

A large, stylized red swoosh graphic that starts from the top right, loops around the word "PIER", and ends with an arrowhead pointing towards the word "SEARCH".

PIERSEARCH

MANUFACTURER OF QUALITY CONCRETE ACCESSORIES

PRODUCT CATALOG

**WE ARE YOUR SOLUTION TO
REBAR CAGE ALIGNMENT!**

A grayscale background image showing several large, circular rebar cages. These cages are constructed from a dense grid of intersecting steel bars. Numerous long, straight rebar rods extend radially outwards from the perimeter of each cage, creating a starburst or sunburst effect. The cages are arranged in a row, receding into the distance.

www.piersearch.com • 800. 342.2409
sales@piersearch.com



**DON'T LEAVE
YOUR
REBAR CAGE
ALIGNMENT
TO CHANCE!**



Since 1986, Pieresearch has manufactured the finest quality concrete accessories for the construction industry. As the industry leader in rebar cage alignment, our products insure the proper alignment of reinforcing steel cages in drilled shafts and mat foundations. We manufacture the highest quality products for commercial and industrial construction, highways and bridges, high rise structures, hotels, resorts, events centers and so much more.

The sole purpose of our products is to keep a reinforcing steel cage centered and off of the floor of a drilled shaft to insure proper alignment and concrete cover in accordance with the project specifications. And, everything we make is proudly made in the U.S.A.

For nearly thirty years Pieresearch has manufactured the highest quality products for your construction projects including commercial, industrial and bridge construction. And, we have integrated systems for every job! We also manufacture custom accessories to meet any specification.

**PIERESEARCH, HELPING BUILD A BETTER FOUNDATION
FOR AMERICA!**

***Visit www.pieresearch.com today for instructional videos,
schematics, spec kits, quote requests and
our innovative Product Quantity Calculator.***

Quick-Lock HD™ Heavy Duty Pier Wheels



Quick-Lock HD™ installation is a snap and is designed to properly position a reinforcing steel cage in a drilled shaft. Without proper alignment, the rebar cage cannot perform the function for which it was designed.

Quick-Lock HD™ pier wheels are made of durable, noncorrosive plastic and fit numbers 3 through 7 rebar ties. They are also perfect for a variety of other applications where concrete cover must be maintained.



The table below illustrates the recommended number of **Quick-Lock HD™** wheels to be used on a per shaft basis. The actual number can vary subject to the number of vertical bars of the reinforcing steel cage. The structural engineer is the governing authority. When in doubt, please check with the structural engineer.

RECOMMENDED QUICK-LOCK HD™ WHEELS PER REINFORCING CAGE				
Pier Shaft Depth In Feet	Pier Shaft Diameter In Inches			
	Up to 48"	49" to 72"	73" to 96"	97" to 120"
0' to 12'	8	12	16	20
13' to 24'	12	18	24	30
25' to 36'	16	24	32	40
37' to 48'	24	36	48	60
49' to 60'	28	42	56	70
61' to 72'	36	54	72	90
73' to 84'	40	60	80	100
85' to 96'	48	72	96	120
97' to 108'	52	78	104	130
109' to 120'	60	90	120	150
121' to 132'	64	96	128	160
133' to 144'	72	108	144	180

Part No.	Description
4QLHD	4" Quick-Lock HD™ wheel provides 2 inches of concrete cover* and fits rebar sizes #3 thru #7
6QLHD	6" Quick-Lock HD™ wheel provides 3 inches of concrete cover** and fits rebar sizes #3 thru #7
7QLHD	7" Quick-Lock HD™ wheel provides 3 inches of concrete cover* and fits rebar sizes #3 thru #7
8QLHD	8" Quick-Lock HD™ wheel provides 4 inches of concrete cover** and fits rebar sizes #3 thru #7
12QLHD	12" Quick-Lock HD™ wheel provides 6 inches of concrete cover** and fits rebar sizes #3 thru #7

*Actual Clearance or Concrete Cover is measured from the outside of the circle tie, spiral, etc. of the reinforcing steel cage to the side of the drilled shaft.

**Nominal Clearance or Concrete Cover is measured from the outside of the vertical bar of the reinforcing steel cage to the side of the drilled shaft.

**UNIQUE
ONE-PIECE DESIGN!**



Quick-Lock™ Pier Wheels

Quick-Lock™ Pier Wheel installation is a snap and is designed to properly position a reinforcing steel cage in a drilled shaft. Without proper alignment, the rebar cage cannot perform the function for which it was designed.

