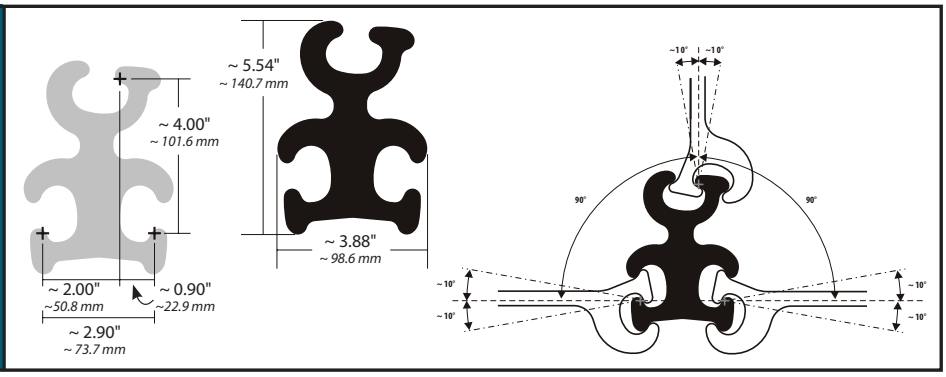
SWC 90 B

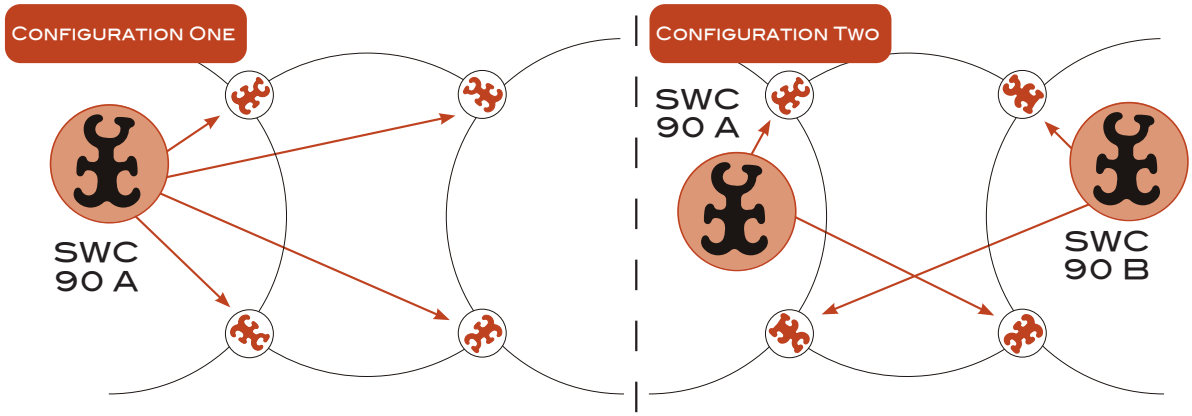
90° WYE PILE

WEIGHT
~ 35.82 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)





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HOT ROLLED PS FLAT WEB SHEET PILING

Specifications

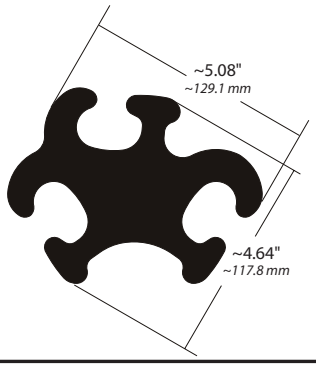
SWC 120

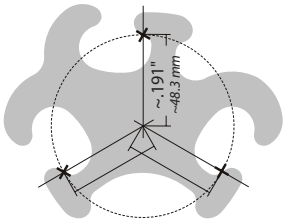
120° WYE PILE

WEIGHT
~ 38.29 lb/ft

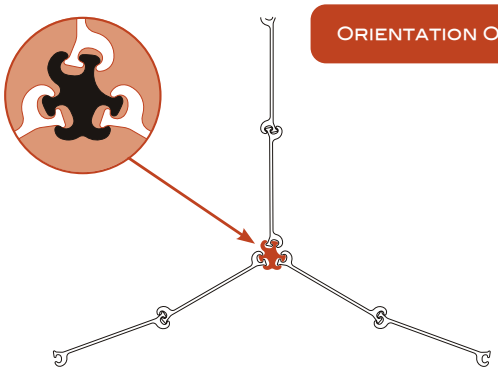
WORKS WITH
PS: 27.5, 31

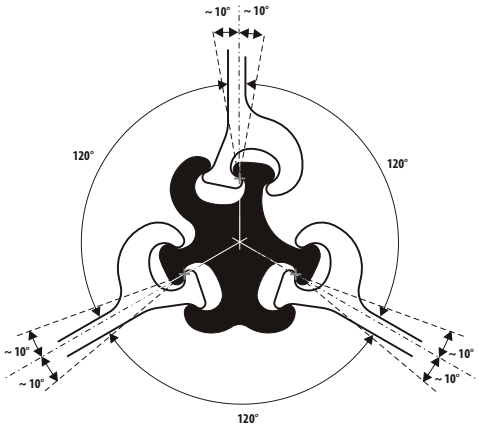
STEEL GRADE
ASTM Grade 50 (or better)



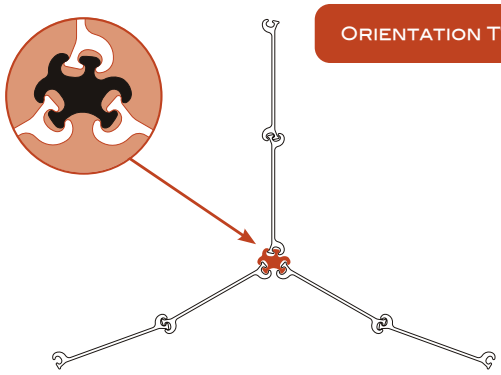


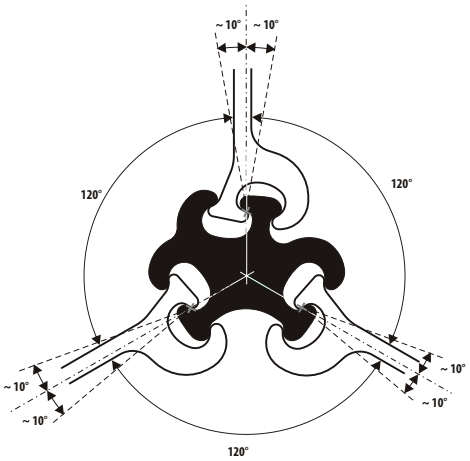
Orientation One





Orientation Two





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HOT ROLLED PS FLAT WEB SHEET PILING

Specifications

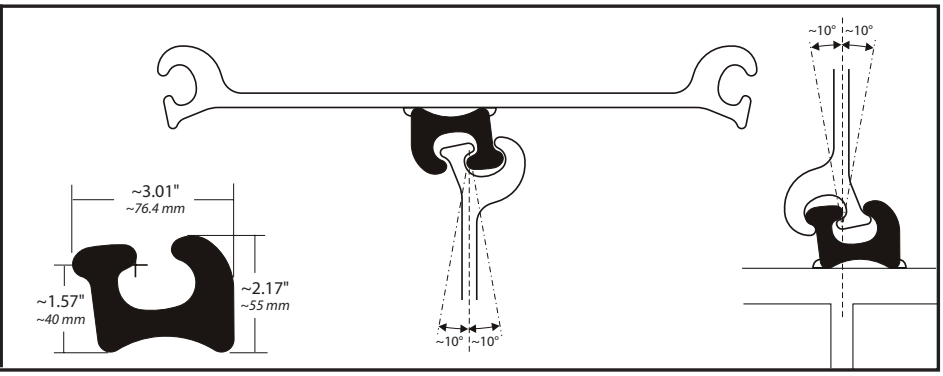
SWC

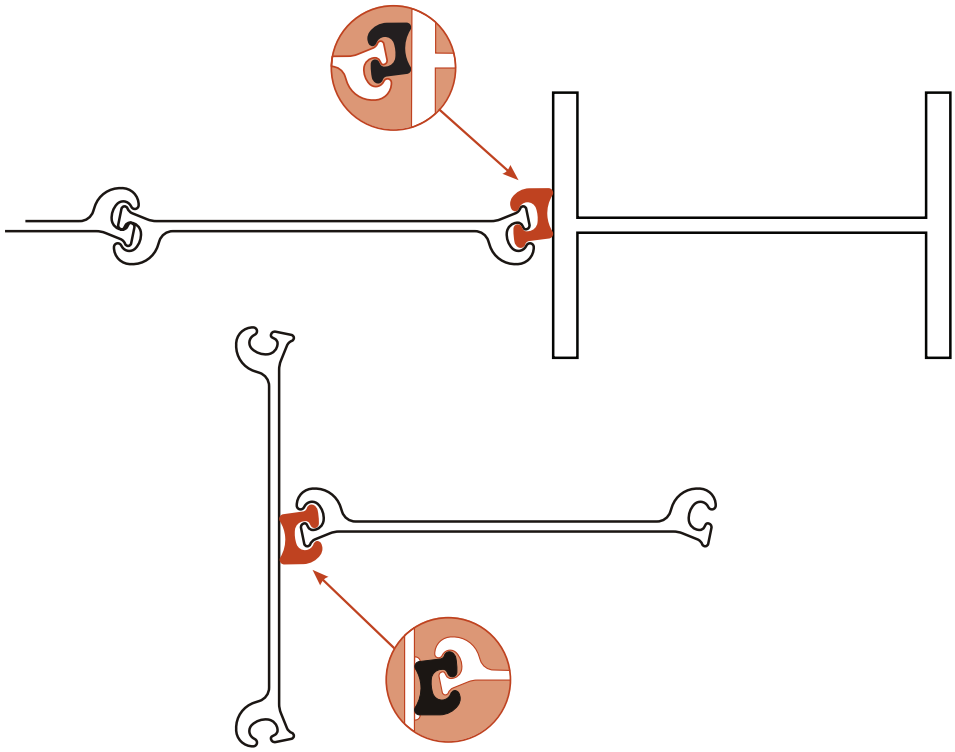
WELD-ON

WEIGHT
~ 12.34 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)





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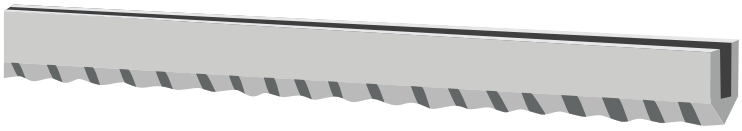
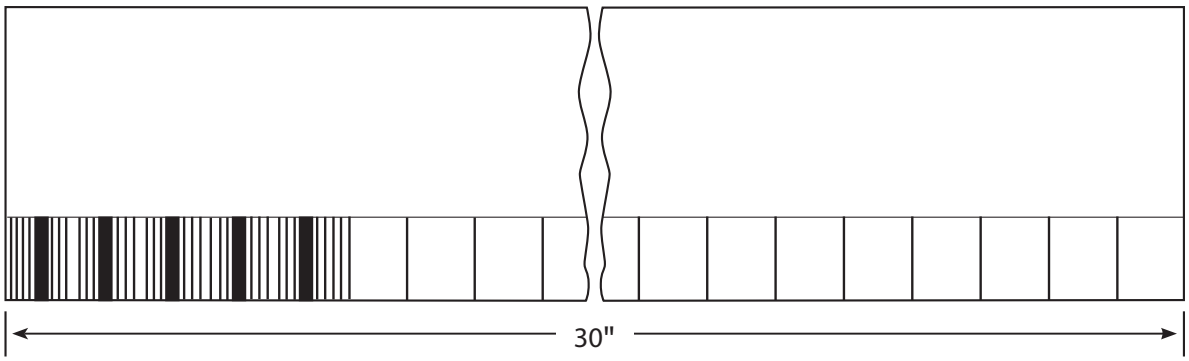
PS FLAT WEB SHEET PILING PROTECTORS
Specifications

PS SHEET PILE PROTECTOR

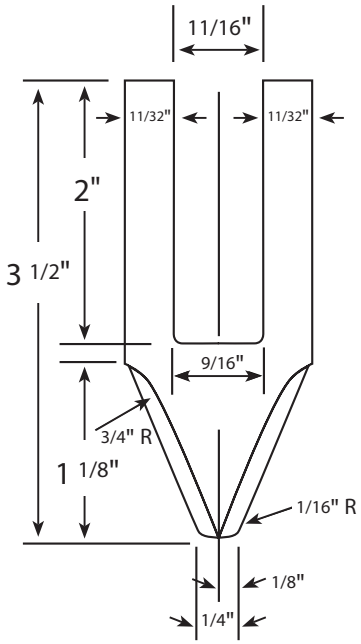


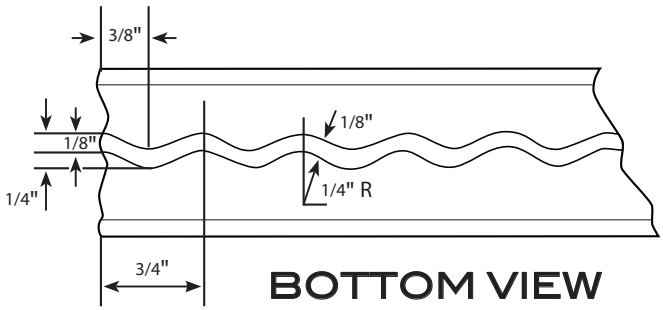
This sheet pile protector is available as a straight bar for fitting to any PS sheet pile section. It comes in 30-inch lengths for job site cutting and easy welding for full end protection.

SIDE VIEW



END VIEW





BOTTOM VIEW

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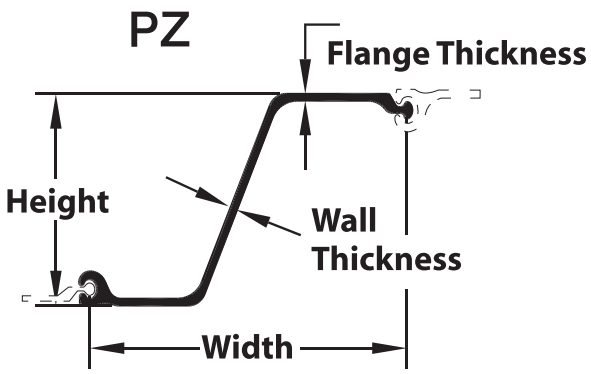
HOT ROLLED PZ SHEET PILING

Specifications



Sheet piling is unique product because it has a connection (or an "interlock") at both ends of the section. The interlocks connect together forming a continuous wall of sheeting. Sheet piling is classified in 2 applications: permanent and temporary.

In a permanent application, the sheet piling wall is driven into and remains in the ground. A temporary application provides access and safety for construction in a confined area. Once the work is completed, the sheet piling is removed.

SECTION SIZE	NOMINAL WIDTH in (mm)	HEIGHT in (mm)	FLANGE THICKNESS in (mm)	WEB THICKNESS in (mm)	AREA in²/ft (cm²/m)	WEIGHT PILE lb/ft (kg/m)	WEIGHT WALL lb/ft² (kg/m²)	SECTION MODULUS in³/ft (cm³/m)	MOMENT OF INERTIA in⁴/ft (cm⁴/m)	COATING AREA BOTH SIDES ft²/ft of single (m²/m)	COATING AREA WALL SURFACE ft²/ft² (m²/m²)
PZ 22	22.00 559	9.00 229	0.375 9.53	0.375 9.53	6.47 136.9	40.3 60.0	22.0 107.4	18.1 973	84.38 11,500	4.48 1.37	1.22 1.22
PZ 27	18.00 457	12.00 305	0.375 9.53	0.375 9.53	7.94 168.1	40.5 60.3	27.0 131.8	30.2 1,620	184.20 25,200	4.48 1.37	1.49 1.49
PZ 35	22.64 575	14.90 378.5	0.600 15.24	0.500 12.70	10.29 217.9	66.0 98.3	35.0 52.1	48.5 2,604.5	361.20 49,227.2	5.37 1.64	1.42 1.42
PZ 40	19.69 500	16.10 408.9	0.600 15.24	0.500 12.70	11.76 249.0	65.6 97.7	40.0 59.6	60.7 3,259.6	490.80 66,890.2	5.37 1.64	1.64 1.64

All dimensions given are nominal. Actual flange and web thicknesses vary due to mill rolling practices; however, permitted variations for such dimensions are not addressed.

* Both sides of the sheet; excludes socket and ball of interlock.

Z-PROFILES (PZC & PZ)

Z-profiles, with their optimum distribution of material, are the most efficient sheet piling sections available for bending strength. With the interlocks located on the outer fibers of the wall — rather than at the center line, as is the case with Arch or U-Profile sheet piling sections, the wall designer is assured of the published section modulus. The Z-Profile is optimal for both weight and strength.

THE INTERLOCK

The Ball-and-Socket Interlock was introduced in the USA in the late 1930's and continues to be the preferred interlock.

