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.

Similar to H-Pile, it is an exciting time for Sheet Pile as well. Additional sizes for both Hot-Rolled, PZC Sheet Piling, and Cold-Formed Mega-Z (MSZ) Sheet Piling are being manufactured. Previously, PZC Sheet Piling was only available in PZC-13, 14, 18, 19, 25, 26, and 28. Now, PZC 37, 39, and 41 are available. These new sizes are comparable to PZ-40, and offer a higher Section Modulus and Moment of Inertia than the PZC-28 or the PZ-40. 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 is heated up red-hot and pushed through rollers that squeeze the metal, literally squishing it into a particular profile, depending on the shape of the rollers. 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)

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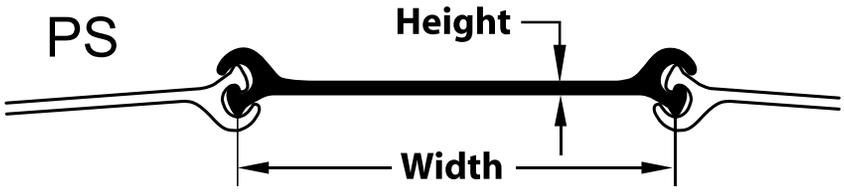
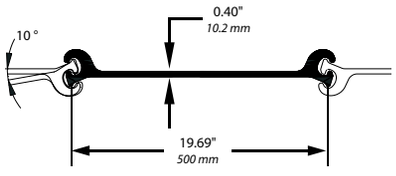
HOT ROLLED PS FLAT WEB SHEET PILING

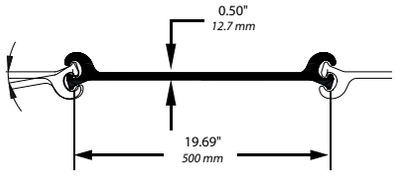
Specifications

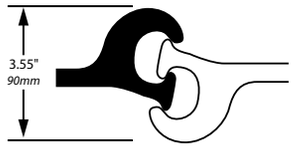


SECTION SIZE	NOMINAL WIDTH	DEPTH (HEIGHT)	WALL DEPTH (HEIGHT)	WEB THICKNESS	PER SINGLE SECTION: AREA	WEIGHT	MOMENT OF INERTIA	SECTION MODULUS	TOTAL SURFACE AREA	NOMINAL COATING AREA*	PER UNIT OF WALL: AREA	WEIGHT	MOMENT OF INERTIA	SECTION MODULUS
	in (mm)	in (mm)	in (mm)	in (mm)	in² (cm²)	lb/ft (kg/m)	in⁴ (cm⁴)	in³ (cm³)	ft²/ft (m²/m)	ft²/ft (m²/m)	in²/ft (cm²/m)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	in³/ft (cm³/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: YIELD STRENGTH (ksi)	(MPa)	INTERLOCK STRENGTH (k/in)	(kN/m)	MAXIMUM SWING**	PZ's: YIELD STRENGTH (ksi)	(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

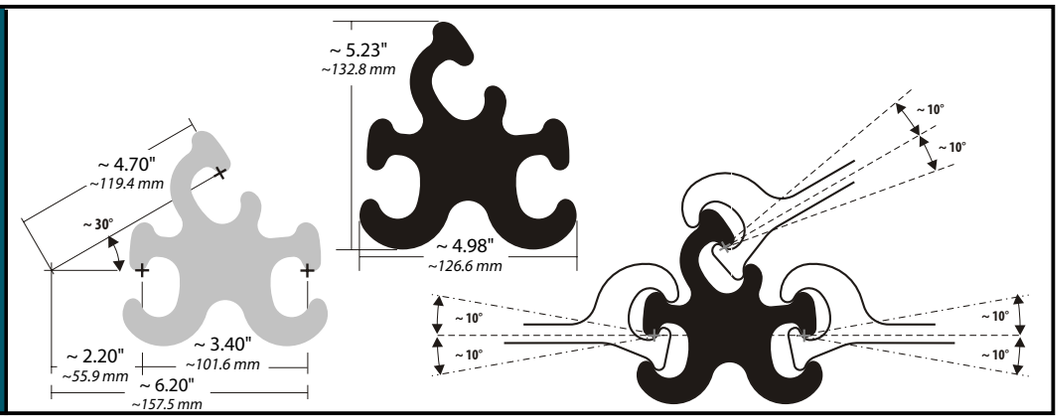
SWC 30 A

30° WYE PILE

WEIGHT
~ 37.89 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)



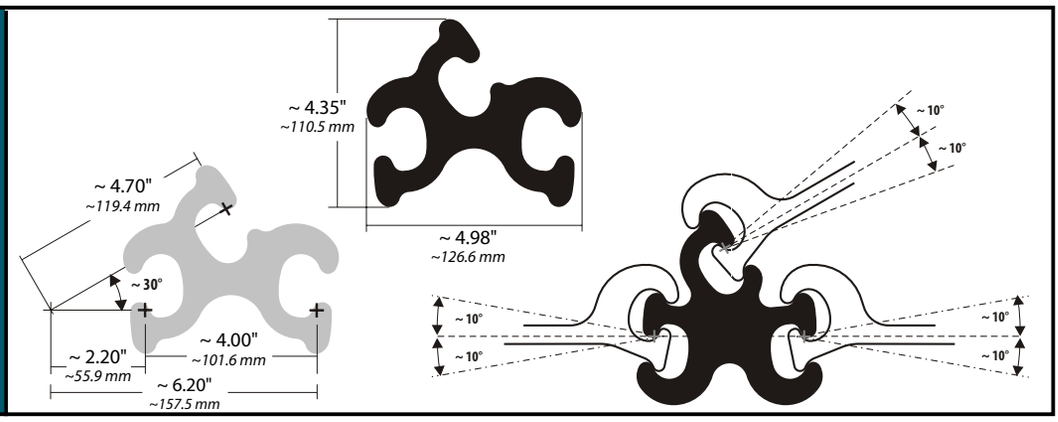
SWC 30 B

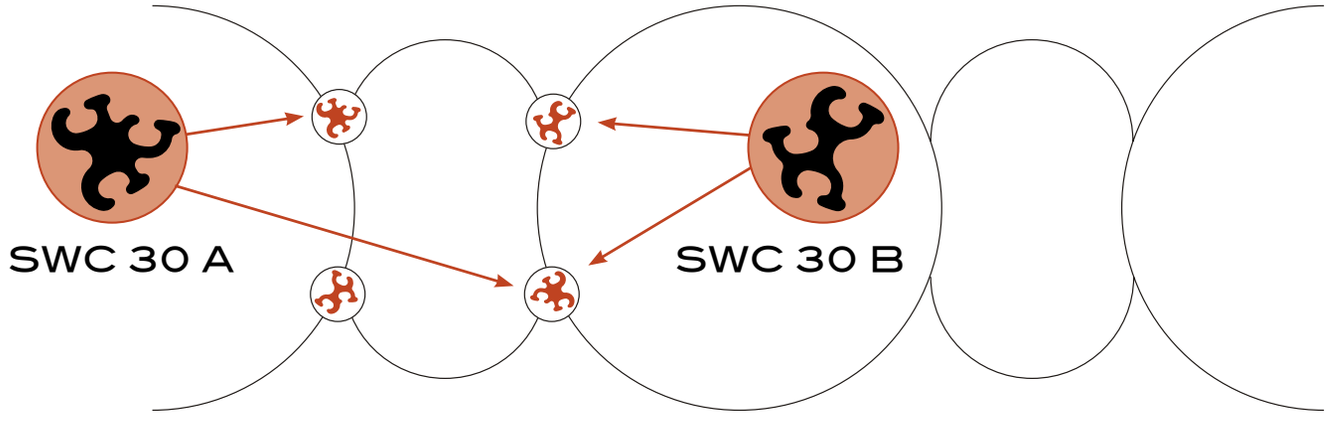
30° WYE PILE

WEIGHT
~ 28.83 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)





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PS FLAT WEB CONNECTORS

Specifications

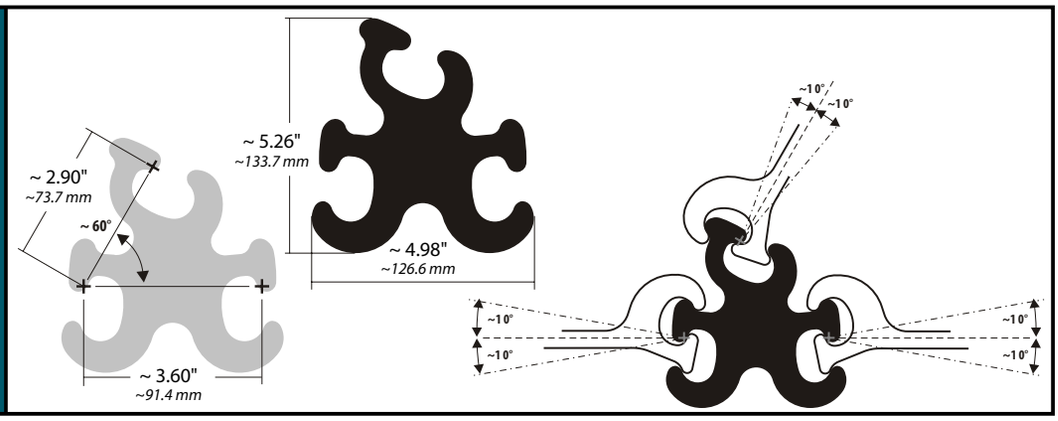
SWC 60 A

60° WYE PILE

WEIGHT
~ 41.11 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)



