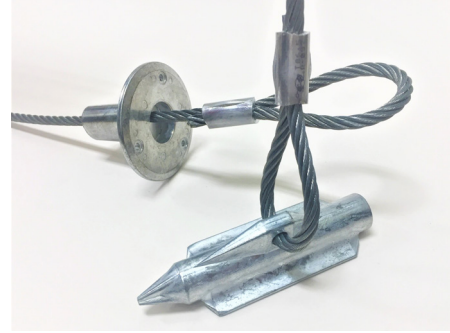


# MATERIAL PROPERTY DATA SHEET



## F170-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 F170-S-Z assembly consists of a top plate 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 F170-S-Z are cast in the USA. The assembly is fabricated in the USA. The F170-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)	5,500	950
Medium (SPT > 10)	1,250	2,250
Dense (SPT > 30)	2,500	5,500
Very Dense (SPT > 50)	3,500	8,000

System Performance	
Typical Anchor Load*	3,000 lbs
Maximum Working Load	3,500 lbs
Ultimate Assembly Strength	3,800 lbs
Ultimate Cable Strength	7,000 lbs

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Assembly Components†		Physical Properties
Top Plate	Zinc-Aluminum alloy	Diameter: 6.0" (150 mm) Thickness: 0.13" (3.0 mm)
Grip	Spring-loaded crush roller	Ceramic
Cable	Zinc-Aluminium coated steel	Diameter: 1/4" (6.35 mm)
Anchor	Zinc-Aluminium alloy	6.7 L x 2.2 W x 1.5 H inches (170 L x 55 W x 39 H mm) Bearing Area: 12.2 in <sup>2</sup> (79 cm <sup>2</sup> )
Length	Varies	F170-S-Z3: 3 ft (0.9 m) F170-S-Z6: 6 ft (1.8 m) F170-S-Z9: 9 ft (2.7 m)

Typical Use	
Heavy 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.