The Benefits:

- ☑ Most rugged, durable and flexible interlock available
- ☑ Highest interlock strength relative to other Z-Profiles
- ☑ Ideal for reuse in multiple projects
- ☑ Easier for setting, driving, and extraction
- ☑ Higher "buy back/ resale" value
- ☑ Flexibility when setting — allows adjustment to wall length by swinging (rotating sheets)

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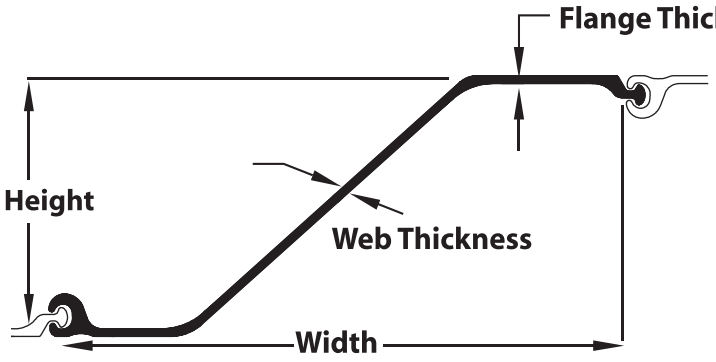
HOT ROLLED PZC SHEET PILING

Specifications

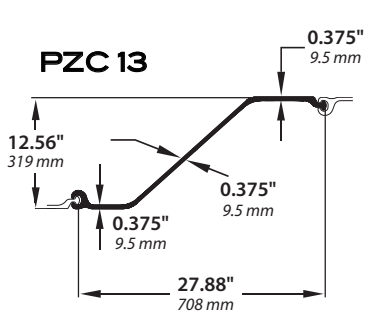


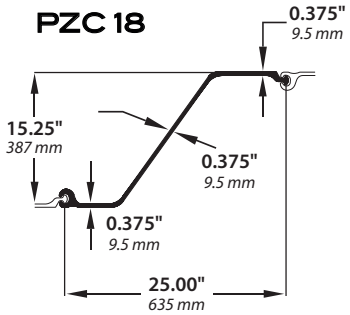
PZC sections are the "latest generation" of sheet piling profiles, and were developed to be lighter, wider, and stronger than the older traditional PZ sections. PZC profiles should always be the designer's first choice in order to provide the end user the most efficient retention wall with the most efficient ratio of section modulus to weight.

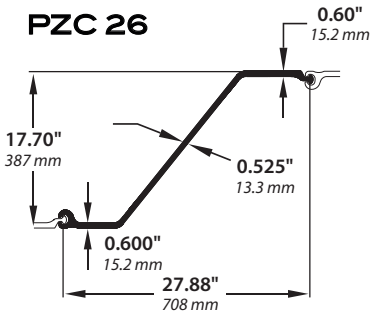
SECTION SIZE		PER SINGLE SECTION										PER UNIT OF WALL			
		NOMINAL WIDTH	WALL DEPTH (HEIGHT)	WEB THICKNESS	FLANGE THICKNESS	AREA	WEIGHT	MOMENT OF INERTIA	SECTION MODULUS	TOTAL SURFACE AREA	NOMINAL COATING AREA*	AREA	WEIGHT	MOMENT OF INERTIA	SECTION MODULUS
		in *(mm)*	in *(mm)*	in *(mm)*	in *(mm)*	in^2 (cm^2)	lb/ft (kg/m)	in^4 (cm^4)	in^3 (cm^3)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in^2/ft (cm^2/m)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	in^3/ft (cm^3/m)
	PZC 13	27.88 *708*	12.56 *319*	0.375 *9.5*	0.375 *9.5*	14.82 *95.6*	50.4 *75.1*	353.0 *14,690*	56.2 *920*	6.10 *1.86*	5.60 *1.71*	6.38 *135.1*	21.7 *106.0*	152.0 *20,760*	24.2 *1,300*
	PZC 14	27.88 *708*	12.60 *320*	0.420 *10.7*	0.420 *10.7*	16.15 *104.2*	55.0 *81.8*	381.6 *15,890*	60.5 *990*	6.10 *1.86*	5.60 *1.71*	6.95 *147.2*	23.7 *115.5*	164.3 *22,440*	26.0 *1,400*
	PZC 18	25.00 *635*	15.25 *387*	0.375 *9.5*	0.375 *9.5*	14.82 *95.6*	50.4 *75.1*	532.2 *22,150*	69.8 *1,145*	6.10 *1.86*	5.60 *1.71*	7.12 *150.6*	24.2 *118.2*	255.5 *34,890*	33.5 *1,800*
	PZC 19	25.00 *635*	15.30 *388*	0.420 *10.7*	0.420 *10.7*	16.16 *104.2*	55.0 *81.8*	576.3 *23,990*	75.3 *1,235*	6.10 *1.86*	5.60 *1.71*	7.75 *164.1*	26.4 *128.8*	276.6 *37,780*	36.1 *1,945*
	PZC 25	27.88 *708*	17.66 *449*	0.485 *12.3*	0.560 *14.2*	20.40 *131.6*	69.4 *103.3*	938.7 *39,070*	106.3 *1,740*	6.65 *203*	6.15 *1.87*	8.78 *185.9*	29.9 *145.9*	404.1 *55,190*	45.7 *2,455*
	PZC 26	27.88 *708*	17.70 *450*	0.525 *13.3*	0.600 *15.2*	21.72 *140.1*	73.9 *110.0*	994.3 *41,390*	112.4 *1,840*	6.65 *2.03*	6.15 *1.87*	9.35 *197.9*	31.8 *155.4*	428.1 *58,460*	48.4 *2,600*
	PZC 28	27.88 *708*	17.75 *451*	0.570 *14.5*	0.645 *16.4*	23.22 *149.8*	79.0 *117.6*	1,057 *44,000*	119.1 *1,950*	6.65 *203*	6.15 *1.87*	10.00 *211.6*	34.0 *166.1*	455.1 *62,150*	51.3 *2,755*

All dimensions given are nominal. Actual flange and web thicknesses vary due to mill rolling practices; however, permitted variations for such dimensions are not addressed.

* Both sides of the sheet; excludes socket and ball of interlock.







NOTE: Higher section modulus profiles are under development.

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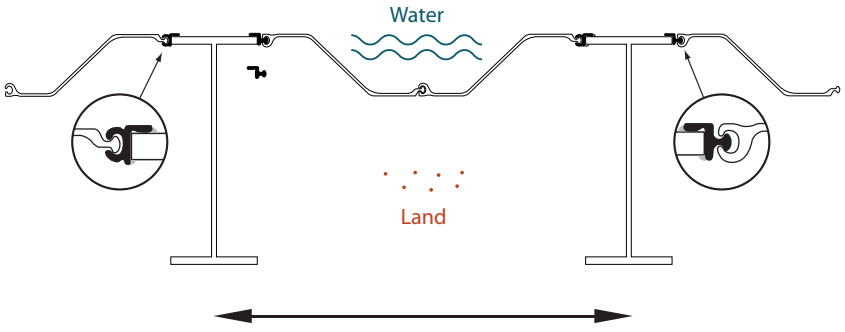
HOT ROLLED PZC SHEET PILING
Specifications

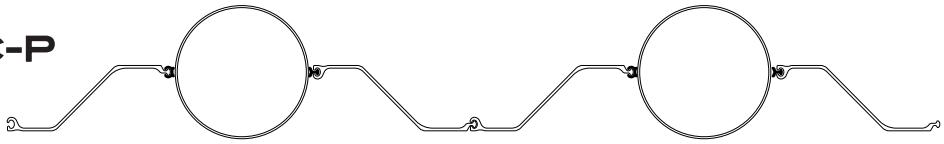
PZC HIGH SECTION MODULUS SYSTEMS

PZC High Section Modulus systems are combinations of beams (PZC-B) or pipe (PZC-P) with PZC sheet piling designed to achieve higher section modulus requirements. The main load-carrying elements are the beams or pipe. The intermediate sheet piling, along with extruded connectors, serves to close the face of the wall.

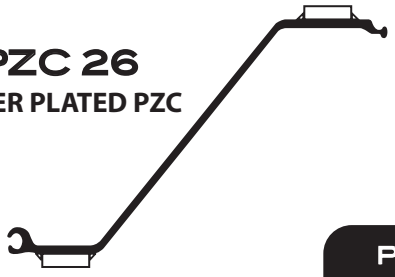
PZC-B



PZC-P



PZC 26
COVER PLATED PZC



COVER PLATED PZC 26
TO OBTAIN HIGHER SECTION MODULII

SECTION SIZE		PER SINGLE SECTION						PER UNIT OF WALL			
		NOMINAL WIDTH in (mm)	PLATE SIZE in (mm)	AREA in² (mm²)	WEIGHT lb/ft (kg/m)	TOTAL SURFACE AREA ft²/ lin. ft (m²/m)	NOMINAL COATING AREA* ft²/ lin. ft (m²/m)	PLATE FULL LENGTH lb/ft² (kg/m²)	PLATE HALF LENGTH lb/ft² (kg/m²)	MOMENT OF INERTIA in⁴/ lin. ft (cm⁴/m)	SECTION MODULUS in³/ft (cm³/m)
PZC 37-CP (PZC 26)		27.88 *708*	3.5 x 0.9375 *89x24*	28.28 *182.5*	96.2 *143.1*	6.96 *2.12*	6.46 *1.97*	41.4 *202.2*	36.6 *178.7*	673.3 *91,900*	68.8 *3,700*
PZC 39-CP (PZC 26)		27.88 *708*	3.5 x 1.125 *89x29*	29.60 *190.6*	100.6 *149.7*	7.03 *2.14*	6.53 *1.99*	43.3 *211.6*	37.6 *183.4*	728.3 *99,500*	73.0 *3,930*
PZC 41-CP (PZC 26)		27.88 *708*	3.5 x 1.25 *89x32*	30.47 *196.6*	103.6 *154.2*	7.07 *2.15*	6.57 *2.00*	44.6 *217.8*	38.2 *186.6*	766.1 *104,600*	75.8 *4,080*

All dimensions given are nominal. Actual flange and web thicknesses vary due to mill rolling practices; however, permitted variations for such dimensions are not addressed.

* Both sides of the sheet; excludes socket and ball of interlock.

NOTE: Best economy is obtained when plate length is limited to area of high moment.
Cover plate length depends upon moment curve.
Filet weld should be sized to adequately resist design loads. Weld requirements should be specified by design engineer.

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PZ/PZC CONNECTORS

Specifications

Corner & Junction Piles

COLT

CORNER
For 45° corners (+/- 40°)

WEIGHT
~ 6.84 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

PZ 90

CORNER
For 90° corners (+/- 40°)

WEIGHT
~ 7.36 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

COBRA

CORNER
For 135° corners (+/- 40°)

WEIGHT
~ 7.44 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

PZ TEE

CORNER
For T-corners (+/- 40°), 90° corners (+/- 40°)

WEIGHT
~ 8.99 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

PZT-S

CORNER
For T-corners (+/- 40°), 90°corners (+/- 40°)

WEIGHT
~9.66 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

JOKER

CORNER
For T-corners (+/- 40°), 90° corners (+/- 40°)

WEIGHT
~ 10.86 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

BULLHEAD

CORNER
For T-corners (+/- 40°), 90° corners (+/- 40°)

WEIGHT
~9.72lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

Combined Sheet Piles

BBS-M/BBS-F

For combined walls with wide flange beams

WEIGHT
~ 6.50 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

WOM/WOF

For combined walls with pipe piling

WEIGHT
~ 7.58 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

WOM-XL/WOF-XL

For combined walls with pipe piling & sheet piling

WEIGHT
~ 9.00 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28, 37, 39, 41

Transition Piles

LBM/LBF

For PZ/PZC to AZ/ Larssen transitions

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PZ/PZC CONNECTORS

Specifications

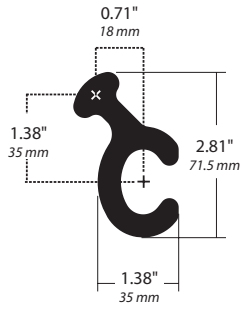
COLT

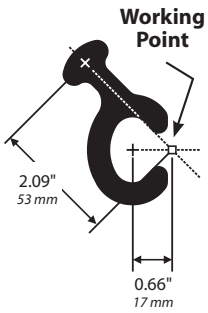
CORNER
~25° to ~65°

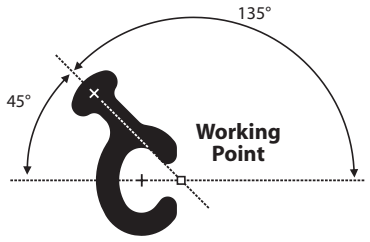
WEIGHT
~ 6.84 lb/ft

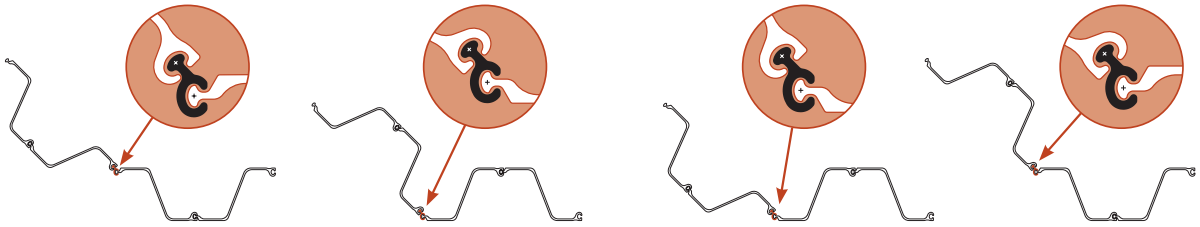
WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)









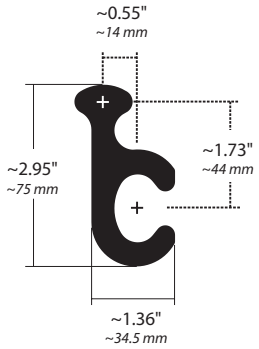
PZ 90

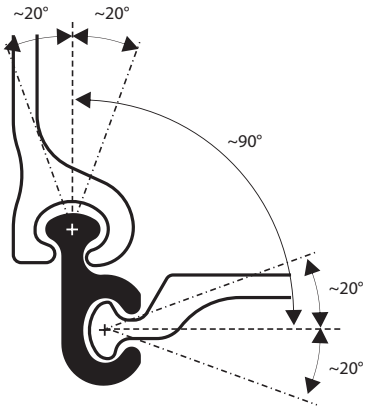
CORNER
~50° TO ~130°

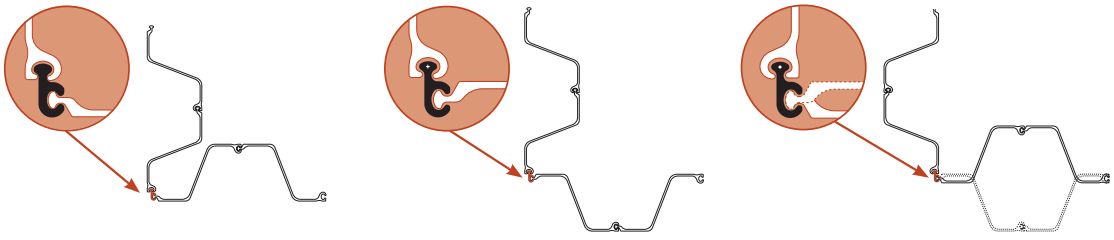
WEIGHT
~ 7.36 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)







All calculations and information should be double-checked by a qualified engineer.