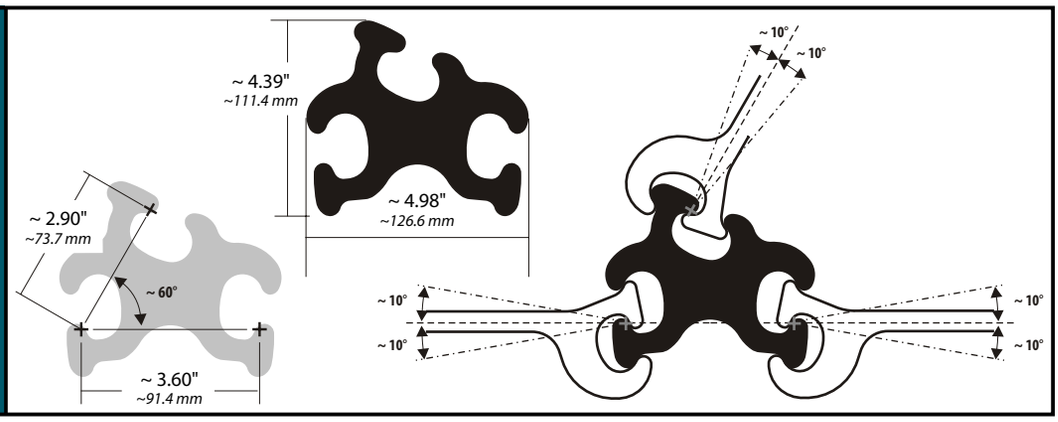
SWC 60 B

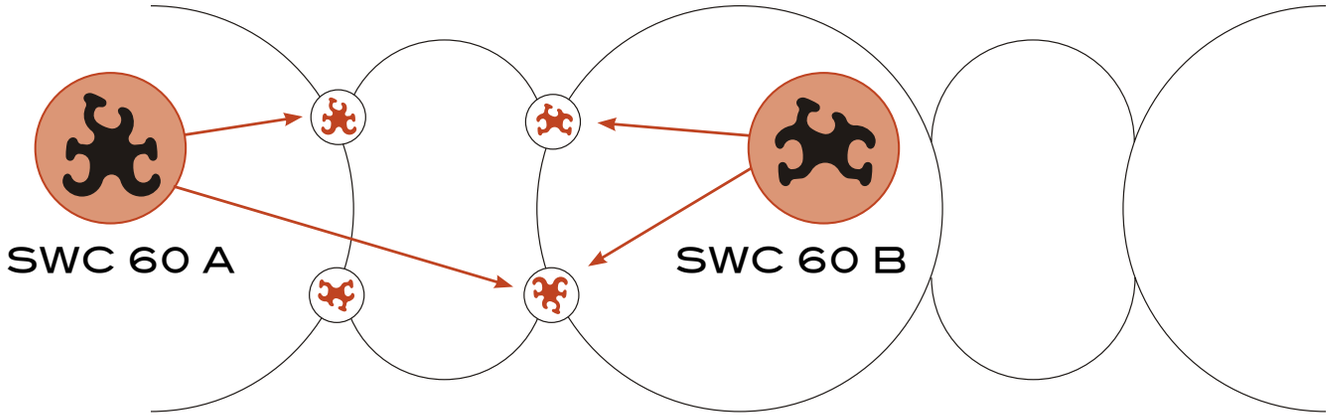
60° WYE PILE

WEIGHT
~ 33.46 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)





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PS FLAT WEB CONNECTORS

Specifications

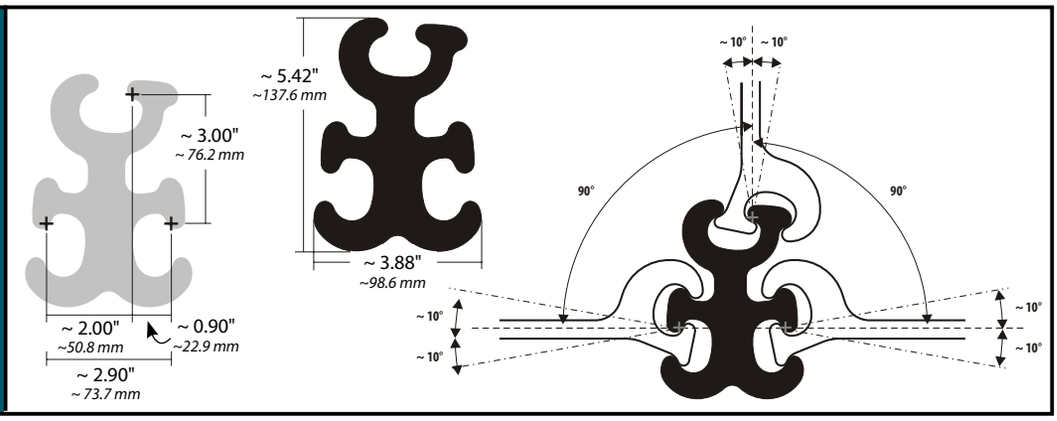
SWC 90 A

90° WYE PILE

WEIGHT
~ 35.82 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)



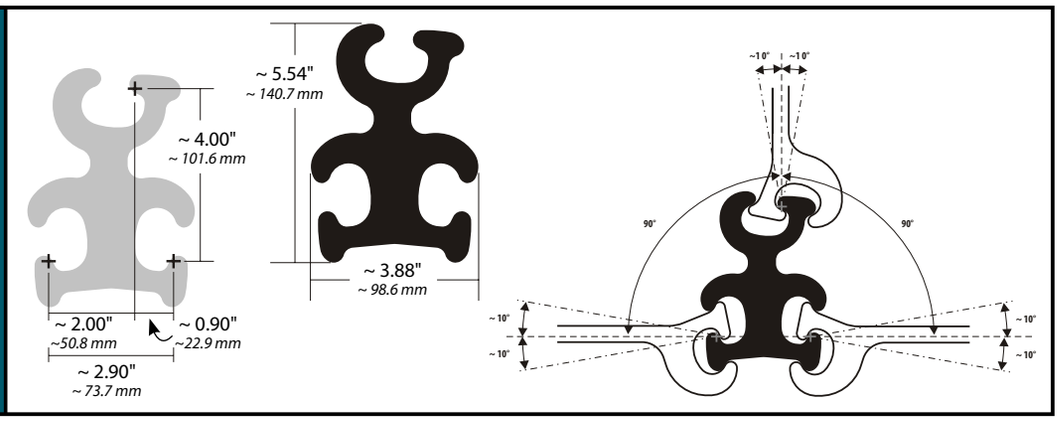
SWC 90 B

90° WYE PILE

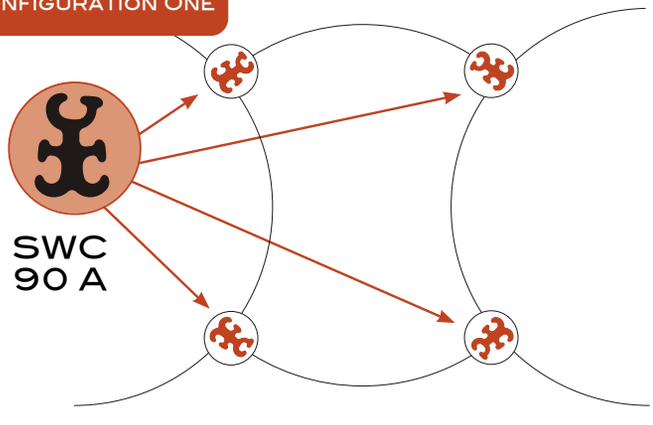
WEIGHT
~ 35.82 lb/ft

WORKS WITH
PS: 27.5, 31

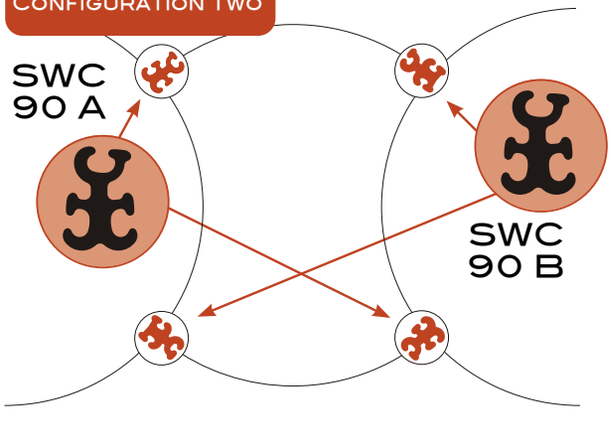
STEEL GRADE
ASTM Grade 50 (or better)



Configuration One



Configuration Two



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PS FLAT WEB CONNECTORS

Specifications

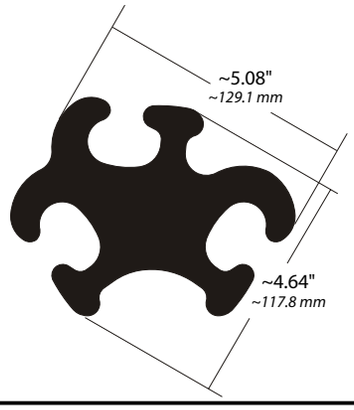
SWC 120

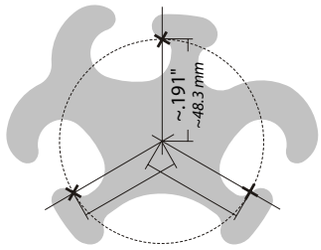
120° WYE PILE

WEIGHT
~ 38.29 lb/ft

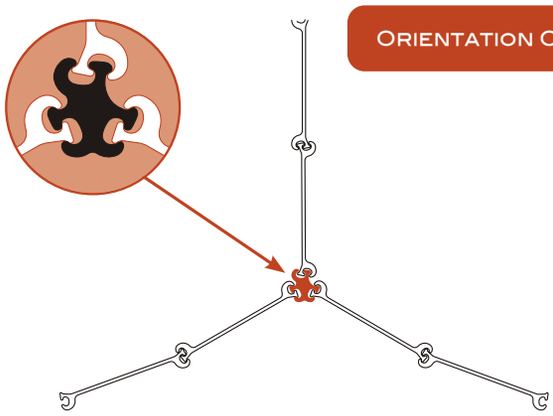
WORKS WITH
PS: 27.5, 31

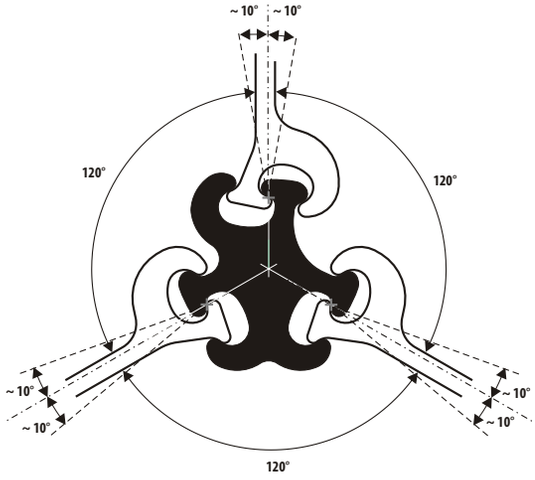
STEEL GRADE
ASTM Grade 50 (or better)



