



Pin Foundations, Inc.

DiamondPier®

FOUNDATION SYSTEM

BUILDER TRAINING



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Pin Foundations, Inc.

Agenda

- Overview
- Advantages
- Soils
- Code Compliance
- Permit Process
- Applications
- What's Included
- Purchasing Diamond Pier
- Installation
- Warranty Info

DiamondPier®
FOUNDATION SYSTEM



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OVERVIEW - VIDEO

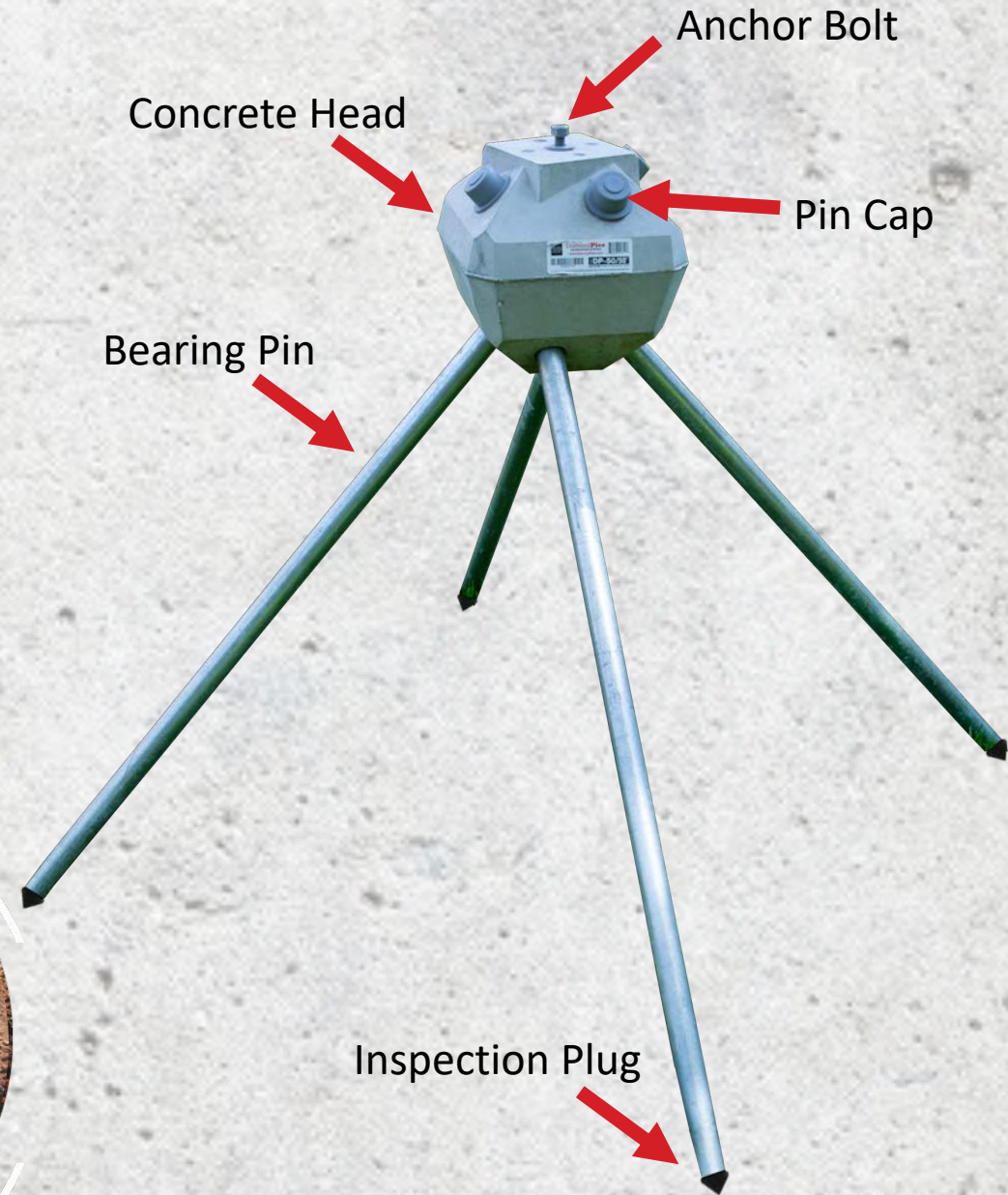


Watch the Video:
<https://vimeo.com/698612358>

WHAT IS A **DIAMOND PIER**?

A new concept in footings for simple residential projects.

Diamond Piers are foundations designed to replace the traditional concrete footings on **decks, gazebos, screen porches, and accessory structures.**



