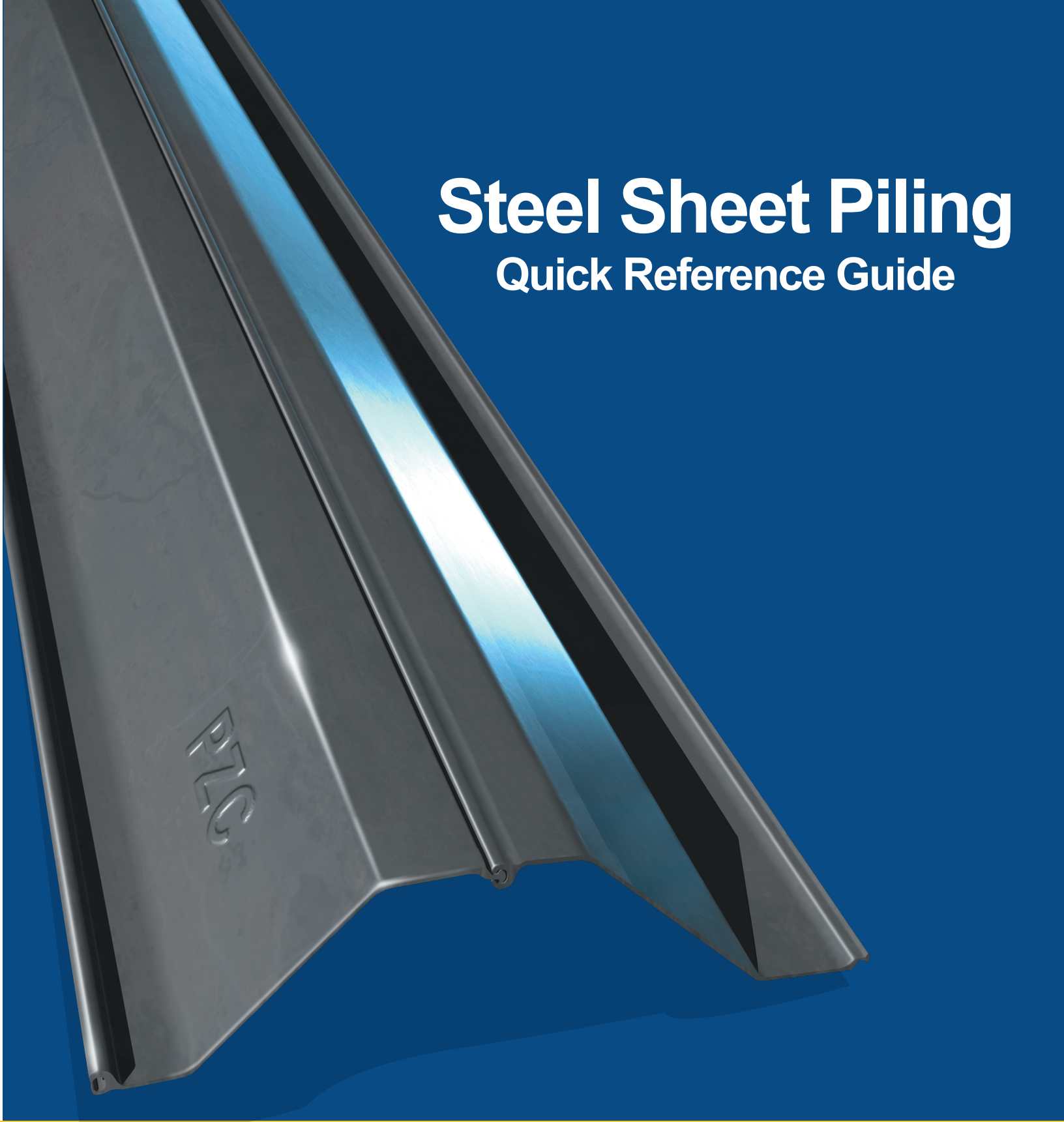




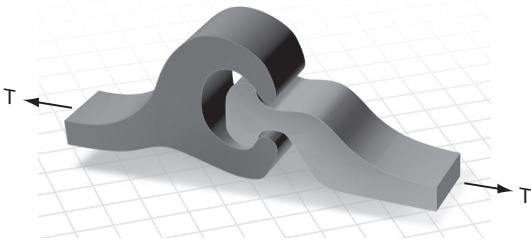
Steel Sheet Piling

Quick Reference Guide



GERDAU

BALL AND SOCKET INTERLOCK

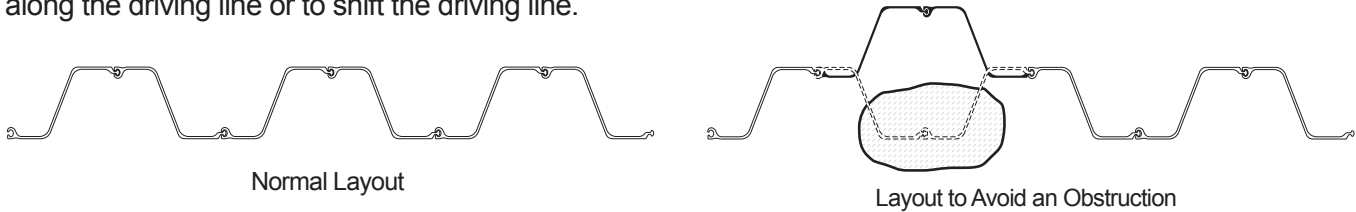


The advantages of the ball-and-socket interlock:

- Most rugged, durable, and flexible interlock available.
- Easier setting, driving, and extraction.
- Highest interlock "T" (tensile) strength relative to other Z-Profiles.
- Ideal for reuse in multiple projects.
- Higher "buy back/resale" value.
- Flexibility when setting-allows adjustment by interlock swing/rotation.



The reversed interlock arrangement can be utilized to bypass obstructions when they are encountered along the driving line or to shift the driving line.



100% MELTED AND HOT-ROLLED IN THE UNITED STATES

Please refer to www.sheet-piling.com for an extensive solution list and CAD downloads. This website also has tools available to estimate material requirements. For further assistance, please contact us directly.

COVER PLATED PZC 26 PROPERTIES (TO OBTAIN HIGHER SECTION MODULI)