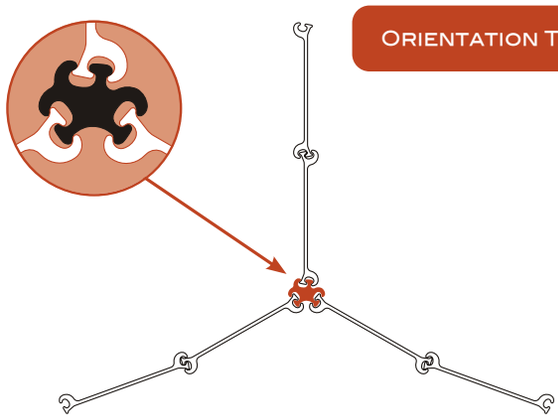


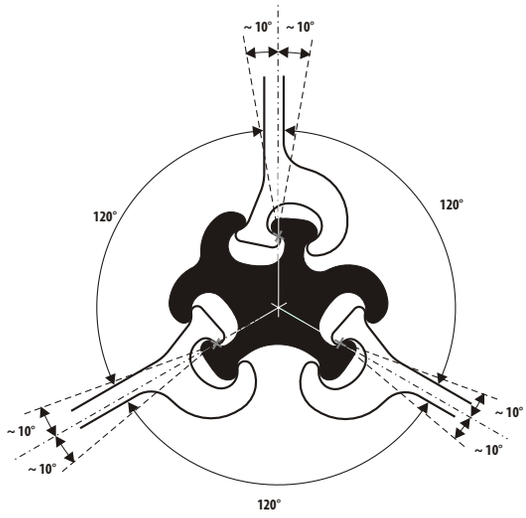
Orientation One





Orientation Two





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PS FLAT WEB CONNECTORS

Specifications

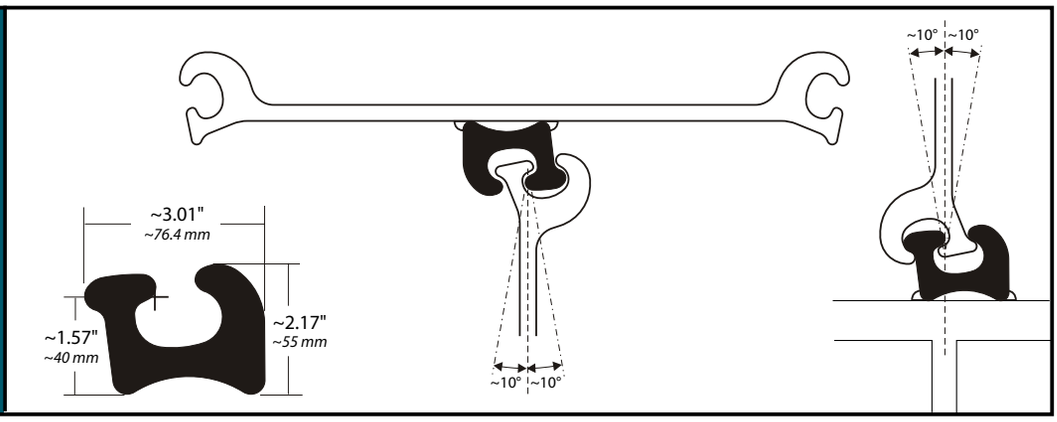
SWC

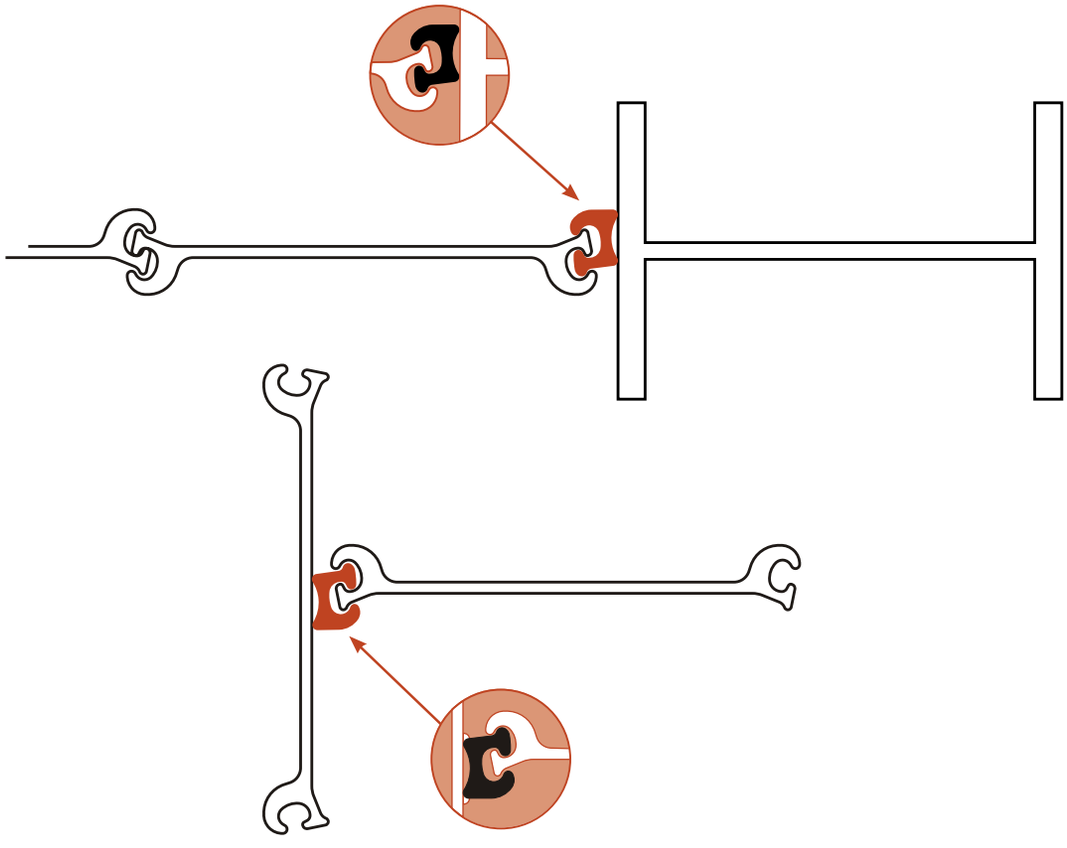
WELD-ON

WEIGHT
~ 12.34 lb/ft

WORKS WITH
PS: 27.5, 31

STEEL GRADE
ASTM Grade 50 (or better)





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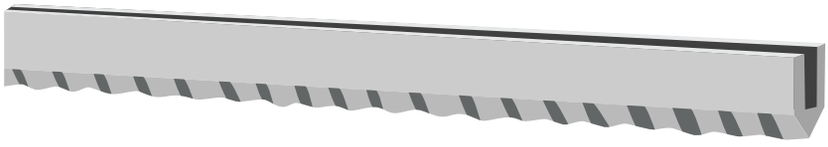
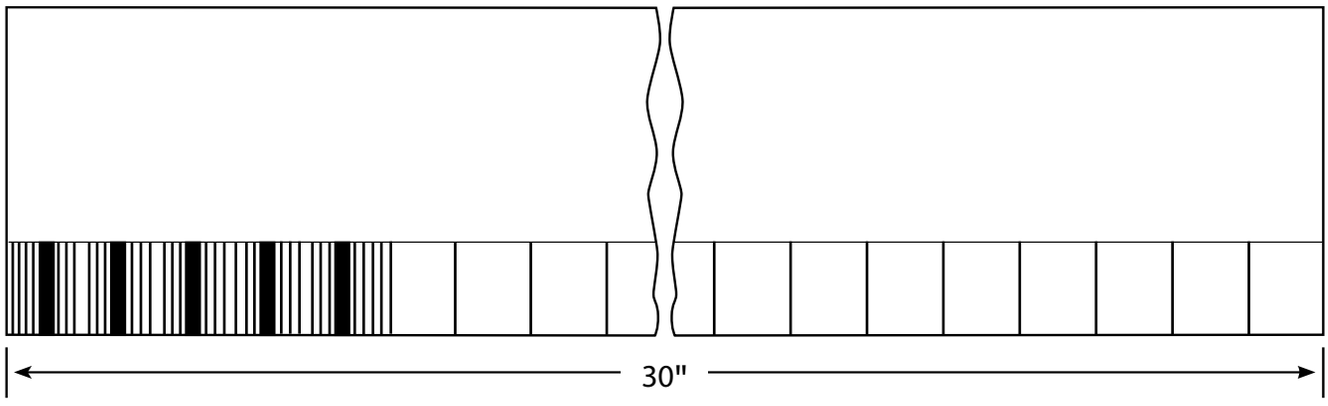
SHEET PILING PROTECTORS
Specifications

PS SHEET PILE PROTECTOR

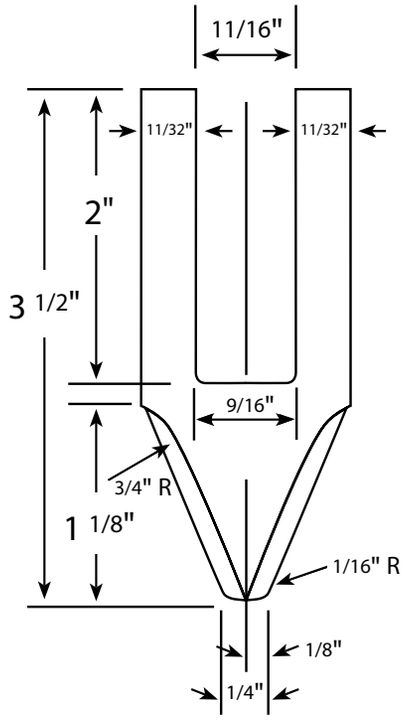


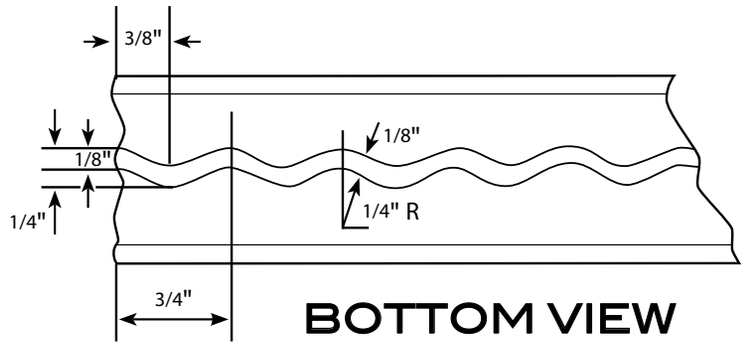
This sheet pile protector is available as a straight bar for fitting to any PS sheet pile section. It comes in 30-inch lengths for job site cutting and easy welding for full end protection.