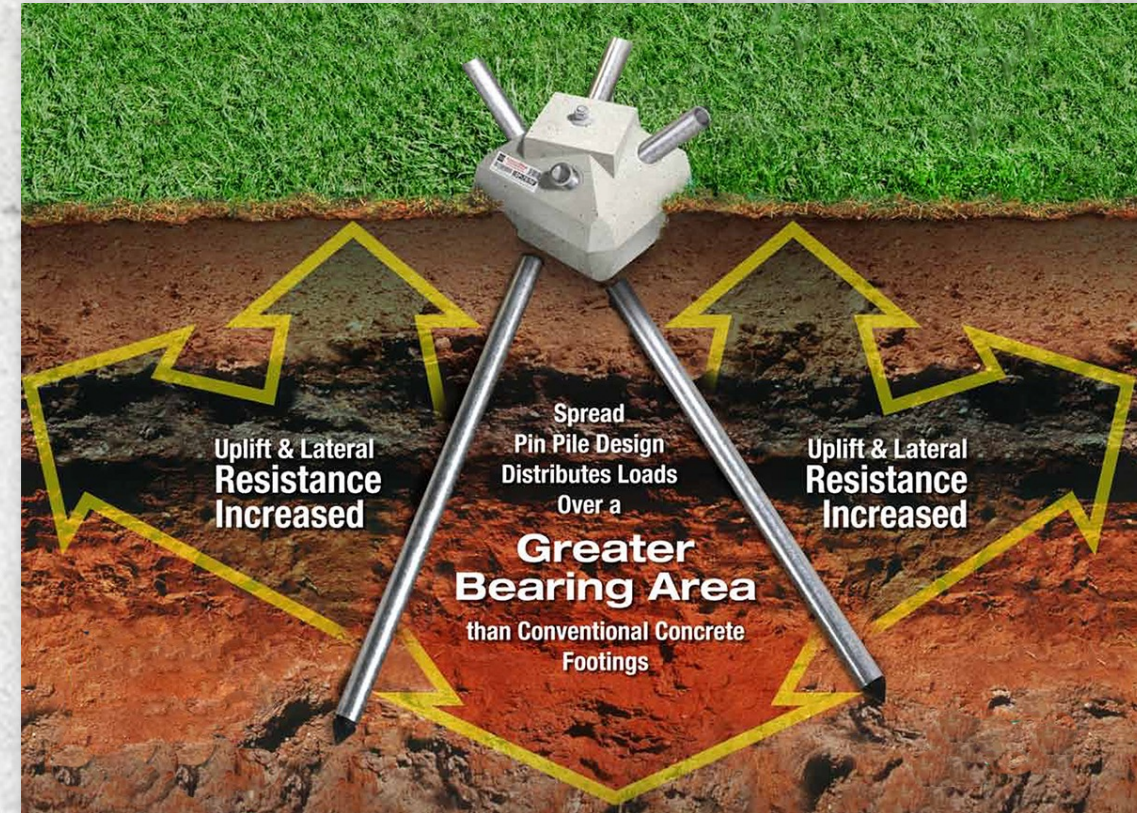
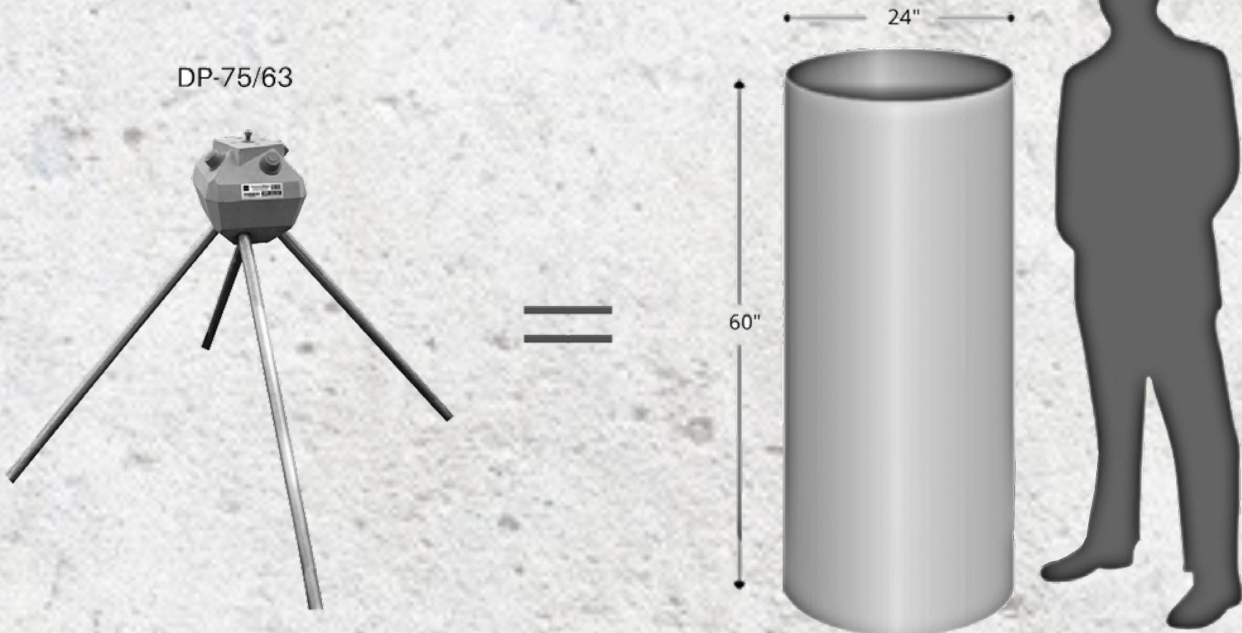
OVERVIEW OF DIAMOND PIER

Diamond Pier utilizes the inherent strength of undisturbed soils.

Provides equivalent strength for:

- Bearing
- Uplift
- Lateral loads

Equivalency to Traditional Concrete Footings:



Models:

DP-50/50 = Will support up to the same load as a 20" x 48' traditional concrete footing in 2000 psf soils.

DP-75/63 = Will support up to the same load as a 24" x 60' traditional concrete footing in 2000 psf soils.

ADVANTAGES OF DIAMOND PIER

Installs in Minutes

The Diamond Pier system can be installed in minutes, and you can frame immediately.