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PZ/PZC CONNECTORS

Specifications

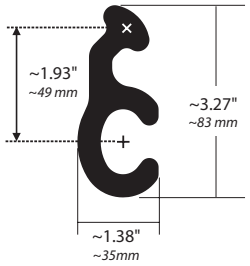
COBRA

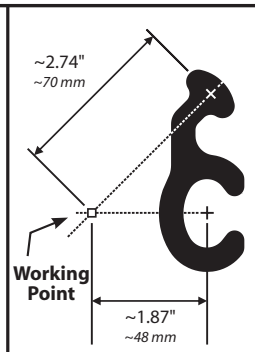
CORNER
~115° TO ~155°

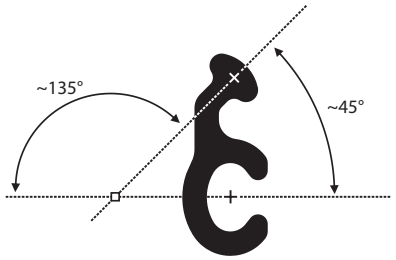
WEIGHT
~ 7.44 lb/ft

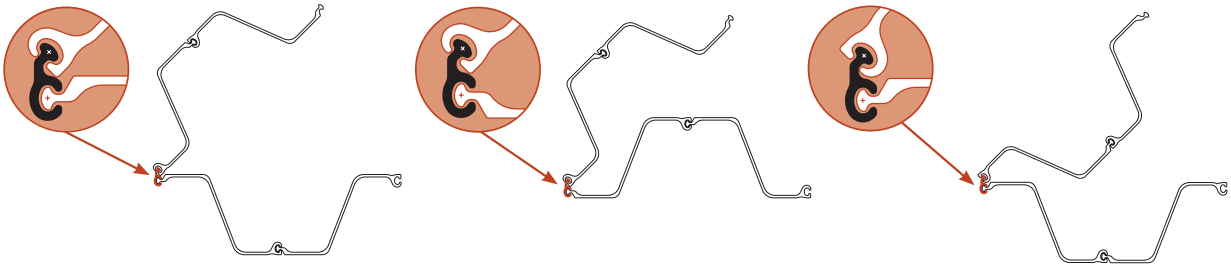
WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)









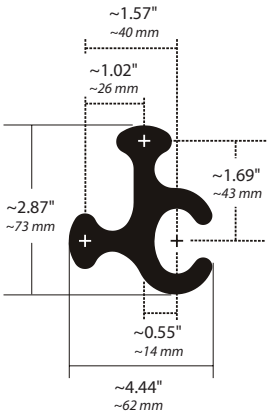
PZ TEE

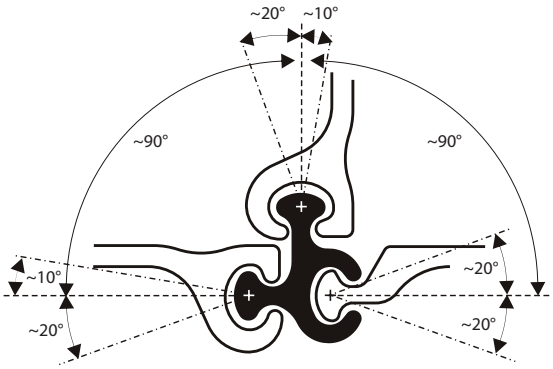
CORNER
~50° TO ~130°

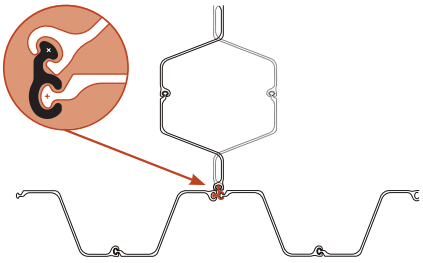
WEIGHT
~ 8.99 lb/ft

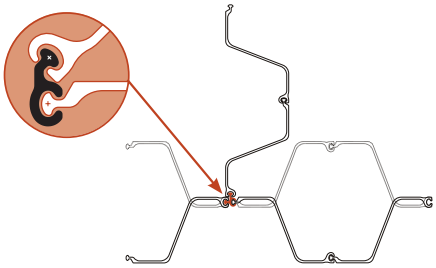
WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)









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PZ/PZC CONNECTORS

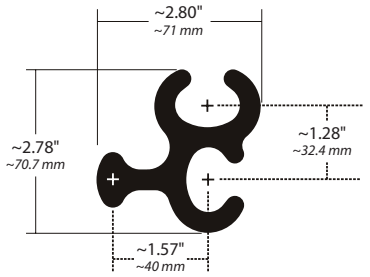
Specifications

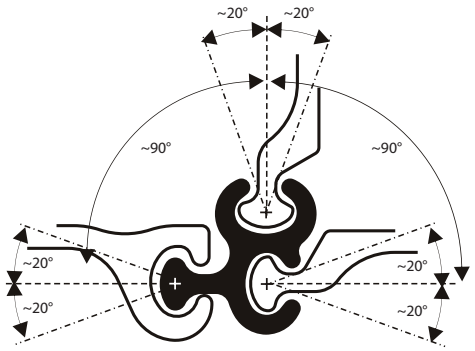
PZT-S

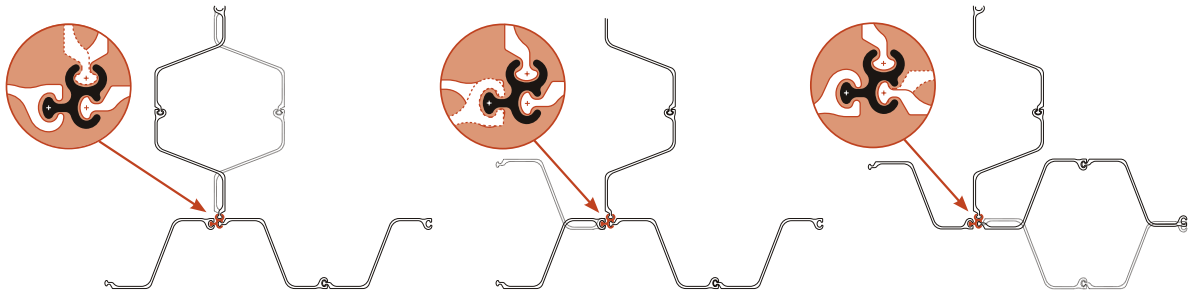
WEIGHT
~ 9.66 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)







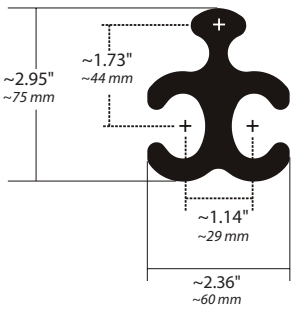
JOKER

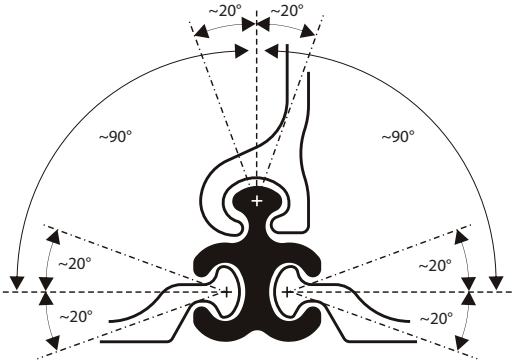
CORNER
~50° TO ~130°

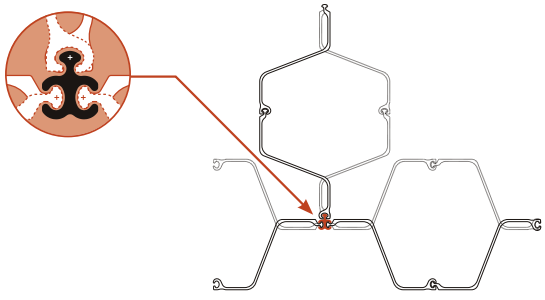
WEIGHT
~ 10.86 lb/ft

WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)







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PZ/PZC CONNECTORS

Specifications

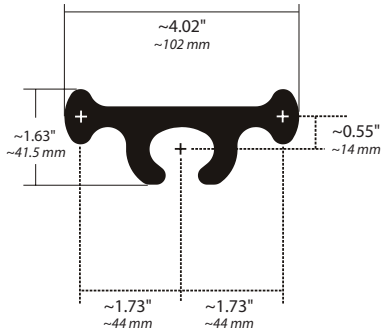
BULLHEAD

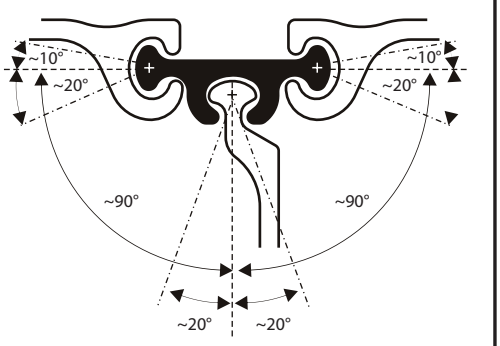
CORNER
~50° to ~130°

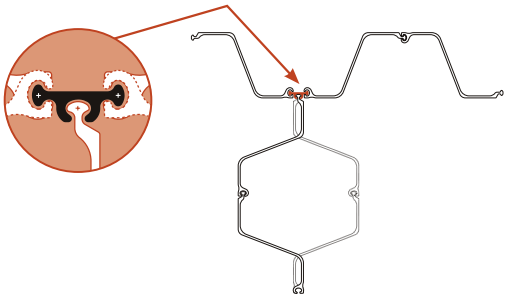
WEIGHT
~ 9.72 lb/ft

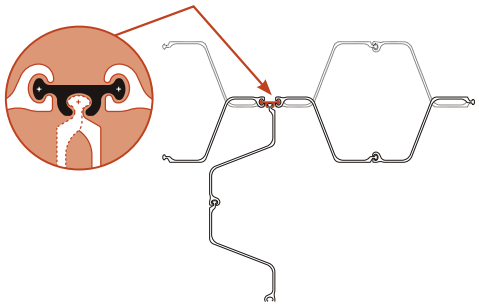
WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)









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PZ/PZC + PIPE CONNECTORS

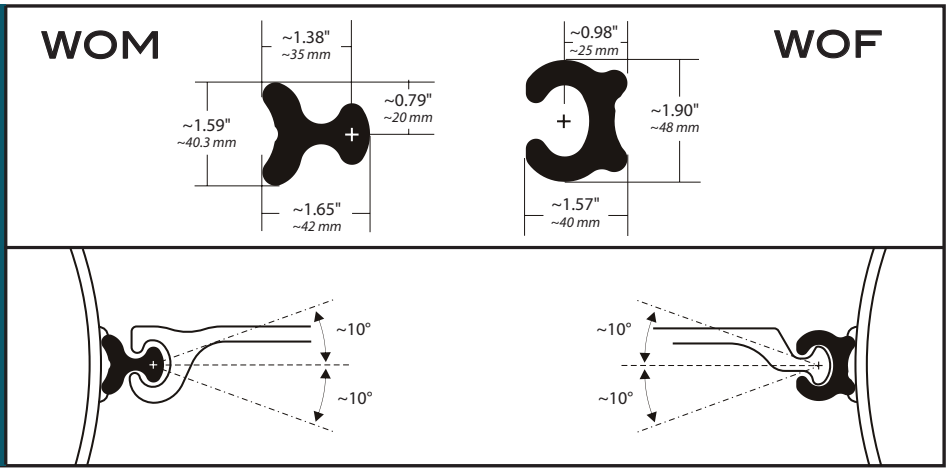
Specifications

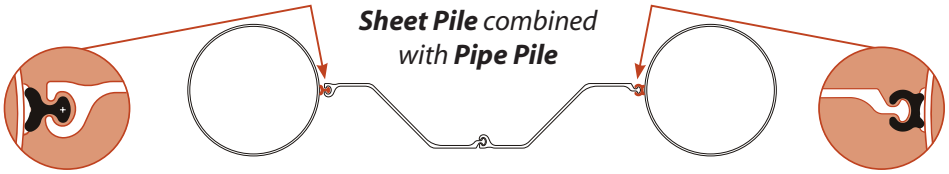
WOM/WOF

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)



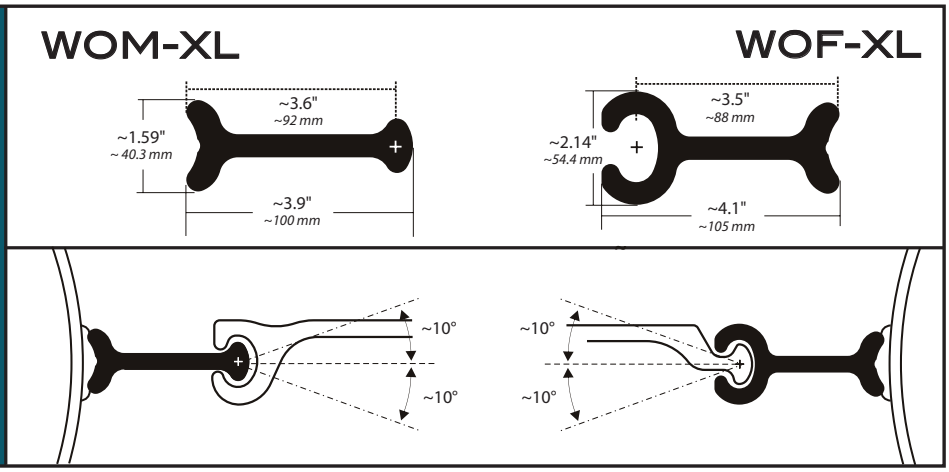


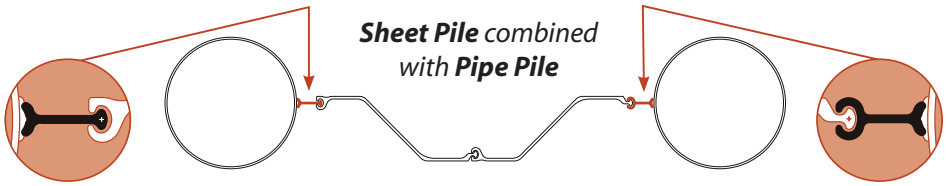
WOM-XL/WOF-XL

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)





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PZ/PZC + BEAM CONNECTORS

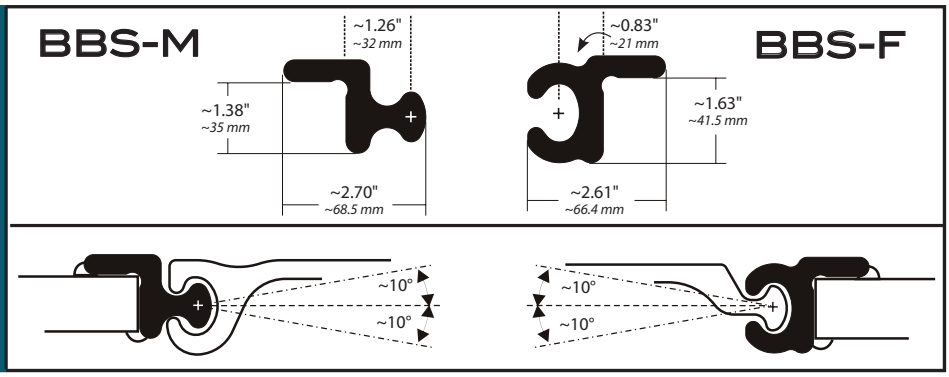
Specifications

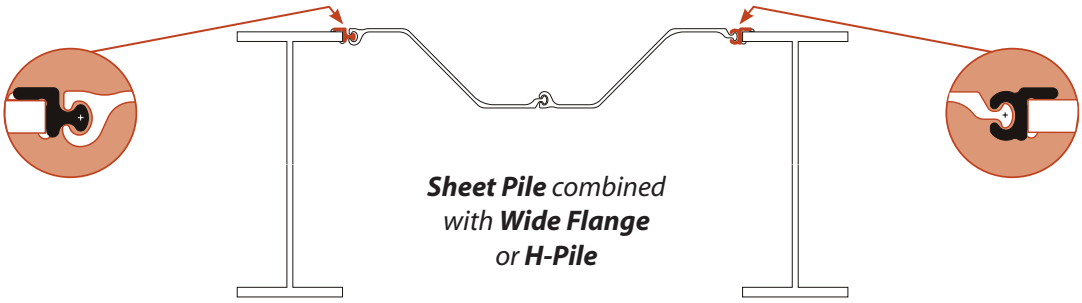
BBS-M/BBS-F

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)





Sheet Pile *combined with* ***Wide Flange*** *or* ***H-Pile***

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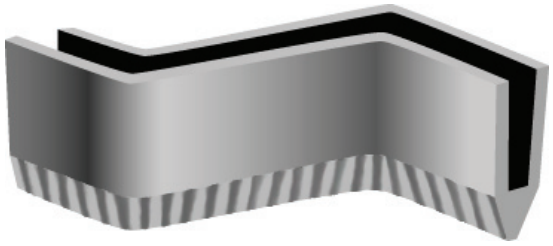
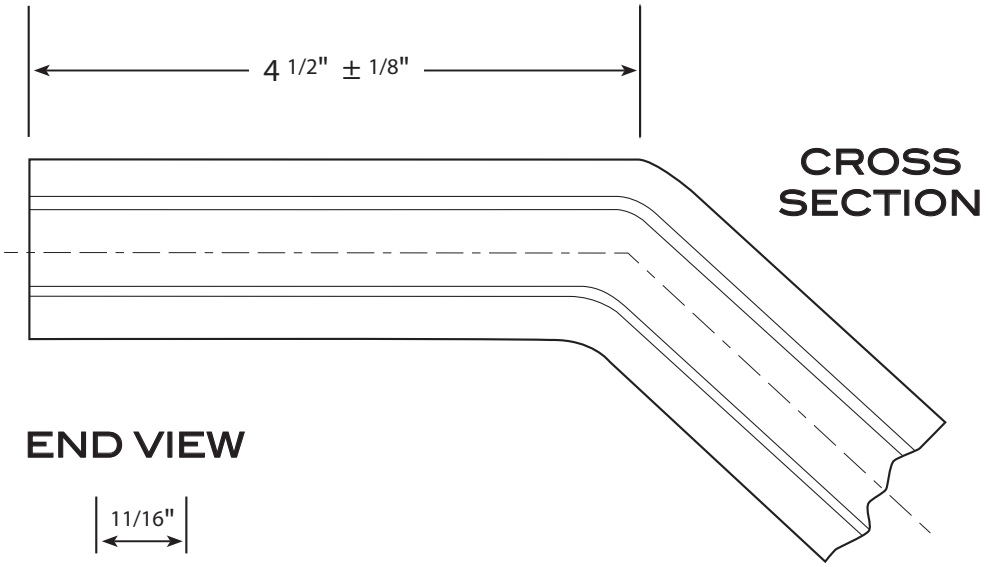
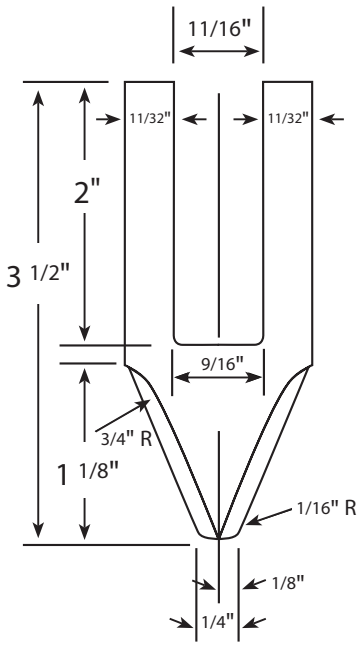
SHEET PILING PROTECTORS
Specifications

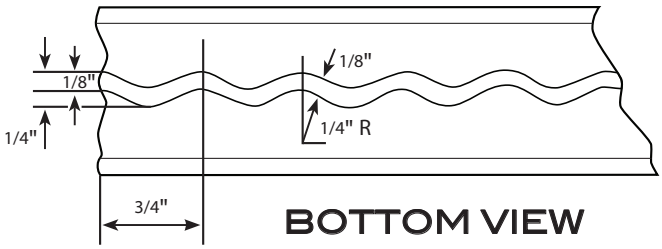


PZC/PZ SHEET PILE PROTECTOR

The sheet protector shoe is available as a one-piece attachment for the popular Z sheet pile sections. It fits exactly-no cutting, no small pieces, no delays. Just tack weld to sheet piles and drive.