SIDE VIEW



END VIEW





BOTTOM VIEW

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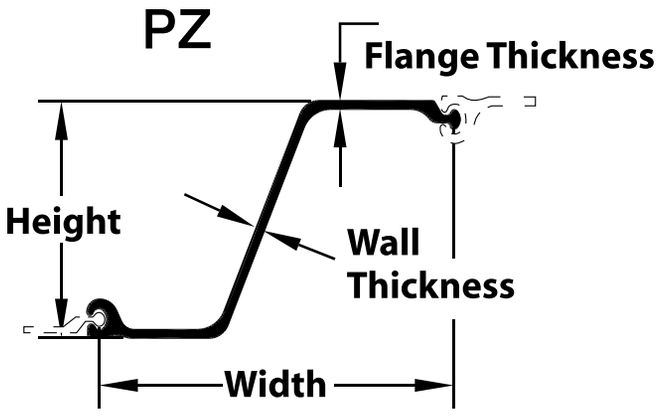
HOT ROLLED PZ SHEET PILING

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		PER SINGLE SECTION										PER UNIT OF WALL			
		NOMINAL WIDTH	WALL DEPTH	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)
	PZ 22	22.00 *559*	9.25 *235*	0.375 *9.5*	0.375 *9.5*	12.20 *78.7*	41.5 *61.8*	156.0 *6,495*	33.7 *555*	4.96 *1.51*	4.46 *1.36*	6.65 *140.9*	22.6 *110.6*	85.1 *11,620*	18.4 *990*
	PZ 27	18.00 *457*	12.10 *307*	0.375 *9.5*	0.375 *9.5*	12.20 *78.7*	41.5 *61.8*	281.0 *11,695*	46.4 *760*	4.96 *1.51*	4.46 *1.36*	8.13 *172.2*	27.7 *135.1*	187.3 *25,580*	31.0 *1,660*
	PZ 35	22.64 *575*	15.10 *384*	0.500 *12.7*	0.605 *15.4*	19.40 *125.2*	66.0 *98.2*	697.1 *29,015*	92.3 *1,515*	5.83 *1.78*	5.33 *1.62*	10.28 *217.7*	35.0 *170.8*	369.5 *50,455*	48.9 *2,635*
	PZ 40	19.69 *500*	16.40 *417*	0.500 *12.7*	0.600 *15.2*	19.28 *124.4*	65.6 *97.6*	824.8 *34,330*	100.6 *1,650*	5.83 *1.78*	5.33 *1.62*	11.75 *248.7*	40.0 *195.2*	502.7 *68,645*	61.3 *3,300*

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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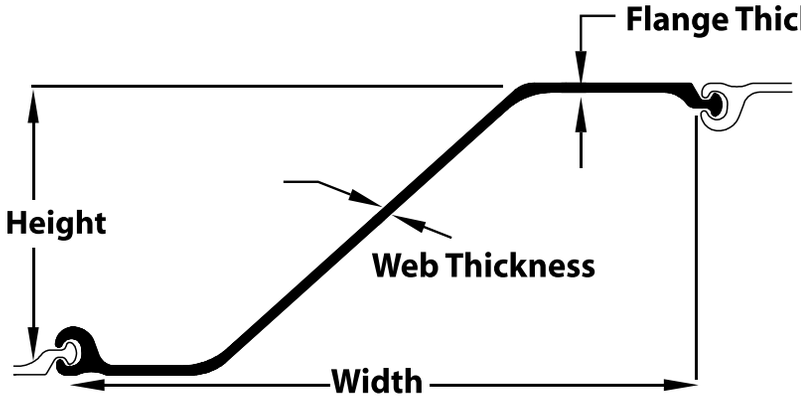
HOT ROLLED PZC SHEET PILING

Specifications

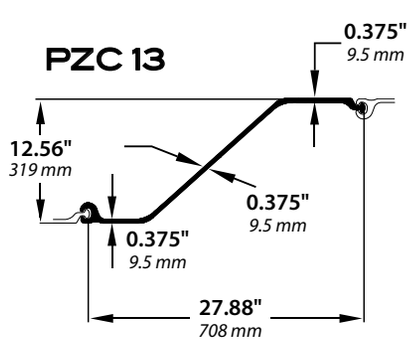


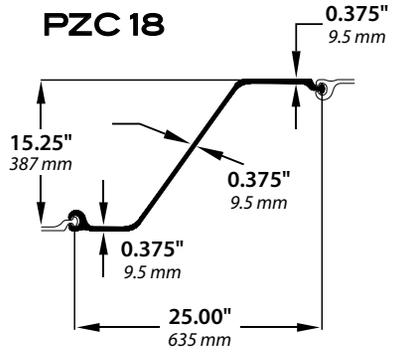
PZC sections are the "latest generation" of sheet piling profiles, and were developed to be lighter, wider, and stronger than the older traditional PZ sections. PZC profiles should always be the designer's first choice in order to provide the end user the most efficient retention wall with the most efficient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

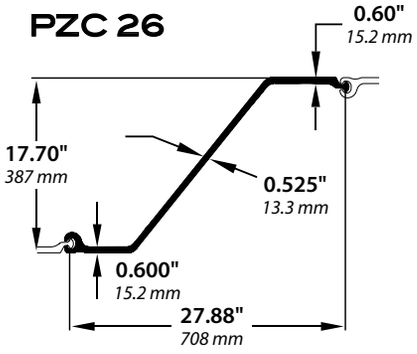
SECTION SIZE	PER SINGLE SECTION										PER UNIT OF WALL			
	NOMINAL WIDTH	WALL DEPTH (HEIGHT)	WEB THICKNESS	FLANGE THICKNESS	AREA	WEIGHT	MOMENT OF INERTIA	SECTION MODULUS	TOTAL SURFACE AREA	NOMINAL COATING AREA*	AREA	WEIGHT	MOMENT OF INERTIA	SECTION MODULUS
	in *(mm)*	in *(mm)*	in *(mm)*	in *(mm)*	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 *14,695*	56.2 *920*	6.10 *1.86*	5.60 *1.71*	6.38 *135.1*	21.7 *106.0*	152.0 *20,755*	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 *22,445*	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 *22,155*	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 *39,075*	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 *203*	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*	1,057.1 *44,000*	119.1 *1,950*	6.65 *203*	6.15 *1.87*	10.00 *211.6*	34.0 *166.1*	455.1 *62,145*	51.3 *2,755*
PZC 37	22.50 *572*	21.02 *534*	0.488 *12.4*	0.563 *14.3*	20.45 *132.0*	69.6 *103.6*	1349.2 *56,160*	128.4 *2,104*	6.65 *203*	6.15 *1.87*	10.91 *230.9*	37.1 *181.2*	719.6 *98,267*	68.5 *3,681*
PZC 39	22.50 *572*	21.05 *535*	0.525 *13.3*	0.600 *15.2*	21.76 *140.4*	74.0 *110.2*	1,428.9 *59,475*	135.6 *2,223*	6.65 *203*	6.15 *1.87*	11.61 *245.6*	39.5 *192.8*	762.1 *104,068*	72.3 *3,889*
PZC 41	22.50 *572*	21.09 *536*	0.561 *14.2*	0.636 *16.2*	23.03 *148.6*	78.4 *116.6*	1,506.8 *62,716*	142.7 *2,339*	6.65 *203*	6.15 *1.87*	12.28 *260.0*	41.8 *204.1*	803.6 *109,739*	76.1 *4,092*

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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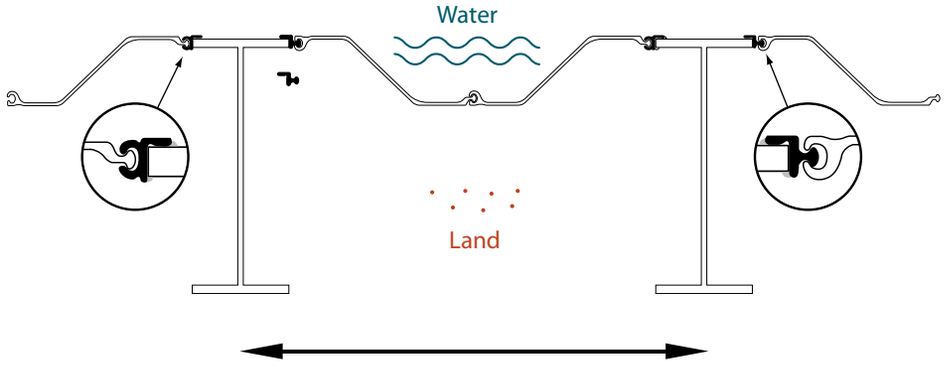
HOT ROLLED PZC SHEET PILING
Specifications

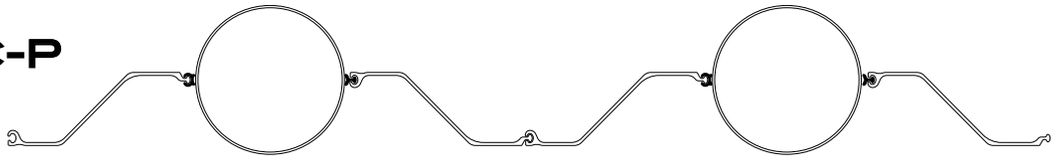
PZC HIGH SECTION MODULUS SYSTEMS

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.

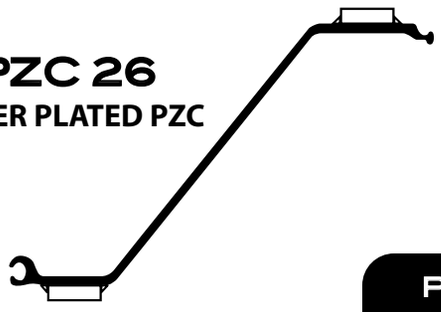
PZC-B



PZC-P



PZC 26
COVER PLATED PZC



COVER PLATED PZC 26
TO OBTAIN HIGHER SECTION MODULII

SECTION SIZE	NOMINAL WIDTH in (mm)	PLATE SIZE in (mm)	PER SINGLE SECTION: AREA in² (mm²)	PER SINGLE SECTION: WEIGHT lb/ft (kg/m)	PER SINGLE SECTION: TOTAL SURFACE AREA ft²/ lin. ft (m²/m)	PER SINGLE SECTION: NOMINAL COATING AREA* ft²/ lin. ft (m²/m)	PER UNIT OF WALL: PLATE FULL LENGTH lb/ft² (kg/m²)	PER UNIT OF WALL: PLATE HALF LENGTH lb/ft² (kg/m²)	PER UNIT OF WALL: MOMENT OF INERTIA in⁴/ lin. ft (cm⁴/m)	PER UNIT OF WALL: 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

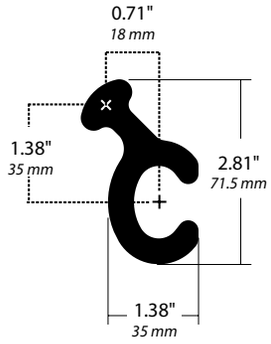
COLT

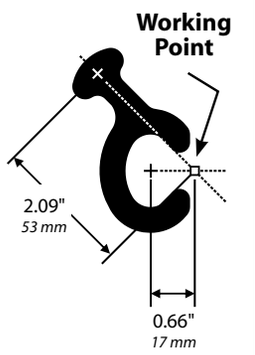
CORNER
~25° to ~65°

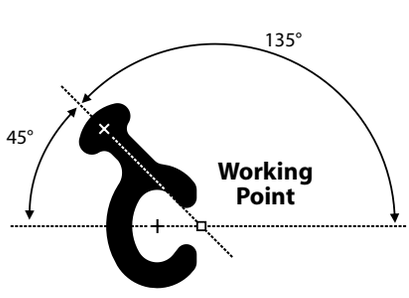
WEIGHT
~ 6.84 lb/ft

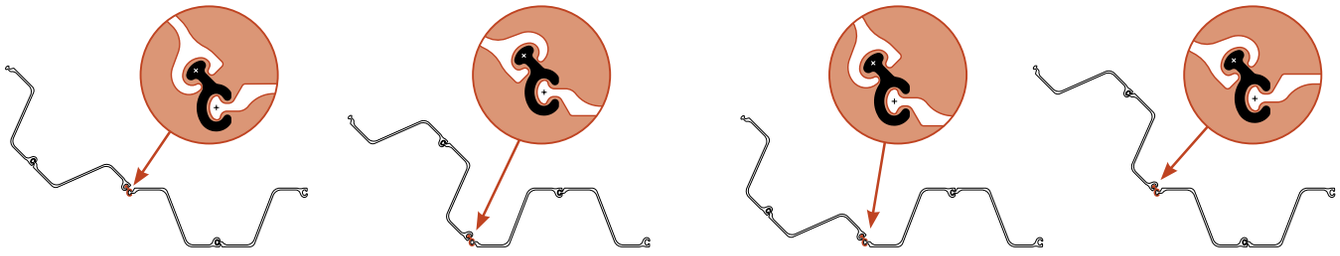
WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)









