American Earth Anchors

The best screw you will have in the dirt™

PERMANENT
TEMPORARY

Soil
Sand
Asphalt
Underwater

General Catalog
Penetrator®

- Soil
- Sand
- Asphalt
- Underwater

Reusable
Screw in, screw out

Strong
Cast aluminum 356 alloy aircraft-quality aluminum heat-treated to T6 specification

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

These three can be used in place of concrete footings
- No digging
- No forms
- No pouring
- No waiting
- Easy leveling
- HALF THE COST

Install with ...
Hand
Socket
Square drive

For detailed specifications and installation tips, visit americanearthanchors.com
Socket sizes

<table>
<thead>
<tr>
<th>US</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>19 mm</td>
</tr>
<tr>
<td>1&quot;</td>
<td>26 mm</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>45 mm</td>
</tr>
<tr>
<td>2&quot;</td>
<td>51 mm</td>
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</table>

PE9  9" screw 3/8" hex head
PE-T9 9" screw T-handle
PE10 10" screw 1" hex head
PE14 14" screw 1/2" sq. drive
PE14-STD 14" screw 1/2" sq. drive
PE18 18" screw 1" hex head
PE18-SQ 18" screw 1/2" sq. drive

For detailed specifications and installation tips, visit americanearthatanchors.com
Penetrator®
Accessories

Brackets for
PE10 PE18 PE18SQ PE26
Galvanized steel

PE-L90 L-bracket
PE-Z44 Z-bracket for 4x4 lumber
PE-Z24 Z-bracket for 2x4 lumber
PE-Tent-15 For 1.5" pop-up tent leg

PE-2P For 2" pipe
PE-3P For 3" pipe
PE-4P For 4" pipe
PE-Tent-2 For 2" pop-up tent leg

PE-Swing24 Swing set bracket for 2x4 or 2x6 horizontal member
PE-Swing60 Swing set bracket for 2x4 or 2x6 slant member

Bracket for PE9
PE-Z118-P9 Z-bracket with 1½" step

PE-2U-Base For 2" post or pipe
PE-3R-Base For 2.5" post or pipe

We can make custom brackets to your specification

For detailed specifications and installation tips, visit americanearthanchors.com
Brackets for
**PE36  PE46**
Galvanized steel

**PE46-L90**
For attachment to vertical surface

**PE46-44H**
For attachment to horizontal 4x4

**PE46-44V**
For attachment to vertical 4x4

**PE46-UMP-10**
10" universal mounting plate

**PE46-2U**
For 2" pipe

Larger diameters available – please call

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**Tie-off Cables**
Galvanized steel aircraft cable

Attach to the Penetrator to provide a loop for bolted or guyed attachment to your structure

**PE46-TC**
Tie-off cable for PE36 PE46-Hex

3/8" x 19"

**PE-TC**
Tie-off cable for PE10 PE18-SQ PE18 PE26

1 1/4" x 15"

**PE-TC9**
Tie-off cable for PE9 PE-T9

3/32" x 10"

Can be doubled over to make a larger loop or to wrap around a structural member

Tie-off loop for PE46-Guy is a factory-installed option

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For detailed specifications and installation tips, visit americanearthanchors.com
# Penetrator®
## Bundles and Kits

Sets of twelve with reusable storage bag

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>PE9-B12</td>
<td>PE9</td>
</tr>
<tr>
<td>PE9-TC-B12</td>
<td>PE9 with tie-off cable</td>
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<tr>
<td>PE9-T9-B12</td>
<td>PE-T9</td>
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<tr>
<td>PE9-T9-TC-B12</td>
<td>PE-T9 with tie-off cable</td>
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<tr>
<td>PE10-B12</td>
<td>PE10</td>
</tr>
<tr>
<td>PE10-TC-B12</td>
<td>PE10 with tie-off cable</td>
</tr>
<tr>
<td>PE14-B12</td>
<td>PE14</td>
</tr>
<tr>
<td>PE14-STD-B12</td>
<td>PE14 with 6&quot; stud, nut, and washer</td>
</tr>
<tr>
<td>PE18-B12</td>
<td>PE18</td>
</tr>
<tr>
<td>PE18-TC-B12</td>
<td>PE18 with tie-off cable</td>
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<td>PE18-SQ-B12</td>
<td>PE18-SQ</td>
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<tr>
<td>PE18-SQ-TC-B12</td>
<td>PE18-SQ with tie-off cable</td>
</tr>
<tr>
<td>PE26-B12</td>
<td>PE26</td>
</tr>
<tr>
<td>PE26-TC-B12</td>
<td>PE26 with tie-off cable</td>
</tr>
</tbody>
</table>

