



# American Earth Anchors

*The best screw you will have in the dirt™*

americaneearthanchors.com

ANCHOR APPLICATIONS

## Solar Arrays

*"We saved around \$2,000 in concrete and a week of time. We would have had to bore the holes, set up the posts, pour the concrete, and wait for it to cure."  
– Solar rack (below) rated at 145 mph*

### 36" and 46" Penetrator™ ALTERNATIVE TO CONCRETE FOOTINGS at half the cost\*

\*Based on customer feedback

**Faster, easier – pushdown AND pullout strength**

#### Strong

356 alloy aircraft-quality aluminum  
heat treated to T6 specification

#### Lightweight PE46 only 10½ lbs (4.8 kg)

The **ALUMINUM** advantage:  
Shipping cost, on-site handling, **NO RUST**

#### Easy leveling

Screw down, screw up

- No digging
- No forms
- No pouring
- No waiting

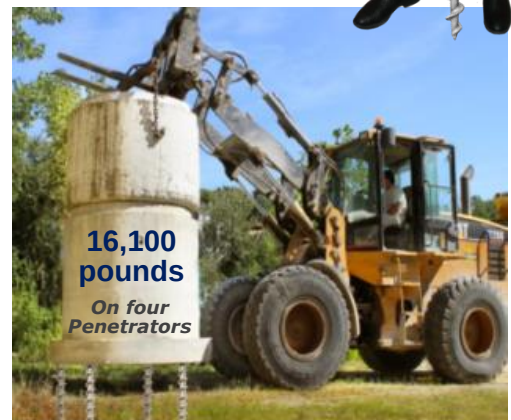
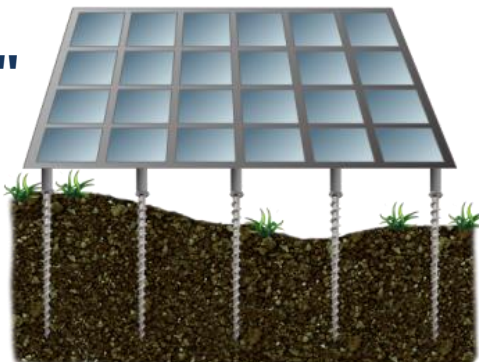
PE46-Hex8

PE46-Hex

PE36

36"

46"



**16,100  
pounds**  
On four  
Penetrators

**4,025 lbs** on each Penetrator,  
with only 75% of their length in  
the ground supporting the load



## INTO THE GROUND



**Electric impact wrench**

Watch the video  
at [aeavideo.com](http://aeavideo.com)