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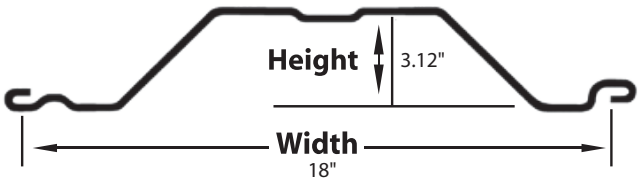
COLD ROLLED SHEET PILING

Specifications

ASTM A-857, GR.33 & GR.36
OR A-525
BARE OR GALVANIZED

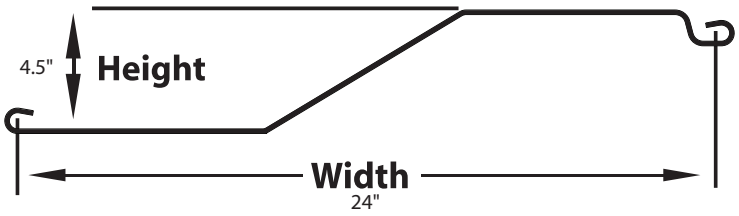


LIGHTWEIGHT

CENTRAL SECTION Gauge	NOMINAL HEIGHT in (mm)	NOMINAL WIDTH in (mm)	NOMINAL THICKNESS in	WEIGHT (SQ. FT.) lb/sq ft	WEIGHT (LIN. FT.) lb/lin ft	SECTION MODULUS in³ (ft. wall)	MOMENT OF INERTIA in⁴ (ft. wall)	COATING AREA sq ft/lin ft
10-10	3.12	18	.134	7.2	10.8	2.2	3.5	3.7
8-8	3.12	18	.164	8.8	13.2	2.62	4.2	3.7
7-7	3.12	18	.179	9.6	14.4	2.8	4.4	3.7
6-6	3.12	18	.194	10.5	15.8	3.0	4.9	3.7
5-5	3.12	18	.209	11.3	16.9	3.4	5.4	3.7

BENT CORNERS ☑ E Type ☑ F Type ○ G Type ○ H Type ○ Outside/Inside Simple ○ Outside/Inside Complicated

ASTM A-328 OR A-572
GRADE 50



LIGHTWEIGHT ZEE

SECTION TYPE	NOMINAL HEIGHT in	NOMINAL WIDTH in	NOMINAL THICKNESS in	WEIGHT (SQ. FT.) lb/sq ft	WEIGHT (LIN. FT.) lb/lin ft	SECTION MODULUS in³ (ft. wall)	MOMENT OF INERTIA in⁴ (ft. wall) PER PILE	MOMENT OF INERTIA in⁴ (ft. wall) PER FT OF PILE	COATING AREA sq ft/lin ft
LZ-8	4.5	24	.164	8.3	16.6	3.6	16.8	8.1	4.75
LZ-7	4.5	24	.179	9.1	18.2	3.9	18.4	8.9	4.75
LZ-5	4.5	24	.209	10.6	21.2	4.6	21.5	10.4	4.75
LZ-3	4.5	24	.239	12.3	24.6	5.2	24.5	11.8	4.75
LZ-250	4.5	24	.250	12.8	25.6	5.4	25.7	12.4	4.75

BENT CORNERS ○ E Type ○ F Type ☑ G Type ☑ H Type ☑ Outside/Inside Simple ☑ Outside/Inside Complicated

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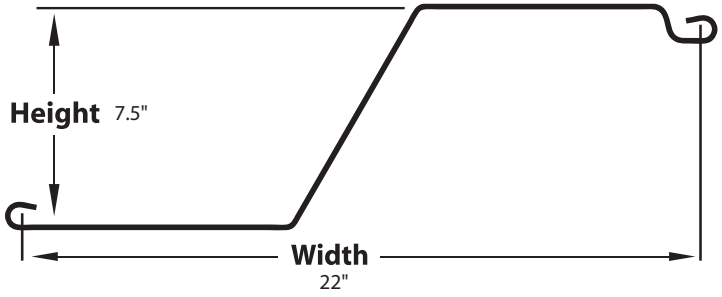
COLD ROLLED SHEET PILING

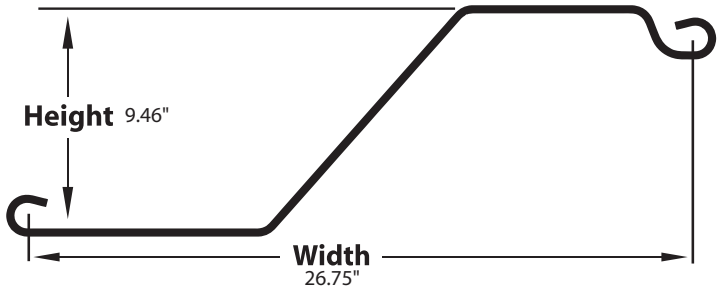
Specifications



INTERMEDIATE LIGHTWEIGHT

SECTION TYPE	NOMINAL HEIGHT	NOMINAL WIDTH	NOMINAL THICKNESS	WEIGHT (SQ. FT.)	WEIGHT (LIN. FT.)	SECTION MODULUS	MOMENT OF INERTIA		COATING AREA
	in	in	in	lb/sq ft	lb/lin ft	in^3 (ft. wall)	in^4 (ft. wall) PER PILE	in^4 (ft. wall) PER FT OF PILE	sq ft/lin ft
SZ-10	7.5	22	.164	9.4	16.6	7.3	50.3	27.4	4.75
SZ-11	7.5	22	.179	10.3	18.2	7.9	54.7	29.8	4.75
SZ-12	7.5	22	.209	12.0	21.2	9.2	63.9	34.8	4.75
SZ-14	7.5	22	.239	13.5	24.4	10.4	73.1	39.9	4.75
SZ-15	7.5	22	.250	14.0	25.5	10.9	76.4	41.7	4.75

BENT CORNERS ● E Type ● F Type ● G Type ● H Type ✓ Outside/Inside Simple ✓ Outside/Inside Complicated



INTERMEDIATE HEAVYWEIGHT

SECTION TYPE	NOMINAL HEIGHT	NOMINAL WIDTH	NOMINAL THICKNESS	WEIGHT (SQ. FT.)	WEIGHT (LIN. FT.)	SECTION MODULUS	MOMENT OF INERTIA		COATING AREA
	in	in	in	lb/sq ft	lb/lin ft	in^3 (ft. wall)	in^4 (ft. wall) PER PILE	in^4 (ft. wall) PER FT OF PILE	sq ft/lin ft
SZ-14.5	9.46	26.75	.250	14.5	32.4	13.0	136.9	61.49	5.75
SZ-14.5RU	9.46	26.75	.270	15.7	35.1	14.0	147.8	66.40	5.75
SZ-18	9.46	26.75	.312	18.1	40.4	16.2	171.1	76.83	5.75
SZ-20	9.46	26.75	.340	19.8	44.1	17.5	185.6	83.37	5.75
SZ-21	9.46	26.75	.350	20.3	45.3	18.1	191.5	86.00	5.75
SZ-22	9.46	26.75	.375	21.8	48.6	19.3	204.6	91.92	5.75

BENT CORNERS ● E Type ● F Type ● G Type ● H Type ✓ Outside/Inside Simple ✓ Outside/Inside Complicated

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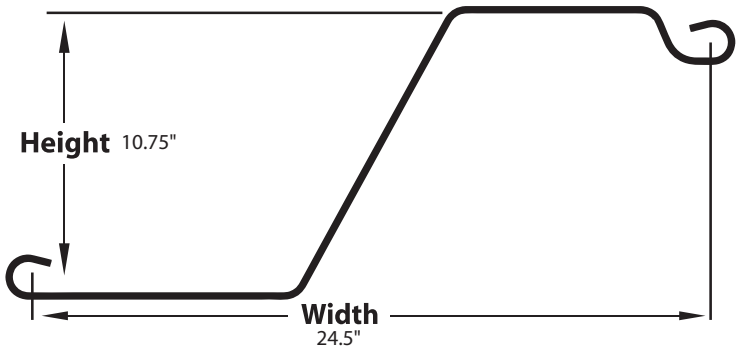
COLD ROLLED SHEET PILING

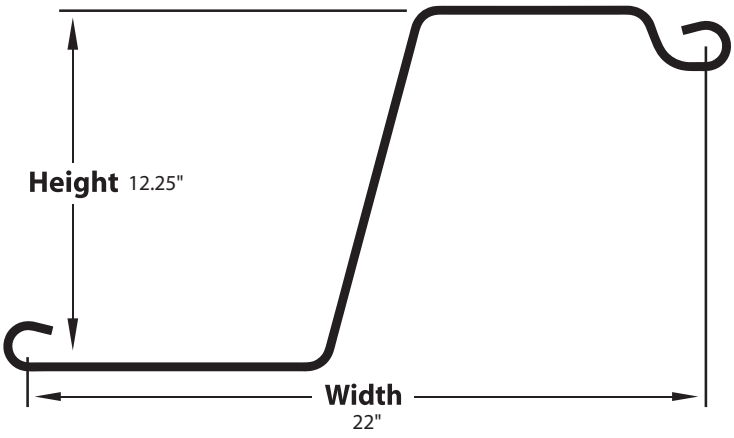
Specifications



MID-HEAVY

SECTION TYPE	NOMINAL HEIGHT	NOMINAL WIDTH	NOMINAL THICKNESS	WEIGHT (SQ. FT.)	WEIGHT (LIN. FT.)	SECTION MODULUS	MOMENT OF INERTIA		COATING AREA
	in	in	in	lb/sq ft	lb/lin ft	in³ (ft. wall)	in⁴ (ft. wall) PER PILE	in⁴ (ft. wall) PER FT OF PILE	sq ft/lin ft
SZ-250	10.75	24.5	.250	15.9	32.4	16.6	182.2	89.42	5.75
SZ-313	10.75	24.5	.312	19.9	40.4	20.6	227.3	111.53	5.75
SZ-340	10.75	24.5	.340	21.5	44.1	22.4	247.5	121.45	5.75
SZ-350	10.75	24.5	.350	22.1	45.3	22.9	254.0	124.62	5.75
SZ-375	10.75	24.5	.375	23.5	48.6	24.5	272.2	133.55	5.75

BENT CORNERS ○ E Type ○ F Type ○ G Type ○ H Type ✓ Outside Simple ✓ Outside Complicated

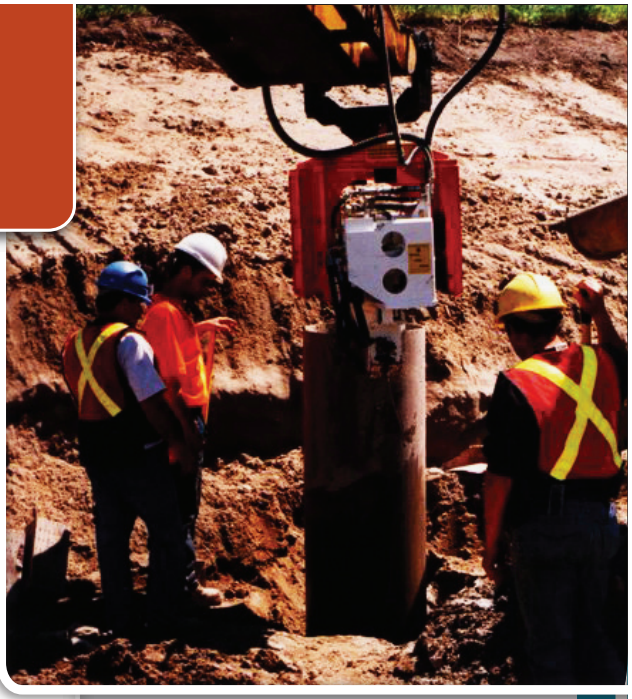


HEAVYWEIGHT

SECTION TYPE	NOMINAL HEIGHT	NOMINAL WIDTH	NOMINAL THICKNESS	WEIGHT (SQ. FT.)	WEIGHT (LIN. FT.)	SECTION MODULUS	MOMENT OF INERTIA		COATING AREA
	in	in	in	lb/sq ft	lb/lin ft	in³ (ft. wall)	in⁴ (ft. wall) PER PILE	in⁴ (ft. wall) PER FT OF PILE	sq ft/lin ft
SZ-222	12.25	22	.312	22.1	40.4	26.7	299.0	163.09	5.75
SZ-24	12.25	22	.340	24.1	44.1	29.0	325.5	177.52	5.75
SZ-25	12.25	22	.350	24.8	45.3	29.7	334.1	181.91	5.75
SZ-27	12.25	22	.375	26.6	48.6	32.0	358.0	195.18	5.75

BENT CORNERS ○ E Type ○ F Type ○ G Type ○ H Type ✓ Outside Simple ✓ Outside Complicated

Pipe Piling



Steel Pipe Piles are designed to transfer structural loads through the foundation to soils below. They range in diameter from less than 6 inches to over 8 feet which gives Pipe Piling the ability to fit a variety of project needs.

If additional length is desired, they can be easily spliced to create piles hundreds of feet in length.

Pipe can be driven open-ended or with plates. If driven with plates, the pipes can then be filled with concrete to create an extra strong pile. However, most often the additional money spent on plates, rebar, and concrete could be better spent on a thicker Pipe Pile.

Pipe Piles are also used in conjunction with Sheet Piles to add lateral stiffness and bending resistance where loads exceed the capacity of sheet piles alone.

In this section of the catalog, you'll also find information on Pipe Piling accessories such as:

PIPE CONNECTORS

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

PIPE CUTTING SHOES

Cutting shoes are exceptionally tough heat-treated cast steel shoes with a ledge for driving rather than depending on welds in shear or hardened structural steel reinforcement.

An ***inside cutting shoe*** is needed when maximum friction surrounding the pile is desired. An ***outside cutting shoe*** is preferred when drilling past the tip is required.

PIPE POINTS

Pipe points push the soil aside and preserve friction. On boulders or uneven rock, the point distributes the shock load around the perimeter of the pipe rather than concentrating it on a quadrant - as occurs with plate closure.

PIPE SPLICERS

Driving into the tapered splicer compresses the pipe ends into a friction fit. No welding is required, speeding the job and minimizing the crew and equipment time.

This splicer is especially advantageous where head room is limited and short lengths of pipe must be used. Each addition can be driven right down to the ground line. If uplift capacity is necessary, the splicer can be made weld-fit and pre-attached to the lower length before lifting into the leads. Driving can then be done on the splicer. The next length of pipe is set into the splicer and quickly welded down hand.

WHEN TO USE PIPE OVER H-PILE?

Deep foundations are required when shallow soils are not strong enough to support the weight of a structure. Both H-Piles and Pipe Piles can be used in these types of applications.

H-Piles are typically classified as point bearing, which means they are most effective when transferring loads through the pile, point to tip (or building to bedrock.)

Pipe Piles are most efficient as friction piles, meaning they transfer some of the pressure put on them to the soil around them, through friction.

H-Piles rest on a layer of rock below the soil's surface, but depending on the environment and the make-up of the soil, this is not always present. Pipe Piles transfer the weight of the structure they support to the surrounding soil, which means they do not need the support of a bedrock layer.

For friction piles to be effective, the soil surrounding the area must be sufficiently uniform in type and density. If this not the case, occasionally contractors rely on a combination of H-Piles and Pipe Piling.

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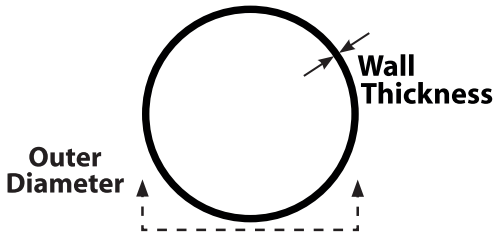
PIPE PILING
Specifications



Pipe Weight Calculation

LB/FT = (OD-WT) x WT x 10.69

OD = Outside Diameter ✦ WT = Wall Thickness

R.W. Conklin Steel has a vast inventory of Pipe Piling in all sizes and in all structural grades. Services such as welding and coating are offered as well to help customize your Pipe Piling needs.

Pipe Piling us designed to transfer structural loads throughout the foundation into the ground, providing superb frictional load resistance. Pipe Piling also coincide with the sheet piles to provide support and added bending resistance.