Section	Nominal Width	Plate Size	Per Single Section				Per Unit of Wall			
			Area	Weight	Total Surface Area	Nominal Coating Area*	Weight		Moment of Inertia	Section Modulus
			in. ² (cm ²)	lbs/ft (kg/m)	ft ² /ft (m ² /m)	ft ² /ft (m ² /m)	Plates Full Length lbs/ft ² (kg/m ²)	Plates Half Length lbs/ft ² (kg/m ²)	in. ⁴ /ft (cm ⁴ /m)	in. ³ /ft (cm ³ /m)
PZC 37-CP (PZC 26)	27.88	3.5 x 0.9375	28.28	96.2	6.96	6.46	41.4	36.6	673.3	68.8
	708	89 x 24	182.5	143.1	2.12	1.97	202.2	178.7	91,900	3,700
PZC 39-CP (PZC 26)	27.88	3.5 x 1.125	29.60	100.6	7.03	6.53	43.3	37.6	728.3	73.0
	708	89 x 29	190.9	149.7	2.14	1.99	211.6	183.4	99,500	3,930
PZC 41-CP (PZC 26)	27.88	3.5 x 1.25	30.47	103.6	7.07	6.57	44.6	38.2	766.1	75.8
	708	89 x 32	196.6	154.2	2.15	2.00	217.8	186.6	104,600	4,080

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

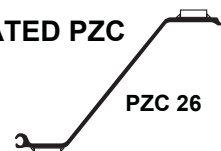
Notes: • Best economy is obtained when plate length is limited to area of high moment.

• 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.

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.

