

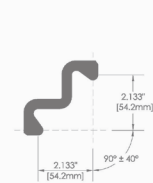
LARSEN
HOT ROLLED



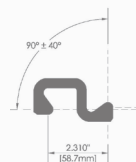
Z-Pile® HR®

sheet-pile.com/zpile

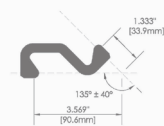
PilePro® Sheet Pile Connectors



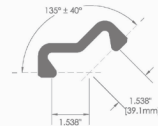
HR® Omega



HR® 90



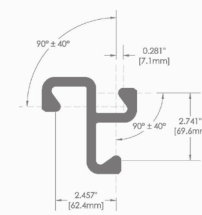
HR® Colt



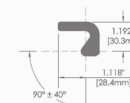
HR® 135



HR® 180



HR® Tee

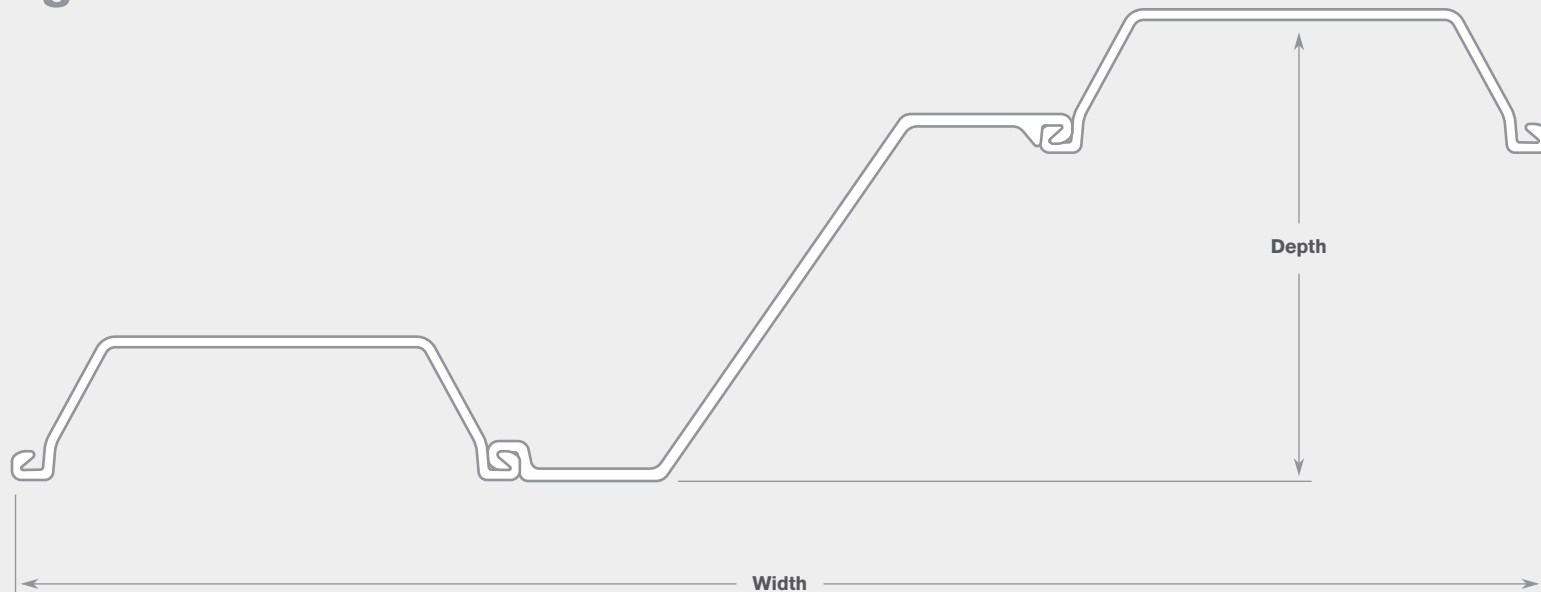


C9®

Sheet Pile LLC is the owner and assignee of US 7,390,145, related to these connectors.

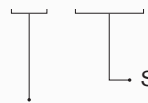


Configuration B



SECTION NAME:

21 - 1900



Section modulus (elastic) in cm³/m ÷ 100

These are examples from a large variety of possible Z-Pile® solutions.

Please configure your own system on sheet-pile.com/zpile

Sheet Pile LLC is the owner and assignee of numerous patents and IP, that may be related to this sheet pile solution.

