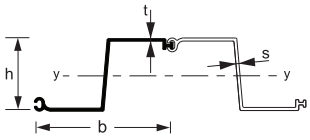
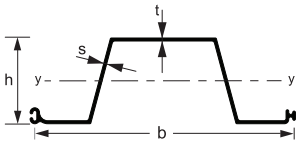
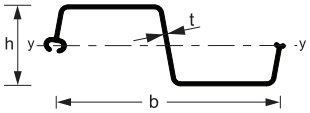
Non Ferrous Sheet Piling
Vinyl, FRP and Aluminium Sections



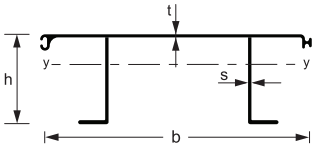
Z Profile



Box Profile



Pan Profile



Flat Profile

- Light weight and easy to install
- Chemical and corrosion resistant
- Compatible capping and anchorage systems are available
- Water tight "TC" style interlocks
- Wide range of economical profiles
- FRP sheets have great strength to weight ratio, retaining applications up to 6m
- Ideal for a wide range of applications
- Attractive appearance:
  - Vinyl piles can be supplied in various colours
  - Aluminium piles can be anodised or painted

Section	Width	Height	Thickness		Profile	Allowable Moment*	Section Modulus	Moment of Inertia
	b mm	h mm	t mm	s mm		kNm/m	cm^3/m	cm^4/m
Vinyl								
SG-950	457	305	16.5	16.5	Z	67.37	3054	46567
SG-850	457	254	13.1	16.5	Z	44.12	2000	25400
SG-825	762	305	12.2	12.2	Box	43.53	1973	30043
FP-575**	610	229	12.1	7.4	Flat	37.01	1677	12430
SG-650	457	254	9.8	9.8	Z	35.11	1591	20212
SG-625	762	254	9.8	9.8	Box	28.94	1312	16660
FP-475**	610	178	6.1	6.4	Flat	24.32	1102	6145
CL-9900	610	229	8.9	8.9	Box	23.72	1075	12290
CL-9000	610	229	7.1	7.1	Box	19.22	871	9969
SG-425	610	203	7.2	7.2	Box	16.96	769	7784
SG-325	610	178	6.4	6.4	Box	13.17	597	5326
SG-225	457	127	5.7	5.7	Box	8.54	387	2458
FRP								
UC-95	762	432	13.7	13.7	Z	216.84	3145	67870
UC-75	610	356	10.9	10.2	Z	140.85	2043	36325
UC-50	914	254	9.0	8.3	Box	77.10	1118	14200
UC-30	457	203	6.7	6.4	Z	48.19	698	7101
Aluminium								
PZH - 159	381	254	5.9	5.6	Z	122.88	914	11610
PZH - 153	381	254	4.6	4.6	Z	93.96	699	8876
PZH - 7	305	152	6.2	6.2	Z	65.05	484	3687
PZH - 3	305	152	4.6	4.6	Z	52.77	393	3004
PZH - 1	305	152	3.7	3.7	Z	43.37	323	2458
PZM - 19	305	102	4.6	4.3	Z	29.64	220	1120
PZM - 16	305	102	3.9	3.6	Z	26.02	194	970
AWM - 8	305	102	3.1	3.1	Pan	20.24	151	751
AWM - 3	305	102	2.4	2.4	Pan	15.90	118	601
AWL - 8	305	64	2.8	2.8	Pan	10.12	75	232
AWL - 3	305	64	2.4	2.4	Pan	8.67	65	205

* Allowable moment is a simplified calculation for comparison and sizing of sections, this should be verified by the engineer.

** FP sections are not symmetrical. The quoted allowable moment and section modulus assume a simple wall and composite action with the soil back fill.
On this basis the maximum allowable tensile design stress occurs on the front face and buckling restraint for the legs in compression on the back face is provided by the soil.
These values will not apply if compression occurs on the front face (e.g. a cantilever wall) or if the back fill is not able to provide the buckling restraint.
Please contact us to discuss further.

Notes:
- Vinyl Sheet pile, recommended allowable design stress is 22MPa – incorporates allowance for creep (white paper available)
- FRP sheet piles, recommended allowable design stress is 69MPa – reduced for buckling
- Aluminium, grade 6081-T6, 262MPa ultimate tensile stress, recommended allowable design stress is 134MPa (white paper available)

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