Quick-Lock™ Pier Wheels are made of durable, noncorrosive plastic and fit numbers 3 through 7 rebar ties. They are also perfect for a variety of other applications where concrete cover must be maintained.

The table below illustrates the recommended number of **Quick-Lock™ Pier Wheels** to be used on a per shaft basis. The actual number can vary subject to the number of vertical bars of the reinforcing steel cage. The structural engineer is the governing authority. When in doubt, please check with the structural engineer.

RECOMMENDED QUICK-LOCK™ WHEELS PER REINFORCING CAGE

Pier Shaft Depth In Feet	Pier Shaft Diameter In Inches				
	Under 30"	31" to 48"	49" to 72"	73" to 96"	97" to 120"
0' to 12'	9	12	18	24	30
13' to 24'	14	18	27	36	45
25' to 36'	18	24	36	48	60
37' to 48'	23	30	45	60	75
49' to 60'	27	36	54	72	90
61' to 72'	32	42	63	84	105
73' to 84'	36	48	72	96	120
85' to 96'	41	54	81	108	135
97' to 108'	45	60	90	120	150
109' to 120'	54	72	108	144	180
121' to 132'	59	78	117	156	195
133' to 144'	63	84	126	168	210

Part No.

Description

4QLPW	4" Quick-Lock™ wheel provides 2 inches of concrete cover and fits rebar sizes #3 thru #7
6QLPW	6" Quick-Lock™ wheel provides 3 inches of concrete cover and fits rebar sizes #3 thru #5
8QLPW	8" Quick-Lock™ wheel provides 4 inches of concrete cover and fits rebar sizes #3 thru #7

All Quick-Lock™ Pier Wheels provide Actual Clearance.

Actual Clearance or Concrete Cover is measured from the outside of the circle tie, spiral, etc. of the reinforcing steel cage to the side of the drilled shaft.

Pier Boots™ & Bar Boosters™

Pier Boots™ are designed to support a reinforcing steel cage within a drilled shaft with a 3" concrete cover requirement, are made of durable, noncorrosive plastic and attach to rebar sizes #5 thru #14.

Pier Boots™ are also great for supporting reinforcing steel over waterproofing, in mat foundations and providing vertical support of slurry walls.

Installation is accomplished in seconds by simply pushing the **Pier Boot™** onto the end of a vertical bar of the rebar cage. The recommended spacing for installation is one **Pier Boot™** on every other vertical bar for piers under 48 inches in diameter or one **Pier Boot™** on every vertical bar for piers 48 inches in diameter and over.



Bar Boosters™ are designed to support a reinforcing steel cage within a drilled shaft with a 3" concrete cover requirement, are made of durable, noncorrosive plastic and attach to rebar of any size. The zip tie used for attachment is made of 170 pound tensile strength resin.

Bar Boosters™ are also great for supporting reinforcing steel over waterproofing, in mat foundations and providing vertical support of slurry wall mats.

Installation is accomplished in seconds by simply positioning the **Bar Booster™** on the end of a vertical bar of the cage and pulling the zip tie taut. The recommended spacing for installation is one **Bar Booster™** on every other vertical bar for piers under 48 inches in diameter or one **Bar Booster™** on every vertical bar for piers 48 inches in diameter and over.



PIERESEARCH™ QUICK-LOCK™ UNIBAR™ CENTRALIZERS

Soil Nailing - Tendon/Rebar Alignment and Support

QUICK-LOCK™ UNIBAR™ CENTRALIZERS

The answer to uniform reinforcement steel spacing requirements in single-bar foundation/tieback elements. To achieve proper design strength in any drilled and grouted/concreted hole, the tendon/rebar or anchor material must be centered in the shaft to allow minimum coverage throughout the length of the element.



Patent Pending

APPLICATION

QUICK-LOCK™ UNIBAR™ CENTRALIZERS are designed to keep the tendon/bar centered in the bore/drill hole to allow for minimum grout/concrete coverage and do not impede flow of grout within bore/drill hole and around tendon. They are made of durable non-corrosive plastic and consisting of two identical halves that are fast and easy to snap together. QUICK-LOCK™ UNIBAR™ CENTRALIZERS will accommodate Single Bar, Multi-Bar/Strand Anchors, Encapsulated (DCP) Anchors, and Steel or Plastic Pipe Applications. They are ideal for Soil Nails, Rock/Soil Anchors, Micro-Piles, and Auger-Cast Piles with single tension bars.

