



American Earth Anchors

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ANCHOR APPLICATIONS

Large Tanks & Pipes

Above or below ground

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



Anchor #1
on one side



Anchor #2
on the other
side

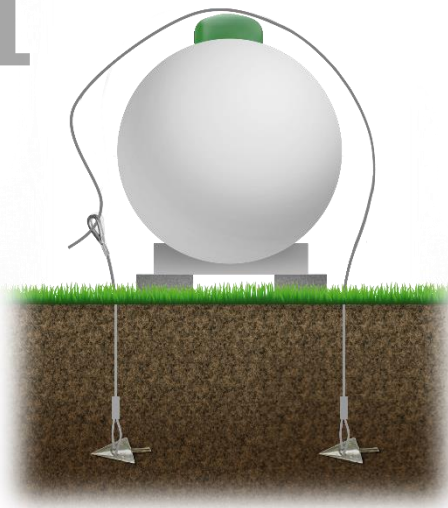
Cable from
anchor #1

Longer cable goes
over the tank and
joins its mate
on the other side ...

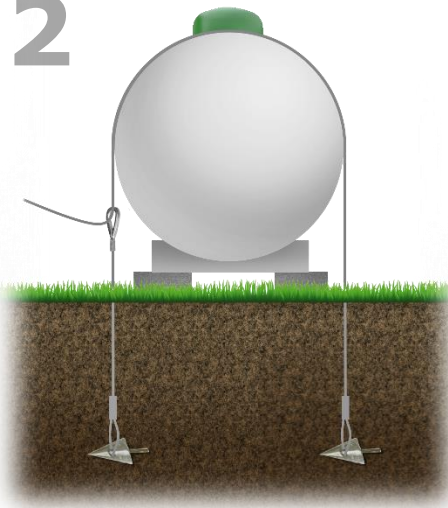
... like
this:

Cable from
anchor #2

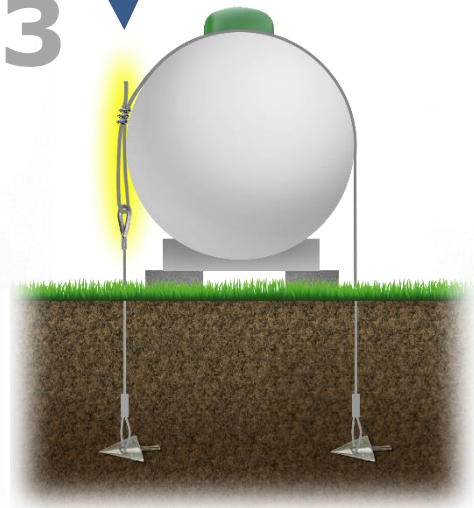
1



2



3





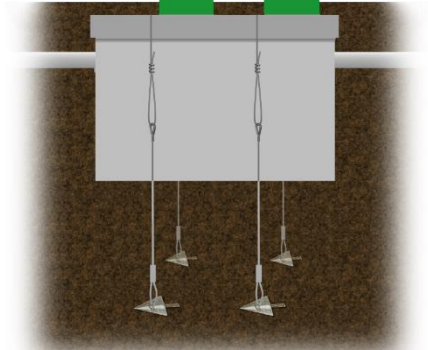
Large Tanks & Pipes

Underground

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



Septic tank



Variations

DIFFERENT CABLE CONNECTION

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

Cable from anchor #1



Cable from anchor #2



DIFFERENT ANCHOR

46-inch guy-top Penetrators instead of arrowheads

Same over-the-top cabling strategy

Advantage: Can be removed and reused



Buried pipeline

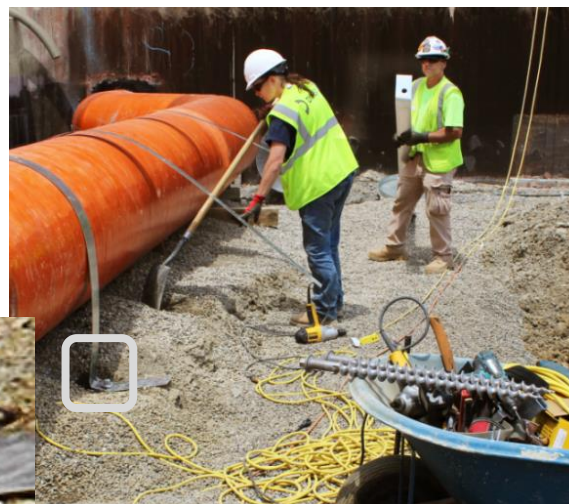


PE46Guy

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



Underfloor ductwork



PE26





Large Tanks & Pipes

ANCHOR APPLICATIONS

LOAD CAPACITY (Pullout strength)

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

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

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