Section	Solution Type	Width	Depth	Web Thickness	Flange Thickness	Panel Cross Section Area	Panel Weight	Panel Moment of Inertia	Panel Section Modulus	Coating Area	Coating Area Waterside	Weight	Moment of Inertia	Section Modulus	Configuration
		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)	lb/ft ² (kg/m ²)	in ⁴ /ft (cm ⁴ /m)	in ³ /ft (cm ³ /m)	
10-1970	Z	77.6	17.8	0.3	0.3	32.67	111.2	1369.7	114.1	16.57	8.28	17.2	211.9	17.6	B
		1970	453	8.5	8.6	210.8	165.5	57012	1869.2	5.05	2.52	84	28940.1	948.9	
12-1900	Z	74.8	20.9	0.3	0.3	32.75	111.5	1950.5	144.2	16.6	8.3	17.9	312.9	23.1	B
		1900	530	8.4	8.5	211.3	165.9	81187	2363.6	5.06	2.53	87.3	42730	1244	
12-1970	Z	77.6	18.8	0.4	0.4	34.02	115.8	1290	149.6	16.57	8.28	17.9	199.6	23.1	B
		1970	477	9.5	9.6	219.47	172.3	53694.2	2451.8	5.05	2.52	87.5	27255.9	1244.6	
13-1970	Z	77.6	18.8	0.4	0.4	36.8	125.2	1399.8	160.2	16.57	8.28	19.4	216.6	24.8	B
		1970	477	9.5	9.6	237.44	186.4	58266.1	2624.6	5.05	2.52	94.6	29576.7	1332.3	
15-1970	Z	77.6	19	0.4	0.4	42.5	144.6	1694.7	184.7	17.39	8.69	22.4	262.2	28.6	B
		1970	482	9.5	9.6	274.2	215.2	70539.9	3027.5	5.3	2.65	109.3	35807.1	1536.8	
16-1900	Z	74.8	21.8	0.4	0.4	34.1	116	1878.8	185.7	16.6	8.3	18.6	301.4	29.8	B
		1900	553	9.5	9.6	219.98	172.7	78200.9	3042.8	5.06	2.53	90.9	41158.4	1601.5	
18-1900	Z	74.8	21.8	0.4	0.4	37.75	128.5	2100	205.9	16.6	8.3	20.6	336.9	33	B
		1900	553	9.5	9.6	243.57	191.2	87408	3374.8	5.06	2.53	100.6	46004.2	1776.2	
20-1900	Z	74.8	22	0.4	0.4	42.58	144.9	2460.4	230.6	17.42	8.71	23.2	394.7	37	B
		1900	559	9.5	9.6	274.71	215.6	102409.9	3779	5.31	2.66	113.5	53899.9	1988.9	
21-1900	Z	74.8	23.3	0.5	0.5	41.41	140.9	2660.5	246.6	16.83	6.56	22.6	426.8	39.6	B
		1900	592	12.2	12.3	267.17	209.7	110736.4	4041.5	5.13	2	110.4	58282.3	2127.1	
22-1970	Z	77.6	21.7	0.4	0.4	56.6	192.6	2745.5	258.3	18.37	9.19	29.8	424.8	40	B
		1970	551	9.5	9.6	365.16	286.7	114278.2	4232.5	5.6	2.8	145.5	58009.2	2148.5	
23-1900	Z	74.8	24.1	0.4	0.4	48.24	164.2	3094.2	262.9	18.41	9.2	26.3	496.4	42.2	B
		1900	611	9.5	9.6	311.21	244.3	128791	4307.4	5.61	2.8	128.6	67784.7	2267	
23-1970	Z	77.6	21.7	0.4	0.4	60.1	204.5	2913.8	278.2	18.83	9.42	31.6	450.8	43	B
		1970	551	9.5	9.6	387.77	304.4	121279.7	4559.4	5.74	2.87	154.5	61563.3	2314.4	
24-1970	Z	77.6	21.7	0.4	0.4	61.85	210.5	3003.8	287.9	18.83	9.42	32.6	464.8	44.5	B
		1970	552	9.5	9.6	399.01	313.2	125028.9	4718.1	5.74	2.87	159	63466.4	2395	
24-1900	Z	74.8	23.5	0.5	0.5	47.11	160.3	3129	278.9	17.68	8.84	25.7	502	44.7	B
		1900	596	12.2	12.3	303.92	238.6	130238.8	4569.8	5.39	2.7	125.6	68546.7	2405.1	

