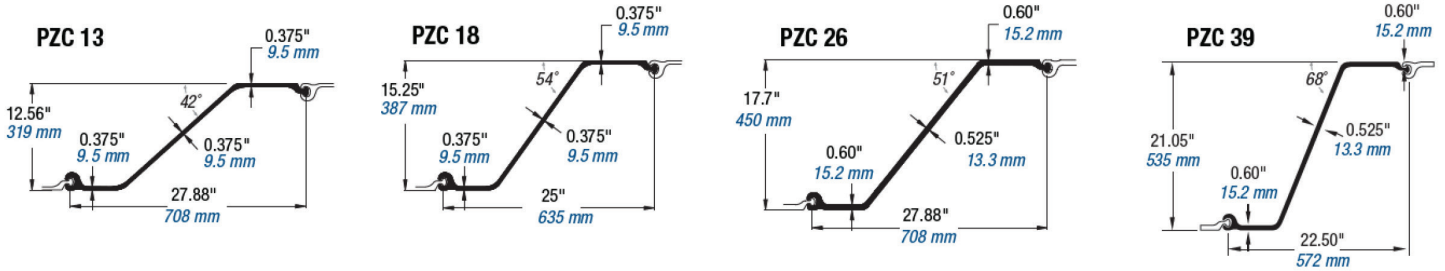


PZC HOT ROLLED SHEET PILE SERIES



A FIELDS COMPANY



GERDAU	Minimum Grade 60 Standard				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
Section	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in.2 (cm2)	lbs/ft (kg/m)	in.4 (cm4)	in.3 (cm3)	ft2/ft (m2/m)	ft2/ft (m2/m)	in.2/ft (cm2/m)	lbs/ft2 (kg/m2)	in.4/ft (cm4/m)	in.3/ft (cm3/m)
PZC 12	27.88 706	12.52 318	0.335 8.5	0.335 8.5	13.64 88.0	46.6 69.1	324.5 13,510	51.8 850	6.10 1.86	5.60 1.71	5.87 124.3	20.0 97.6	139.7 19,080	22.3 1,200
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 17	25.0 635	15.21 386	0.335 8.5	0.335 8.5	13.64 88.0	46.4 69.1	491.8 20,470	64.6 1,060	6.10 1.86	5.60 1.71	6.55 138.6	22.3 108.8	236.1 32,235	31.0 1,670
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 2.03	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 2.03	6.15 1.87	10.00 211.6	34.0 166.1	455.1 62,150	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	1,349 56,160	128.4 2,100	6.65 2.03	6.15 1.87	10.91 230.9	37.1 181.2	719.6 98,270	68.5 3,680
PZC 39	22.50 572	21.05 535	0.525 13.3	0.600 15.2	21.76 140.4	74.0 110.2	1,429 59,480	135.6 2,220	6.65 2.03	6.15 1.87	11.61 245.6	39.5 192.8	762.1 104,100	72.3 3,890
PZC 41	22.50 572	21.09 536	0.561 14.2	0.636 16.2	23.03 148.6	78.4 116.6	1,507 62,720	142.7 2,340	6.65 2.03	6.15 1.87	12.28 260.0	41.8 204.1	803.6 109,700	76.1 4,090

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

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.



PZC HOT ROLLED SHEET PILE SERIES



SPECIFICATIONS

Gerdau Steel Grades for PZC and PS Profiles

North American Grades		
ASTM	Yield Strength	
	(ksi)	(MPa)
A 328	39	270
A 572 Grade 50	50	345
A 572 Grade 60	60	415
A 572 Grade 65	65	450
A 690*	50	345

European Grades		
EN 10248	Yield Strength	
	(ksi)	(MPa)
S 240 GP	35	240
S 270 GP	39	270
S 355 GP	51	355
S 430 GP	62	430
S 450 GP	65	450

* A690 contains specified levels of Ni, Cu, and P at higher levels than the other listed grades on the table.

A572 Grade 50 and S 355 GP are the most economical and readily available grades. Please inquire for minimum order requirements for other grades.

For most sections, S 240 GP, S 270 GP, and S 355 GP Z-profiles can be supplied for European projects requiring the ÜHP proof of conformity.

Gerdau Sheet Piling Grades and their Chemistries

	ASTM A328	ASTM A572-50	ASTM A572-60	ASTM A572-65	ASTM A690
C %	**	0.23 max	0.26 max	0.23 max	0.22 max
Mn %	**	1.35 maxA	1.35 maxA	1.65 maxB	0.60 - 0.90C
P %	0.035 max	0.04 max	0.04 max	0.04 max	0.08 - 0.15
S %	0.04 max	0.05 max	0.05 max	0.05 max	0.04 max
Si %	**	0.40 max	0.40 max	0.40 max	0.40 max
Cu %	**	**	**	**	0.50 min
Ni %	**	**	**	**	0.40 - 0.75
Cr %	**	**	**	**	**
Mo %	**	**	**	**	**
Sn %	**	**	**	**	**
V %	**	0.010 - 0.15*	0.010 - 0.15*	0.010 - 0.15*	**
Cb / Nb %	**	0.005 - 0.05*	0.005 - 0.05*	0.005 - 0.05*	**
Yield ksi [MPa]	39 min [270]	50 min [345]	60 min [415]	65 min [450]	50 min [345]
Tensile ksi [MPa]	65 min [450]	65 min [450]	75 min [520]	80 min [550]	70 min [485]
Elong %	17 @ 8 in.	18 @ 8 in.	16 @ 8 in.	15 @ 8 in.	18 @ 8 in.

*would contain singly or in combination, dependent on production type (1, 2 or 3)

**= not specified (Where **is shown for copper a minimum of 0.20 may be specified).

(A) For each reduction of 0.01% below C maximum, an increase of 0.06% Mn above specified maximum is permitted, up to a maximum of 1.50%.

(B) For material with thickness of 1/2" (13mm) or less, Mn maximum of 1.35% would apply when C is greater than 0.21%.

(C) For each reduction of 0.01% below C maximum, an increase of 0.06% Mn above specified maximum is permitted, up to a maximum of 1.10%.