DECK PROJECT

Seven foundations were installed in less than an hour and project completed in **ONE DAY!**

Footing inspections can be done after completion.



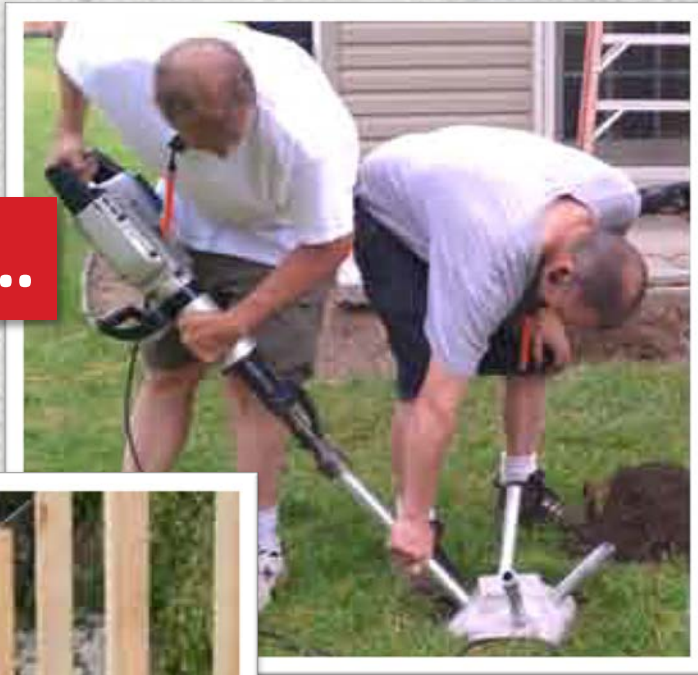
ADVANTAGES OF DIAMOND PIER

Frame Immediately

With Diamond Pier, builders can begin to frame immediately after installing the system.

- No Holes to Dig
- No Waiting for Concrete to Cure
- Complete Projects Days Faster

From this...



...to this



Before Lunch!

Sands or Clays



IAS-Accredited Third-Party Bearing, Uplift, and Lateral Field Tests²

Silts/Clays (CL, ML, MH, CH)³

Equivalency to Traditional Concrete Footings

Sands/Gravels (SW, SP, SM, SC, GM, GC)³

Equivalency to Traditional Concrete Footings

*Interpolated from field test values.

CLASS OF MATERIAL	LOAD-BEARING PRESSURE (pounds per square foot)
Crystalline bedrock	12,000
Sedimentary and foliated rock	4,000
Sandy gravel and/or gravel (GW and GP)	3,000
Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW, SP, SM, SC, GM and GC)	2,000
Clay, sandy, silty clay, clayey silt, silt and sandy siltclay (CL, ML, MH and CH)	1,500 ^b

For SI: 1 pound per square foot = 0.0479 kPa.

- a. Where soil tests are required by Section R401.4, the allowable bearing capacities of the soil shall be part of the recommendations.
- b. Where the building official determines that in-place soils with an allowable bearing capacity of less than 1,500 psf are likely to be present at the site, the allowable bearing capacity shall be determined by a soils investigation.

MN Residential Code

ICC-ES CODE COMPLIANCE

Under the IRC & Wisconsin UDC



Industry Services Division
4822 Madison Yards Way
P.O. Box 7302
Madison, WI 53701-7302

Approval # **BP-012200001-BVP**
(Replaces DIS-122157650
& 201612-O)

Wisconsin Building Product Evaluation

Material

Diamond Pier® DP-50 & DP-75
Bearing Pin Concrete Pier Foundation

Manufacturer

Pin Foundations, Inc.
321 Park Ave.
River Forest, IL 60305

SCOPE OF EVALUATION

The Diamond Pier® DP-50 & DP-75 precast concrete pier foundation assembly as manufactured by Pin Foundations, Inc. has been evaluated against the structural provisions of the current **Wisconsin Uniform Dwelling Code (UDC)**. The Diamond Pier® DP-50 & DP-75 precast concrete pier foundation assembly has been evaluated for use as a foundation for the support of gravity loads, as well as specified lateral & uplift loads for exterior decks, covered enclosed porches, sunrooms as defined in the 2018 IRC R301.2.1.1.1 Categories I through IV [as noted below, but also see UDC Sunroom definition in SPS 320.06(17)], elevated walkways and stairways as regulated by the current **Wisconsin Uniform Dwelling Code (UDC)** and some site accessory detached structures not directly covered by the UDC rules. This approval is not for support of habitable enclosed dwelling areas. This approval is for installation of these anchors per the manufacturer's installation manual to support/resist loads as tested and published with the adjustments as noted below.



www.icc-es.org | (800) 423-6587 | (562) 699-0543

ICC-ES Evaluation Report ESR-1895

A Subsidiary of the International Code Council®
Reissued December 2021
This report is subject to renewal December 2022.

DIVISION: 31 00 00—EARTHWORK
Section: 31 60 00—Special Foundations and Load-Bearing Elements

REPORT HOLDER:

PIN FOUNDATIONS, INC.

EVALUATION SUBJECT:

DIAMOND PIER® DP-50 & DP-75 FOR BEARING PIN PIERS

1.0 EVALUATION SCOPE

Compliance with the following codes:
2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)

Property evaluated:

Structural

2.0 USES

The Diamond Pier DP-50 and DP-75 bearing pin piers are used as foundations for the support of gravity loads for exterior decks, including covered decks, exterior porch decks, elevated walkways, stairway construction and accessory structures as defined in the IRC. The bearing pin piers are permitted for use in any of the weathering classifications defined in 2018 IRC Figure R301.2(4) or 2015, 2012, 2009 and 2006 IRC Figure R301.2(3).