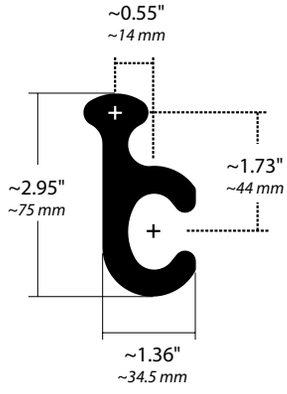
PZ 90

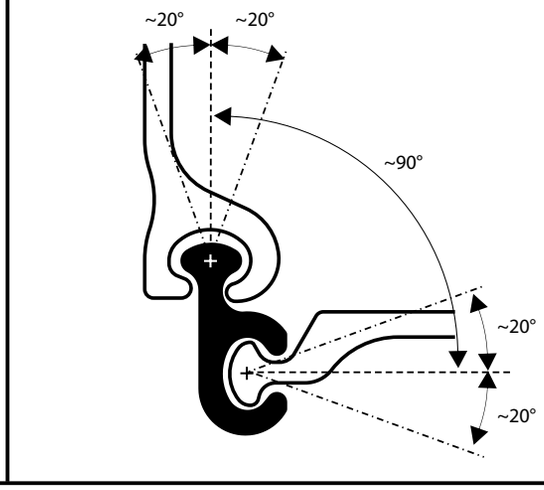
CORNER
~50° TO ~130°

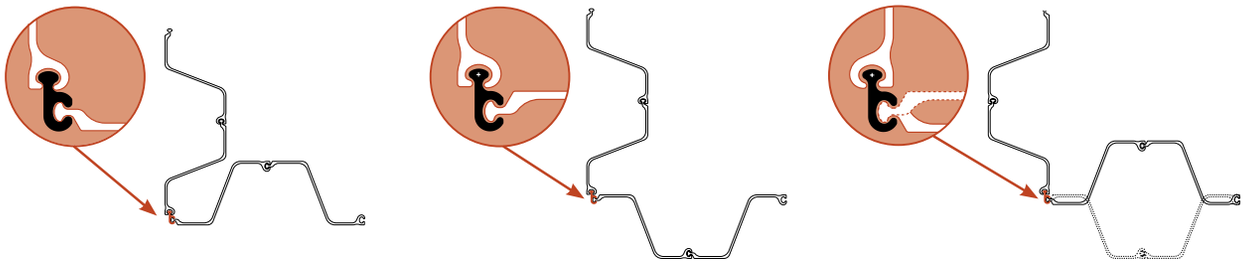
WEIGHT
~ 7.36 lb/ft

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

STEEL GRADE
ASTM Grade 50 (or better)







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PZ/PZC CONNECTORS

Specifications

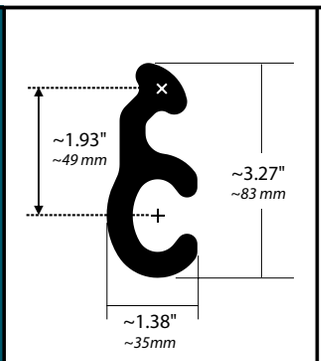
COBRA

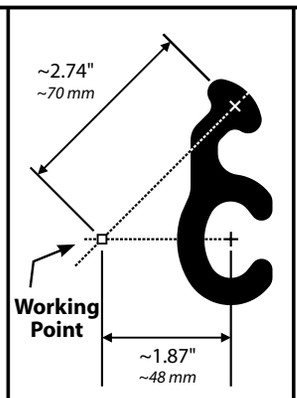
CORNER
~115° TO ~155°

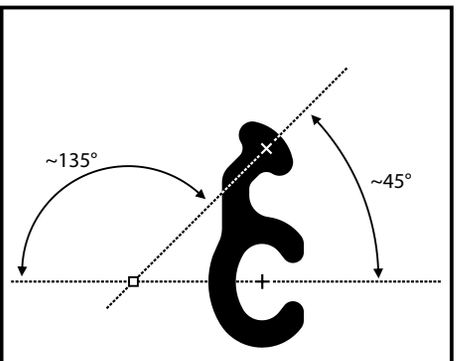
WEIGHT
~ 7.44 lb/ft

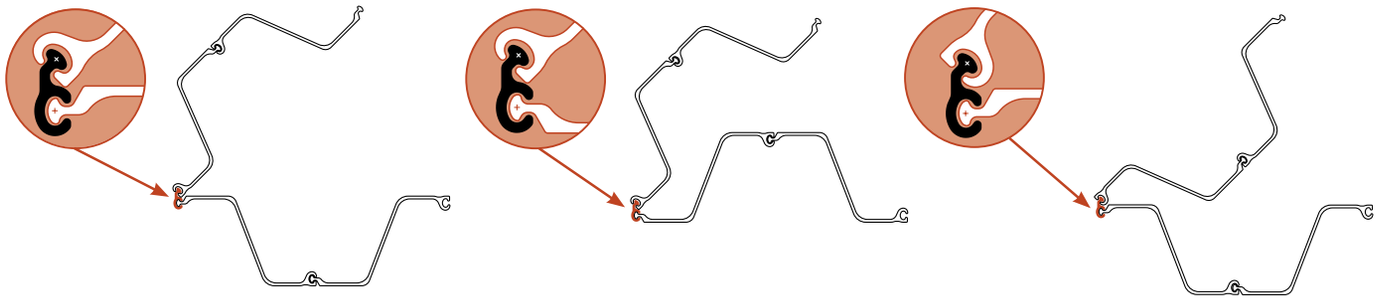
WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)









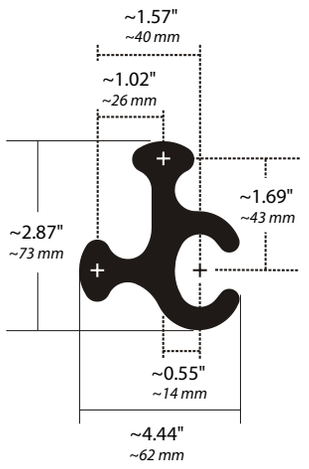
PZ TEE

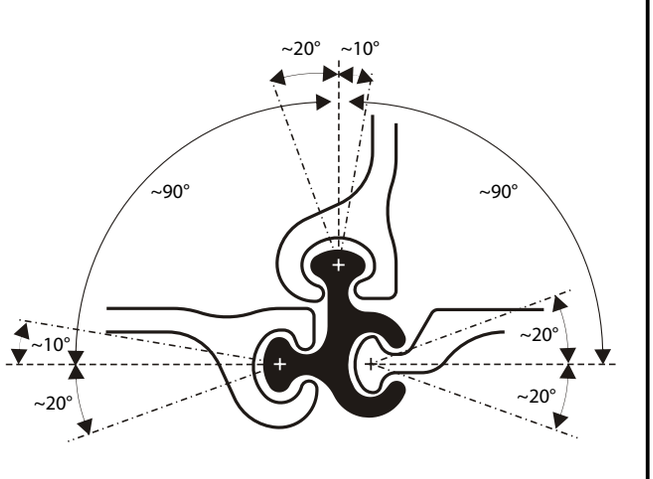
CORNER
~50° TO ~130°

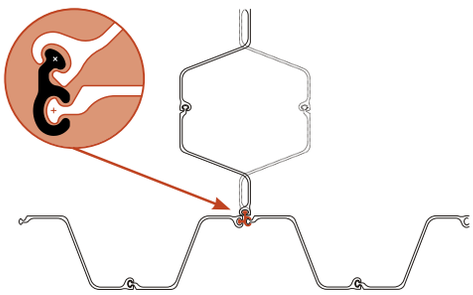
WEIGHT
~ 8.99 lb/ft

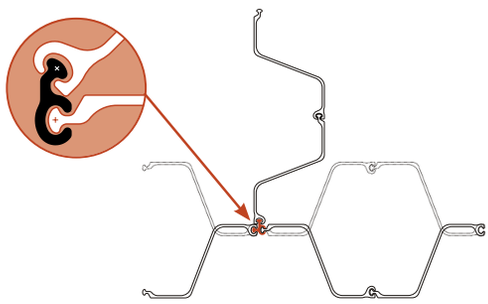
WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)









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PZ/PZC CONNECTORS

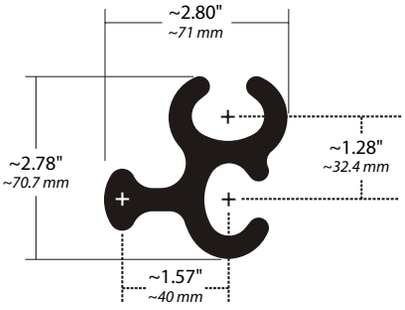
Specifications

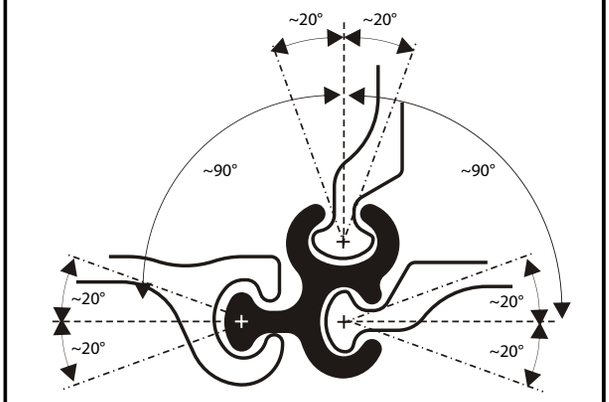
PZT-S

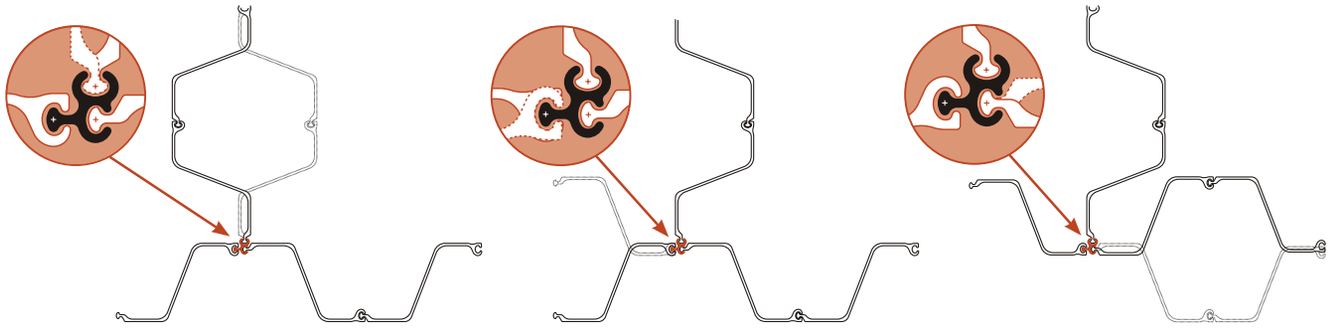
WEIGHT
~ 9.66 lb/ft

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

STEEL GRADE
ASTM Grade 50 (or better)







