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

9"  10"  14"  18"  26"  36"  46"

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>
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<tbody>
<tr>
<td>¾&quot;</td>
<td>19 mm</td>
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<tr>
<td>1&quot;</td>
<td>26 mm</td>
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<tr>
<td>1¼&quot;</td>
<td>45 mm</td>
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<tr>
<td>2&quot;</td>
<td>51 mm</td>
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</tbody>
</table>

- **PE9** 9" screw ¾" hex head
- **PE-T9** 9" screw T-handle
- **PE10** 10" screw 1" hex head
- **PE14** 14" screw ½" sq. drive
- **PE14-STD** 14" screw ½" sq. drive
- **PE18** 18" screw 1" hex head
- **PE18-SQ** 18" screw ½" sq. drive
- **PE26** 26" screw 1" hex head
- **PE36** 36" screw 2" hex head
- **PE46-Hex** 46" screw 2" hex head
- **PE46-Hex8** 46" screw 8" extended head 1¼" hex head
- **PE46-Guy** 46" screw Guying slot 2" hex head

For detailed specifications and installation tips, visit [americanearthanchors.com](http://americanearthanchors.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 1⅛" 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

1/4" x 15"

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

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

3/32" x 10"

3/4"-10 bolt
Bolt not included

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

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

Sets of twelve with reusable storage bag

- **PE9-B12**: PE9
- **PE9-TC-B12**: PE9 with tie-off cable
- **PE9-T9-B12**: PE-T9
- **PE9-T9-TC-B12**: PE-T9 with tie-off cable
- **PE10-B12**: PE10
- **PE10-TC-B12**: PE10 with tie-off cable
- **PE14-B12**: PE14
- **PE14-STD-B12**: PE14 with 6” stud, nut, and washer
- **PE18-B12**: PE18
- **PE18-TC-B12**: PE18 with tie-off cable
- **PE18-SQ-B12**: PE18-SQ
- **PE18-SQ-TC-B12**: PE18-SQ with tie-off cable
- **PE26-B12**: PE26
- **PE26-TC-B12**: PE26 with tie-off cable

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

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

- Soil
- Sand
- Asphalt
- 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" 6" 8" 10"

Steel Arrowhead
11 gauge galvanized steel

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

8"

8AL-60TH  5' cable Thimble
8AL-60CC  5' cable Cable clamps
8AL-60QV-Disk 5' cable Quickvise
8AL-36QV-Disk 3' cable Anchor disk
8AL-36AT 3' cable Anti-theft loop

Aluminum Arrowheads

And equivalent MILITARY SPECIFICATION version

4"

4AL-48TH  4' cable Thimble
4AL-60CC  5' cable Cable clamps
4AL-60QV  5' cable Quickvise
4AL-120QV 10' cable Quickvise

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
8AL-60QV-Disk 5' cable Quickvise
8AL-36QV-Disk 3' cable Anchor disk
8AL-36AT 3' cable Anti-theft loop

10"

10AL-72TH  6' cable Thimble
10AL-72CC  6' cable Cable clamps
10AL-72QV  6' cable Quickvise

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" steel arrowhead
3 ft (.9 m)
3/4" (19 mm) diameter

DR-4HT
Drive rod for 4" aluminum arrowhead
4 ft (1.2 m)
3/4" (19 mm) diameter

DR-5HT
Drive rod for 6" and 8" 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
Quickvise for cable diameter 7/8" (3 mm)

2"
1¼"

QV316
Quickvise for cable diameter 3/16" (4.8 mm)

2"
1¼"

QV14
Quickvise for cable diameter 1/4" (6.3 mm)

4¼"
1½"

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 7/8" (3 mm)

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

Sets of 10, 25, 50 anchors

Last number in SKU
tells how many in set

3ST-36TH-B10
3ST-36TH-B25
3ST-36TH-B50

3ST-60CC-B10
3ST-60CC-B25
3ST-60CC-B50

3ST-60QV-B25

3ST-36QV-DISK-B25

3ST-36AT-B10
3ST-36AT-B25
3ST-36AT-B50

4ST-48TH-B10
4ST-48TH-B25
4ST-48TH-B50

4ST-60CC-B10
4ST-60CC-B25
4ST-60CC-B50

4ST-60QV-B25

4ST-120QV-B25

4ST-48AT-B10
4ST-48AT-B25
4ST-48AT-B50

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
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

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

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

3ST-36AT-B4
3AL-36AT-B4

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

3ST-60CC-B8
3AL-60CC-B8

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

T-Handles

For manual installation of Penetrators that take 1" socket or ½" square drive

PE10  PE14
PE18  PE14-STD
PE26  PE18-SQ

PE-MTH
Non-ratcheting T-handle

Ratcheting T-handle

1" socket dapter

PE-MTH
Flat bar handle with 1" socket

1/2" square drive tip

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-Socket-1
1" 6-pt socket, ½" drive
PE10 PE18 PE26

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

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

As a proof tester, can be used with any anchor from any manufacturer

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

PENETRATORS

SOIL CLASSIFICATION per ASTM D-2487/2488

1. Hardpan, Asphalt
   - PE9 PE-T9: 400, 1000, 2500

2. Sandy gravel, Very dense sand
   - PE10: 200, 700, 1700

3. Silty or clayey sand, Silty gravel
   - PE14: 100, 350, 600
   - PE18-STD: 200, 350, 630

4. Loose to medium dense sands, Loose clays
   - PE20: 100, 200, 360
   - PE36: Less than 100, 200, 550

5. Uncompacted fill
   - PE45-Hex: 14,000, 9,500, 3,300
   - PE45-Guy: 14,000, 9,500, 3,300

LOAD CAPACITY

Field-tested pullout resistance by third-party testing service

CABLED ANCHORS

LOAD CAPACITY

Field-tested pullout resistance by third-party testing service

SOIL CLASSIFICATION per ASTM D-2487/2488

1. Hardpan, Asphalt
   - Minimum depth: 2', 3', 4'
   - Load capacity: 2000 lb, 1100 lb, 1100 lb

2. Sandy gravel, Very dense sand
   - Minimum depth: 2', 3', 4'
   - Load capacity: 1800 lb, 1100 lb, 1200 lb

3. Silty or clayey sand, Silty gravel
   - Minimum depth: 2', 3', 4'
   - Load capacity: 1700 lb, 1100 lb, 1200 lb

4. Loose to medium dense sands, Loose clays
   - Minimum depth: 2', 3', 4'
   - Load capacity: 600 lb, 600 lb, 900 lb

5. Uncompacted fill
   - Minimum depth: 3', 4', 5'
   - Load capacity: 350 lb, 350 lb, 475 lb

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

PENETRATORS®

9"  10"  14"  18"  26"  36"  46"

CABLED ANCHORS

Bullet
3"

Steel Arrowheads
3"  4"

Aluminum Arrowheads
4"  6"  8"  10"

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