3.0 DESCRIPTION

3.1 General:

The bearing pin piers consist of a factory-fabricated, precast, diamond-shaped concrete head that has a galvanized steel anchor bolt precast into the center of the top of the head; and galvanized steel bearing pins which are jobsite-installed through holes precast in the head, and driven into the underlying soil. See Figure 1.

3.2 Materials:

3.2.1 Concrete Head: The DP-50 concrete head measures 10 inches (254 mm) by 10 inches (254 mm) by 11 inches (279 mm) tall, weighs approximately 50 pounds (22.7 kg), and is formed from air-entrained, normal-weight concrete. The DP-75 concrete head measures 11 inches (279 mm) by 11 inches (279 mm) by 12 inches (305 mm) tall, weighs approximately 75 pounds (34.0 kg), and is formed from air-entrained, normalweight concrete. The air-

entrained concrete has a minimum compressive strength of 5500 psi (37.9 MPa) at 28 days, and a total air content (percent by volume of concrete) of not less than 5 percent nor more than 7 percent, in accordance with IRC Section R402.2.

3.2.2 Precast Galvanized Steel Anchor Bolt: The galvanized steel anchor bolt that is precast into the center of the top of the DP-50 concrete head measures a minimum 1/2 inch (12.7 mm) in diameter and complies with ASTM A307 as Grade A. The galvanized steel anchor bolt that is precast into the center of the top of the DP-75 concrete head measures a minimum 5/8 inch (15.9 mm) in diameter and complies with ASTM A307 as Grade A.

3.2.3 Steel Bearing Pins: The four steel bearing pins supplied with each pier are made of Type E, Grade A (electric-resistance-welded), Schedule 40, galvanized steel pipe complying with ASTM A53. For the DP-50, pins have a nominal 1-inch diameter [1.315-inch (33.4 mm) outside diameter; 0.133-inch nominal wall thickness]; and have a minimum nominal length of 36 inches (914 mm) or 50 inches (1270 mm). For the DP-75 the pins have a nominal 1 1/4-inch diameter [1.66-inch (42.2 mm) outside diameter with a 0.140 nominal wall thickness]; and have a minimum nominal length of 50 inches.

4.0 DESIGN AND INSTALLATION

4.1 Design:

When installed in accordance with this report in minimum allowable 1500 psf (71.8 kPa) soils per IRC Table R401.4.1, the DP-50 bearing pin pier with 36-inch (915 mm) pins provides a 1.8 square foot (0.17 m²) bearing area for supporting gravity loads; the DP-50 bearing pin pier with 50-inch (1270 mm) pins provides a 2.4 square foot (0.23 m²) bearing area for supporting gravity loads; and the DP-75 bearing pin pier with 50-inch (1270 mm) pins provides a 2.8 square foot (0.26 m²) bearing area for supporting gravity loads.

When installed in accordance with this report in minimum allowable 2000 psf (95.8 kPa) soils per IRC Table R401.4.1, the DP-50 bearing pin pier with 36-inch (915 mm) pins provides a 1.8-square-foot (0.17 m²) bearing area for supporting gravity loads; the DP-50 bearing pin pier with 50-inch (1270 mm) pins provides a 2.2-square-foot (0.20 m²) bearing area for supporting gravity loads; and the DP-75 bearing pin pier with 50-inch (1270 mm) pins provides a 3.2-square-foot (0.30 m²) bearing area for supporting gravity loads.

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PERMIT PROCESS

Apply for your permit from your municipality and provide the following documentation:

- ESR 1895 Diamond Pier code compliant document
- Detailed drawings of your project
- A copy of the Diamond Pier residential load chart; (found on page 6 of the Diamond Pier Installation Manual)
- Make sure to locate all underground utility lines prior to any digging.



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ICC-ES Evaluation Report
ESR-1895

Compliance with International Codes
Compliance with State Codes

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Reissued December 2021

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DiamondPier FOUNDATION SYSTEM

RESIDENTIAL DIAMOND PIER LOAD CHART

IAS-Accredited Third-Party Bearing, Uplift, and Lateral Field Tests²

Minimum 1500 psf
Silt/Clays (CL, ML, MH, CH)³

Model / Pin Length	Bearing Load Capacity	Equivalent Base Area	Cylinder Comparison	Frost Zone	Uplift Load Capacity	Lateral Load Capacity
DP-50/36"	2700#	1.8 sf	18" dia	24"	600#	600#
DP-50/42"	* 3000#	2.0 sf	19" dia	36"	* 900#	* 600#
DP-50/50"	3300#	2.2 sf	20" dia	48"	1200#	600#
DP-75/50"	* 3750#	2.5 sf	21" dia	48"	* 1400#	* 600#
DP-75/63"	4200#	2.8 sf	22" dia	60"	1600#	600#

Equivalency to Traditional Concrete Footings

Minimum 2000 psf
Sands/Gravels (SW, SP, SM, SC, GM, GC)³

Model / Pin Length	Bearing Load Capacity	Equivalent Base Area	Cylinder Comparison	Frost Zone	Uplift Load Capacity	Lateral Load Capacity
DP-50/36"	3600#	1.8 sf	18" dia	24"	600#	600#
DP-50/42"	* 4000#	2.0 sf	19" dia	36"	* 900#	* 600#
DP-50/50"	4400#	2.2 sf	20" dia	48"	1200#	600#
DP-75/50"	* 5600#	2.8 sf	22" dia	48"	* 1400#	* 600#
DP-75/63"	6400#	3.2 sf	24" dia	60"	1600#	600#