ERW PIPE PILING

OUTSIDE DIAMETER (IN.)	WALL THICKNESS (IN.)								
	lbs/ft	0.1880	0.219	0.2500	0.312	0.3750	0.438	0.5000	0.625	0.750
	8.625	16.96	19.68	22.38	27.73	33.07	38.33	43.43		
	10.75	21.23	24.65	28.06	34.81	41.59	48.28	54.79		
	12.75	25.25	29.34	33.41	41.48	49.61	57.65	65.48		
	14	27.76	32.26	36.75	45.65	54.62	63.50	72.16		
	16	31.78	36.95	42.09	52.32	62.64	72.86	82.85	102.72	
	18		41.63	47.44	58.99	70.65	82.23	93.54	116.09	
	20			52.78	65.66	78.67	91.59	104.23	129.45	
	24			63.47	79.01	94.71	110.32	125.61	156.17	186.41

DSAW PIPE PILING

OUTSIDE DIAMETER (IN.)	WALL THICKNESS (IN.)						
lbs/ft	0.3120	0.3750	0.5000	0.6250	0.7500	0.8751	1.000
24	79.01	94.71	125.61	156.17	186.41		
26	85.68	102.72	136.30	139.54	202.44		
28	92.35	110.74	146.99	182.90	218.48	253.72	
30	99.02	118.76	157.68	196.26	234.51	272.43	
32	105.69	126.78	168.37	209.62	250.55	291.14	
34	112.36	134.79	179.06	222.99	266.58	309.84	
36		142.81	189.75	236.35	282.62	328.55	
38		150.83	200.44	249.71	298.65	347.26	
40		158.85	211.13	263.07	314.69	365.97	
42		166.86	211.82	276.44	330.72	384.67	438.29
44		174.88	232.51	289.80	346.76	403.38	459.67
46		182.90	243.20	303.16	362.79	422.09	481.05
48		190.92	253.89	316.52	378.83	440.80	502.43

Other wall thicknesses available. Please contact us for more information.

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PZ/PZC + PIPE CONNECTORS

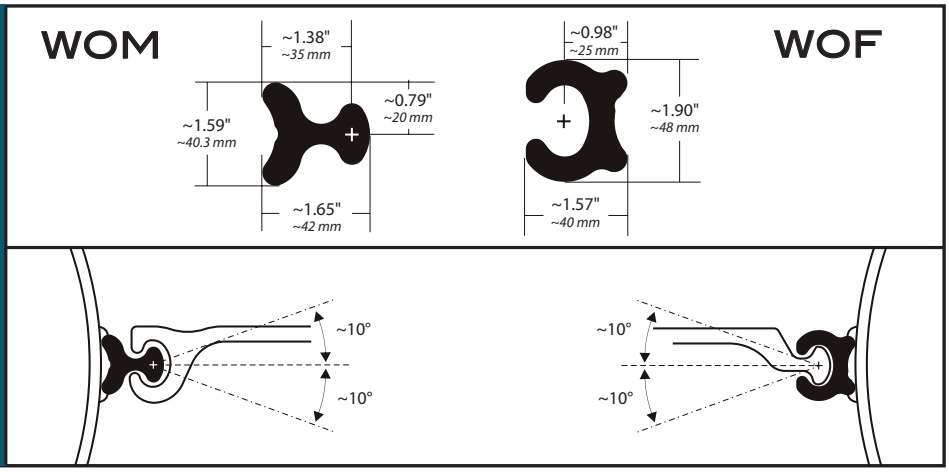
Specifications

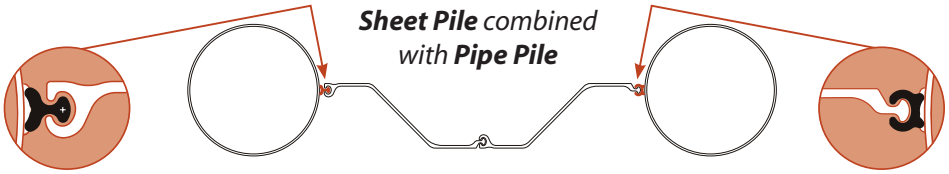
WOM/WOF

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)



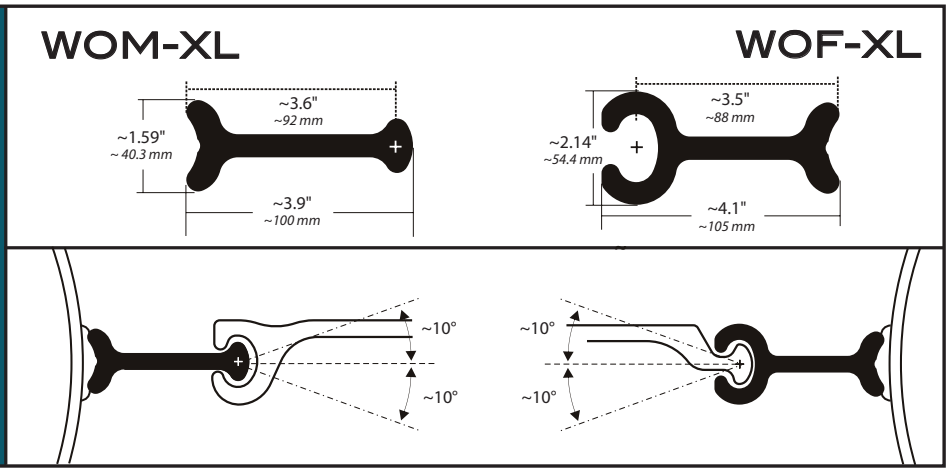


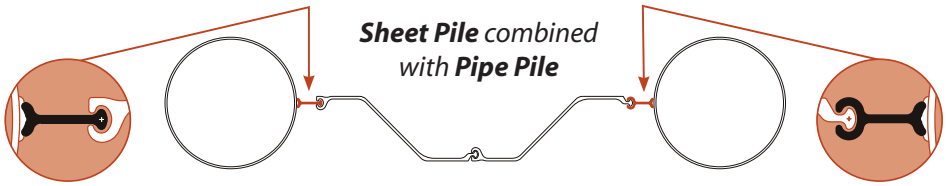
WOM-XL/WOF-XL

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)





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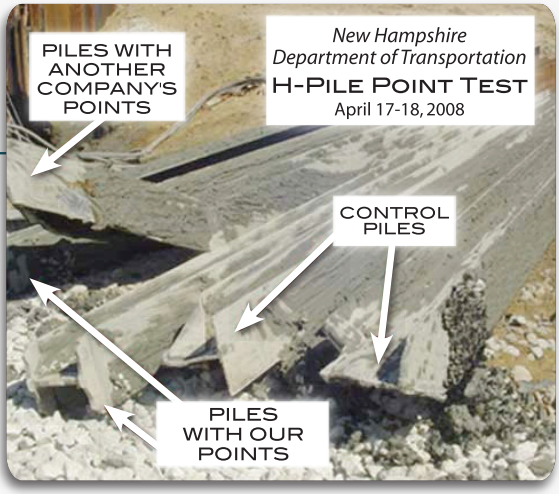
PIPE PILING POINTS
Specifications

A CASE STUDY: PILING POINTS



The New Hampshire Department of Transportation conducted a comprehensive H-pile point test in Rochester, NH on April 17-18, 2008. The test involved driving and pulling a total of fifteen 12" x 53" H-piles. There were three control piles driven without pile points, and twelve piles driven with four different H-pile points (three piles for each design). Our 12" Hard-Bite Model 77600-B-30 65/35 was used for this test. All the piles were driven utilizing a pile driving monitoring device.

When all three control piles were pulled, it showed they sustained significant damage, even though the monitoring device registered no damage to the piles while driving. Also, one H-pile with another company's piling point attached, resulted in total pile failure. However, all three piles with our pile points attached, completely protected the piles even under the most extreme driving stresses.

Over the past 50 years, APF H-pile points have been independently tested and also tested by various state and federal agencies proving their effectiveness to protect the pile while driving and provide a sound undamaged pile.

- Damage, which has occurred during pile driving, often cannot be detected from the surface.
- If you are driving H-piles, we have a point that can save you trouble, time, and money.
- Having no bad piles means avoiding re-designing and the costly interruption even one rejected pile can create. Protect the dependability of the installation, as well as the owner and contractor in controlling costs.

PILING POINTS: FILL A NEED

Piling Points are a good "Insurance Policy"

- Our rugged points will cut through difficult strata allowing deep seating of the pile.
- Pulling of test piles often leads to surprising evidence of unpredicted failures in unprotected piles and even those re-inforced by methods other than our steel points.
- Stresses permitted on steel have have increased and design loads have become heavier, it is more essential than ever that every pile reach bearing depth in good condition.

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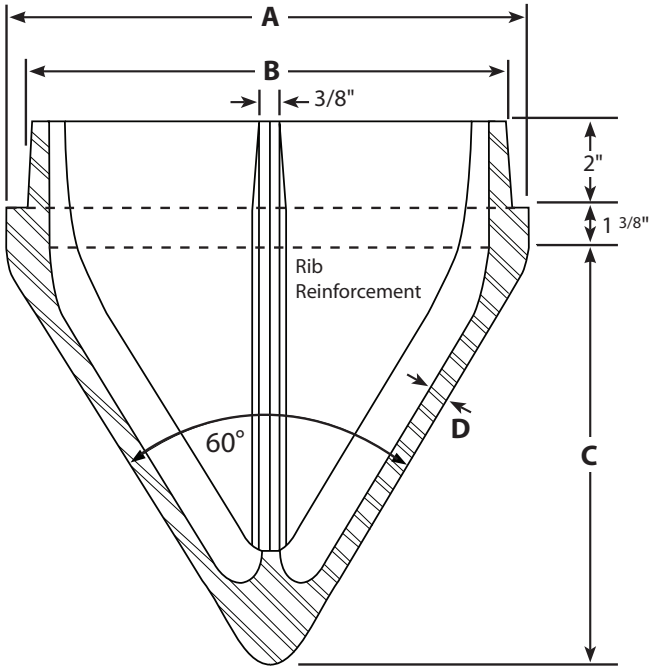
PIPE PILING POINTS
Specifications

CONICAL PILING POINT

P-13006
INSIDE FLANGE
Ribbed 60° Point

Conical points are used to help improve penetration and evenly distribute the load over the end of the pipe. A built-in weld prep makes point attachment easy and less time consuming.



PIPE OUTSIDE DIAMETER	A	B	C	D
8 5/8	8 3/4"	7 1/2"	7 1/8"	1/2"
9 5/8	9 3/4"	7 1/2"	7 1/8"	1/2"
10 3/4	10 7/8"	9 3/4"	9"	1/2"
12	12 1/8"	11"	10 3/8"	1/2"
12 3/4	12 7/8"	11 3/4"	10 3/4"	1/2"
13 3/8	13 1/2"	11 11/16"	11 3/8"	1/2"
14	14 1/8"	13"	11 13/16"	9/16"
16	16 1/8"	15"	13 1/2"	9/16"
18	18 1/8"	17"	15 1/4"	5/8"
20	20 1/8"	19"	17"	5/8"
22	22 1/8"	21"	18 7/8"	5/8"
24	24 1/8"	23"	20 3/8"	5/8"

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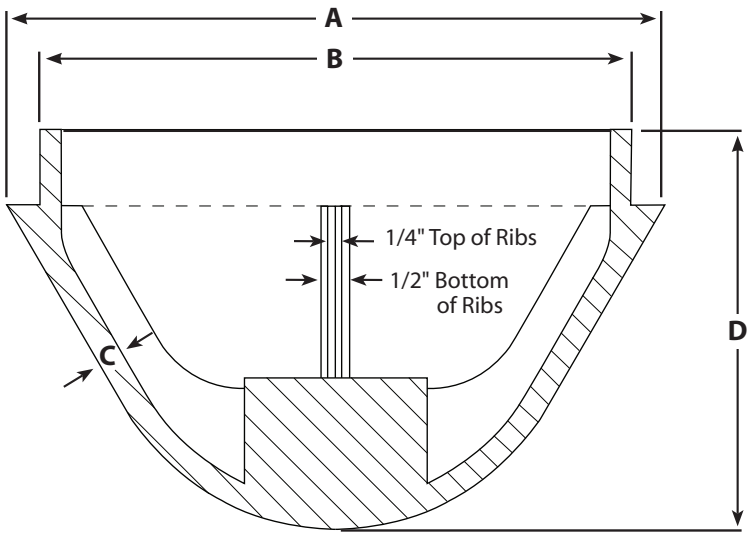

PIPE OUTSIDE DIAMETER	A	B	C	D
10 3/4	10 7/8"	9 7/16"	1/2"	6 1/2"
12	12 1/8"	10 7/8"	1/2"	7 1/2"
12 3/4	12 7/8"	11 5/8"	1/2"	6 1/2"
13 3/8	13 1/2"	11 11/16"	1/2"	6 1/2"
14	14 1/8"	13"	1/2"	6 1/2"
16	16"	14 3/4"	1/2"	6 1/2"
18	18 1/8"	17"	1/2"	6 1/2"

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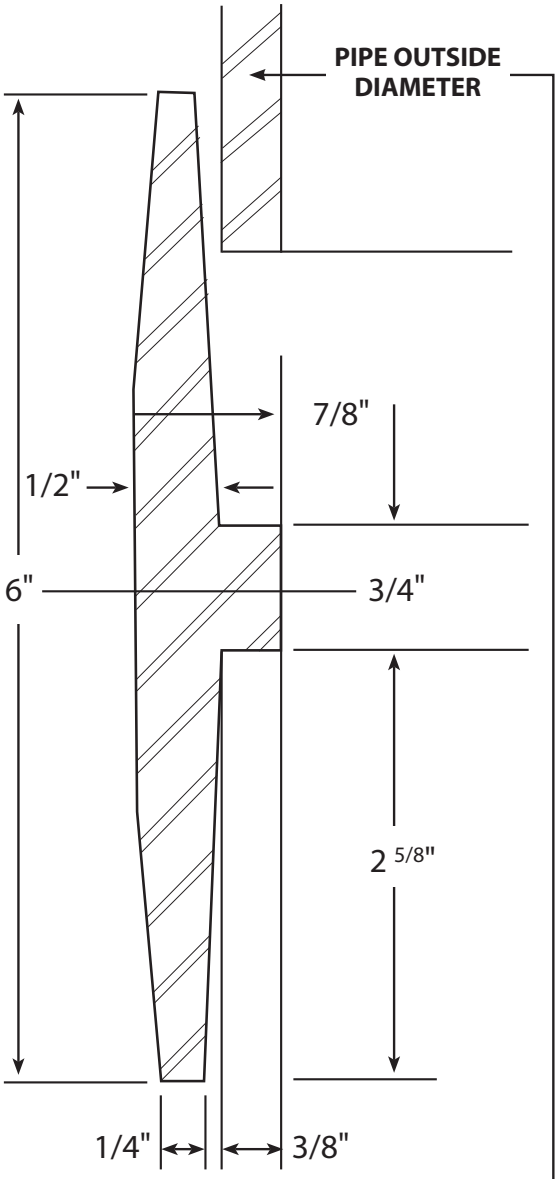
PIPE PILING SPLICERS

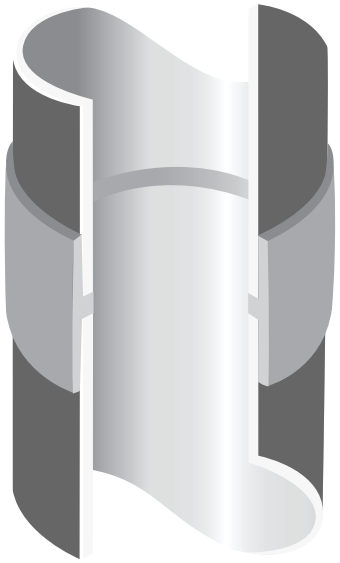
Specifications



Section through pipe and splicer before driving.

DRIVE-FIT SPLICER SLEEVE

Pipe Piling splicers are available in all pipe sizes. Pipe splicers help ease alignment of pipe and drive fit with no welding required.



PIPE OUTSIDE DIAMETER			
7 5/8"	8"	8 5/8"	9 5/8"
10"	10 3/4"	12"	
12 3/4"	14"	16"	
18"	20"	24"	

Diameter at this point (1" from each end) is approximately equal to pipe outside diameter (to allow for drive-fit.)

