

## Product Data Sheet

**Terra-Lock™** Earth Percussion Anchors are designed to provide drive efficiency and maximize load capacity across a wide range of applications. The Terra-Lock™ 100 load bearing plate has an open face allowing for vegetation establishment. Terra-Lock™ anchors assemblies are all preassembled with specific Anchor Heads, Cable Tendon, and Bearing Plates. Patented Grippler technology allows for re-tensioning and negates the need for time consuming crimping

Component	Type	Material	Test Method	Physical Properties
Top Bearing Plate	TL-100	Zinc-Aluminum Alloy - ZA 2 <sup>(1)</sup>	ASTM B-240-10	Diameter: 4.25" Thickness: 0.11" 64% Open Area
Anchor Head	TLA2	Zinc-Aluminum Alloy - ZA 2 <sup>(1)</sup>	ASTM B-240-10	3.44" x 1.22" x 0.81" (L x W x H) Bearing Area: 3 in <sup>2</sup>
Cable Tendon	3MM-Z	Zinc-Aluminum Zn-AL Coated Carbon Steel <sup>(2)</sup>	ASTM A-1023	Diameter: 3 mm (1/8") 1x19 Strand 3.33FT (40")
Top Termination	TL-100	Zinc-Aluminum Alloy - ZA 2 & Ceramic <sup>(3)</sup>	ASTM B-240-10	Diameter: 4.25" Thickness: 0.11"
Lower Termination	Ferrule	Aluminum	ASTM A1058-14	Length: 12.8 mm Wall thickness: 1.5 mm

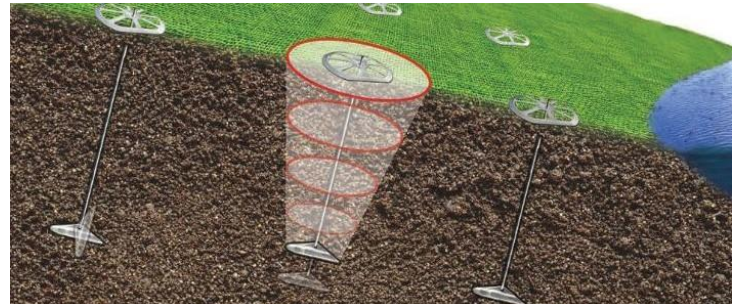
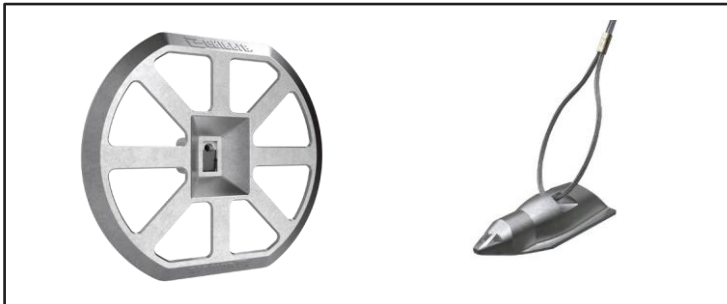
<sup>(1)</sup> Corrosion resistant pressure die cast zinc alloy