Equivalency to Traditional Concrete Footings

*Interpolated from field test values

Notes:

1. This load chart is intended for simple structures supported by columns, posts, and beams loaded up to, but not exceeding, the stated capacities. It is not intended for structures with asymmetrical, rotational, overturning, or dynamic forces. Intended uses are described in section 2.0 of ICC-ES prescriptive bearing evaluation report ESR-1895. For projects that exceed the capacities or limitations defined herein, or the intended uses described in ESR-1895, contact www.diamondpiers.com for additional information or site-specific capacity evaluation. See also the [Use and Applications](#) download at www.diamondpiers.com.
2. Capacities shown are tested to a Factor of Safety of 2, and are applicable in properly drained, normal sound soils only, with minimum soil bearing capacities as indicated. Copies of the field test reports are available from PFI upon request.
3. See IRC Table R401.4.1, "Presumptive Load-Bearing Values of Foundation Materials," for a full description of applicable 1500 psf and 2000 psf soil types. For soils below 1500 psf, or soils with unknown characteristics, additional site and design analysis is required. For soils above 2000 psf, the values in this chart shall apply.
4. All capacities use four pins of the specified length per foundation. Pin length includes that portion of the pin embedded within the concrete head. See "Check Your Layout" in the Diamond Pier Installation Manual for more information on pin/pier layout and spacing restrictions.
5. For professional engineers designing for short-term transient loads, contact PFI for further information.

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PIN FOUNDATIONS INC

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concrete has a minimum compressive strength of (37.9 MPa) at 28 days, and a total air content (by volume of concrete) of not less than 5 percent than 7 percent, in accordance with IRC Section

recast Galvanized Steel Anchor Bolt: The steel anchor bolt that is precast into the center of the DP-50 concrete head measures a minimum (12.7 mm) in diameter and complies with ASTM Grade A. The galvanized steel anchor bolt that is into the center of the top of the DP-75 concrete head is a minimum 5/8 inch (15.9 mm) in diameter and with ASTM A307 as Grade A.

Steel Bearing Pins: The four steel bearing pins with each pier are made of Type E, Grade A resistance-welded, Schedule 40, galvanized steel complying with ASTM A53. For the DP-50, pins have a 1-inch diameter [1.315-inch (33.4 mm) outside, 0.133-inch nominal wall thickness], and have a nominal length of 36 inches (914 mm) or less (1270 mm). For the DP-75 the pins have a 1 1/4-inch diameter [1.66-inch (42.2 mm) outside with a 0.140 nominal wall thickness], and have a nominal length of 50 inches.

DESIGN AND INSTALLATION

Design:
Installed in accordance with this report in minimum 1500 psf (71.8 kPa) soils per IRC Table R401.4.1, the DP-50 bearing pin pier with 36 inch (915 mm) pins provides a 1.8 square foot (0.17 m²) bearing area for gravity loads; the DP-50 bearing pin pier with 50 inch (1270 mm) pins provides a 2.2 square-foot (0.23 m²) area for supporting gravity loads; and the DP-75 pin pier with 50 inch (1270 mm) pins provides a 2.4 square foot (0.26 m²) bearing area for supporting gravity

Installed in accordance with this report in allowable 2000 psf (95.8 kPa) soils per IRC Table R401.4.1, the DP-50 bearing pin pier with 36-inch (915 mm) pins provides a 1.8-square-foot (0.17 m²) bearing area for gravity loads; the DP-50 bearing pin pier with 50 inch (1270 mm) pins provides a 2.2-square-foot (0.23 m²) bearing area for supporting gravity loads; and the DP-75 bearing pin pier with 50-inch (1270 mm) pins provides a 2.4-square-foot (0.30 m²) bearing area for gravity loads.

Specifically addressed, nor are they to be construed as an evaluation service, LLC, express or implied, as



Page 1 of 3

FROST STUDY

10-year Frost Study data shows:

99.7%

of all Diamond Pier installations resisted frost in severe Minnesota frost

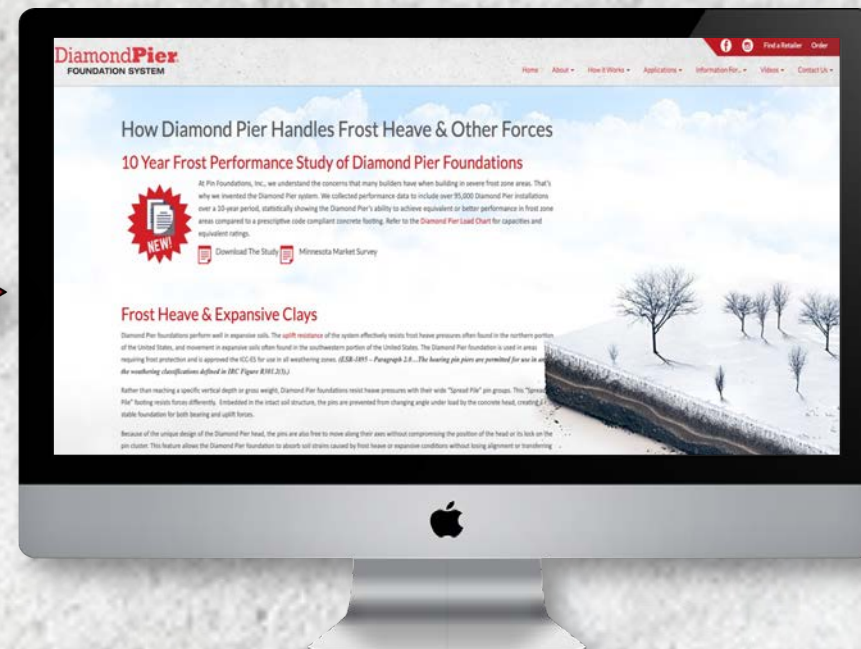
Download a copy at: www.DiamondPiers.com/frost-study



DP75-63" is equal up to a 24" diameter footing 60" deep!