**Pneumatic impact wrench**

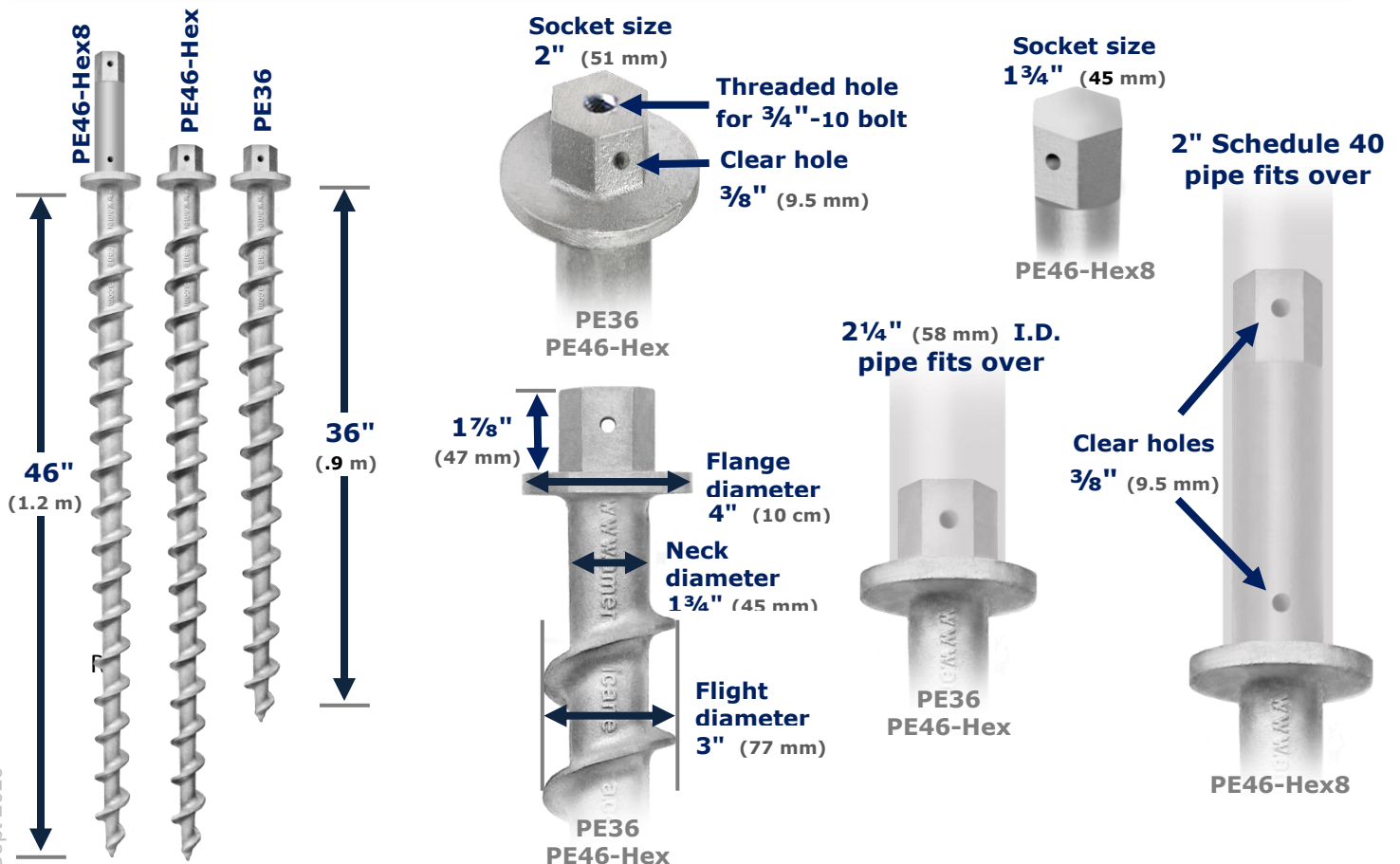


**Power take-off**

on tractor, skid-steer (Bobcat)  
or other PTO-equipped machinery

Watch the video  
at [aeavideo.com](http://aeavideo.com)

## SPECIFICATIONS

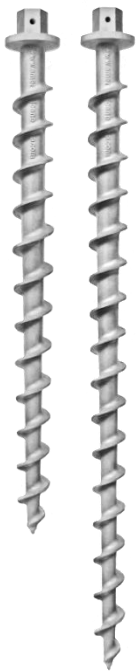


# ATTACHMENT METHODS

## BRACKETS



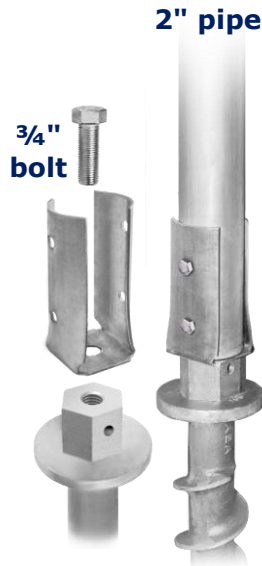
We can make custom brackets – send us your requirements



PE36  
PE46-Hex



For 2" or smaller  
pipe or round post

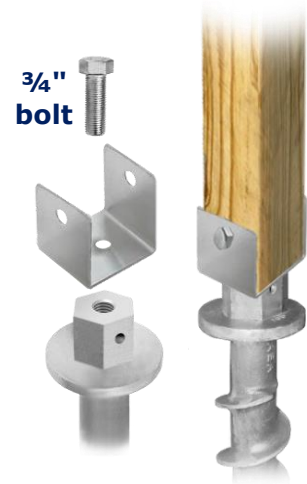


2" pipe

3/4"  
bolt



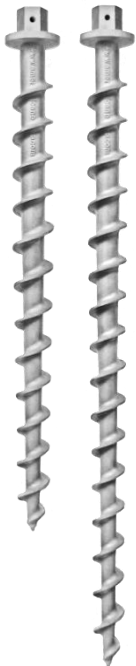
For lumber post or beam



3/4"  
bolt

4x4 post  
3 1/2 x 3 1/2 in.  
(9 x 9 cm)

## DIRECT PIPE ATTACHMENT



PE36  
PE46-Hex

2 1/4" I.D. (58 mm)  
pipe fits over



PE46-Hex8

2" Schedule 40  
pipe fits over





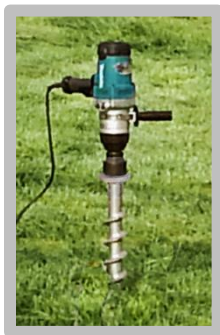
## IN THE FIELD



**ON-SITE PULLOUT  
STRENGTH TEST**

**7,900 lbs. with no vertical movement**

**PE46-Hex with pipe bracket**



**PE46-Hex with structure's  
leg over the top**

The structure's leg goes  
over the hex head and rests  
on the flange, then bolted