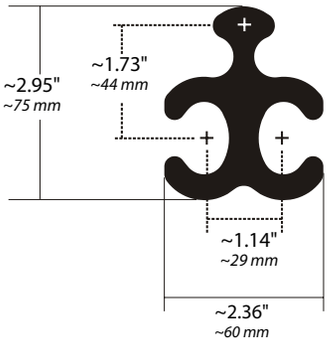
JOKER

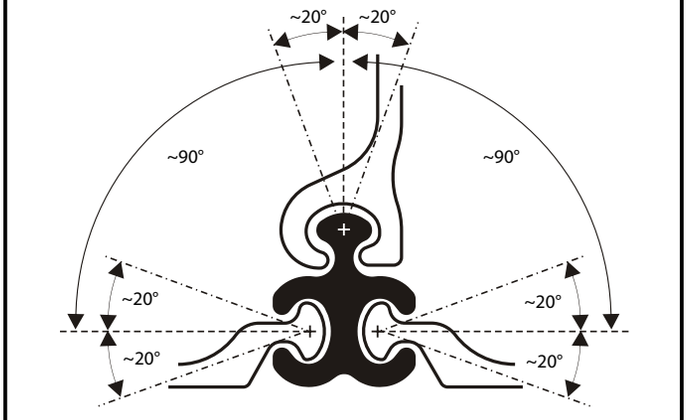
CORNER
~50° TO ~130°

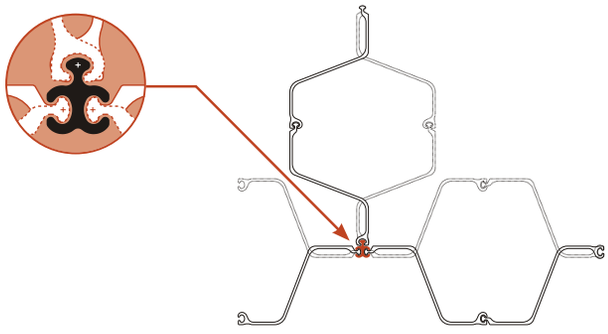
WEIGHT
~ 10.86 lb/ft

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

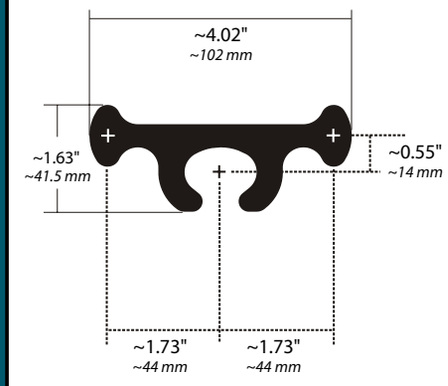
BULLHEAD

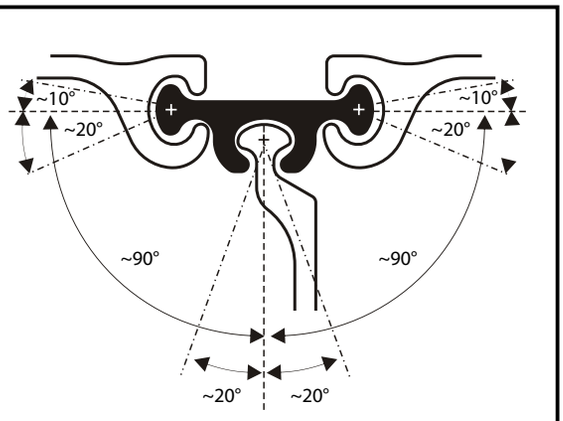
CORNER
~50° to ~130°

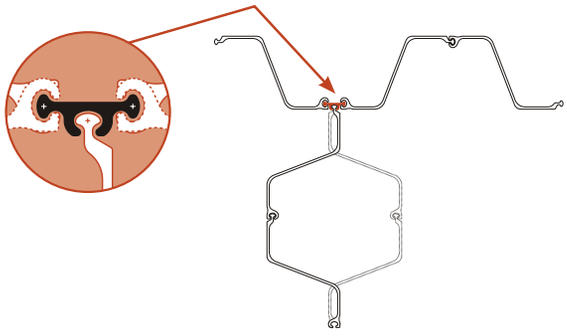
WEIGHT
~ 9.72 lb/ft

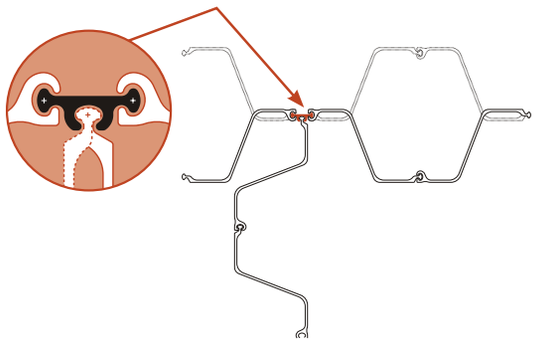
WORKS WITH
PZ: 22, 27, 35, 40
PZC: 12, 13, 14, 17, 18, 19, 25, 26, 28

STEEL GRADE
ASTM Grade 50 (or better)









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PZ/PZC + PIPE CONNECTORS

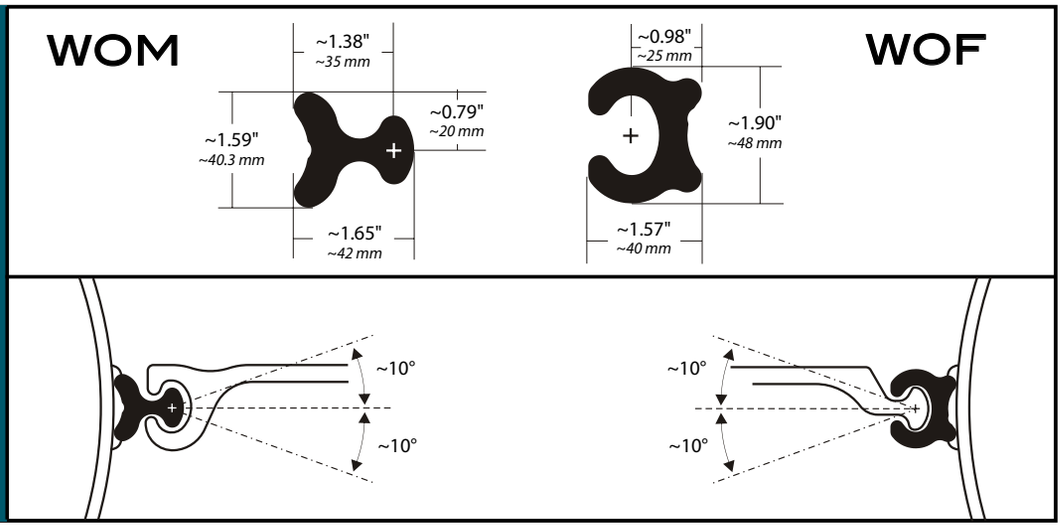
Specifications

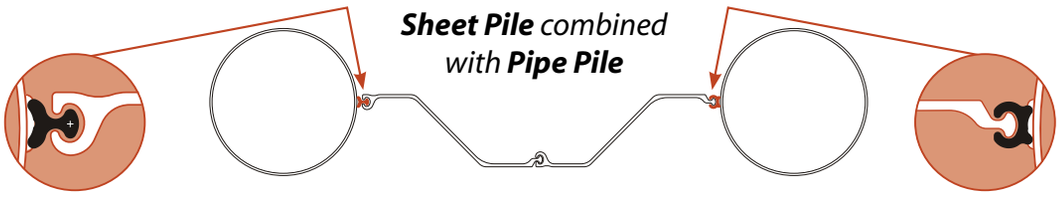
WOM/WOF

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)