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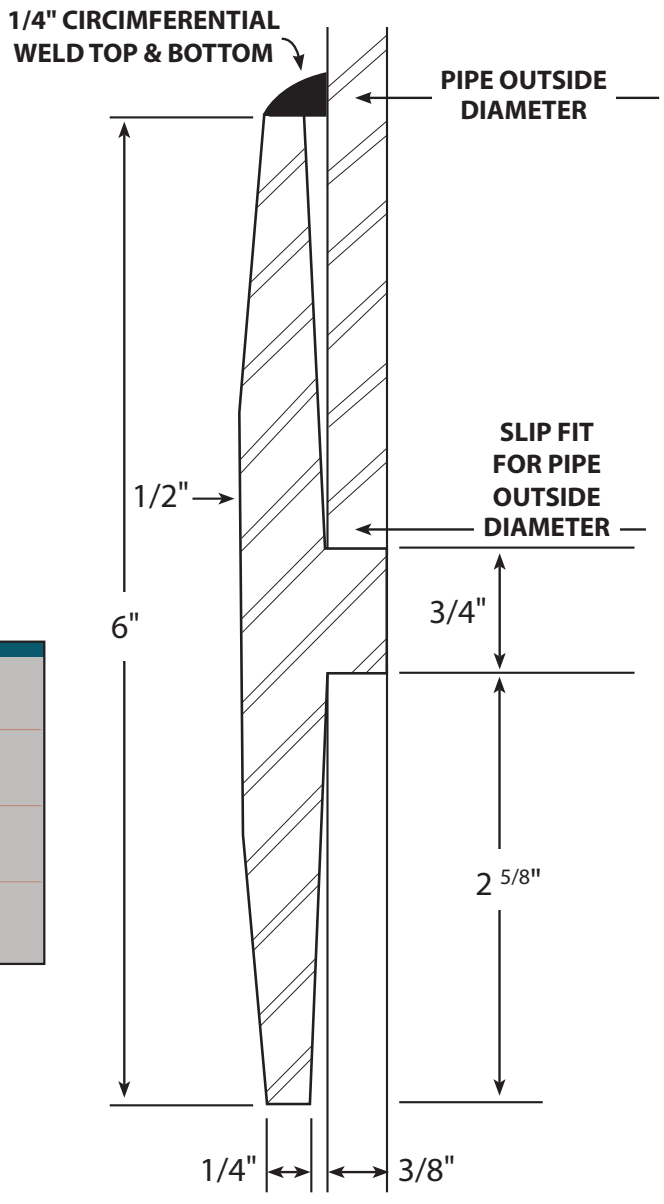
PIPE PILING SPLICERS
Specifications

WELD-FIT SPLICER SLEEVE

Pipe Piling splicers are available in all pipe sizes.

PIPE OUTSIDE DIAMETER			
7 5/8"	8"	8 5/8"	9 5/8"
10"	10 3/4"	12"	
12 3/4"	14"	16"	
18"	20"	24"	



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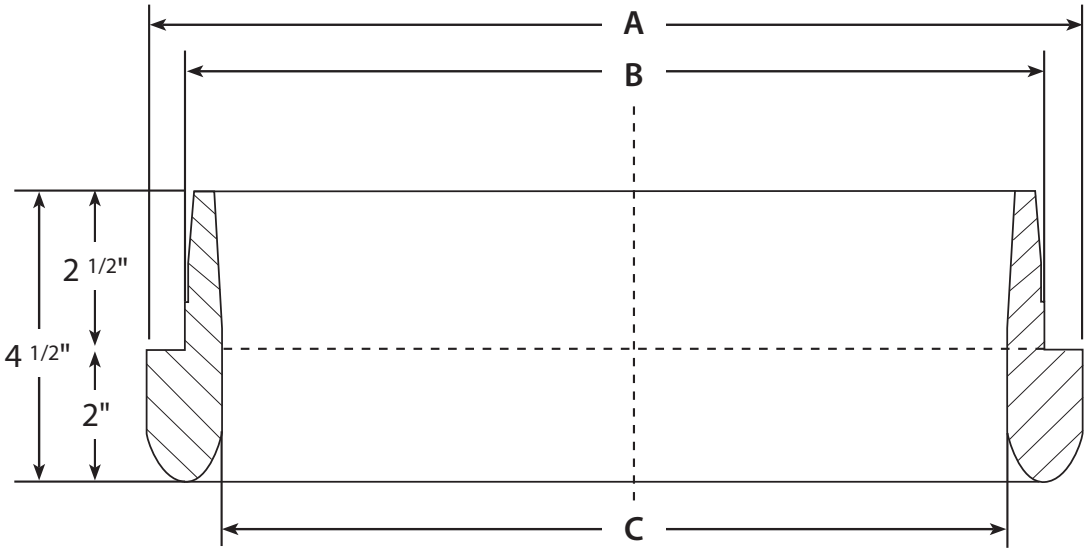
PIPE PILING CUTTING SHOES
Specifications

INSIDE CUTTING SHOE



PIPE OUTSIDE DIAMETER	A	B	C
10 3/4	10 7/8"	9 3/4"	8 5/8"
12 3/4	12 7/8"	11 3/4"	10 5/8"
14	14 1/8"	13"	11 7/8"
16	16 1/8"	15"	13 7/8"
18	18 1/8"	17"	15 7/8"
20	20 1/8"	19"	17 3/4"
20-S	20 1/8"	18 1/2"	17 3/4"
24	24 1/4"	22 5/8"	21 5/8"
26	26 1/4"	24 9/16"	23 5/8"
30	30 1/4"	28 1/2"	27 3/4"
30-S	30 1/4"	28"	27 1/4"
36	36 1/4"	35"	33 1/2"
36-S	36 1/4"	34 3/8"	33 1/2"

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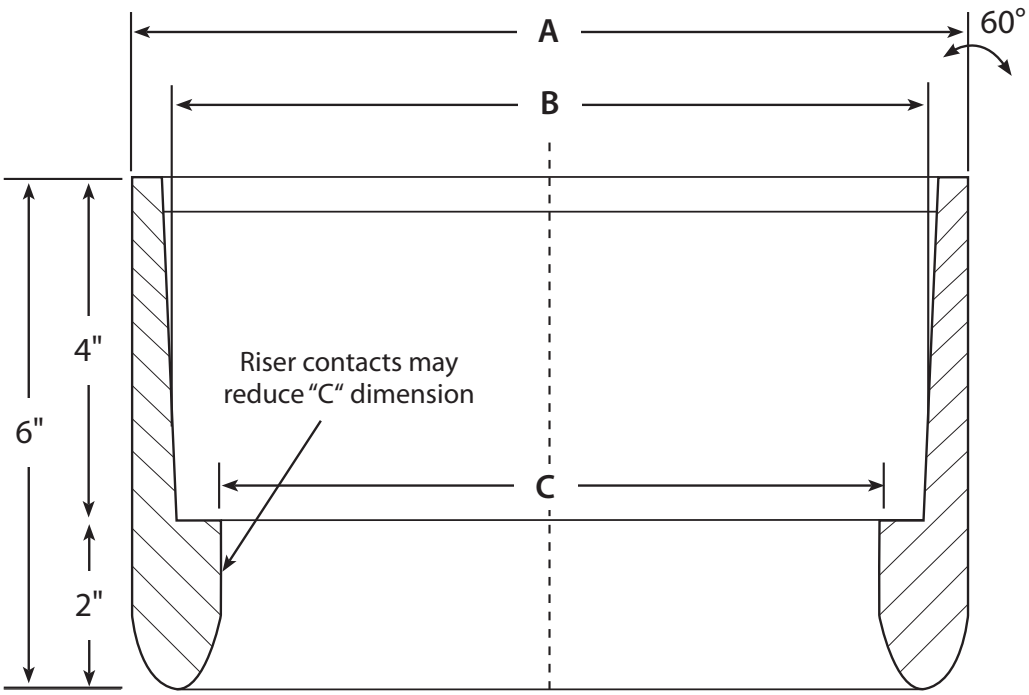
PIPE PILING CUTTING SHOES

Specifications

OUTSIDE CUTTING SHOE



PIPE OUTSIDE DIAMETER	A	B	C
6 5/8	7 3/4"	6 3/4"	5 3/4"
8 5/8	9 3/4"	8 3/4"	7 3/4"
9 5/8	10 3/4"	9 3/4"	8 3/8"
10 3/4	11 7/8"	10 7/8"	9 7/8"
12	13 1/8"	12 1/8"	11 1/8"
12 3/4	13 7/8"	12 7/8"	11 7/8"
14	15 1/4"	14 1/8"	13"
16	17 1/4"	16 1/8"	15"
18	19 3/8"	18 1/8"	16 7/8"
20	21 3/8"	20 1/8"	18 7/8"

PIPE OUTSIDE DIAMETER	A	B	C
22	23 3/8"	22 1/8"	20 3/4"
24	25 1/2"	24 1/4"	22 7/8"
26	27 3/4"	26 3/8"	24 7/8"
28	29 3/4"	28 3/8"	26 7/8"
30	31 3/4"	30 3/8"	28 7/8"
32	33 3/4"	32 3/8"	30 7/8"
34	35 3/4"	34 3/8"	32 7/8"
36	37 7/8"	36 3/8"	34 7/8"
42	44 1/8"	42 1/2"	40 7/8"

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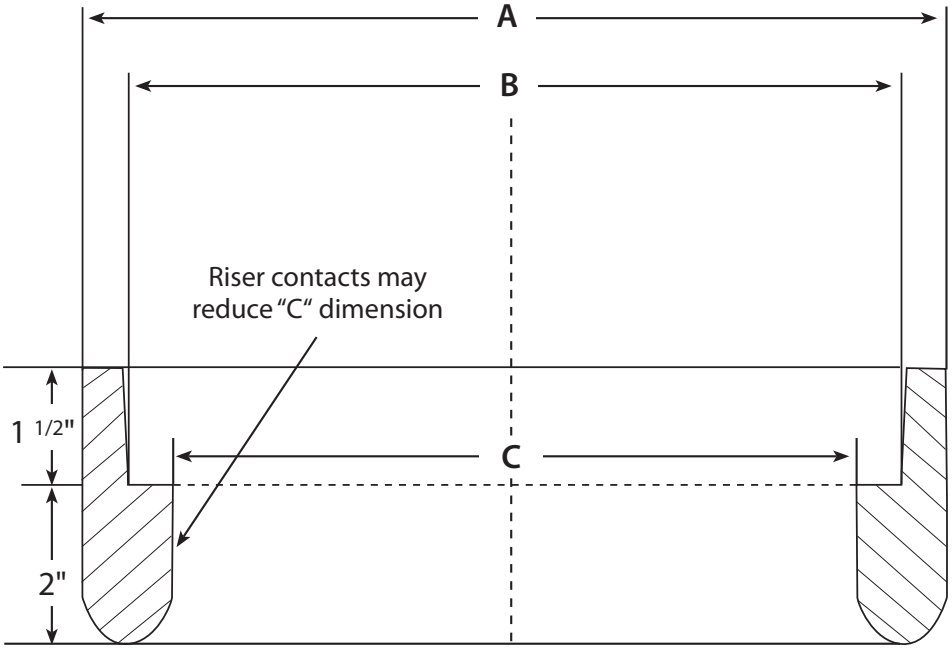
PIPE PILING CUTTING SHOES

Specifications

OUTSIDE CUTTING SHOE



PIPE OUTSIDE DIAMETER	A	B	C
24	25 1/4"	24 1/4"	22 7/8"
30	31 1/4"	30 1/4"	28 7/8"

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.

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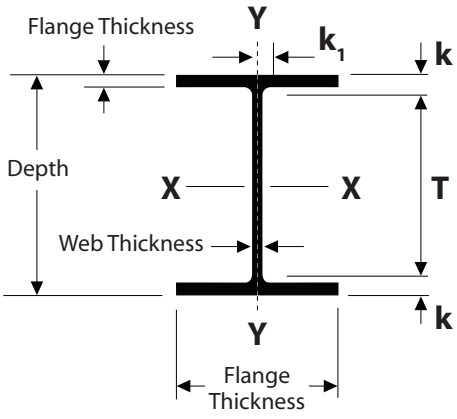
WIDE FLANGE
Specifications



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	
			lb/ft (kg/m)	in² (mm²)	in (mm)	in (mm)	in (mm)	in (mm)	k in (mm)	k_1 in (mm)	T in (mm)	R in (mm)	R in
	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*	0.750 *17.4*	0.545 *38.2*	2.660 *67.8*	0.405 *10.29*	2/5
	5 x 5 *130 x 130*	**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*	0.835 *17.2*	0.540 *42.4*	3.480 *88.6*	0.405 *10.29*	2/5
		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*	0.765 *16.4*	0.525 *38.8*	3.480 *88.2*	0.405 *10.29*	2/5

PRIME SECTION GROUP			WT	AREA	DPT	FLANGE WIDTH	THICKNESS FLANGE	THICKNESS WEB	DISTANCE k	DISTANCE k_1	DISTANCE T	FILLET RADIUS R	ELASTIC PROPERTIES X-X I_x	X-X S_x	X-X r_x	Y-Y I_y	Y-Y S_y	Y-Y r_y	PLASTIC MODULUS Z_x	PLASTIC MODULUS Z_y
		in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in² (mm²)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in⁴ (mm)	in³ (mm)	in (mm)	in⁴ (mm)	in³ (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, 740*	6.38 *162*	6.080 *154*	0.455 *11.6*	0.320 *8.1*	0.828 *21*	0.470 *12*	4.725 *120*	0.31 *8*	53.6 *22*	16.80 *275*	2.70 *68.6*	17.1 *7.1*	5.61 *92*	1.52 *38.6*	19.0 *311*	8.57 *140*
		W6 x 20 *W150 x 29.8*	20 *29.8*	5.87 *3, 790*	6.20 *157*	6.020 *153*	0.365 *9.3*	0.260 *6.6*	0.738 *19*	0.440 *11*	4.725 *119*	0.31 *8*	41.5 *17.3*	13.40 *220*	2.66 *67.6*	13.3 *5.5*	4.41 *72*	1.50 *38.1*	15.0 *246*	6.72 *110*
		W6 x 15 *W150 x 22.5*	15 *22.5*	4.43 *2, 860*	5.99 *152*	5.990 *152*	0.260 *6.6*	0.230 *5.8*	0.633 *16*	0.425 *11*	4.725 *120*	0.31 *8*	29.3 *12.2*	9.77 *160*	2.56 *65.0*	9.32 *3.9*	3.11 *51*	1.45 *36.8*	10.8 *177*	4.75 *78*
		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*
	6 x 4 *150 x 100*	**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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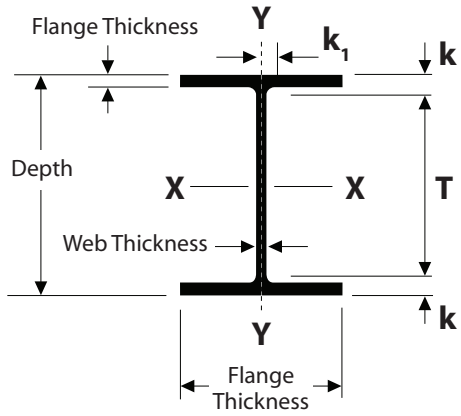
WIDE FLANGE
Specifications



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			WT	AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS	ELASTIC PROPERTIES						PLASTIC MODULUS	
							FLANGE	WEB	k	k_1	T	R	X-X			Y-Y				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 *(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^3 *($10^3 mm^3$)*	in^3 *($10^3 mm^3$)*
		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*	0.51 *13*	272.0 *113*	60.4 *990*	3.72 *94.5*	88.6 *736.9*	21.4 *351*	2.12 *53.8*	70.1 *1149*	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*	0.51 *13*	228.0 *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*	0.51 *13*	184.0 *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*
	8 x 8 *200 x 200*	**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*	0.51 *13*	146.0 *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*	0.51 *13*	127.0 *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, 890*	8.00 *203*	7.995 *203*	0.435 *11.0*	0.285 *7.2*	1.010 *26*	0.655 *17*	5.981 *152*	0.51 *13*	110.0 *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*
	8 x 6 1/2 *200 x 170*	**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*	0.51 *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*	0.51 *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*
	8 x 5 1/4 *200 x 130*	**W8 x 21** *W200 x 31.3*	21 *31.3*	6.16 *3, 970*	8.28 *210*	5.270 *134*	0.400 *10.2*	0.250 *6.4*	0.853 *22*	0.505 *13*	6.575 *167*	0.390 *10*	75.3 *31.3*	18.2 *298*	3.49 *88.6*	9.8 *4.07*	3.71 *61*	1.26 *32.0*	20.4 *334*	5.69 *93*
		W8 x 18 *W200 x 26.6*	18 *26.6*	5.26 *3, 390*	8.14 *207*	5.250 *133*	0.330 *8.4*	0.230 *5.8*	0.783 *20*	0.509 *13*	6.575 *167*	0.390 *10*	61.9 *25.8*	15.2 *249*	3.43 *87.1*	8.0 *3.32*	3.04 *49.8*	1.23 *31.2*	17.0 *279*	4.66 *76*
		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*
	8 x 4 *200 x 100*	**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*

R.W. CONKLINSTEEL

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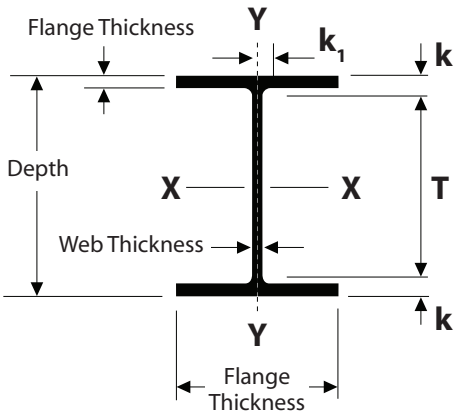
WIDE FLANGE
Specifications