=



APPLICATIONS



- Compliance with International Codes
- Compliance with State Codes

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REPORT HOLDER:

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EVALUATION SUBJECT:

DIAMOND PIER® DP-50 & DP-75 FOR BEARING PIN PIERS

1.0 EVALUATION SCOPE

Compliance with the following codes:

2018, 2015, 2012, 2009 and 2006 International Residential

entrained concrete has a minimum compressive strength of 5500 psi (37.9 MPa) at 28 days, and a total air content (percent by volume of concrete) of not less than 5 percent nor more than 7 percent, in accordance with IRC Section R402.2.

3.2.2 Precast Galvanized Steel Anchor Bolt: The galvanized steel anchor bolt that is precast into the center of the top of the DP-50 concrete head measures a minimum 1/2 inch (12.7 mm) in diameter and complies with ASTM A307 as Grade A. The galvanized steel anchor bolt that is precast into the center of the top of the DP-75 concrete head measures a minimum 5/8 inch (15.9 mm) in diameter and complies with ASTM A307 as Grade A.

3.2.3 Steel Bearing Pins: The four steel bearing pins supplied with each pier are made of Type E, Grade A

2.0 USES

The Diamond Pier DP-50 and DP-75 bearing pin piers are used as foundations for the support of gravity loads for exterior decks, including covered decks, exterior porch decks, elevated walkways, stairway construction and accessory structures as defined in the IRC. The bearing pin piers are permitted for use in any of the weathering classifications defined in 2018 IRC Figure R301.2(4) or 2015, 2012, 2009 and 2006 IRC Figure R301.2(3).

3.2.1 Concrete Head: The DP-50 concrete head measures 10 inches (254 mm) by 10 inches (254 mm) by 11 inches (279 mm) tall, weighs approximately 50 pounds (22.7 kg), and is formed from air-entrained, normal-weight concrete. The DP-75 concrete head measures 11 inches (279 mm) by 11 inches (279 mm) by 12 inches (305 mm) tall, weighs approximately 75 pounds (34.0 kg), and is formed from air-entrained, normal-weight concrete. The air-

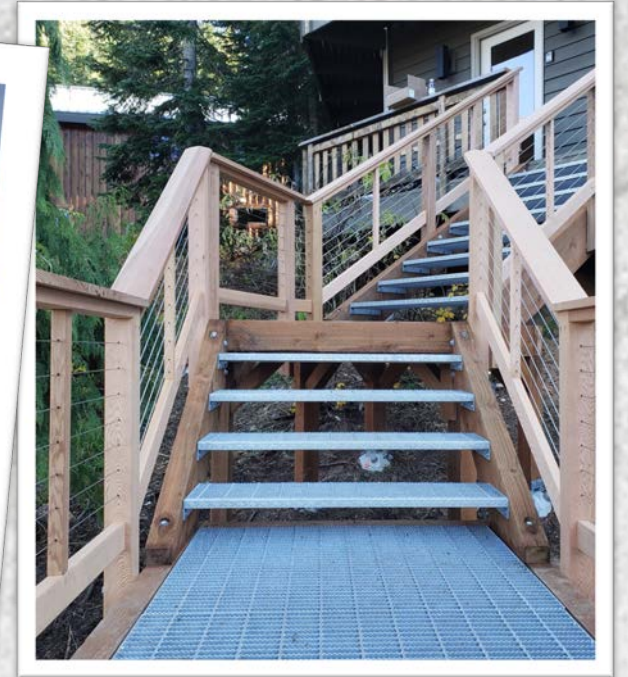
3.2.1.1 DP-50 bearing pin pier: The DP-50 bearing pin pier provides a 1.8-square-foot (0.17 m²) bearing area for supporting gravity loads; the DP-50 bearing pin pier with 50-inch (1270 mm) pins provides a 2.2-square-foot (0.20 m²) bearing area for supporting gravity loads; and the DP-75 bearing pin pier with 50-inch (1270 mm) pins provides a 3.2-square-foot (0.30 m²) bearing area for supporting gravity loads.