COVER PLATED PZC



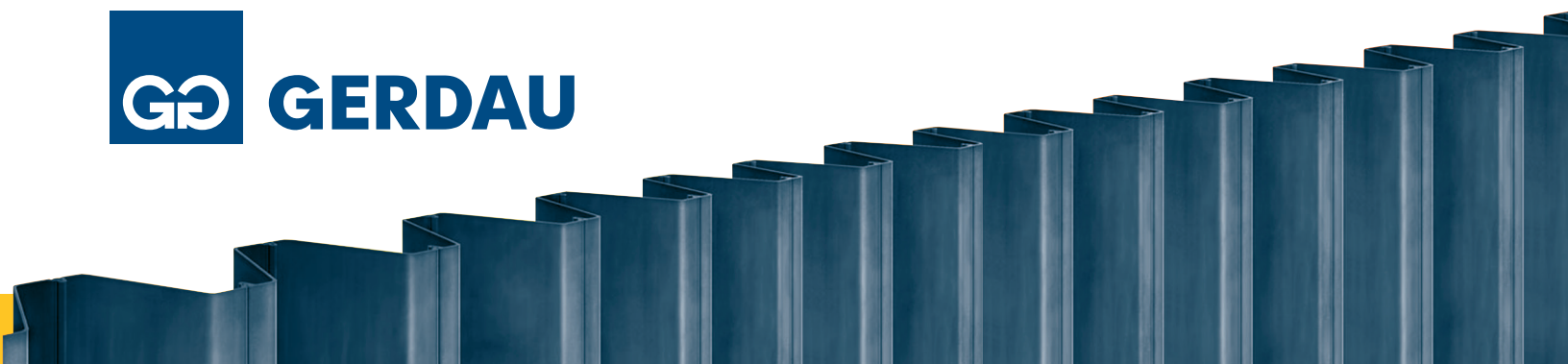
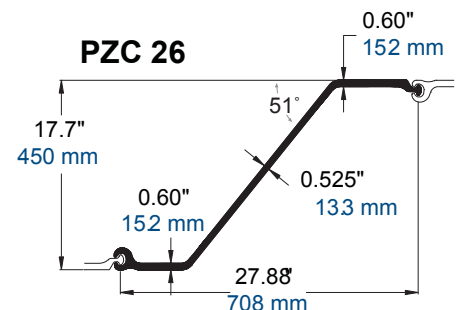
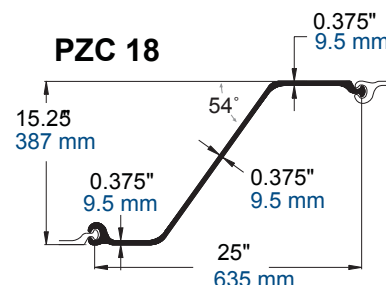
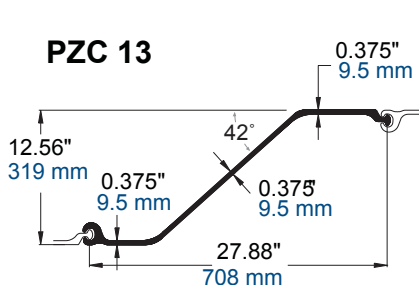
PZC SHEET PILING PROPERTIES

PZC profiles are named for their strength in metric designations. For example, PZC 18 has a Section Modulus of 1,800 cm³/meter. **Make PZC sheet piling your first choice for its unmatched combination of drivability, ruggedness, and strength to weight efficiency.** [Standard production in ASTM A572 Grade 60 with corrosion resistant steels \(A690 and A588\) available upon request. Inquire for higher strength steel availability.](#)