Each set consists of 12 anchors or 12 anchors and 12 cables plus storage bag

For detailed specifications and installation tips, visit americanearthanchors.com
Stability and anti-theft for yard items
Four PE18-SQ flat-top anchors with tie-off cables

Hold-down for pop-up tent legs up to 1.5”
Four PE18 anchors and 4 foot plates

Swing set hold-down for horizontal elements
Two PE18-SQ flat-top anchors and 2 straight brackets
For 2x4 or 2x6 lumber

Swing set hold-down for angled elements
Two PE18-SQ flat-top anchors and 2 slant brackets

Swing set stronger hold-down for horizontal elements
Two PE26 anchors and 2 straight brackets
For 2x4 or 2x6 lumber

Swing set stronger hold-down for angled elements
Two PE26 anchors and 2 slant brackets

Tailgating Kit: Hold-down for pop-up tent plus some fun tailgating items
Four PE-T9 T-handle anchors and tie-off cables
StubbyStrip® drink caddy
Cheers® bottle opener sunglasses
Storage bag

For detailed specifications and installation tips, visit americanearthanchors.com
Cabled Anchors

- Soil
- Asphalt
- Sand
- Underwater

Galvanized steel aircraft cable
Stainless steel cable available

Bullet
Anodized cast aluminum
Aircraft-quality 356 alloy heat-treated to T6 specification

3"

3" 4" 4"
Steel Arrowhead
11 gauge galvanized steel

6" 8" 10"
Aluminum Arrowhead
Aircraft quality 356 aluminum alloy heat-treated to T6 specification

Cable Termination Options

Thimble
Galvanized steel
For bolted or guyed attachment to your structure

Cable clamps
Galvanized steel
To make a large loop to wrap around a structural member

Quickvise
For pull-through tensioning of the cable
Shell: Aluminum
Jaws: Galvanized steel
Spring: Stainless steel

Anchor disk
For holding down erosion mats and other surface textiles/films
Quickvise with 3½" HDPE disk and holes for roots

Anti-theft loop
For loop-around over a structural member
Swaged loop big enough for anchor to fit through

Depth not to scale

For detailed specifications and installation tips, visit americanearthanchors.com
Bullets

3"
- 3AL-36TH: 3’ cable Thimble
- 3AL-60CC: 5’ cable Cable clamps
- 3AL-60QV: 5’ cable Quickvise
- 3AL-120QV: 10’ cable Quickvise
- 3AL-36QV-Disk: 3’ cable Anchor disk
- 3AL-36AT: 3’ cable Anti-theft loop

Steel Arrowheads

3"
- 3ST-36TH: 3’ cable Thimble
- 3ST-60CC: 5’ cable Cable clamps
- 3ST-60QV: 5’ cable Quickvise
- 3ST-120QV: 10’ cable Quickvise
- 3ST-36QV-Disk: 3’ cable Anchor disk
- 3ST-36AT: 3’ cable Anti-theft loop

4"
- 4ST-48TH: 4’ cable Thimble
- 4ST-60CC: 5’ cable Cable clamps
- 4ST-60QV: 5’ cable Quickvise
- 4ST-120QV: 10’ cable Quickvise
- 4ST-48AT: 4’ cable Anti-theft loop

6"
- 6AL-60TH: 5’ cable Thimble
- 6AL-60CC: 5’ cable Cable clamps
- 6AL-120QV: 10’ cable Quickvise

8"
- 8AL-60TH: 5’ cable Thimble
- 8AL-60CC: 5’ cable Cable clamps

10"
- 10AL-72TH: 6’ cable Thimble
- 10AL-72CC: 6’ cable Cable clamps

Aluminum Arrowheads

Available in MILITARY SPECIFICATION version

For detailed specifications and installation tips, visit americanearthanchors.com
Cabled Anchors
Accessories

Drive Rods
For driving the anchor into the ground
Heat-treated steel

DON'T USE REBAR
It can't balance on the pin of aluminum arrowheads, and it can get stuck in bullets and steel arrowheads

DR-3ST
Drive rod for 3" bullet 3" steel arrowhead
3 ft (.9 m)
1⁄2" (13 mm) diameter

DR-4ST
Drive rod for 4" aluminum arrowhead
3 ft (.9 m)
3⁄4" (19 mm) diameter

DR-4HT
Drive rod for 6" and 8" aluminum arrowhead
4 ft (1.2 m)
1" (25 mm) diameter

