

CompositeZ 100

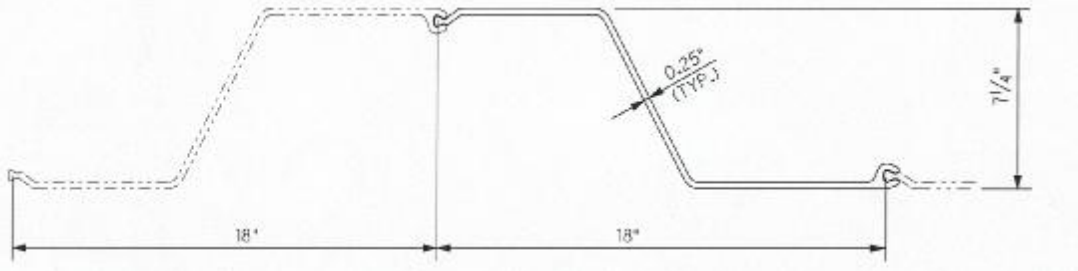
FRP Sheet Piling

TECHNICAL DATA SHEET

November 2004

DESCRIPTION

The **CompositeZ 100** is a light to moderate-duty fiber reinforced polymer (FRP) or composite sheet pile section that is ideal for bulkhead/seawall applications where corrosion resistance is of concern. The **CompositeZ 100** has higher strength and stiffness than comparable vinyl sections, is lightweight and easy to handle and install.



GENERAL INFORMATION

Constituent Materials	E-glass continuous fiber rovings and stitched fabrics with a polyester resin matrix
Manufacturing Method	Pultrusion
Color	Gray or brown
UV Resistance	Provided with UV inhibitors and pigments
Range of Movement Between Interlocked Sheets	$\pm 5^\circ$

Specification	Z-100	SPW 911 Variable Designation
Shape	Z-100	
Modulus of Elasticity	2.8×10^6 psi	E
Moment of Inertia per Unit Length of Wall	$37.15 \text{ in}^4/\text{ft}$	I
Section Modulus per Unit Length of Wall	$10.25 \text{ in}^3/\text{ft}$	Z
Working Stress	12,500 psi	f
Allowable Bending Moment per Unit Length of Wall	10,664 ft-lbs/ft of wall	BM
Sheet Cross-Sectional Area per Unit Length	$4.03 \text{ in}^2/\text{ft}$	A
Sheet Weight per section per Unit Length of Sheeting	4.75 lbs/ft	W
Width of Sheeting Section	18"	B
Thickness	.250"	-
Weight (per ln ft)	4.54 lbs/ft	-

*Apparent modulus of elasticity is based on the measured deflection of two interlocked sheets piles loaded in flexure. The apparent modulus of elasticity includes shear deformations and should be appropriate for most bulkhead applications. For walls with multiple wales, the shear deformations should be checked.

The information reported above is believed to be accurate. CCI reserves the right to change or modify, at its discretion, and without prior notice, any of the information contained in this document. CCI warrants this product to be free of manufacturing defects and that it will meet the current published properties when tested in accordance with ASTM standards. The user determines the suitability for use of this product and assumes all risk associated with its use.

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