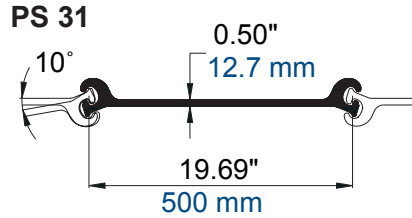
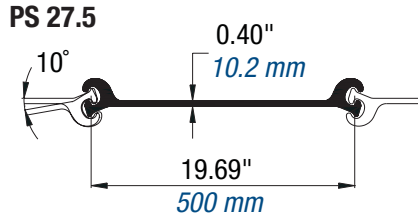
Section					Per Single Section							Per Unit of Wall				
	Nominal Width	Wall Depth (Height)	Web Thickness	Flange Thickness	Cross Sectional Area	Weight	Moment of Inertia	Elastic Section Modulus	Plastic Section Modulus	Total Surface Area	Nominal Coating Area*	Cross Sectional Area	Weight	Moment of Inertia	Elastic Section Modulus	Plastic Section Modulus
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. ² (cm ²)	lbs/ft (kg/m)	in. ⁴ (cm ⁴)	in. ³ (cm ³)	in. ³ (cm ³)	ft ² /ft (m ² /m)	ft ² /ft (m ² /m)	in. ² /ft (cm ² /m)	lbs/ft ² (kg/m ²)	in. ⁴ /ft (cm ⁴ /m)	in. ³ /ft (cm ³ /m)	in. ³ /ft (cm ³ /m)
PZC 12	27.88	12.52	0.335	0.335	13.64	46.4	324.5	51.8	61.51	6.10	5.60	5.87	20.0	139.7	22.3	26.47
	708	318	8.5	8.5	88.0	69.1	13,510	850	1,008	1.86	1.71	124.3	97.6	19,080	1,200	1,423
PZC 13	27.88	12.56	0.375	0.375	14.82	50.4	353.0	56.2	66.93	6.10	5.60	6.38	21.7	152.0	24.2	28.81
	708	319	9.5	9.5	95.6	75.1	14,690	920	1,097	1.86	1.71	135.1	106.0	20,760	1,300	1,549
PZC 14	27.88	12.60	0.420	0.420	16.15	55.0	381.6	60.5	72.61	6.10	5.60	6.95	23.7	164.3	26.0	31.25
	708	320	10.7	10.7	104.2	81.8	15,890	1,190	990	1.86	1.71	147.2	115.5	22,440	1,400	1,680
PZC 17	25.00	15.21	0.335	0.335	13.64	46.4	491.8	64.6	76.04	6.10	5.60	6.55	22.3	236.1	31.0	36.50
	635	386	8.5	8.5	88.0	69.1	20,470	1,060	1,246	1.86	1.71	138.6	108.8	32,235	1,670	1,962
PZC 18	25.00	15.25	0.375	0.375	14.82	50.4	532.2	69.8	82.20	6.10	5.60	7.12	24.2	255.5	33.5	39.46
	635	387	9.5	9.5	95.6	75.1	22,150	1,145	1,347	1.86	1.71	150.6	118.2	34,890	1,800	2,121
PZC 19	25.00	15.30	0.420	0.420	16.16	55.0	576.3	75.3	89.14	6.10	5.60	7.75	26.4	276.6	36.1	42.79
	635	388	10.7	10.7	104.2	81.8	23,990	1,235	1,461	1.86	1.71	164.1	128.8	37,780	1,945	2,301
PZC 25	27.88	17.66	0.485	0.560	20.40	69.4	938.7	106.3	126.77	6.65	6.15	8.78	29.9	404.1	45.7	54.56
	708	449	12.3	14.2	131.6	103.3	39,070	1,740	2,077	2.03	1.87	185.9	145.9	55,190	2,455	2,933
PZC 26	27.88	17.70	0.525	0.600	21.72	73.9	994.3	112.4	134.46	6.65	6.15	9.35	31.8	428.1	48.4	57.89
	708	450	13.3	15.2	140.1	110.0	41,390	1,840	2,203	2.03	1.87	197.9	155.4	58,460	2,600	3,112
PZC 28	27.88	17.75	0.570	0.645	23.22	79.0	1,057	119.1	143.07	6.65	6.15	10.00	34.0	455.1	51.3	61.58
	708	451	14.5	16.4	149.8	117.6	44,000	1,950	2,344	2.03	1.87	211.6	166.1	62,150	2,755	3,311

*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.



PS (FLAT SHEET) PILING PROPERTIES



Section	Nominal Width	Depth (Height)	Wall Depth (Height)	Web Thickness	Per Single Section						Per Unit of Wall			
	in. (mm)	in. (mm)	in. (mm)	in. (mm)	Area	Weight	Moment of Inertia	Section Modulus	Total Surface Area	Nominal Coating Area*	Area	Weight	Moment of Inertia	Section Modulus
					in. ² (cm ²)	lbs/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)	lbs/ft ² (kg/m ²)	in. ⁴ /ft (cm ⁴ /m)	in. ³ /ft (cm ³ /m)
PS 27.5	19.69	2.83	3.55	0.40	13.26	45.1	5.0	3.2	4.50	3.64	8.08	27.5	3.0	1.9
	500	72	90	10.2	85.5	67.1	207	52	1.37	1.11	171.0	134.2	414	103
PS 31	19.69	2.83	3.55	0.50	14.96	50.9	5.0	3.2	4.50	3.64	9.11	31.0	3.0	1.9
	500	72	90	12.7	96.5	75.7	207	52	1.37	1.11	192.9	151.4	414	103

*Both sides of sheet; excludes interior of interlock.

All dimensions given are nominal. Actual web thickness varies due to mill rolling practices; however, permitted variations for such dimension are not addressed.



Proper Interlock



Improper Interlock

Grade	Minimum Interlock Strength ⁽¹⁾	Minimum Swing ⁽²⁾
A328	16 kips/in. (2,800 kN/m)	10 degrees
A572-50	20 kips/in. (3,500 kN/m)	10 degrees
A572-60	24 kips/in. (4,200 kN/m)	10 degrees

Higher interlock strengths are available but obtainable swing may be reduced in interlock strengths above 24 kips/in (4,200 kN/m).

- (1) These 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.
- (2) Swing reduces 1.5 degrees for each 10 feet (3 meters) in length over 70 feet (21 meters).

NOTE: INTERLOCKING OF GERDAU PS SECTIONS WITH ANOTHER PRODUCER'S SECTION SHOULD NEVER BE CONSIDERED UNLESS APPROVED IN ADVANCE BY GERDAU. PS and Z-Piling sections should not be interlocked together. Gerdau PS 27.5 and PS 31 can be interlocked with each other.