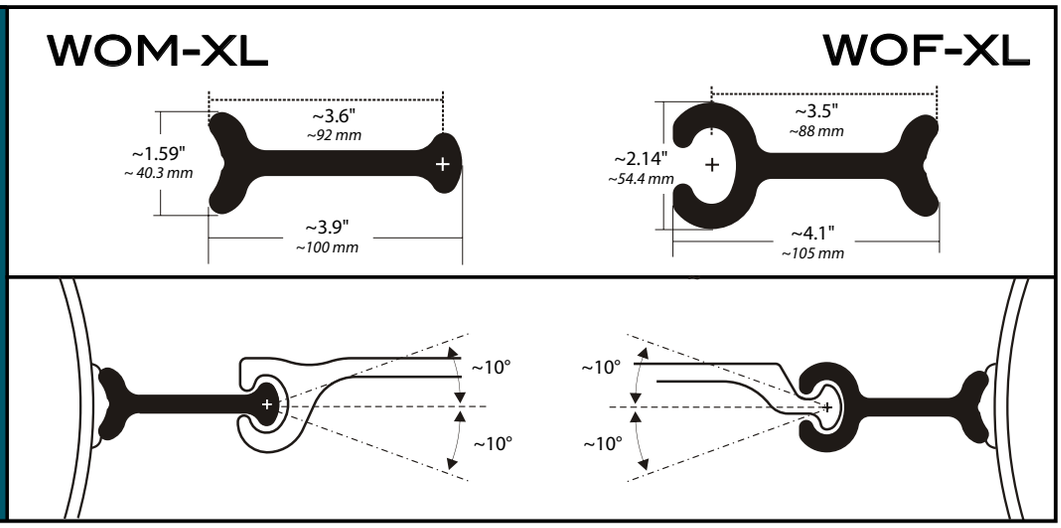


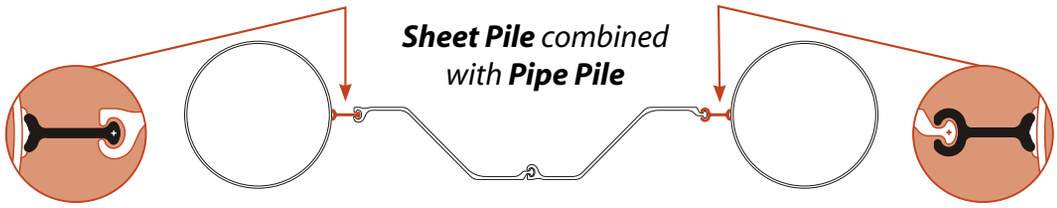
WOM-XL/WOF-XL

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

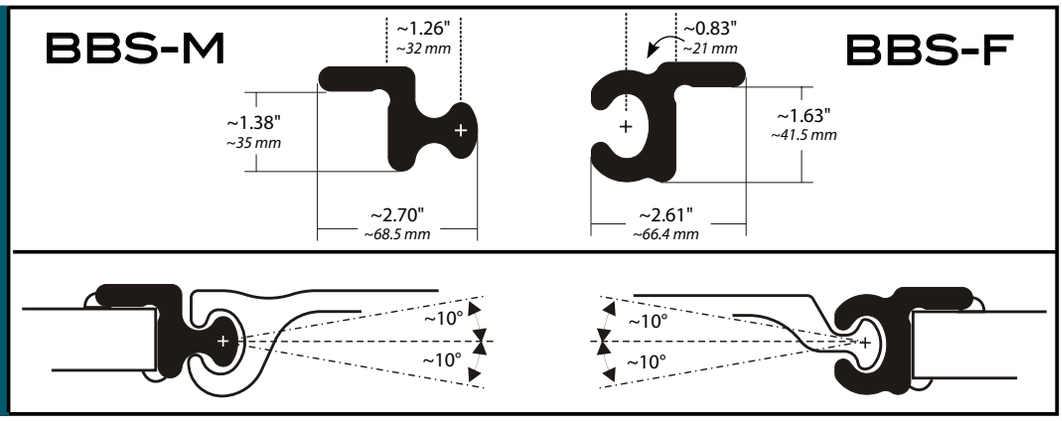
Specifications

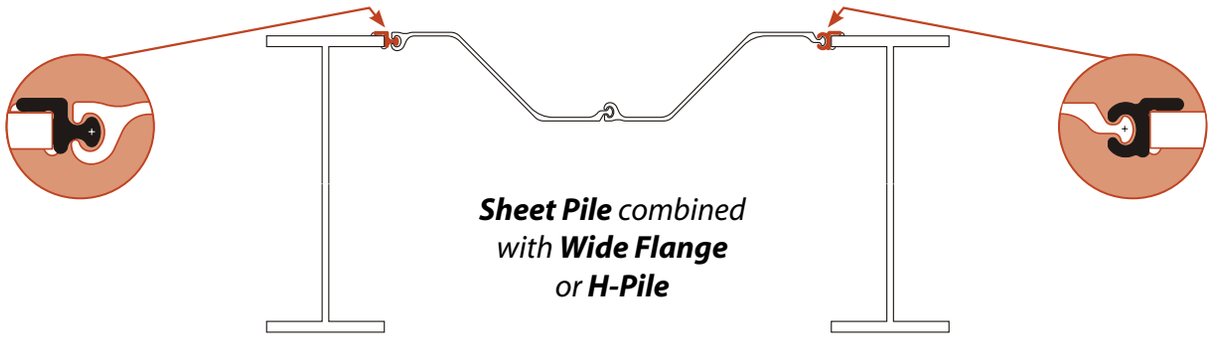
BBS-M/BBS-F

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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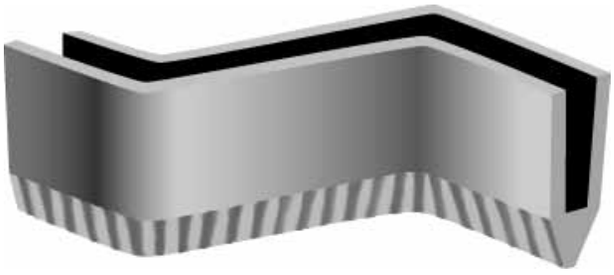
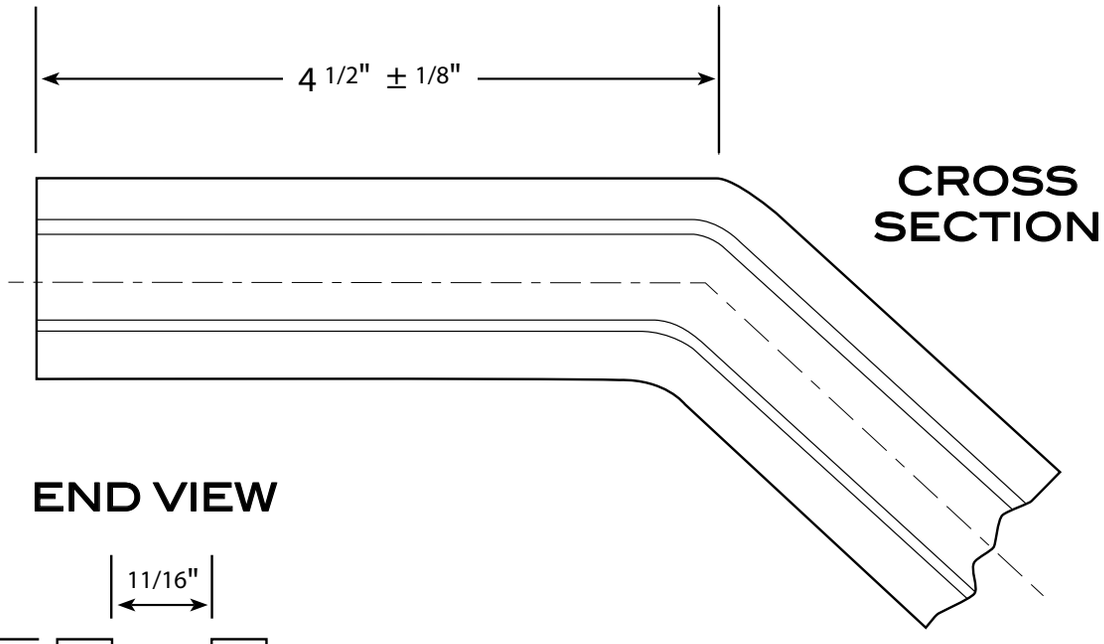
SHEET PILING PROTECTORS
Specifications



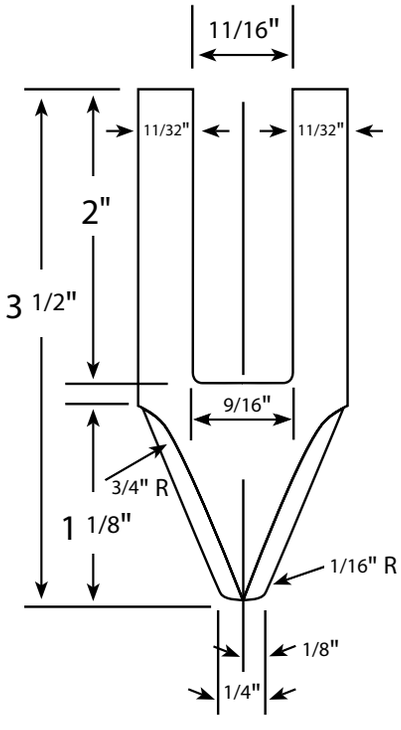
PZC/PZ SHEET PILE PROTECTOR

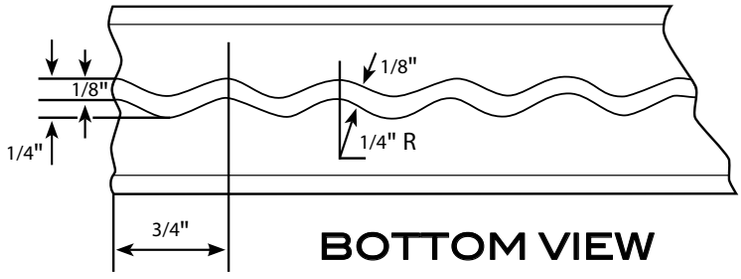
The sheet protector shoe is available as a one-piece attachment for the popular Z sheet pile sections. It fits exactly-no cutting, no small pieces, no delays. Just tack weld to sheet piles and drive.



CROSS SECTION

END VIEW





BOTTOM VIEW

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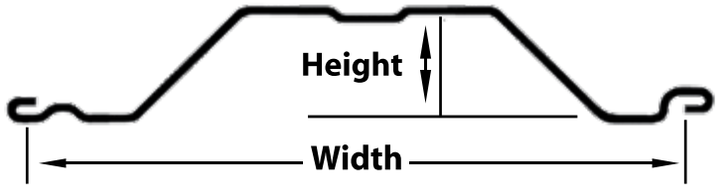
COLD ROLLED SHEET PILING

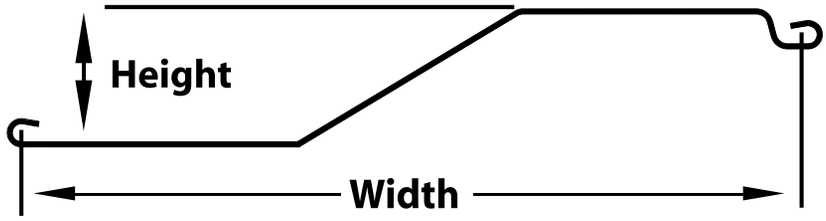
Specifications



LIGHTWEIGHT

NOMINAL WIDTH in (mm)	NOMINAL HEIGHT in (mm)	CENTRAL SECTION Gauge	NOMINAL THICKNESS in	WEIGHT (SQ. FT.) lb/sq ft	WEIGHT (LIN. FT.) lb/lin ft	SECTION MODULUS in^3 (ft. wall)	MOMENT OF INERTIA in^4 (ft. wall)	COATING AREA sq ft/lin ft
18	3.12	10-10	.134	7.2	10.8	2.2	3.5	3.7
18	3.12	8-8	.164	8.8	13.2	2.62	4.2	3.7
18	3.12	7-7	.179	9.6	14.4	2.8	4.4	3.7
18	3.12	6-6	.194	10.5	15.8	3.0	4.9	3.7
18	3.12	5-5	.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



ZEE LIGHTWEIGHT

NOMINAL WIDTH in	NOMINAL HEIGHT in	SECTION TYPE	NOMINAL THICKNESS in	WEIGHT (SQ. FT.) lb/sq ft	WEIGHT (LIN. FT.) lb/lin ft	SECTION MODULUS in^3 (ft. wall)	MOMENT OF INERTIA in^4 (ft. wall) PER PILE	MOMENT OF INERTIA in^4 (ft. wall) PER FT OF PILE	COATING AREA sq ft/lin ft
24	4.5	LZ-8	.164	8.3	16.6	3.6	16.8	8.1	4.75
24	4.5	LZ-7	.179	9.1	18.2	3.9	18.4	8.9	4.75
24	4.5	LZ-5	.209	10.6	21.2	4.6	21.5	10.4	4.75
24	4.5	LZ-3	.239	12.3	24.6	5.2	24.5	11.8	4.75
24	4.5	LZ-250	.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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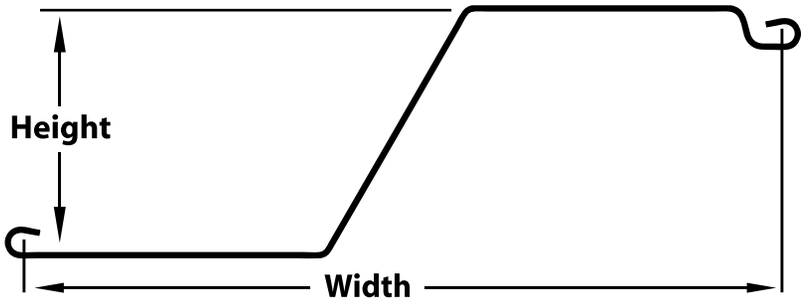
COLD ROLLED SHEET PILING

