American Earth Anchors

The best screw you will have in the dirt™

American Earth Anchors

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OR: 4ST-48TH Mar 2018

QUICK REFERENCE

4ST-48TH Specifications

4” steel arrowhead with 4’ cable and thimble

Anchor

Galvanized steel

4” (10 cm)

Cable

Galvanized steel aircraft cable

Diameter: 3/16” (4.8 mm)

Length: 4’ (1.2 m)

Breaking strength: 4,200 lb (18.7 kN)

Available in stainless steel as special order

Thimble

Galvanized steel

3/4” (19 mm)

LOAD CAPACITY

Pullout strength at MINIMUM DEPTH 2½’ (.8 m)

<table>
<thead>
<tr>
<th>Soil Class 1</th>
<th>Soil Class 2</th>
<th>Soil Class 3</th>
<th>Soil Class 4</th>
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</thead>
<tbody>
<tr>
<td>Hardpan Asphalt</td>
<td>Sandy gravel</td>
<td>Silty/clayey sand</td>
<td>Loose fine un-compacted sand</td>
</tr>
<tr>
<td>3,500 lb</td>
<td>2,200 lb</td>
<td>1,900 lb</td>
<td>900 lb</td>
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<tr>
<td>15.6 kN</td>
<td>9.79 kN</td>
<td>8.45 kN</td>
<td>4.00 kN</td>
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Soil classification per ASTM D-2487/2488
4ST-48TH | Installation

1. DRIVE anchor to minimum depth of 2½' (.8 m)
2. REMOVE the drive rod
3. PULL the cable to turn ("lock") the anchor

Into the ground

- 3' (.9 m) drive rod
- 3/4" (19 mm) diameter
- Hammering head
- Safety holding handle
- Drive rod fits into back of arrowhead
- Don’t use rebar – it can get stuck in the anchor!

Locking the anchor

- During locking, anchor will pull up as it turns, settles, and locks – depending on soil type, this can typically be 1-5 inches (3-13 cm)

SIMPLE PULL

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

LEVERAGE (Manual)

- Use rod as a push-down or pull-up lever

LEVERAGE (Mechanical)

- Not usually needed for this size anchor
- Ratchet-lever hoist ("come-along")

Through asphalt

- Make slot through asphalt
- One method: Jackhammer with chisel

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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