

# MATERIAL PROPERTY DATA SHEET



## FL 120-Z6

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 FL120-Z6 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 FL120-Z6 are cast in the USA. The assembly is fabricated in the USA. The FL120-Z6 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 |

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

| 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 |

| 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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