## IN THE FIELD



The customer's sleeve is bolted onto the PE46, and the structure's leg is bolted into the sleeve

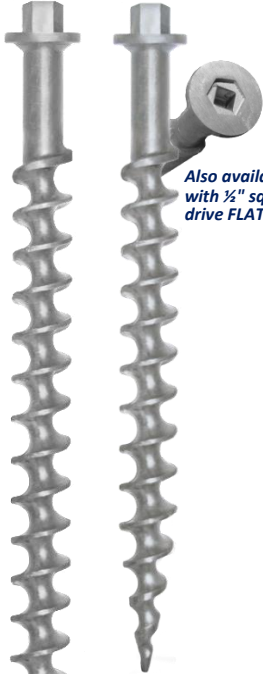




## SMALLER INSTALLATIONS

When **HOLD-DOWN** is needed, but not **FOOTING** support

**26" 18"**



Also available  
with ½" square  
drive **FLAT TOP**

**PE18  
PE18-SQ**



**ATTACH** through mounting  
holes in your structure  
(1½" - 1¾" 3.8-4.5 cm)

**OR ...**



For structures with  
smaller (bolt-sized)  
mounting holes:

**PE26**



**14"**



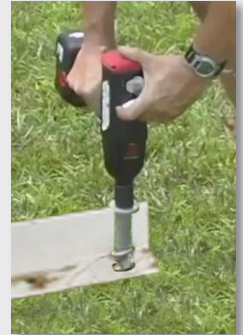
Tapped for  
½"-13 threaded  
fitting

Install with  
½" square drive

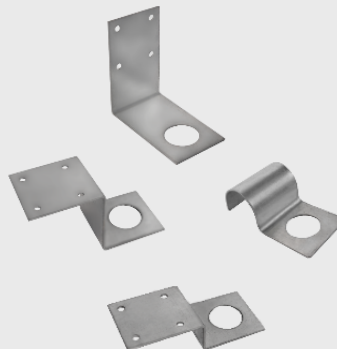
**PE14**

**INSTALL** with impact wrench  
or use our T-handle

1" socket or ½" square drive



**BRACKETS and BASES** expand your securing options

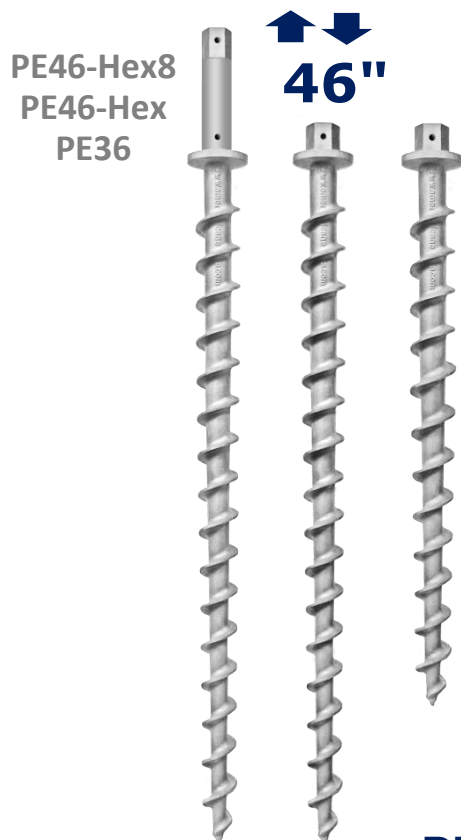


We can make custom brackets – send  
us your requirements

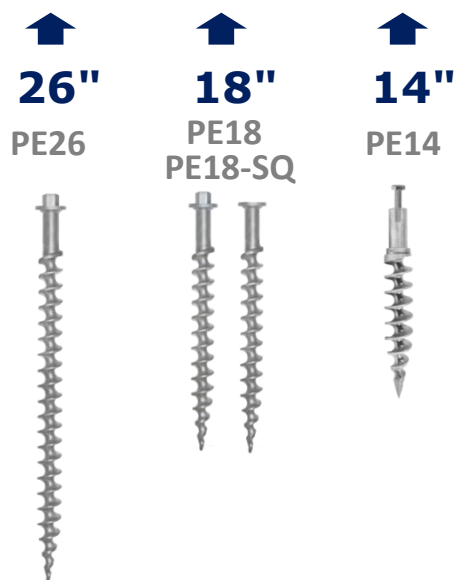


# PULLOUT STRENGTH

Use for  
PUSHDOWN STRENGTH (footings)  
and PULLOUT STRENGTH



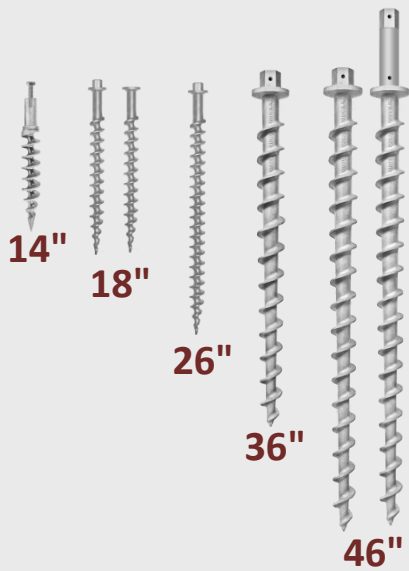
Use for  
PULLOUT STRENGTH  
(Smaller installations)