DR-5HT
Drive rod for 8" and 10" aluminum arrowhead
5 ft (1.5 m)
1" (25 mm) diameter

DR-6HT
Drive rod for 8" and 10" aluminum arrowhead
6 ft (1.8 m)
1" (25 mm) diameter

Safety Holding Handle
DR-SSH
Safety holding handle for all drive rods

Hammering Heads
DR-DRH-SM
Hammering head for 3⁄4" drive rods DR-4ST DR-4HT

DR-DRH-LG
Hammering head for 1" drive rods DR-5HT DR-6HT

M Indicates product meets military specification
INTO THE BACK of bullets and steel arrowheads
OVER THE PIN of aluminum arrowheads

For detailed specifications and installation tips, visit americanearthanchors.com
Quickvise
For tensioning the cable’s attachment to your structure
Shell: Aluminum
Jaws: Galvanized steel
Spring: Stainless steel
No Tools needed

- **QV18**
  - 2"
  - Quickvise for cable diameter ⅜" (3 mm)
  - 1⅞"

- **QV316**
  - 2"
  - Quickvise for cable diameter ⅜" (4.8 mm)
  - 1⅞"

- **QV14**
  - 4½"
  - Quickvise for cable diameter ¼" (6.3 mm)
  - 1⅞"

Anchor Disk
For holding down erosion mats and other surface textiles/films
- Integral Quickvise
- 3½" collar to prevent pull-through
- Holes for roots

**QV18-Disk**
Anchor disk for cable diameter ⅜" (3 mm)
## Cabled Anchors

### Bundles and Kits

#### Sets of 10, 25, 50 anchors

<table>
<thead>
<tr>
<th>3&quot; Steel Arrowhead</th>
<th>4&quot; Steel Arrowhead</th>
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<tr>
<td><strong>3ST-36TH-B</strong></td>
<td><strong>4ST-48TH-B</strong></td>
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<td><strong>4ST-48TH-B</strong></td>
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<td><strong>3ST-36TH-B</strong></td>
<td><strong>4ST-48TH-B</strong></td>
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<tr>
<td>50</td>
<td>50</td>
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<tr>
<td><strong>3ST-60CC-B</strong></td>
<td><strong>4ST-60CC-B</strong></td>
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<td>10</td>
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<tr>
<td><strong>4ST-48AT-B</strong></td>
<td></td>
</tr>
<tr>
<td>50</td>
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</tr>
</tbody>
</table>

- Thimble 36" cable
- Cable clamps 60" cable
- Quickvise 60" cable
- Quickvise 120" cable
- Anchor disk 36" cable
- Anti-theft loop 36" cable
- Thimble 48" cable
- Cable clamps 60" cable
- Quickvise 60" cable
- Quickvise 120" cable
- Anti-theft loop 48" cable

**Sets of 10**
- Include one 36" drive rod and come in a box

**Sets of 25 and 50**
- Come in a 6-gallon bucket (no drive rod)

For detailed specifications and installation tips, visit americanearthanchors.com
3" Bullet

- 3AL-36TH-B10
- 3AL-36TH-B25
- 3AL-36TH-B50

- 3AL-60CC-B10
- 3AL-60CC-B25
- 3AL-60CC-B50

- 3AL-60QV-B25

- 3AL-120QV-B25

- 3AL-36QV-DISK-B25

- 3AL-36AT-B10
- 3AL-36AT-B25
- 3AL-36AT-B50

Sets of 10 include one 36" drive rod and come in a box.

Sets of 25 and 50 come in a 6-gallon bucket (no drive rod).

ANTI-THEFT Kit
- Four 3" arrowheads or bullets with anti-theft loop
- One 30" drive rod

SHED Kit
- Eight 3" arrowheads or bullets with cable clamps
- One 30" drive rod

For detailed specifications and installation tips, visit americanearthanchors.com
Installation Accessories

T-Handles
For manual installation of Penetrators that take 1" socket or 1/2" square drive

PE10  PE14
PE18  PE14-STD
PE26  PE18-SQ

PE10  PE18  PE26

PE-MTH
Flat bar handle with 1" socket

PE-MTH
Non-ratcheting T-handle

PE-RTH
Ratcheting T-handle

1" socket dapter
1/2" square drive tip
Comes apart for easy storage
Both models have both