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Page 1 of 3

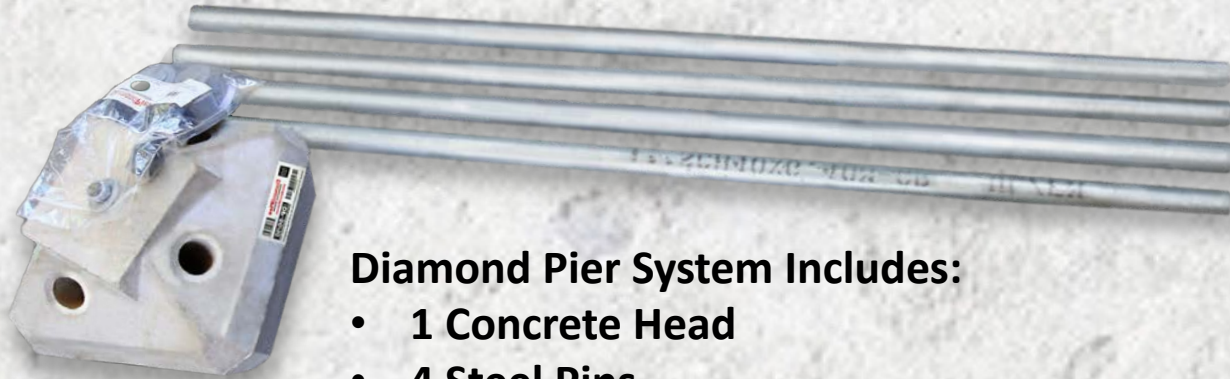


ONE COMPLETE SYSTEM

The Diamond Pier system come with all the components a customer needs to start a project.

For decks, covered decks, porch decks, walkways, stairway and accessory structures as defined by the International Residential Code (IRC).

Diamond Piers must be installed as a system (Diamond Pier Head with 4 Diamond Pier Pins) for structurally rated performance and in accordance with the ICC-ES ESR-1895 report, Diamond Pier residential load chart and Diamond Pier Installation Manual.



Diamond Pier System Includes:

- 1 Concrete Head
- 4 Steel Pins
- 1 bag of Tips & Caps (4 each)



Official Diamond Pier concrete heads come with individual 14-digit QC tracking barcodes.

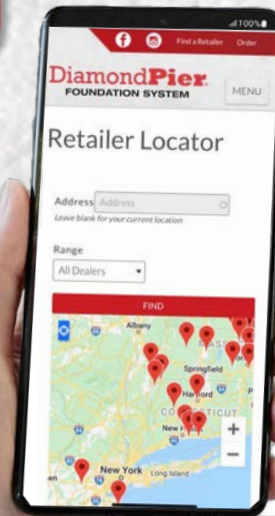
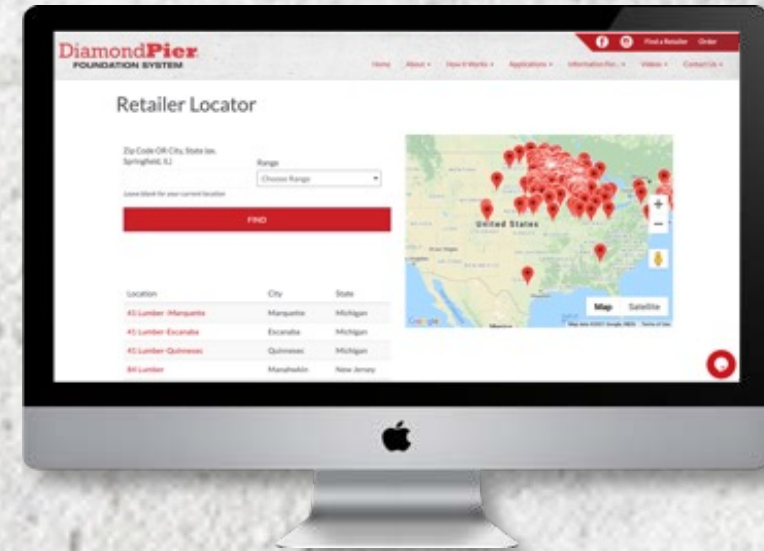
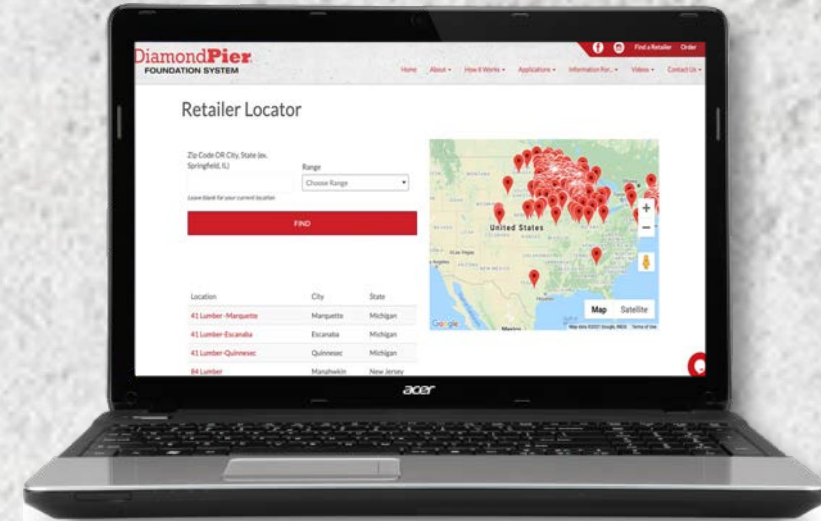


PURCHASING DIAMOND PIER

Diamond Piers are sold to contractors through retail lumber yards and building supply stores.

To find your nearest retail store, visit our Retail Locator page on the Diamond Pier website.

Find Your Nearest Stocking Dealer
www.DiamondPiers.com/retailer-locator



INSTALLATION

PRIOR TO PLACING THE PINS INTO THE CONCRETE HEAD, ALWAYS INSERT THE TIPS INTO THE END OF EACH PIN.

The tips block dirt from entering the hollow pins. This allows the building inspector to measure the length of pipe after installation.