## PULLOUT STRENGTH

|                       | Hardpan<br>or asphalt       | Soil Class 1<br>Dense<br>sand or gravel | Soil Class 2<br>Medium<br>sandy gravel | Soil Class 3<br>Loose medium-<br>to-fine sand | Soil Class 4<br>Loose fine un-<br>compacted sand |
|-----------------------|-----------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------------|--------------------------------------------------|
| PE46-Hex<br>PE46-Hex8 | <b>14,000 lb</b><br>62.3 kN | <b>9,500 lb</b><br>42.3 kN              | <b>3,300 lb</b><br>14.7 kN             | <b>2,000</b><br>8.90 kN                       | <b>1,100</b><br>4.89 kN                          |
| PE36                  | <b>8,400 lb</b><br>37.4 kN  | <b>6,000 lb</b><br>26.7 kN              | <b>2,100 lb</b><br>9.34 kN             | <b>1,000</b><br>4.45 kN                       | <b>350 lb</b><br>1.56 kN                         |
| PE26                  | <b>4,500 lb</b><br>20.0 kN  | <b>3,100 lb</b><br>13.8 kN              | <b>1,100 lb</b><br>4.89 kN             | <b>630 lb</b><br>2.80 kN                      | <b>360 lb</b><br>1.60 kN                         |
| PE18<br>PE18-SQ       | <b>2,500 lb</b><br>11.1 kN  | <b>1,700 lb</b><br>7.56 kN              | <b>600 lb</b><br>2.67 kN               | <b>350 lb</b><br>1.56 kN                      | <b>200 lb</b><br>0.89 kN                         |
| PE14                  | <b>2,500 lb</b><br>11.1 kN  | <b>1,700 lb</b><br>7.56 kN              | <b>600 lb</b><br>2.67 kN               | <b>350 lb</b><br>1.56 kN                      | <b>200 lb</b><br>0.89 kN                         |





**Anchors for solar arrays are part of our PENETRATOR lineup**

## PENETRATORS



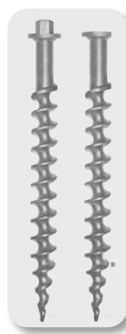
9"



10"



14"



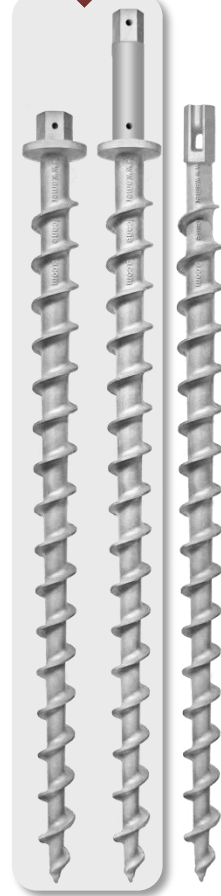
18"



26"



36"



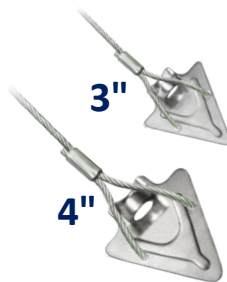
46"

## CABLED ANCHORS



3"

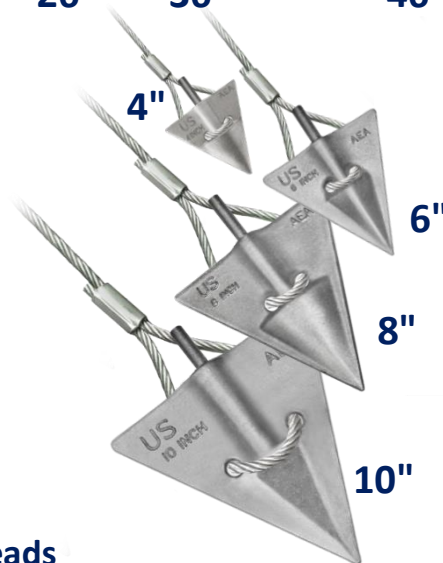
Bullet



3"

4"

Steel Arrowheads



4"

6"

8"

10"

Aluminum Arrowheads



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