ADVANTAGES

- 2 identical halves
- easy to snap together
- made of durable non-corrosive plastic
- can be attached with zip ties or tie wire
- offset to fit between rebar threads
- keeps single tendon/bar centered within a drill hole
- ideal for soil nail applications
- no nuts or bolts required
- lightweight and economical

ASSEMBLY

Quickly assemble the QUICK-LOCK™ UNIBAR™ CENTRALIZER by easily snapping the two inverted identical halves together over the tendon/rebar and either tying it on with tie wire, or with a zip tie threaded through the end tab slots.

PLACEMENT

The lowest QUICK-LOCK™ UNIBAR™ CENTRALIZER should be installed approximately 1 foot from the end of the tendon/bar material. Each successive QUICK-LOCK™ UNIBAR™ CENTRALIZER should be placed at no greater than 10-foot intervals. The upper QUICK-LOCK™ UNIBAR™ CENTRALIZER should be approximately 1 foot below grout/concrete surface.

Part No.	Description
4-6UBC	4" shafts fits tendon/rebar sizes #5 thru #6
4-8UBC	4" shafts fits tendon/rebar sizes #7 thru #8
6-6UBC	6" shafts fits tendon/rebar sizes #5 thru #6
6-8UBC	6" shafts fits tendon/rebar sizes #7 thru #8

Part No.	Description
4-6UBC	4" shafts fits tendon/rebar sizes #5 thru #6
4-8UBC	4" shafts fits tendon/rebar sizes #7 thru #8
6-6UBC	6" shafts fits tendon/rebar sizes #5 thru #6
6-8UBC	6" shafts fits tendon/rebar sizes #7 thru #8

100 parts per bag. Bag weight approx. 22 pounds.
16 bags per pallet.

MANUFACTURER and ORDERING

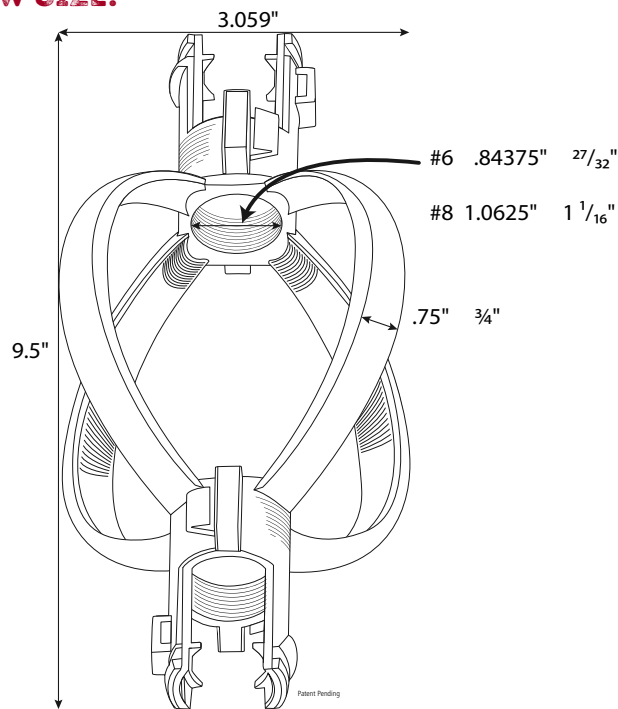
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Customer/Technical Services:
800/342-2409 • 817/265-0980 • Fax 817/275-2335
Website: www.pieresearch.com
Email: sales@pieresearch.com
Visit our website for for spec kits, how to videos and ordering information.

All Pieresearch concrete accessories are proudly made in the United States of America.