Building inspector needs access to the installed Diamond Pier to complete inspection.

DiamondPier®
Quick Installation Overview

IMPORTANT: Read Full *Diamond Pier Installation Manual* and View the *Installation Video* at: www.DiamondPiers.com

Before You Purchase Page references refer to the Full Installation Manual

1. **Know Your Soils** See "Normal Soil Conditions" (page 5) – 1500 psf min supporting soils.
2. **Check Your Loads** "Residential Diamond Pier Load Chart" (page 6) shows Equivalency to Traditional Concrete Footings.
3. **Get Building Permit from Local Municipality** Provide Diamond Pier model size and code compliance documentation. See "Use and Applications" (page 7).
4. **Locate Buried Utilities** Determine safety zones and adequate clearances (page 8).

To Get Started You will Need...

- **The Proper Sized Diamond Pier**
Includes:
1 - Concrete Head
4 - Pins
4 - Plugs
4 - Caps
- **Driving Bit**
1-1/8" hex shaft
- **Demo/ Breaker Hammer**
35 lb.+
Ask dealer about rental

Other Common Tools Required...

- Square-Edge Shovel
- Torpedo Level
- Pipe Wrench
- Sledgehammer
- Tape Measure
- Proper Safety Goggles
- Ear Protection
- Insulated Gloves & Protective Clothing

Install in Minutes A minimum two-person crew is recommended. See Full Installation Instructions (pages 11-14).

1. **Install Plugs**
2. **Identify Location**
3. **Remove Topsoil**
4. **Set Concrete Head**
5. **Drive Pins**
6. **Place Caps on Pins**

Documents to Submit with a Permit Application

- ESR-1895 Code Compliance Document or Wisconsin UDC Approval Evaluation
- Detail Drawings and Load Chart
- See "Use and Applications" (page 7)

Diamond Pier Detail

1. Install plugs in pins to prevent soil from entering as they are driven into the ground. Inspectors can then use a tape measure to verify pin length after installation.

2. Lay out string approx. 12-14" above the ground on center location of post/pier to allow for quick reference point.

3. Remove soil the same size as bottom half of concrete head, approx. 6" depth. Note: Pier can be buried for aesthetic reasons, but access to top of pier needs to be maintained. Concrete slabs, patios, and other products installed MUST NOT interfere with the Diamond Pier system and the attached post/beam assembly. Expansion joints are commonly used to protect the system. Proper drainage must also be maintained.

4. Set concrete head in hole and, keeping the pin centered in the driving hole, carefully set each pin 6-12" into soil tapping with a short grip on sledgehammer until pier is locked into a level position. Note: The edges on the flat top of the concrete head do not have to align exactly with the sides of the post or post bracket as long as the bracket is fully supported by the concrete for proper weight distribution. Pins can be nested next to each other to provide more loading, but if closer than 3' on-center, a 13% load reduction should be applied to each pier.

5. With driving bit attached to the automatic hammer, drive pins in evenly from side to side in equal increments, approx. 1-2" each until pin is approx. 6" out. Then double check pier position before final driving of the pins to 3/4" out for cap attachment. Note: One person should hold pin to limit vibration to pier while pin is driven.

6. Be sure the pin length is inspected per permit requirements before caps are applied.

Removal/Repositioning if Obstruction Encountered

If a pin stops moving when being driven in, STOP driving the pin. Put pencil mark on pin by head to indicate if pin is moving. With other pins part way in, use the automatic hammer for approx. 10-20 seconds, or give the pin one or two firm square hits with the sledgehammer. If it still will not move, then remove and reposition the pier. To remove, spin and pry a pin simultaneously using a pipe wrench and pry bar. If the obstruction is close to the surface, it may be dug up and removed. Then recompact the soils with the sledgehammer, and reset the pier. See Installation Manual (page 13) and Removal Video available at www.DiamondPiers.com.

Register Your Product Warranty See information at www.DiamondPiers.com

WARNING: Do not install Diamond Pier foundations before all underground utilities have been located, marked, and de-energized. See "Locate Buried Utilities" in the full Installation Manual at www.DiamondPiers.com

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DiamondPier

Download all installation guides at www.DiamondPiers.com/downloadable-documents

INSTALLATION

Common Tools Required

- Proper Safety Goggles
- Insulated Gloves & Protective Clothing
- Ear Protection
- Square-Edge Shovel
- Sledgehammer
- Torpedo Level
- Tape Measure
- Pipe Wrench



A minimum two-person crew is recommended. See Full Installation Instructions pages (11-14).

INSTALLATION

Models: DP-75/63" and DP-50/50"

Note: Anytime a pin length exceeds 50", the diameter must increase to 1 ¼" nominal in order to achieve the proper deflection values.



Some builders might try to substitute a 1" diameter pin, longer than 50" into the DP50 head to achieve what they *perceive* as better frost protection. However, this is a misunderstanding of the engineering principles; *Long slender pins can overstress and bend permanently, which could result in a possible failure of the application.*



INSTALLATION

Visit our website to download the full Installation Manual.

Watch our Instructional How-To videos



www.DiamondPiers.com



1-1/8" hex shaft driving bit

HOMEOWNER LIFETIME WARRANTY

Diamond Pier provides the homeowner with a limited lifetime warranty (parts & labor).

The homeowner can register for the warranty at www.DiamondPiers.com

For more information on the warranty see: <https://www.diamondpiers.com/diamond-pier-warranty>





THANK YOU

DiamondPier®
FOUNDATION SYSTEM