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			WT	AREA	DPT	FLANGE WIDTH	THICKNESS: FLANGE	THICKNESS: WEB	DISTANCE: k	DISTANCE: k_1	DISTANCE: T	FILLET RADIUS R	ELASTIC PROPERTIES: X-X I_x	X-X S_x	X-X r_x	Y-Y I_y	Y-Y S_y	Y-Y r_y	PLASTIC MODULUS Z_x	PLASTIC MODULUS Z_y
		in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in² (mm²)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in⁴ (10^6 mm⁴)	in³ (10^3 mm³)	in (10^3 mm³)	in⁴ (10^6 mm⁴)	in³ (10^3 mm³)	in (10^3 mm³)	in (10^3 mm³)	in (10^3 mm³)
PRIME SECTION GROUP	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
	10 x 8 250 x 200	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
	10 x 5 3/4 250 x 150	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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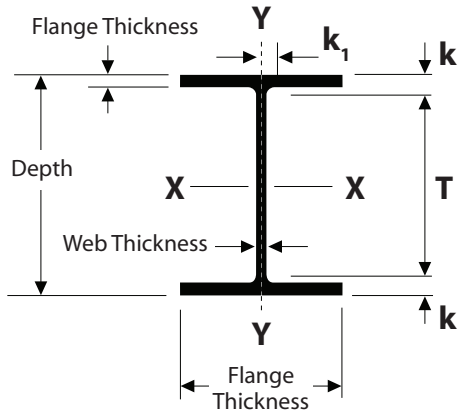
WIDE FLANGE
Specifications



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	ELASTIC PROPERTIES						PLASTIC MODULUS	
							FLANGE	WEB	k	k_1	T	R	X-X			Y-Y				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 *(mm)*	in^4 *(mm)*	in^3 *(mm)*	in *(mm)*	in^4 *(mm)*	in^3 *(mm)*	in *(mm)*	in *(mm)*	in *(mm)*
		W12 x 336 *W310 x 500*	**336** *500*	**98.8** *63,700*	**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*	**4060** *1,690*	**483** *7,915*	**6.41** *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** *57,800*	**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*	**6.29** *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** *52,800*	**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*	**393** *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** *47,800*	**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*	**353** *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** *43,700*	**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*	**321** *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** *39,900*	**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** *36,000*	**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*	**93.0** *1,524*	**3.25** *82.6*	**311** *5,096*	**143** *2,343*
	12 x 12 *310 x 310*	**W12 x 170** *W310 x 253*	**170** *253*	**50.0** *32,300*	**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** *28,800*	**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*	**209** *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** *25,700*	**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*	**98.0** *1,606*
		W12 x 120 *W310 x 179*	**120** *179*	**35.3** *22,800*	**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*	**1070** *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** *20,100*	**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*	**145** *2,376*	**5.47** *139*	**301** *125*	**49.3** *808*	**3.11** *79.0*	**164** *2,687*	**75.1** *1,231*
		W12 x 96 *W310 x 143*	**96** *143*	**28.2** *18,200*	**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** *16,500*	**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** *15,000*	**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** *13,600*	**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** *12,300*	**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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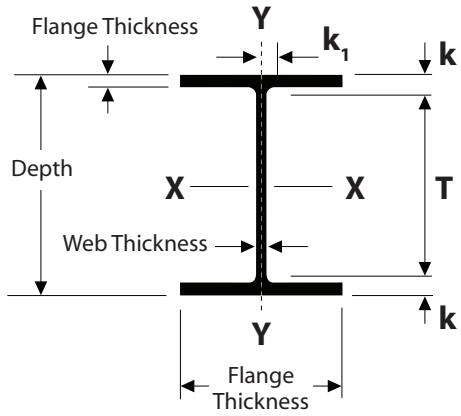
WIDE FLANGE
Specifications



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	ELASTIC PROPERTIES						PLASTIC MODULUS	
							FLANGE	WEB	k	k_1	T	R	X-X			Y-Y				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 (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^3 ($10^3 mm^3$)	in^3 ($10^3 mm^3$)
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*	1.451 *37*	0.928 *24*	9.289 *236*	0.75 *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*	1.386 *35*	0.921 *23*	9.289 *236*	0.75 *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*	1.451 *37*	0.933 *24*	9.289 *236*	0.75 *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*	1.386 *35*	0.916 *23*	9.289 *236*	0.75 *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*	1.326 *34*	0.896 *23*	9.289 *236*	0.75 *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	*W310x52*	35 *52*	10.3 *6,650*	12.50 *317*	6.560 *167*	0.520 *13.2*	0.300 *7.6*	0.918 *23*	0.485 *12*	10.665 *271*	0.34 *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 6½ *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*	0.838 *21*	0.465 *12*	10.665 *271*	0.34 *8.5*	238 *99*	38.6 *633*	5.21 *132*	20.3 *8.4*	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*	0.778 *20*	0.450 *11*	10.665 *271*	0.34 *8.5*	204 *85*	33.4 *547*	5.17 *131*	17.3 *7.2*	5.34 *88*	1.51 *38.4*	37.2 *610*	8.17 *134*
	W12 x 22	*W310 x 32.7*	22 *32.7*	6.48 *4,180*	12.31 *313*	4.030 *102*	0.425 *10.8*	0.260 *6.6*	0.823 *21*	0.465 *12*	10.665 *271*	0.34 *8.5*	156 *65*	25.4 *416*	4.91 *125*	4.7 *1.9*	2.31 *38*	0.85 *21.5*	29.3 *480*	3.66 *60*
	W12 x 19	*W310 x 28.3*	19 *28.3*	5.57 *3,590*	12.16 *309*	4.005 *102*	0.350 *8.9*	0.235 *6.0*	0.748 *19*	0.453 *12*	10.665 *271*	0.34 *8.5*	130 *54*	21.3 *349*	4.82 *122*	3.7 *1.6*	1.88 *31*	0.82 *20.9*	24.7 *405*	2.98 *49*
12 x 4 *310 x 100*	**W12 x 16**	*W310 x 23.8*	16 *23.8*	4.71 *3,040*	11.99 *305*	3.990 *101*	0.265 *6.7*	0.220 *5.6*	0.663 *17*	0.445 *11*	10.665 *272*	0.34 *8.5*	103 *43*	17.1 *280*	4.67 *119*	2.8 *1.2*	1.41 *23*	0.77 *19.6*	20.1 *329*	2.26 *37*
	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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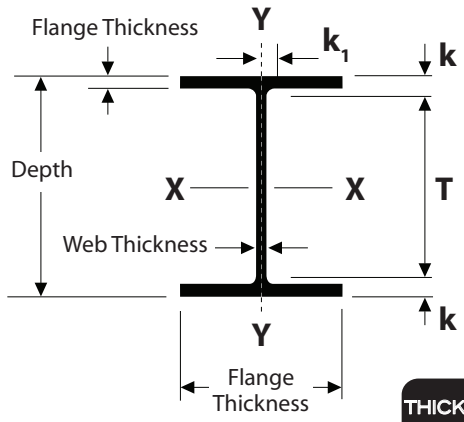
WIDE FLANGE
Specifications



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.

							THICKNESS		DISTANCE				ELASTIC PROPERTIES						PLASTIC MODULUS	
													X-X			Y-Y				
		WT	AREA	DPT	FLANGE WIDTH		FLANGE	WEB	k	k_1	T	FILLET RADIUS R	I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_y
	in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in² (mm²)	in (mm)	in (mm)		in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in⁴ (10⁶ mm⁴)	in³ (10³ mm³)	in (mm)	in⁴ (10⁶ mm⁴)	in³ (10³ mm³)	in (mm)	in³ (10³ mm³)	in³ (10³ mm³)
PRIME SECTION GROUP	**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	11.293 256	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	11.293 257	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	11.293 256	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	11.293 257	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	11.293 257	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	11.293 257	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	11.293 257	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 72.3	1.770 45.0	4.089 104	2.066 53	11.293 257	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
14 x 16 360 x 400	**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	11.293 257	1.18 30	5,440 2,264	607 9,947	7.07 180	1,990 495	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	11.293 258	1.18 30	4,900 2,040	558 9,144	6.98 178	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	11.293 257	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	11.293 257	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	11.293 257	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	11.293 257	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	11.293 257	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	11.293 257	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	11.293 257	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	11.293 257	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	11.293 257	1.18 30	1,710 712	232 3,802	6.33 161	677 282	87.3 1,431	3.98 101	260 4,261	133 2,179

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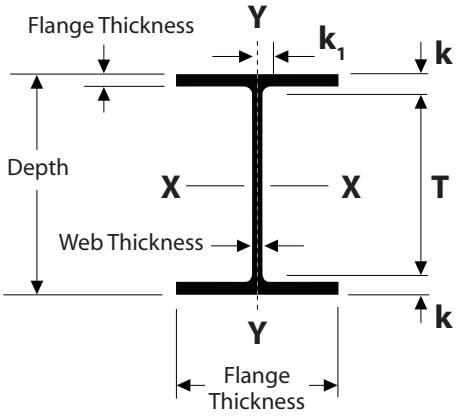
WIDE FLANGE
Specifications



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	ELASTIC PROPERTIES						PLASTIC MODULUS	
							FLANGE	WEB	k	k_1	T	R	X-X			Y-Y				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 *(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 *($10^3 mm^3$)*	in *($10^3 mm^3$)*
		W14 x 132 *W360 x 196*	**132** *196*	**38.8** *25,000*	**14.66** *372*	**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** *158*	**495** *206*	**67.5** *1,106*	**3.74** *95.0*	**212** *3, 474*	**102** *1, 671*
	14 x 14 1/2 *360 x 370*	**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** *158*	**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*	**0.75** *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*
	14 x 10 *360 x 250*	**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*	**0.973** *25*	**10.979** *279*	**0.75** *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*	**0.956** *24*	**10.979** *279*	**0.75** *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*	**0.936** *24*	**10.979** *279*	**0.75** *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*	**0.933** *24*	**10.979** *279*	**0.75** *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*	**0.918** *23*	**10.979** *279*	**0.75** *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*	**0.901** *23*	**10.979** *279*	**0.75** *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*
		W14 x 38 *W360 x 57.8*	**38** *58*	**11.2** *7,230*	**14.10** *358*	**6.770** *172*	**0.515** *13.1*	**0.310** *7.9*	**0.972** *25*	**0.549** *14*	**12.157** *309*	**0.39** *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*
	14 x 6 3/4 *360 x 170*	**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*	**0.537** *14*	**12.157** *309*	**0.39** *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*	**30** *44.6*	**8.85** *5,710*	**13.84** *352*	**6.730** *171*	**0.385** *9.8*	**0.270** *6.9*	**0.842** *21*	**0.529** *13*	**12.157** *309*	**0.39** *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 x39*	**26** *39*	**7.69** *4,960*	**13.91** *353*	**5.025** *128*	**0.420** *10.7*	**0.255** *6.5*	**0.877** *22*	**0.522** *13*	**12.157** *309*	**0.39** *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*	**0.509** *13*	**12.157** *309*	**0.39** *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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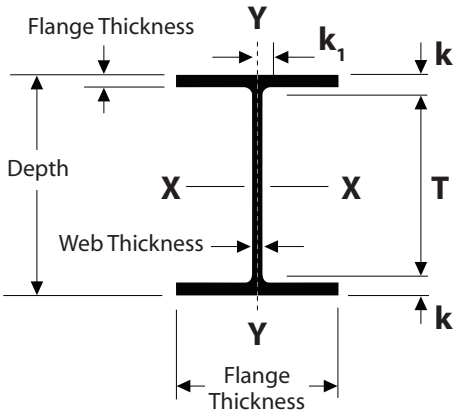
WIDE FLANGE
Specifications



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	ELASTIC PROPERTIES						PLASTIC MODULUS	
							FLANGE	WEB	k	k_1	T	R	X-X			Y-Y				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_y
		in x lbs/ft *(mm x kg/m)*	lb/ft *(kg/m)*	in² *(mm²)*	in *(mm)*	in *(mm)*	in *(mm)*	in *(mm)*	in *(mm)*	in *(mm)*	in *(mm)*	in *(mm)*	in⁴ *(10⁶ mm⁴)*	in³ *(10³ mm³)*	in *(mm)*	in⁴ *(10⁶ mm⁴)*	in³ *(10³ mm³)*	in *(mm)*	in³ *(10³ mm³)*	in³ *(10³ mm³)*
		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*
	16 x 10 1/4 *410 x 260*	**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*
	16 x 7 *410 x 180*	**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*

R.W. CONKLINSTEEL

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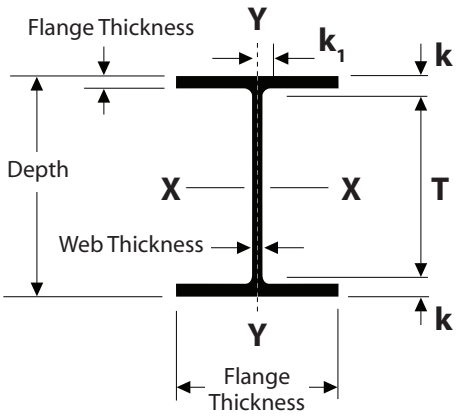
WIDE FLANGE
Specifications



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	ELASTIC PROPERTIES						PLASTIC MODULUS	
						FLANGE	WEB	k	k_1	T	R	X-X			Y-Y				
												I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 (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 ($10^3 mm^3$)	in ($10^3 mm^3$)
18 x 11 460 x 280	**W18 x 311** W460 x 464	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	6970 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	6170 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	5510 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 349	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	4900 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 315	211 314	62.1 40,100	20.67 525	11.555 293	1.910 48.5	1.060 26.9	2.760 70	1.317 33	15.151 385	0.79 20	4330 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	3870 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	3450 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	3060 1,274	310 5,080	8.12 206	347 144	61.4 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	2750 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	2460 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	2190 912	231 3785	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	1910 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	1750 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	1530 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	1330 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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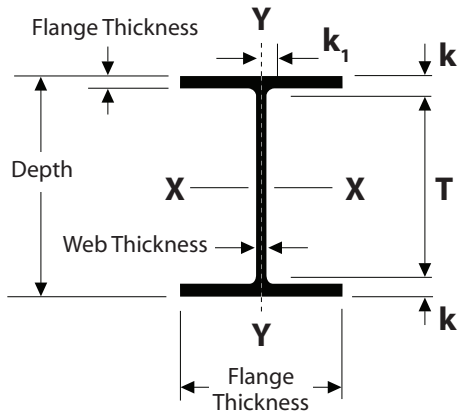
WIDE FLANGE
Specifications



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	ELASTIC PROPERTIES						PLASTIC MODULUS	
												X-X			Y-Y				
						FLANGE	WEB	k	k_1	T	R	I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 (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 ($10^3 mm^3$)	in ($10^3 mm^3$)
18 x 7 1/2 *410 x 260*	**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*
	W18 x 45 *W460 x 67*	45 *67*	13.5 *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*	720 *296*	80.6 *1,300*	7.30 *186*	35.0 *14.5*	9.35 *153*	1.61 *41.2*	91.6 *1,480*	14.6 *238*
	W18 x 41 *W460 x 61*	41 *61*	12.1 *7,660*	17.70 *450*	7.450 *189*	0.430 *10.9*	0.320 *8.1*	1.084 *27*	0.751 *19*	15.533 *395*	0.59 *15*	626 *255*	70.7 *1,130*	7.19 *182*	29.7 *12.2*	7.98 *129*	1.57 *39.9*	80.5 *1,290*	12.5 *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*	7.44 *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*	6.36 *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*	15.543 *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*

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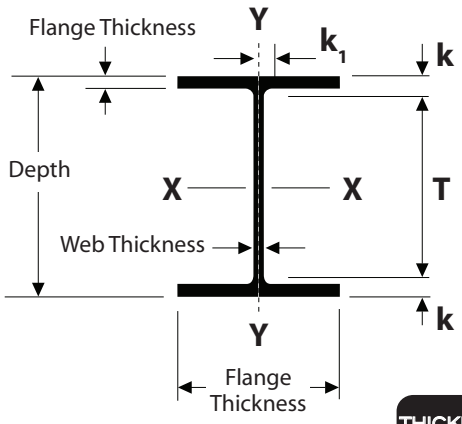
WIDE FLANGE
Specifications



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	ELASTIC PROPERTIES						PLASTIC MODULUS	
												X-X			Y-Y				
						FLANGE	WEB	k	k_1	T	R	I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_y
	in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in² (mm²)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in⁴ (10⁶ mm⁴)	in³ (10³ mm³)	in (mm)	in⁴ (10⁶ mm⁴)	in³ (10³ mm³)	in (mm)	in (10³ mm³)	in (10³ mm³)
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	23.74 602.996	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
21 x 12 1/4 *530 x 310*	**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 4,146	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
21 x 8 1/4 *530 x 210*	**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
21 x 6 1/2 *530 x 170*	**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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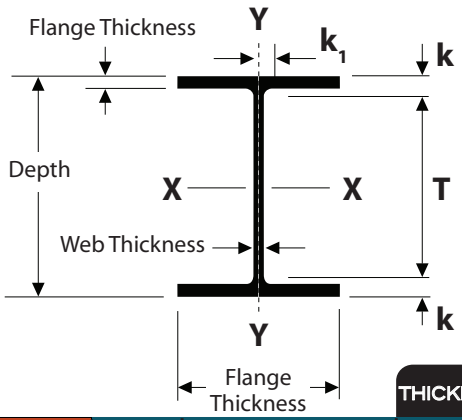
WIDE FLANGE
Specifications



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.

