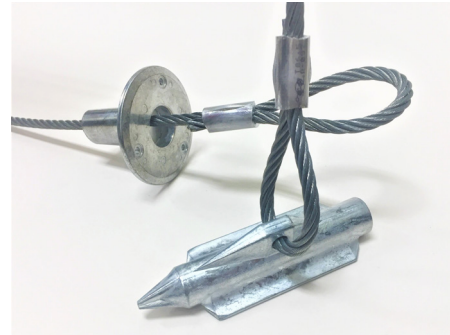


MATERIAL PROPERTY DATA SHEET



F120-S-Z SERIES



DESCRIPTION

Falcon Percussion Driven Anchors (PDAs) are designed to provide drive efficiency and maximize load capability across a wide range of applications. The F120-S-Z assembly consists of a top plate with one-way wire grip, tethered to a deep-seat 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-S-Z are cast in the USA. The assembly is fabricated in the USA. The F120-S-Z assembly allows for re-tensioning, negated the need for time consuming cable crimping and comes fully assembled.

| Typical Pullout Resistance* | | |
|-----------------------------|---------------|---------|
| Soil Type | Install Depth | |
| | | 3 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 |

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| Assembly Components† | | Physical Properties |
|----------------------|-----------------------------|---|
| Top Plate | Zinc-Aluminum alloy | Diameter: 4.0" (100 mm) Thickness: 0.11" (2.8 mm) |
| Grip | Spring-loaded crush roller | Ceramic |
| Cable | Zinc-Aluminium coated steel | Diameter: 1/4" (6.35 mm) |
| Anchor | Zinc-Aluminium 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-S-Z3: 3 ft (0.9 m) F120-S-Z6: 6 ft (1.8 m) F120-S-Z9: 9 ft (2.7 m) |

| Typical Use | |
|---|--|
| Upgraded strength, light duty assembly for soft soils used for solar foundation anchoring | |

* Soil dependent value.

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