Impact Wrenches & Sockets

PE-Impact-1-Rental
Rental: Milwaukee 18V cordless with 1" socket

PE-Impact-2-Rental
Rental: Makita TW1000 120V with 2" socket

PE-1.75
1 3/4" 6-pt socket, 1" drive
PE46-Hex8

PE-Socket-1
1" 6-pt socket, 1/2" drive
PE10  PE18  PE26

PE-Socket-2
2" 6-pt socket, 1" drive
PE36  PE46-Hex  PE46-Guy

Anchor Locker / Proof Tester
- For setting (locking/turning) large cabled anchors that cannot be set manually or by mechanical leverage methods
- To set an anchor to a desired pullout resistance

AL-15000-120V
Electric anchor locker - 120V

AL-15000-220V
Electric anchor locker - 220V

AL-10000
Manual pump anchor locker

For detailed specifications and installation tips, visit americanearthanchors.com
Pullout Strength

PENETRATORS

**LOAD CAPACITY**

Field-tested pullout resistance by third-party testing service

<table>
<thead>
<tr>
<th>SOIL CLASSIFICATION</th>
<th>PE9 PE16</th>
<th>PE10 PE16-STD</th>
<th>PE18 PE18-SQ</th>
<th>PE20 PE24</th>
<th>PE36 PE46-Hexa</th>
<th>PE46-Guy</th>
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<tbody>
<tr>
<td>Hardpan Asphalt</td>
<td>400</td>
<td>1,000</td>
<td>2,500</td>
<td>4,500</td>
<td>8,400</td>
<td>14,000</td>
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<tr>
<td>Sandy gravel</td>
<td>200</td>
<td>700</td>
<td>1,700</td>
<td>3,100</td>
<td>6,000</td>
<td>9,500</td>
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<tr>
<td>Very dense sand</td>
<td>100</td>
<td>350</td>
<td>600</td>
<td>1,100</td>
<td>2,100</td>
<td>3,300</td>
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<tr>
<td>Silty or clayey sand</td>
<td>200</td>
<td>350</td>
<td>630</td>
<td>1,000</td>
<td>2,000</td>
<td></td>
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<tr>
<td>Silty gravel</td>
<td>100</td>
<td>200</td>
<td>360</td>
<td>550</td>
<td>750</td>
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<tr>
<td>Loose to med dense sands</td>
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</tr>
<tr>
<td>Firm clays</td>
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<td></td>
</tr>
<tr>
<td>Loose clays</td>
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<tr>
<td>Uncompacted fill</td>
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</table>

Cabled Anchors

**LOAD CAPACITY**

Field-tested pullout resistance by third-party testing service

<table>
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<tr>
<th>SOIL CLASSIFICATION</th>
<th>Minimum depth</th>
<th>Minimum depth</th>
<th>Minimum depth</th>
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<th>Minimum depth</th>
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<tbody>
<tr>
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<td>3''</td>
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<td>3''</td>
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<tr>
<td>Sandy gravel</td>
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<td>1,100 lb</td>
<td>2,000 lb</td>
<td>1,100 lb</td>
<td>3,500 lb</td>
<td>3,150 lb</td>
<td>3,500 lb</td>
<td>5,000 lb</td>
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<tr>
<td>Very dense sand</td>
<td>1,800 lb</td>
<td>1,100 lb</td>
<td>1,800 lb</td>
<td>1,100 lb</td>
<td>2,200 lb</td>
<td>2,200 lb</td>
<td>2,200 lb</td>
<td>3,000 lb</td>
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<tr>
<td>Silty or clayey sand</td>
<td>1,700 lb</td>
<td>1,100 lb</td>
<td>1,700 lb</td>
<td>1,100 lb</td>
<td>1,900 lb</td>
<td>1,900 lb</td>
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<td>2,000 lb</td>
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<tr>
<td>Silty gravel</td>
<td>600 lb</td>
<td>600 lb</td>
<td>600 lb</td>
<td>600 lb</td>
<td>900 lb</td>
<td>900 lb</td>
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<td>350 lb</td>
<td>350 lb</td>
<td>475 lb</td>
<td>475 lb</td>
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<td>600 lb</td>
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<tr>
<td>Uncompacted fill</td>
<td>350 lb</td>
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<td>350 lb</td>
<td>350 lb</td>
<td>475 lb</td>
<td>475 lb</td>
<td>475 lb</td>
<td>600 lb</td>
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</table>

For detailed specifications and installation tips, visit americanearthanchors.com
Anchor Lineup

PENETRATORS®

CABLED ANCHORS

Bullet

Steel Arrowheads

Aluminum Arrowheads