						THICKNESS		DISTANCE				ELASTIC PROPERTIES						PLASTIC MODULUS	
												X-X			Y-Y				
		WT	AREA	DPT	FLANGE WIDTH	FLANGE	WEB	k	k_1	T	FILLET RADIUS R	I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_y
	in x lbs/ft (mm x kg/m)	lb/ft (kg/m)	in² (mm²)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in⁴ (10⁶ mm⁴)	in³ (10³ mm³)	in (mm)	in⁴ (10⁶ mm⁴)	in³ (10³ mm³)	in (mm)	in (10³ mm³)	in (10³ mm³)
PRIME SECTION GROUP	**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
24 x 12 3/4 610 x 320	**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	46.5 762	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 12.7	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
24 x 9 610 x 230	**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 11,500	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	1,602 657	136 2,200	9.45 239	59.6 24.8	13.4 219	1.82 46.5	156 2,560	20.9 342
CSA	**W24 x 56** W610 x 84	56 84	16.6 10,600	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	1,473 603	126 2,020	9.41 239	54.3 22.6	12.2 200	1.81 46.2	144 2,360	19.1 311
24 x 7 610 x 180	**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

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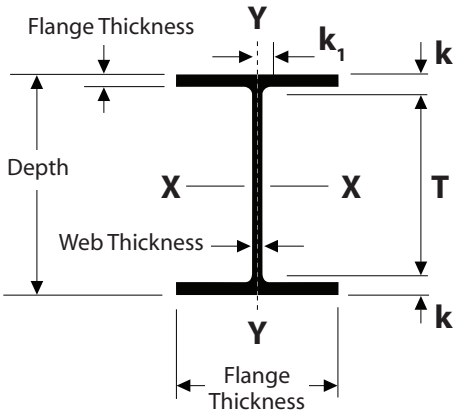
WIDE FLANGE
Specifications



WIDE FLANGE
27"
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				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 (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 ($10^3 mm^3$)	in ($10^3 mm^3$)
		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*
	27 x 14 *690 x 330*	**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*
	27 x 10 *690 x 250*	**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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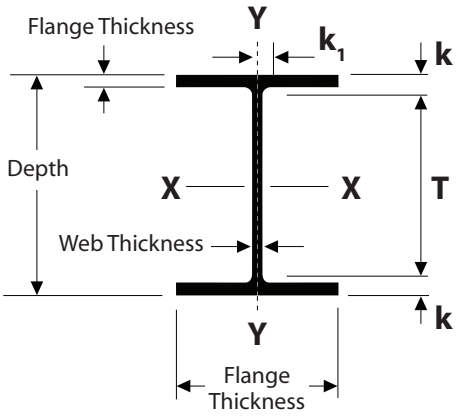
WIDE FLANGE
Specifications



WIDE FLANGE
30"
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				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 *(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 *($10^3 mm^3$)*	*($10^3 mm^3$)*
		W30 x 391 *W760 x 582*	391 *582*	115.0 *74,200*	33.19 *843*	15.590 *396*	2.440 *62.0*	1.380 *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*
	30 x 15 *760 x 380*	**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 1/2 *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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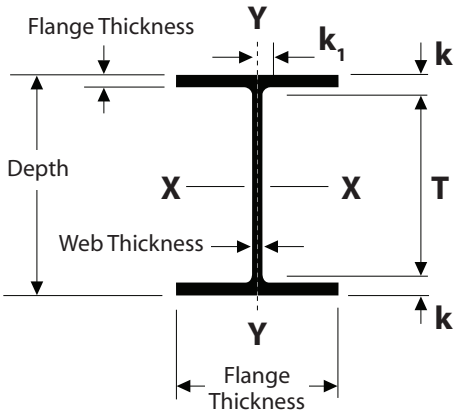
WIDE FLANGE
Specifications



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	ELASTIC PROPERTIES						PLASTIC MODULUS	
							FLANGE	WEB	k	k_1	T	R	X-X			Y-Y				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 *(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 *($10^3 mm^3$)*	*($10^3 mm^3$)*
PRIME SECTION GROUP	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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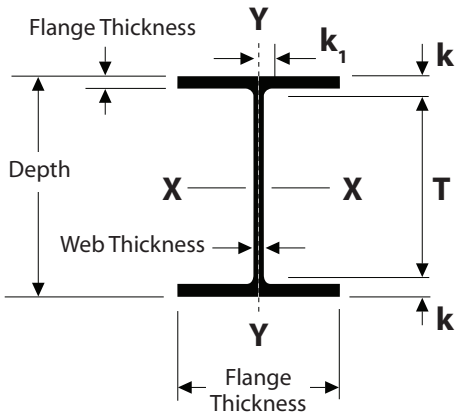
WIDE FLANGE
Specifications



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.

PRIME SECTION GROUP			WT	AREA	DPT	FLANGE WIDTH	THICKNESS		DISTANCE			FILLET RADIUS	ELASTIC PROPERTIES						PLASTIC MODULUS	
							FLANGE	WEB	k	k_1	T	R	X-X			Y-Y				
													I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_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 (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 ($10^3 mm^3$)	in ($10^3 mm^3$)
PRIME SECTION GROUP		**W36 x 441** *W920 x 656*	441 656	129.7 83,700	38.85 987	16.965 431	2.440 62.0	1.360 34.5	3.684 94	1.861 47	31.483 800	1.18 30	32,100 13,361	1,650 27,039	15.7 399	1,910 795	235 3,851	3.92 99.6	1,910 31,299	368 6,030
PRIME SECTION GROUP		**W36 x 395** *W920 x 588*	395 588	116.2 75,000	38.37 975	16.830 427	2.200 55.9	1.220 31.0	3.444 87	1.791 46	31.483 800	1.18 30	28,500 11,863	1,490 24,417	15.7 399	1,750 728	208 3,408	3.88 98.6	1,710 28,022	325 5,326
PRIME SECTION GROUP		**W36 x 361** *W920 x 537*	361 537	106.1 68,500	37.99 965	16.730 425	2.010 51.1	1.120 28.4	3.254 83	1.741 44	31.483 800	1.18 30	25,700 10,697	1,350 22,122	15.6 396	1,570 653	188 3,081	3.85 97.8	1,550 25,400	293 4,801
PRIME SECTION GROUP		**W36 x 330** *W920 x 491*	330 491	97.0 62,600	37.67 957	16.630 422	1.850 47.0	1.020 25.9	3.094 79	1.691 43	31.483 800	1.18 30	23,300 9,698	1,240 20,320	15.5 394	1,420 591	171 2,802	3.83 97.3	1,410 23,106	265 4,343
PRIME SECTION GROUP	36 x 16 1/2 *920 x 420*	**W36 x 302** *W920 x 449*	302 449	88.8 57,600	37.33 948	16.655 423	1.680 42.7	0.945 24.0	2.924 74	1.654 42	31.483 800	1.18 30	21,100 8,782	1,130 18,517	15.4 391	1,300 541	156 2,556	3.82 97.0	1,280 20,975	241 3,949
PRIME SECTION GROUP		**W36 x 282** *W920 x 420*	282 420	82.9 53,500	37.11 943	16.595 422	1.570 39.9	0.885 22.5	2.814 71	1.624 41	31.483 800	1.18 30	19,600 8,158	1,050 17,206	15.4 391	1,200 499	144 2,360	3.80 96.5	1,190 19,501	223 3,654
PRIME SECTION GROUP		**W36 x 262** *W920 x 390*	262 390	77.0 49,700	36.85 936	16.550 420	1.440 36.6	0.840 21.3	2.684 68	1.601 41	31.483 800	1.18 30	17,900 7,451	972 15,928	15.3 389	1,090 454	132 2,163	3.76 95.5	1,100 18,026	204 3,343
PRIME SECTION GROUP		**W36 x 247** *W920 x 368*	247 368	72.5 46,800	36.67 931	16.510 419	1.350 34.3	0.800 20.3	2.594 66	1.581 40	31.483 799	1.18 30	16,700 6,951	913 14,961	15.2 386	1,010 420	123 2,016	3.74 95.0	1,030 16,879	190 3,114
PRIME SECTION GROUP		**W36 x 231** *W920 x 344*	231 344	68.0 43,900	36.49 927	16.470 418	1.260 32.0	0.760 19.3	2.504 64	1.561 40	31.483 800	1.18 30	15,600 6,493	854 13,994	15.1 384	940 391	114 1,868	3.71 94.2	963 15,781	176 2,884
PRIME SECTION GROUP		**W36 x 256** *W920 x 381*	256 381	75.4 48,600	37.43 951	12.215 310	1.730 43.9	0.960 24.4	2.974 75	1.661 42	31.483 800	1.18 30	16,800 6,993	895 14,666	14.9 378	528 220	86.5 1,417	2.65 67.3	1,040 17,042	137 2,245
PRIME SECTION GROUP		**W36 x 232** *W920 x 345*	232 345	68.1 44,000	37.12 943	12.120 308	1.570 39.9	0.870 22.1	2.814 71	1.616 41	31.493 800	1.18 30	15,000 6,243	809 13,257	14.8 376	468 195	77.2 1,265	2.62 66.5	936 15,338	122 1,999
PRIME SECTION GROUP		**W36 x 210** *W920 x 313*	210 313	61.8 39,900	36.69 932	12.180 309	1.360 34.5	0.830 21.1	2.604 66	1.596 41	31.483 800	1.18 30	13,200 5,494	719 11,782	14.6 371	411 171	67.5 1,106	2.58 65.5	833 13,650	107 1,753
PRIME SECTION GROUP		**W36 x 194** *W920 x 289*	194 289	57.0 36,800	36.49 927	12.115 308	1.260 32.0	0.765 19.4	2.504 64	1.564 40	31.483 800	1.18 30	12,100 5,036	664 10,881	14.6 371	375 156	61.9 1,014	2.56 65.0	767 12,569	97.7 1,601
PRIME SECTION GROUP	36 x 12 *920 x 300*	**W36 x 182** *W920 x 271*	182 271	53.6 34,600	36.33 923	12.075 307	1.180 30.0	0.725 18.4	2.424 62	1.544 39	31.483 800	1.18 30	11,300 4,703	623 10,209	14.5 368	347 144	57.6 944	2.55 64.8	718 11,766	90.7 1,486
PRIME SECTION GROUP		**W36 x 170** *W610 x 253*	170 253	50.0 32,300	36.17 919	12.030 306	1.100 27.9	0.680 17.3	2.344 59	1.521 39	31.483 800	1.18 30	10,500 4,370	581 9,521	14.5 368	320 133	53.2 872	2.53 64.3	668 10,947	83.8 1,373
PRIME SECTION GROUP		**W36 x 160** *W610 x 238*	160 238	47.0 30,300	36.01 915	12.000 305	1.020 25.9	0.650 16.5	2.264 57	1.506 38	31.483 800	1.18 30	9,760 4,062	542 8,882	14.4 366	295 123	49.1 805	2.50 63.5	624 10,225	77.3 1,267
PRIME SECTION GROUP		**W36 x 150** *W610 x 223*	150 223	44.2 28,500	35.85 911	11.975 304	0.940 23.9	0.625 15.9	2.184 55	1.494 38	31.483 800	1.18 30	9,040 3,763	504 8,259	14.3 363	270 112	45.1 739	2.47 62.7	581 9,521	70.9 1,162
PRIME SECTION GROUP		**W36 x 135** *W610 x 201*	135 201	39.7 25,600	35.55 903	11.950 304	0.790 20.1	0.600 15.2	2.034 52	1.481 38	31.483 800	1.18 30	7,800 3,247	439 7,194	14.0 356	225 93.7	37.7 618	2.38 60.5	509 8,341	59.7 978

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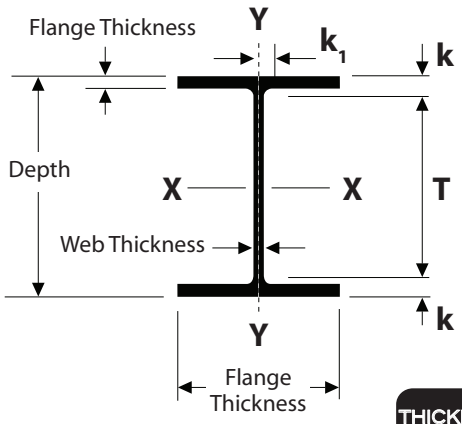
WIDE FLANGE
Specifications



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			THICKNESS		DISTANCE			FILLET RADIUS	ELASTIC PROPERTIES						PLASTIC MODULUS	
									X-X			Y-Y				
		WT AREA DPT FLANGE WIDTH	FLANGE	WEB	k	k_1	T	R	I_x	S_x	r_x	I_y	S_y	r_y	Z_x	Z_y
	in x lbs/ft (mm x kg/m)	lb/ft (kg/m) in² (mm²) in (mm) in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in⁴ (10^6mm⁴)	in³ (10^3mm³)	in (mm)	in⁴ (10^6mm⁴)	in³ (10^3mm³)	in (mm)	in (10^3mm³)	in (10^3mm³)
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	**1200** 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	**1080** 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	34.055 865	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
40 x 12 1000 x 300	**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	34.053 865	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	34.053 865	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
	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
44 x 16 1100 x 400	**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

R.W. ConklinSteel

100% Melted & Manufactured in the USA

1-888-CONKLIN (266-5546)

www.conklinsteel.com

PZ/PZC + BEAM CONNECTORS

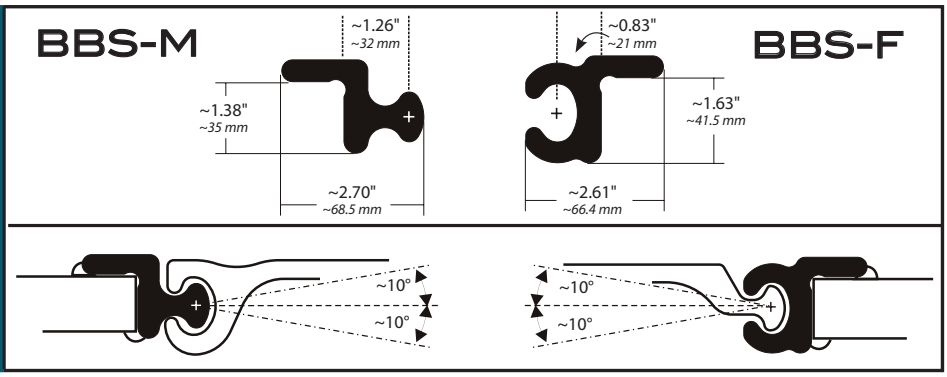
Specifications

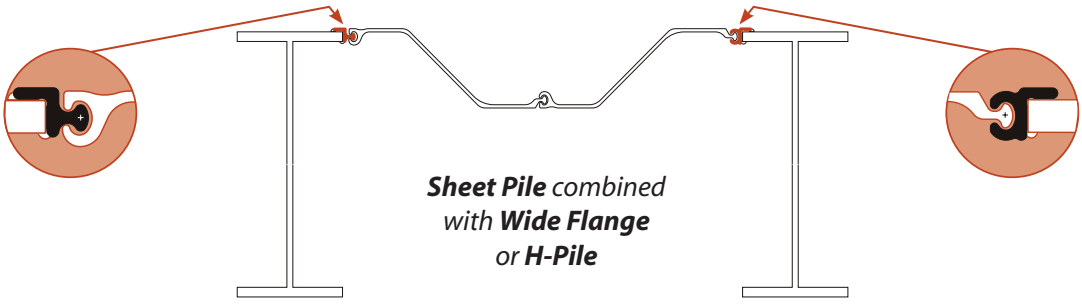
BBS-M/BBS-F

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)





Sheet Pile *combined with* ***Wide Flange*** *or* ***H-Pile***

ADDITIONAL INFORMATION
Specifications

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Quality Control

R.W. Conklin Steel follows ASTM specifications. Materials that ship directly from the mill is based on the manufacturers quality control specifications, found in their quality control manuals. When the material is sent to our inventories, it is inspected, stored properly, and shipped out as needed.

Certification statement

R.W. Conklin Steel receives a certification statement from the mill stating that the materials supplied, meet the requirements needed. We then certify that on the bill of lading with the following verbiage: "The materials itemized in this shipment are certified to meet the applicable specification requirements of the State Department of transportation and the requirements of ASTM."

Type of Structural Steel

R.W. Conklin Steel supplies: H-Pile, Sheet Pile, Wide Flange, Pipe Pile, Channel, Plate, Angle, Steel Tube, Rail Shapes, Structural Tee, Flats and Bars. This steel follows the AASHTO and ASTM guidelines, and is supplied in the necessary grade that required of each specific project. We supply any grade that the mills produce.

Traceability of Heat Numbers

R.W. Conklin Steel houses a database within its headquarters with traceability back to individual heat numbers, bill of lading, date shipped from the manufacturer, to what location it was delivered, and type of material. We also have access to each mill's database should there be an issue with our own database and we can not locate the appropriate information.

Identification for Cut-Off Steel

R.W. Conklin Steel transposes the heat number on any steel that is cut, so it does not lose it's identification.

Fabrication

R.W. Conklin Steel does a variety of light fabrication to meet the requirements of any given specific project. We employ a welder on-site, whom is certified.

Inventories, depots and sales offices throughout the United States and Canada

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