

MATERIAL PROPERTY DATA SHEET



F120-X-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-X-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 top plate of the F120-X-Z are cast in the USA. The assembly is fabricated in the USA. The F120-X-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*	750 lbs
Maximum Working Load	1,300 lbs
Ultimate Assembly Strength	1,500 lbs
Ultimate Cable Strength	2,100 lbs

Assembly Components†		Physical Properties
Top Plate	Zinc-aluminum alloy	Diameter: 4.0" (100 mm) Thickness: 0.11" (2.8 mm) Open Area: 50%
Grip	Spring-loaded crush roller	Ceramic
Cable	Zinc-aluminum coated steel	Diameter: 1/8" (3.1 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 ² (39 cm ²)
Length	Varies	F120-X-Z3: 3 ft (0.9 m) F120-X-Z6: 6 ft (1.8 m) Additional Lengths Available

Typical Use
Upgraded strength, light duty assembly for soft soils in 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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Bowman
Construction
Supply Inc.



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GEOSYNTHETICS

LOCATIONS & CONTACT INFO

ASP ENTERPRISES

aspent.com
salesasp@aspent.com

BOWMAN CONSTRUCTION SUPPLY

bowmanconstructionsupply.com
salesbcs@bowmanconstructionsupply.com

QUICK SUPPLY CO.

quicksupplyco.com
salesquick@quicksupplyco.com

CASCADE GEOSYNTHETICS

cascadegeos.com
salescascade@cascadegeos.com

St. Louis, MO 636.343.4357
Omaha, NE 402.861.8579
Kansas City, MO 816.554.1191
Wichita, KS 316.393.1554

Denver, CO 303.696.8960
Colorado Springs, CO 719.257.7840
Loveland, CO 970.535.0863

Des Moines, IA
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- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

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