

# MATERIAL PROPERTY DATA SHEET



## F120-SW-Z SERIES

PATENT PENDING

### Specifications

Falcon Percussion Driven Anchors (PDAs) are designed to provide drive efficiency and maximize load capability across a wide range of applications. The F120-SW-Z assembly consists of a top plate that allows for vegetation establishment with one-way wire grip, tethered to a deep-seated earth anchor. Once the anchor is driven into the ground, typically 6 feet (1.8 m), the top plate is secured to the ground and held fast, holding an HPTRM or structure firmly in place. The anchor and cable grip of the F120-SW-Z are cast in the USA. The assembly is fabricated in the USA. The F120-SW-Z assembly allows for re-tensioning, negates the need for time consuming cable crimping and comes fully assembled.



Typical Pullout Resistance*		
Soil Type	Install Depth	
	3 ft	5 ft
Loose (SPT > 4)	300	450
Medium (SPT > 10)	750	1,250
Dense (SPT > 30)	1,750	3,250
Very Dense (SPT > 50)	3,250	> 5,000

System Performance	
Typical Anchor Load*	2,500 lbs
Maximum Working Load	2,700 lbs
Ultimate Assembly Strength	3,000 lbs
Ultimate Cable Strength	7,000 lbs

Components†		Physical Properties
Top Plate	Zinc-aluminum alloy plate	Diameter: 6.0" (150 mm) Thickness: 0.13" (3.0 mm) Open Area: 50%
Grip	Spring-loaded crush roller	Ceramic
Cable	Zinc-aluminum coated steel	Diameter: 1/4" (6.35 mm)
Anchor	Zinc-aluminum alloy	4.7 L x 1.6 W x 1.3 H inches (120 L x 40 W x 32 H mm) Bearing Area: 6.0 in <sup>2</sup> (39 cm <sup>2</sup> )
Length	Varies	F120-SW-Z3: 3ft (0.9 m) F120-SW-Z6: 6 ft (1.8 m) Additional Lengths available

Typical Use
Heavy duty assembly for standard ARVS systems

\* Soil dependent value.

† Assembly is shown as standard configuration. Cable lengths and other components may be customized as required.

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Permanent Erosion Control Blankets

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- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

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- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
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- Gabions
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- Stratavault Soil Cells

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