

# CompositeZ 200

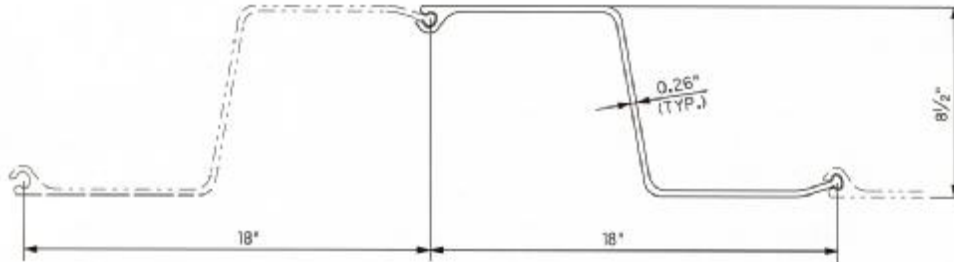
## FRP Sheet Piling

TECHNICAL DATA SHEET

November 2004

### DESCRIPTION

The **CompositeZ 200** is a moderate to heavy-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 200 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

$\pm 8^\circ$

### Specification

#### Z-200

#### SPW 911 Variable Designation

Shape	Z-200	
Modulus of Elasticity	3,000 ksi	E
Moment of Inertia per Unit Length of Wall	64 in <sup>4</sup> /ft	I
Section Modulus per Unit Length of Wall	16 in <sup>3</sup> /ft	Z
Working Stress	12,500 psi	f
Allowable Bending Moment per Unit Length of Wall	NA	BM
Sheet Cross-Sectional Area per Unit Length	4.9 in <sup>2</sup> /ft	A
Sheet Weight per section per Unit Length of Sheeting	6.7 lbs/ft	W
Width of Sheeting Section	18"	B
Thickness	.260"	-
Weight (per In ft)	6.7 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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