

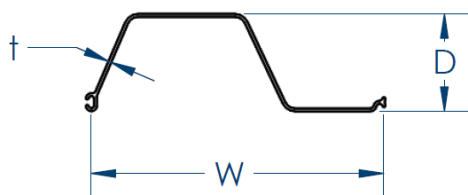
Aluminum Sheet Pile



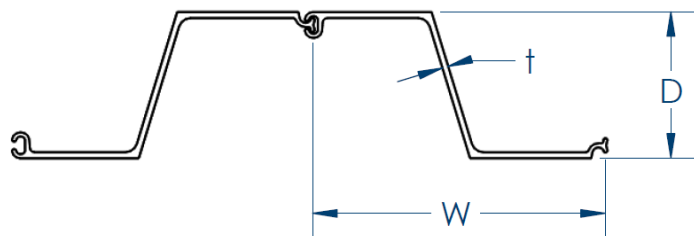
Product	Profile	Allowable Moment (M) ft-lb/ft kN-m/m	Stiffness (EI) $\times 10^8$ lb-in ² /ft kN-m ² /m	Section Modulus (Z) in ³ /ft cm ³ /m	Moment of Inertia (I) in ⁴ /ft cm ⁴ /m	Thickness Web/Flange (t) in mm	Section Depth (D) in mm	Section Width (W) in mm	I-Beam Lock
PZH-159		27,625	850	17	85	0.220 / 0.270	10	15	NO
		122.88	8,003	914	11,608	5.6 / 5.9	254	381	
PZH-153		21,125	650	13	65	0.183	10	15	NO
		93.96	6,120	699	8,876	4.6	254	381	
PZH-7		14,625	270	9	27	0.245	6	12	NO
		65.05	2,542	484	3,687	6.2	152.4	305	
PZH-3		11,863	220	7.3	22	0.183	6	12	NO
		52.77	2,071	392	3,004	4.6	152	305	
PZH-1		9,750	180	6	18	0.145	6	12	NO
		43.37	1,695	323	2,458	3.7	152	305	
PZM-16		5,850	71	3.6	7.1	0.140 / 0.155	4	12	NO
		26.02	668	194	970	3.6 / 3.9	102	305	
AWM-8		4,550	55	2.8	5.5	0.121	4	12	NO
		20.24	518	151	751	3.1	102	305	
AWM-3		3,575	44	2.2	4.4	0.095	4	12	NO
		15.90	414	118	601	2.4	102	305	
AWL-8		2,275	17	1.4	1.7	0.11	2.5	12	NO
		10.12	160	75	232	2.8	64	305	
AWL-3		1,950	15	1.2	1.5	0.095	2.5	12	NO
		8.67	141	65	205	2.4	64	305	

*Elastic Modulus (E)= 10,000 x 10³ psi (68.95 x 10⁶ kPa)

Pan Profile



Z Profile



Color: Mill Finish

ALL CMI ALUMINUM SHEET PILES ARE EXTRUDED WITH MARINE GRADE ALUMINUM ALLOYS FOR HIGH STRENGTH-TO-WEIGHT RATIO. ALL ALUMINUM PRODUCED MEETS THE ASTM B221 ALLOY 6061-T6 SPECIFICATIONS.

Aluminum Material Properties

Minimum Ultimate Tensile Stress: 38,000 psi
 Source: Aluminum Association Design Manual

Recommended Design Stress: 19,500 psi (σ_{allow})
 Source: Aluminum Association Design Manual

Determining Bending Strength

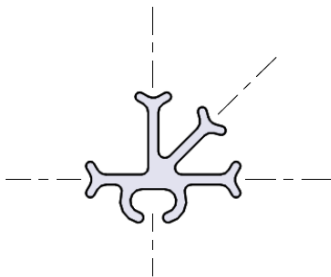
Sample Aluminum Calculation: PZH-1

$$\begin{aligned}
 M &= Z \times \sigma_{allow} \\
 &= 6.0 \text{ in}^3/\text{ft} \times 19,500 \text{ psi} \\
 &= 117,000 \text{ in-lbs/ft} / 12 \text{ in/ft} \\
 &= 9,750 \text{ ft-lbs/ft}
 \end{aligned}$$

Corner Pieces for Sheet Piling

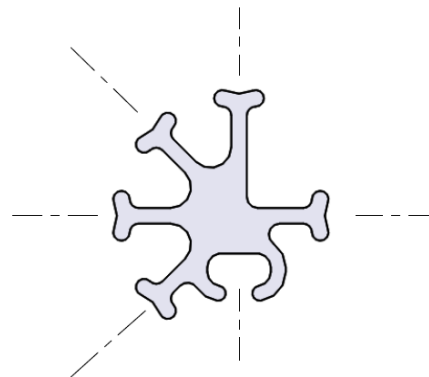
MCL-2 Corner

Use with AWL-3, AWL-8,
 AWM-3, AWM-8, and
 PZM-16



MCH-1 Corner

Use with PZH-1, PZH-3,
 PZH-7, PZH-153 and
 PZH-159



Capping Compatibility Chart

Profile	Related Sheet Piling
SC-7	AWL-3, AWL-8
SC-9	AWM-3, AWM-8, PZM-16
SC-13	PZH-1, PZH-3, PZH-7
SC-15	PZH-153, PZH-159