Section	Solution Type	Width	Depth	Web Thickness	Flange Thickness	Panel Cross Section Area	Panel Weight	Panel Moment of Inertia	Panel Section Modulus	Coating Area	Coating Area Waterside	Weight	Moment of Inertia	Section Modulus	Configuration
		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)	lb/ft ² (kg/m ²)	in ⁴ /ft (cm ⁴ /m)	in ³ /ft (cm ³ /m)	
26-1900	Z	74.8	24.7	0.4	0.4	56.68	192.9	3795.1	302.2	18.41	9.2	30.9	608.8	48.5	B
		1900	628	9.5	9.6	365.67	287.1	157965.9	4951.9	5.61	2.8	151.1	83140	2606.3	
27-1900	Z	74.8	25.5	0.5	0.5	52.76	179.6	3853.4	314.7	18.67	9.33	28.8	618.2	50.5	B
		1900	648	12.2	12.3	340.41	267.2	160391.4	5157.3	5.69	2.84	140.6	84416.5	2714.4	
28-1900	Z	74.8	24.7	0.4	0.4	61.93	210.7	4153.3	323.6	18.86	9.43	33.8	666.3	51.9	B
		1900	628	9.5	9.6	399.52	313.6	172873.5	5302.9	5.75	2.88	165.1	90986	2791	
31-1900	Z	74.8	26.2	0.5	0.5	61.21	208.3	4684.3	360.5	18.67	9.33	33.4	751.5	57.8	B
		1900	665	12.2	12.3	394.89	310	194975.3	5908.3	5.69	2.84	163.2	102618.6	3109.7	
33-1900	Z	74.8	26.2	0.5	0.5	64.71	220.2	4973.8	381.7	19.13	9.56	35.3	797.9	61.2	B
		1900	665	12.2	12.3	417.49	327.7	207024.7	6254.5	5.83	2.92	172.5	108960.4	3291.9	
34-1900	Z	74.8	26.2	0.5	0.5	66.45	226.2	5114.9	394.9	19.13	9.56	36.3	820.5	63.3	B
		1900	666	12.2	12.3	428.73	336.6	212898.5	6471.1	5.83	2.92	177.1	112051.9	3405.8	
38-1900	Z	74.8	27.8	0.4	0.6	67.83	230.8	6127	441.5	19.55	9.78	37	982.9	70.8	B
		1900	705	11.2	15.1	437.58	343.5	255023.4	7234.7	5.96	2.98	180.8	134222.8	3807.7	
39-1900	Z	74.8	27.8	0.5	0.6	69.36	236	6238.9	448.9	19.55	9.78	37.9	1000.9	72	B
		1900	706	12.2	16.1	447.47	351.3	259682.5	7356.4	5.96	2.98	184.9	136675	3871.8	
40-1900	Z	74.8	27.8	0.5	0.6	71.1	242	6412.8	461.4	19.55	9.78	38.8	1028.8	74	B
		1900	706	12.2	16.1	458.71	360.1	266921.8	7561.5	5.96	2.98	189.5	140485.1	3979.7	

Specifications

When using steel sheet pile, it is necessary to make allowances for deviations from theoretical exactness. The degree of precision obtainable in the production of sheet pile is limited by the basic character of the rolling processes and normal limitations of mill equipment. Care must be taken during installation to assure that each element is being set at the desired driving dimension.

- Dimensions typically shown are nominal.
- Actual thicknesses vary due to mill rolling practices; however, permitted variations for such dimensions are not addressed.
- Interlocks should be reasonably free-sliding when threaded.
- Terms, tolerance, dimensions, and delivery conditions are in accordance with EN 10248 and/or ASTM A6.
- Welding is in accordance with AWS D1.1.

	AMERICAN ASTM A 6		EUROPEAN EN 10248
Mass	5%	-2.5%	± 5%
Length	+ 5in.	-0 in.	± 200mm
Height			± 7mm
Thickness			± 0.5mm for ≤ 8.5mm ± 6% for > 8.5mm
Width Interlocked			± 3%
Straightness			0.2% of the length
Ends ou of Square			2% of the width

Available Steel Grades

AMERICAN			CANADIAN			EUROPEAN		
ASTM	YIELD STRENGTH		CSA G40.21	YIELD STRENGTH		EN 10248	YIELD STRENGTH	
	(ksi)	(MPa)		(ksi)	(MPa)		(ksi)	(MPa)
A 328	39	270	Grade 260 W	38	260	S 240 GP	35	240
A 572 Grade 42	42	290	Grade 300 W	44	300	S 270 GP	39	270
A 572 Grade 50	50	345	Grade 355 W	50	350	S 320 GP	46	320
A 572 Grade 55	55	380	Grade 400 W	58	400	S 355 GP	51	355
A 572 Grade 60	60	415				S 390 GP	57	390
A 572 Grade 65*	65	450				S 430 GP	62	430
A 588 Grade 50	50	345				S 450 GP*	65	450
API 5L x70	70	485						
ASTM A 690 MARINER®	50	345						

ENGINEERING DISCLAIMER

This publication contains information on the properties of hot-rolled sheet pile based on accepted engineering practices related to sheet pile products and projects. The use of the data contained herein must be supplemented with qualified professional judgment.

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