

PS/AS

PS/AS Hot Rolled Steel Sheet Pile



SECTION	Width (w) in (mm)	Web (t _w) in (mm)	Maximum Interlock Strength k/in (kN/m)	Minimum Cell Diameter [*] ft (m)	Cross Sectional Area in ² /ft (cm ² /m)	WEIGHT		Elastic Section Modulus in ³ /sheet (cm ³ /sheet)	Moment of Inertia in ⁴ /sheet (cm ⁴ /sheet)	COATING AREA	
						Pile lb/ft (kg/m)	Wall lb/ft ² (kg/m ²)			Both Sides ft ² /ft of single (m ² /m)	Wall Surface ft ² /ft ² of wall (m ² /m ²)
PS 27.5	19.69 500	0.4 10.2	20 3500	30 9.14	8.09 171.2	45.1 67.1	27.5 134.3	3.3 54	5.3 221	3.65 1.11	1.11 1.11
PS 31	19.69 500	0.5 12.7	20 3500	30 9.14	9.12 193.0	50.9 75.7	31.0 151.4	3.3 54	5.3 221	3.65 1.11	1.11 1.11

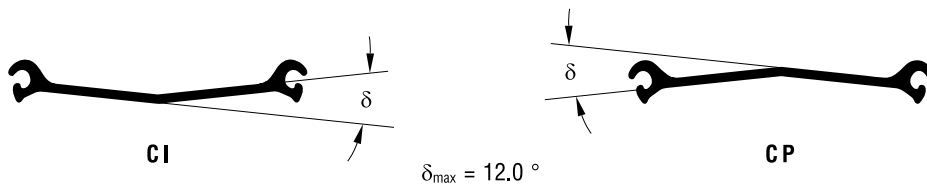
* Minimum cell diameter cannot be guaranteed for piles over 65 feet (19.81 m) in length, or if piles are spliced. 58 piles are needed to make a 30 foot diameter cell.

SECTION	Width* (w) in (mm)	Web (t _w) in (mm)	Maximum Interlock Strength k/in (kN/m)	Allowable Interlock Rotation** (α) Degrees	Cross Sectional Area in ² /ft (cm ² /m)	WEIGHT		Elastic Section Modulus in ³ /sheet (cm ³ /sheet)	Moment of Inertia in ⁴ /sheet (cm ⁴ /sheet)	COATING AREA	
						Pile lb/ft (kg/m)	Wall lb/ft ² (kg/m ²)			Both Sides ft ² /ft of single (m ² /m)	Wall Surface ft ² /ft ² of wall (m ² /m ²)
AS 500 9.5	19.69 500	0.375 9.5	20.0 3500	4.5	7.71 163.2	43.01 64.0	26.22 128	2.3 37	4.1 170	3.77 1.15	1.15 1.15
AS 500 11.0	19.69 500	0.433 11.0	22.8 4000	4.5	8.50 180.0	47.46 70.6	28.88 141	3.0 49	4.5 186	3.77 1.15	1.15 1.15
AS 500 12.0	19.69 500	0.472 12.0	28.5 5000	4.5	8.94 189.2	49.93 74.3	30.52 149	3.1 51	4.7 196	3.77 1.15	1.15 1.15
AS 500 12.5	19.69 500	0.492 12.5	31.4 5500	4.5	9.19 194.5	51.27 76.3	31.34 153	3.1 51	4.8 201	3.77 1.15	1.15 1.15
AS 500 12.7	19.69 500	0.500 12.7	31.4 5500	4.5	9.28 196.4	51.81 77.1	31.54 154	3.1 51	4.9 204	3.77 1.15	1.15 1.15
AS 500 13.0	19.69 500	0.512 13.0	34.2 6000	4.5	9.51 201.2	53.09 79.0	32.36 158	3.3 54	5.1 213	3.77 1.15	1.15 1.15

* Use 503 mm for template construction and layout drawings.

** The mill guarantees 4.5 degrees of interlock rotation for piles < 20 m. in length. For piles > 20 m. in length, the guaranteed rotation is 4 degrees.

Pre-bent piles are available to achieve a tighter radius in the cells and arcs.



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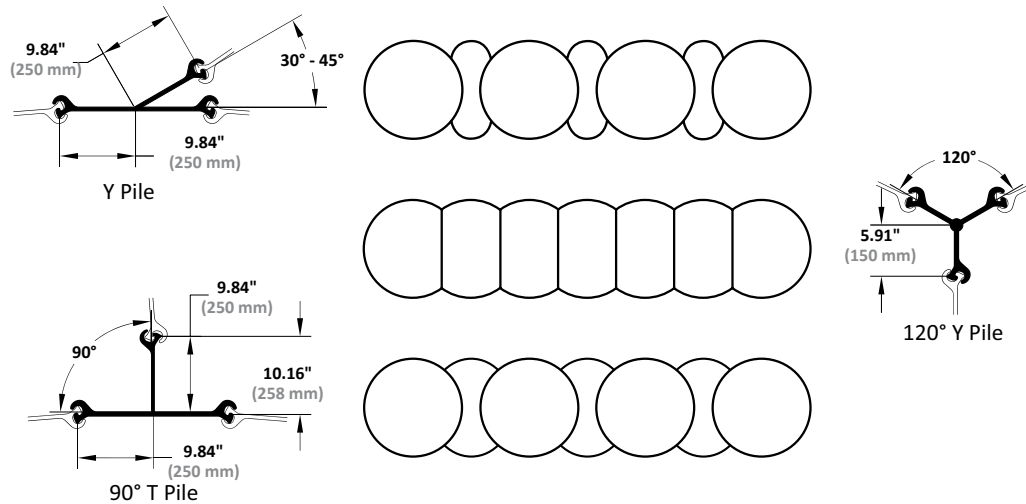
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Available Steel Grades

PS			AS								
AMERICAN			AMERICAN		CANADIAN		EUROPEAN				
ASTM	YIELD STRENGTH		ASTM	YIELD STRENGTH		CSA G40.21	YIELD STRENGTH		EN 10248	YIELD STRENGTH	
	ksi	MPa		ksi	MPa		ksi	MPa		ksi	MPa
A 328	39	270	A 572 Grade 50	50	345	Grade 350 W	50	350	S 355 GP	51	355
A 572 Grade 50	50	345	A 572 Grade 55	55	380	Grade 400 W	58	400	S 390 GP	57	390
A 588	50	345	A 690	50	345				S 430 GP*	62	430
A 690	50	345									

* Only available for AS 500-13.0 sheet.

Junction Piles



Delivery Conditions & Tolerances

	ASTM A 6		EN 10248
Mass	± 2.5%		± 5%
Length	+ 5 inches	- 0 inches	± 200 mm
Height			± 5 mm
Thickness			± 6%
Width			± 2%
Straightness			0.2% of the length
Ends out of Square			2% of the width

Maximum Rolled Lengths*

PS	90 feet	(27.4 m)
AS	101.7 feet	(31.0 m)

* Longer lengths may be possible upon request.