<sup>(2)</sup> Corrosion resistant zinc-aluminum coated cable

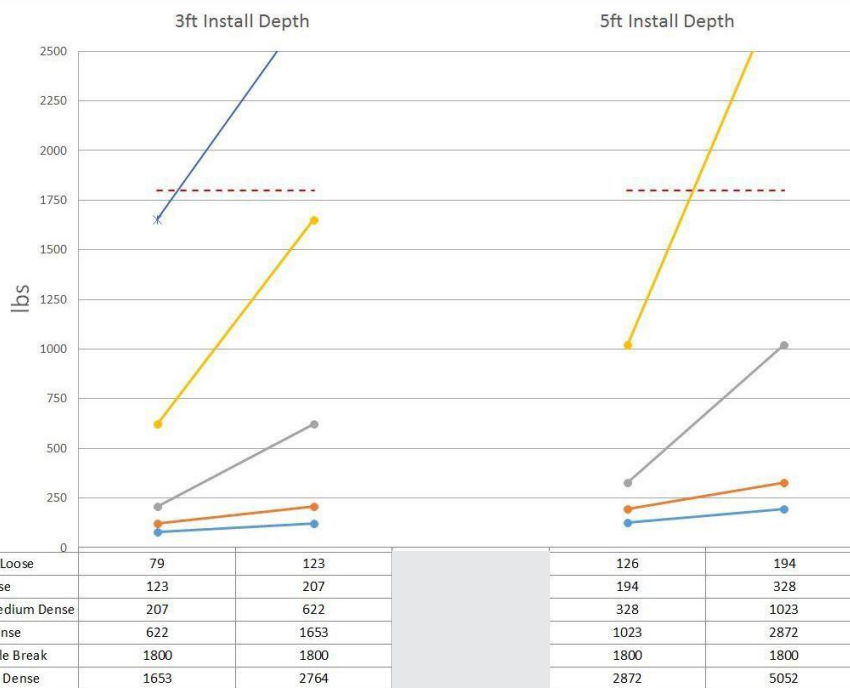
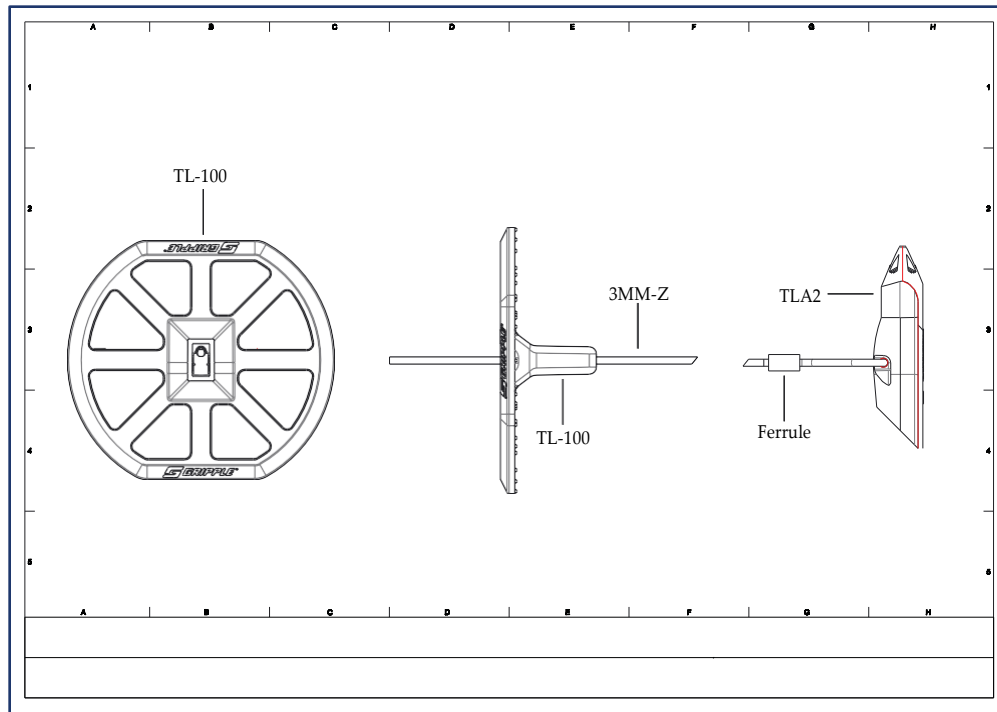
<sup>(3)</sup> Corrosion resistant pressure die cast zinc alloy with internal a ceramic roller & directional locking device

Preformance Properties	Value	Data
Typical Anchor Load Range <sup>(4)</sup>	lbs	150 - 600
Maximum Working Load <sup>(4)</sup>	lbs	990
Ultimate Assembly Strength	lbs	1,100
Ultimate Cable Strength	lbs	1,800

<sup>(4)</sup> Values are soil dependent; See graph on the following page.



## Product Data Sheet



TL-A2

### SPT Count & Gripple Anchor Performance

#### General information

The Standard penetration test (SPT) is widely used to determine the strength and deformation properties of the course soil.

Approximate correlation of properties of drained granular soil are:

Very Loose	SPT 0-4
Loose	SPT 4-10
Medium Dense	SPT 10-30
Dense	SPT 30-50
Very Dense	> 50

These figures can then be used to obtain typical shear strength and bulk unit weight for each soil.

This information is then used to predict Gripple Anchor Performance in relation to the conditions described.

The following graphs are derived from idealized theoretical calculations and should be used as a guide only. The variability of soil types should always be taken into account and on-site testing should always be carried out in order to obtain more accurate results.