**4AL-48TH Specifications**

4" aluminum arrowhead with 4' cable and thimble

- 356 aluminum alloy
- Heat-treated to T6 specification

*This document also describes the military spec version of this anchor: 4AL-48TH-Mil*

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**Anchor**

4" (10 cm)

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**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*

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**Thimble**

Galvanized steel

- 3/4" (19 mm)

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**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>
</tr>
</thead>
<tbody>
<tr>
<td>Hardpan Asphalt</td>
<td>Sandy gravel</td>
<td>Silty/clayey sand</td>
<td>Loose/med dense sands</td>
</tr>
<tr>
<td>Very dense sand</td>
<td>Silty gravel</td>
<td>Loose sands</td>
<td>Firm clays</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Soil Class 4</th>
<th>Soil Class 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loose fine un-compacted sand</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Soil Class 1</th>
<th>Soil Class 2</th>
<th>Soil Class 3</th>
<th>Soil Class 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,500 lb 15.6 kN</td>
<td>2,200 lb 9.79 kN</td>
<td>1,900 lb 8.45 kN</td>
<td>900 lb 4.00 kN</td>
</tr>
<tr>
<td>475 lb 2.11 kN</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

*Soil classification per ASTM D-2487/2488*

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Size, length, shape, material, prototypes, cable assemblies

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**4AL-48TH | Installation**

Drive rod has a drilled hole that fits over the anchor’s pin and seats against the anchor.

**Into the ground**

Drive rod
- Length: 4’ (1.2 m)
- Diameter: ¾” (19 mm)

DR-4HT

Safety holding handle
- DR-SHH

Hammering head
- DRH-SM

Sledge hammer

Demolition hammer

**Locking the anchor**

During locking, anchor will pull back 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)**
- Ratchet-lever hoist (“come-along”)
- Not usually needed for this size anchor

**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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