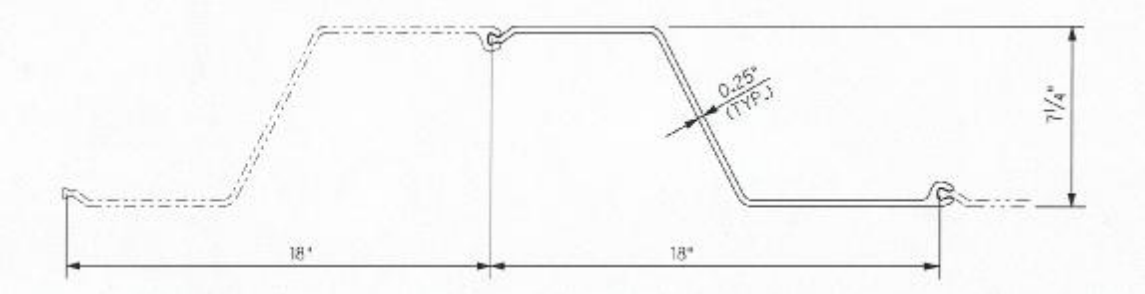
CompositeZ 100

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	*± 5º*

Specification	Z-100	SPW 911 Variable Designation
Shape	Z-100	
Modulus of Elasticity	2.8 x 10^6 psi	E
Moment of Inertia per Unit Length of Wall	37.15 in^4/ft	I
Section Modulus per Unit Length of Wall	10.25 in^3/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 in^2/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.

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