

NEW PATENTED

# SERIES II Earth Anchor



**DUCKBILL**  
EARTH ANCHORS

## New Features >>>

- ① Chiseled Cutting Edges
- ② Increased Surface Area
- ③ Lateral Direction Guide Ribs

## Benefits >>>

- Faster Installation and Penetrates Harder Soils
- Quicker Loading, Stronger Hold
- More Stable Drive Plane Installation Angle



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## Breakthrough Earth Anchoring Technology

**DUCKBILL**  
EARTH ANCHORS

**MANTA RAY**  
EARTH ANCHOR SYSTEMS

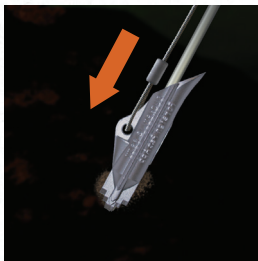
**STING RAY**  
EARTH ANCHOR SYSTEMS



# We are the world's leading earth anchoring solutions company. >>>

Foresight Products, LLC is a worldwide leader offering superior earth anchoring systems, innovative solutions to anchor problems, and engineering and field services to its associates. Continuing to set the bar in earth anchoring innovation, Foresight Products has developed the new SERIES II Earth Anchors which are patented worldwide.

- > No digging — No excavation — No soil disturbance
- > Anchors can be load tested during installation to exact holding capacity requirements
- > Fast installation with conventional hydraulic, pneumatic equipment available worldwide
- > Easily installed in tight, hard-to-reach locations
- > Substantial time and cost savings



Drive Anchor



Remove Drive Steel




Pull Rod



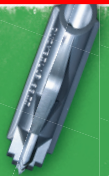
Load Locked


## >>> What do you want to anchor?



**Light-Medium Capacity**


Tree Guylines	Antennas
Root Balls	Scaffolding
Tree Retenents	Vineyards
Turf Reinforcement	Tents
Theft Deterrent	Airplanes
Fences	Towers
<b>Structures</b>	





**Medium-Heavy Capacity**

Utility Poles	Basement Walls
Electric Towers	Sea Walls
Pontoons	Boat Moorings
Sheet Piles	Docks
Revetment Mats	Pipelines
Gabions	
Block Walls	





**Heavy Capacity**

Transmission Towers
Sheet Piles
Excavation Shoring



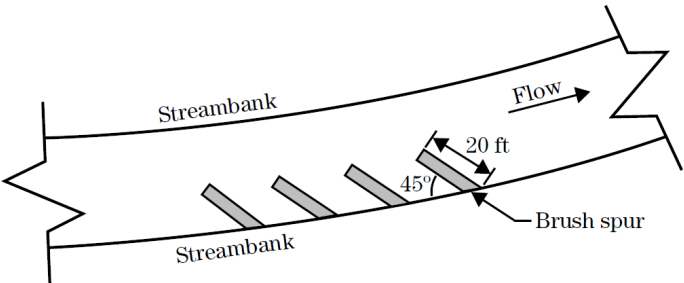
Contact us to learn more about Series II Earth Anchors



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**Figure TS14E-14**    Example problem, plan view



**Table TS14E-1**    Duckbill® specifications (rated for class 5 soils, see table TS14E-2)

Duckbill model no.	Rated capacity (lb)	Drive rod diameter (in)	Normal depth of installation
40	300	1/4	20 in
68	1,100	1/2	2 1/2 ft
88	3,000	3/4	3 1/2 ft
138	5,000	1	5 ft

(210-VI-NEH, August 2007)

TS14E-9

Technical Supplement 14E

Use and Design of Soil Anchors

Part 654  
National Engineering Handbook

**Table TS14E-2**    Soil classification

Class	Description	Probe value
1	Solid bedrock	—
2	Dense clay; compact gravel dense fine sand; laminated rock; slate; schist; sand stone	Over 600 in/lb
3	Shale; broken bedrock; hardpan; compacted gravel clay mixture	500–600 in/lb
4	Gravel; compacted gravel and sand; claypan	400–500 in/lb
5	Medium-firm clay; loose standard gravel; compacted coarse sand	300–400 in/lb
6	Medium-firm clay; loose course sand; clayey silt; compact fine sand	200–300 in/lb
7	Fill; loose fine sand; wet clays; silt	100–200 in/lb
8	Swamp; marsh; saturated silt; humus	Under 100 in/lb

TS14E-10

(210-VI-NEH, August 2007)



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