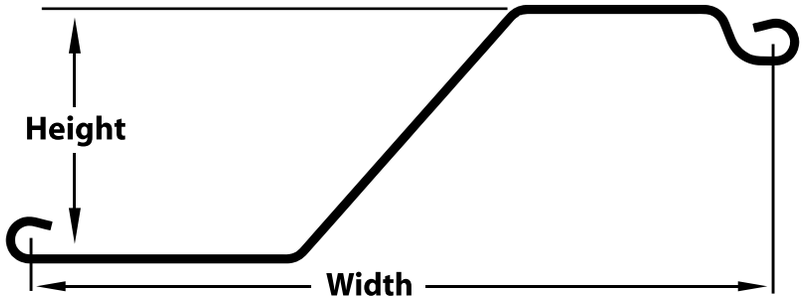
Specifications



INTERMEDIATE LIGHTWEIGHT

NOMINAL WIDTH in	NOMINAL HEIGHT in	SECTION TYPE	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
22	7.5	SZ-10	.164	9.4	16.6	7.3	50.3	27.4	4.75
22	7.5	SZ-11	.179	10.3	18.2	7.9	54.7	29.8	4.75
22	7.5	SZ-12	.209	12.0	21.2	9.2	63.9	34.8	4.75
22	7.5	SZ-14	.239	13.5	24.4	10.4	73.1	39.9	4.75
22	7.5	SZ-15	.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

NOMINAL WIDTH in	NOMINAL HEIGHT in	SECTION TYPE	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
26.75	9.4	SZ-14.5	.250	14.5	32.4	13.0	136.9	61.49	5.75
26.75	9.4	SZ-14.5RU	.270	15.7	35.1	14.0	147.8	66.40	5.75
26.75	9.4	SZ-18	.312	18.1	40.4	16.2	171.1	76.83	5.75
26.75	9.4	SZ-20	.340	19.8	44.1	17.5	185.6	83.37	5.75
26.75	9.4	SZ-21	.350	20.3	45.3	18.1	191.5	86.00	5.75
26.75	9.4	SZ-21	.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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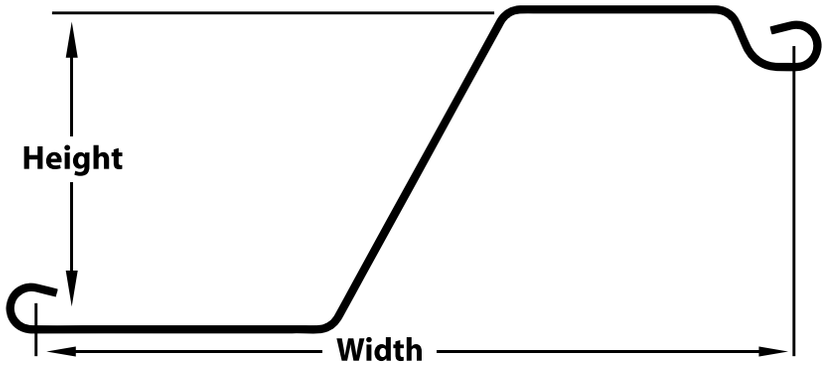
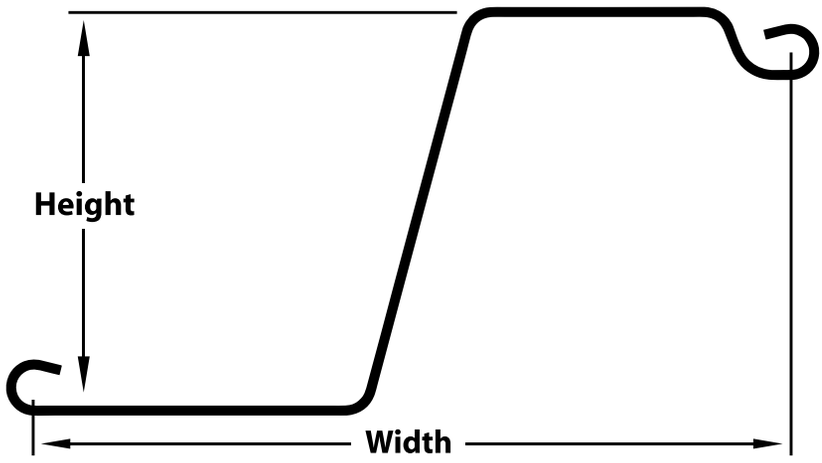


MID-HEAVY

NOMINAL WIDTH	NOMINAL HEIGHT	SECTION TYPE	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
24.5	10.75	SZ-250	.250	15.9	32.4	16.6	182.2	89.42	5.75
24.5	10.75	SZ-313	.312	19.9	40.4	20.6	227.3	111.53	5.75
24.5	10.75	SZ-340	.340	21.5	44.1	22.4	247.5	121.45	5.75
24.5	10.75	SZ-350	.350	22.1	45.3	22.9	254.0	124.62	5.75
24.5	10.75	SZ-375	.375	23.5	48.6	24.5	272.2	133.55	5.75

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



HEAVYWEIGHT

NOMINAL WIDTH	NOMINAL HEIGHT	SECTION TYPE	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
22	12.25	SZ-222	.312	22.1	40.4	26.7	299.0	163.09	5.75
22	12.25	SZ-24	.340	24.1	44.1	29.0	325.5	177.52	5.75
22	12.25	SZ-25	.350	24.8	45.3	29.7	334.1	181.91	5.75
22	12.25	SZ-27	.375	26.6	48.6	32.0	358.0	195.18	5.75

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

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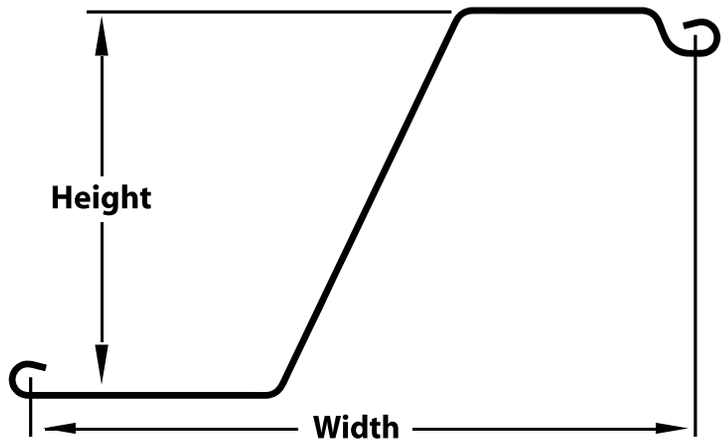
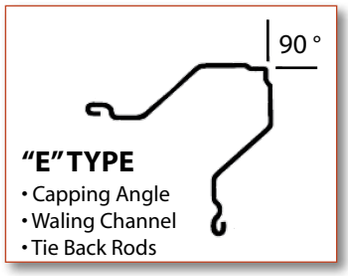


MEGA Z

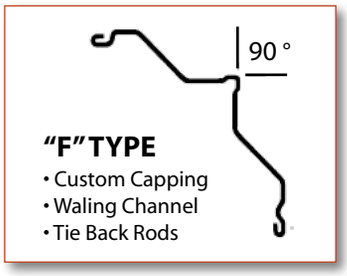
NOMINAL WIDTH	NOMINAL HEIGHT	SECTION TYPE	NOMINAL THICKNESS	WEIGHT (SQ. FT.)	WEIGHT (LIN. FT.)	SECTION MODULUS	MOMENT OF INERTIA		COATING AREA
in	in		in	lb/sq ft	lb/lin ft	in^3 (ft. wall)	in^4 (ft. wall) PER PILE	in^4 (ft. wall) PER FT OF PILE	sq ft/lin ft
29	17.2	MSZ-312	.313	20.58	49.72	34.45	714.12	295.65	7.51
29	17.2	MSZ-340	.340	22.40	54.10	37.46	777.92	322.06	7.52
29	17.2	MSZ-350	.350	23.05	55.69	38.48	799.75	331.10	7.53
29	17.2	MSZ-375	.375	24.70	59.67	41.14	856.69	354.67	7.54
29	17.2	MSZ-406	.406	26.74	64.60	44.53	929.53	384.83	7.54

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

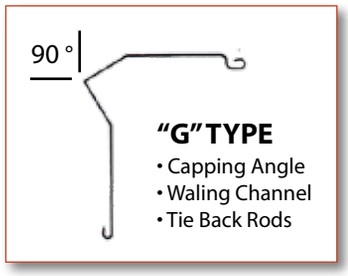
AVAILABLE BENT CORNERS



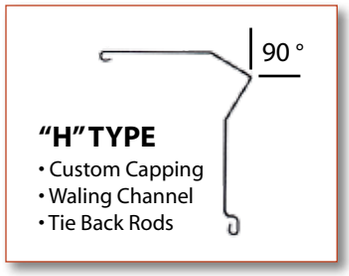
"E" TYPE
- Capping Angle
- Waling Channel
- Tie Back Rods



"F" TYPE
- Custom Capping
- Waling Channel
- Tie Back Rods



"G" TYPE
- Capping Angle
- Waling Channel
- Tie Back Rods



"H" TYPE
- Custom Capping
- Waling Channel
- Tie Back Rods

Corners may be bent to any degree up to 90°

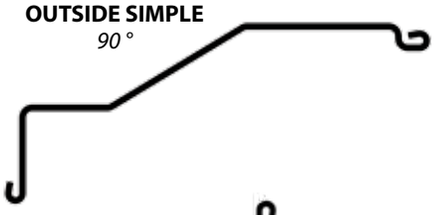
Outside corners available in all Zee piling sections

Inside corners available in Light Zee, Intermediate

Light Zee and Intermediate Heavy Zee

Custom Capping, Tie Backs, Waling, Fabricated Corners, Tees and Slip Joints Are Available

OUTSIDE SIMPLE
90 °



OUTSIDE COMPLICATED
90 °

INSIDE SIMPLE
90 °

INSIDE COMPLICATED
90 °

All corners can be bent up to 90°. All piling sections can be bent to make outside corners or inside corners on either lock leg or center-of-web corners. Lock leg corners can be located anywhere between 3-inches and 8-inches from the centerline of the lock. Corners in the web area must be located at the center of the web.