Large Tanks & Pipes

Above or below ground

Over-the-top method for large structures when cosmetic concealment of anchors is not needed.

1. Anchor #1 on one side.
2. Anchor #2 on the other side.
3. Longer cable goes over the tank and joins its mate on the other side...

...like this:
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**Underground**

The same over-the-top method can be used for underground tanks and pipes to prevent floating or shifting.

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**Variations**

**DIFFERENT CABLE CONNECTION**

- User-supplied turnbuckle or other method of joining and tightening the two cables

**DIFFERENT ANCHOR**

- 46-inch guy-top Penetrators instead of arrowheads
- Same over-the-top cabling strategy
- Advantage: Can be removed and reused

**STRAP INSTEAD OF CABLE**

- Strap over the top, with 26-inch Penetrators installed through strap on both sides
- Prevents floating or shifting when concrete is poured over the ducts

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

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# LOAD CAPACITY (Pullout strength)

- At minimum depth for arrowheads
- With flight fully embedded for Penetrators

<table>
<thead>
<tr>
<th>SOIL TYPE</th>
<th>3&quot; Steel Arrowhead Min. depth 2'</th>
<th>4&quot; Steel Arrowhead Min. depth 2.5'</th>
<th>4&quot; Mil-spec Arrowhead Min. depth 2.5'</th>
<th>6&quot; Mil-spec Arrowhead Min. depth 3.5'</th>
<th>8&quot; Mil-spec Arrowhead Min. depth 4'</th>
<th>10&quot; Mil-spec Arrowhead Min. depth 5'</th>
<th>26&quot; Penetrator</th>
<th>46&quot; Penetrator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardpan or asphalt</td>
<td>2,000 lb 8.90 kN</td>
<td>3,500 lb 15.6 kN</td>
<td>3,500 lb 15.6 kN</td>
<td>5,000 lb 22.2 kN</td>
<td>9,000 lb 40.0 kN</td>
<td>14,000 lb 62.3 kN</td>
<td>4,500 lb 20.0 kN</td>
<td>14,000 lb 62.3 kN</td>
</tr>
<tr>
<td>SOIL CLASS 1 Dense sand or gravel</td>
<td>1,800 lb 8.01 kN</td>
<td>2,200 lb 15.6 kN</td>
<td>2,200 lb 9.79 kN</td>
<td>3,000 lb 13.3 kN</td>
<td>6,500 lb 28.9 kN</td>
<td>11,000 lb 48.9 kN</td>
<td>3,100 lb 13.8 kN</td>
<td>9,500 lb 42.3 kN</td>
</tr>
<tr>
<td>SOIL CLASS 2 Medium sandy gravel</td>
<td>1,700 lb 7.56 kN</td>
<td>1,900 lb 15.6 kN</td>
<td>1,900 lb 8.45 kN</td>
<td>2,000 lb 8.90 kN</td>
<td>3,500 lb 15.6 kN</td>
<td>7,000 lb 31.1 kN</td>
<td>1,100 lb 4.89 kN</td>
<td>3,300 lb 14.7 kN</td>
</tr>
<tr>
<td>SOIL CLASS 3 Loose medium-to-fine sand</td>
<td>600 lb 2.67 kN</td>
<td>900 lb 15.6 kN</td>
<td>900 lb 4.00 kN</td>
<td>1,200 lb 5.34 kN</td>
<td>2,200 lb 9.79 kN</td>
<td>4,000 lb 17.8 kN</td>
<td>630 lb 2.80 kN</td>
<td>2,000 lb 8.90 kN</td>
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<tr>
<td>SOIL CLASS 4 Loose fine uncompacted sand</td>
<td>350 lb 1.56 kN</td>
<td>475 lb 15.6 kN</td>
<td>475 lb 2.11 kN</td>
<td>600 lb 2.67 kN</td>
<td>1,250 lb 5.56 kN</td>
<td>2,400 lb 10.7 kN</td>
<td>360 lb 1.60 kN</td>
<td>1,100 lb 4.89 kN</td>
</tr>
</tbody>
</table>

Mil-spec arrowheads are military specification MIL-A-3962E, 356 aluminum alloy heat-treated to T6 specification.