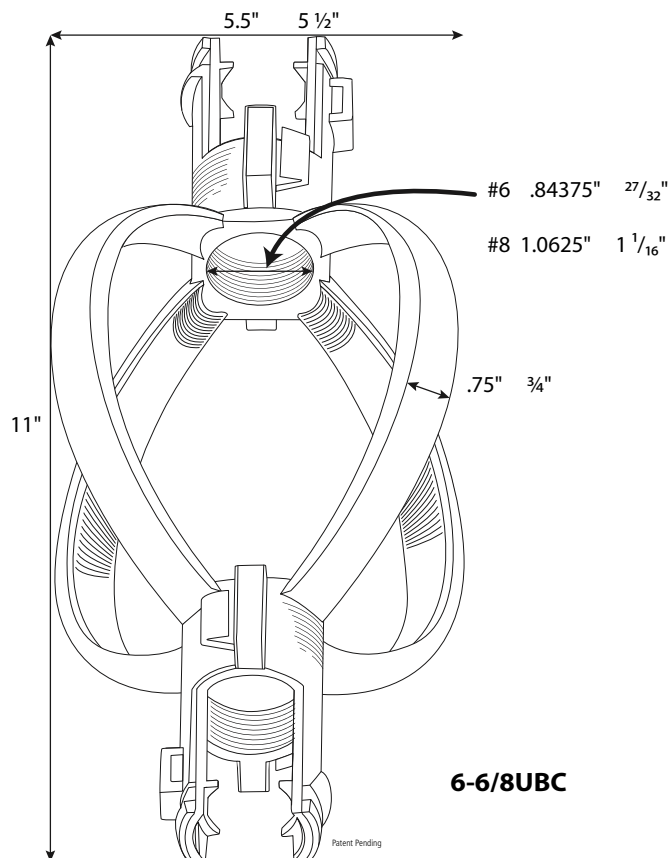
WARRANTY (ACCESSORIES)

Limited Warranty. Pieresearch warrants that Products manufactured by it will be free from defects in material and workmanship for a period of 60 days from the date of shipment. Any claim under this warranty must be made in writing within such warranty period. If any Products covered by a timely claim are found to be defective, Pieresearch will, within a reasonable time replace the Products. Unless authorized in advance by Pieresearch in writing, Pieresearch will not accept any charges for the return of any Products for warranty purposes. This limited warranty will not apply to any Products that have been subjected to misuse, neglect, storage damage, misapplication, accident or any other damage caused by any person other than Pieresearch. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES AS TO THE PRODUCTS. PIERESEARCH MAKES NO OTHER WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE. THE REMEDIES SET FORTH IN THIS SECTION ARE CUSTOMER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY.

NEW SIZE!



4-6/8UBC



6-6/8UBC

PIERESEARCH UNIBAR SPECS • SECTION 31 32 39 SOIL NAILING ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Soil nailing tendon accessories indicated, specified, or required to complete installation.

1.2 SUBMITTALS

- A. Product Data: Manufacturers technical literature for each type of manufactured material and product specified.
- B. Certification: Manufacturer's written certification that products furnished comply with or exceed specified requirements.

1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified with minimum of three years documented experience.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle materials to prevent damage.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. PIERESEARCH, 501 East Main Street, Arlington TX, 76010; phone (800) 342-2409; (817) 265 0980; Fax (817) 275.2335; www.pieresearch.com.
- B. For manufacturers not listed, submit as substitution according to the Conditions of the Contract and Division 01 Specification Sections.

2.2 TENDON CENTRALIZERS (QUICK-LOCK™ UNIBAR™ CENTRALIZERS)

- A. Description:
 1. Centralizer is made of plastic and are two identical halves that can be easily snapped together around soil nail tendon.
 2. Centralizer keeps soil nail tendon centered in drilled shaft and does not impede flow of grout/concrete.
 3. Centralizer Part Number:

NOTE TO SPECIFIER: SELECT ONE OF THE FOLLOWING FOUR OPTIONS:

- a. 4-6UBC: 4 inch diameter shafts fits tendon sizes of #5 through #6
- b. 4-8UBC: 4 inch diameter shafts fits tendon sizes of #7 through #8
- c. 6-6UBC: 6 inch diameter shafts fits tendon sizes of #5 through #6.
- d. 6-8UBC: 6 inch diameter shafts fits tendon sizes of #7 through #8.

EXECUTION

2.3 INSTALLATION

- A. Attach centralizers to soil nail tendon according to manufacturer's instructions.
- B. Snap two pieces together around soil nail tendon with one piece being inverted to the other piece.
- C. Attachment Locations:
 1. At deep end of drilled shaft, attach centralizer at approximately 1 foot from end of the soil nail tendon.
 2. Attach centralizer at maximum 10 foot intervals along total length of soil nail tendon.
 3. At access end of drilled shaft, attach centralizer so that it will be approximately 1 foot below grout/concrete surface.
- D. To prevent sliding, secure centralizer to soil nail tendon with tie wire or zip tie threaded through end tab slots.

**PIERESEARCH™ IS A PROUD MEMBER OF
THESE PROFESSIONAL ASSOCIATIONS:**



American Concrete Institute

Always advancing

Northeast Texas Chapter



The International Association of Foundation Drilling

Structural Engineers Association
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TO REBAR
CAGE ALIGNMENT.**



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