American Earth Anchors
The best screw you will have in the dirt™

3AL-36TH Specifications

3" bullet with 3' cable and thimble

Anchor
Anodized cast aluminum
- Aircraft-quality 356 alloy
- Heat-treated to T6 specification

Cable
Galvanized steel aircraft cable
- Diameter: ⅛" (3 mm)
- Length: 3' (.9 m)
- Breaking strength: 2,000 lb (8.9 kN)
  Available in stainless steel as special order

Thimble
Galvanized steel
- 3/4" (19 mm)

Bullet vs. arrowhead
Streamlined bullet shape is designed for driving through compact or stony soils, gravel, hard clay, and other dense or difficult conditions

Bullets
All have the same bullet anchor, with different cable lengths or type of cable termination

LOAD CAPACITY
Pullout strength at MINIMUM DEPTH 2' (.6 m)

<table>
<thead>
<tr>
<th>Soil Class 1</th>
<th>Soil Class 2</th>
<th>Soil Class 3</th>
<th>Soil Class 4</th>
<th>Soil Class 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardpan</td>
<td>Sandy gravel</td>
<td>Silty clayey sand</td>
<td>Loose/nod dense sands</td>
<td>Loose fine uncompacted sand</td>
</tr>
<tr>
<td>Asphalt</td>
<td>Very dense sand</td>
<td>Silty gravel</td>
<td>Loose sands</td>
<td>Firm clays</td>
</tr>
<tr>
<td>2,000 lb</td>
<td>1,800 lb</td>
<td>1,700 lb</td>
<td>600 lb</td>
<td>350 lb</td>
</tr>
<tr>
<td>8.90 kN</td>
<td>8.01 kN</td>
<td>7.56 kN</td>
<td>2.67 kN</td>
<td>1.56 kN</td>
</tr>
</tbody>
</table>

Soil classification per ASTM D-2487/2488
**3AL-36TH Installation**

Don’t use rebar – it can get stuck in the bullet!

1. **Drive rod** fits into back of the bullet
2. **Drive** bullet to minimum depth of 2’ (1 m)
3. **Remove** the drive rod
4. **Pull** the cable to turn ("lock") the bullet

**Into the ground**

- **3’ (.9 m) drive rod**
- **1/2” (13 mm) diameter**
- **DR-3ST**
- **Safety holding handle**
- **DR-SHH**
- **Sledge hammer**
- **Demolition hammer**

**Locking the anchor**

- **During locking, anchor will pull up as it turns, settles, and locks.**
- Depending on soil type, this can typically be 1-4 inches (3-10 cm).

**SIMPLE PULL**

- Put drive rod through thimble and PULL
- Most common method for this size anchor

**LEVERAGE (Manual)**

**LEVERAGE (Mechanical)**

- Not usually needed for this size anchor

**Through asphalt**

- **Drill PILOT HOLE through asphalt**
- **1” (2.5 cm) diameter**

**Non-vertical load**

- **Install at same angle as load for maximum pullout strength**

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**Contact us for CUSTOM WORK**
Size, length, shape, material, prototypes, cable assemblies

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