

RHINO CARBON FIBER WALL SUPPORTS

THE #1 CARBON FIBER SOLUTION
ON THE MARKET!



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BLOCK
FOUNDATION >>

POURED
FOUNDATION >>

Click your foundation to begin...



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The Basement Environment.

To understand the cause of a foundation problem,
you must understand how a foundation is built and waterproofed.

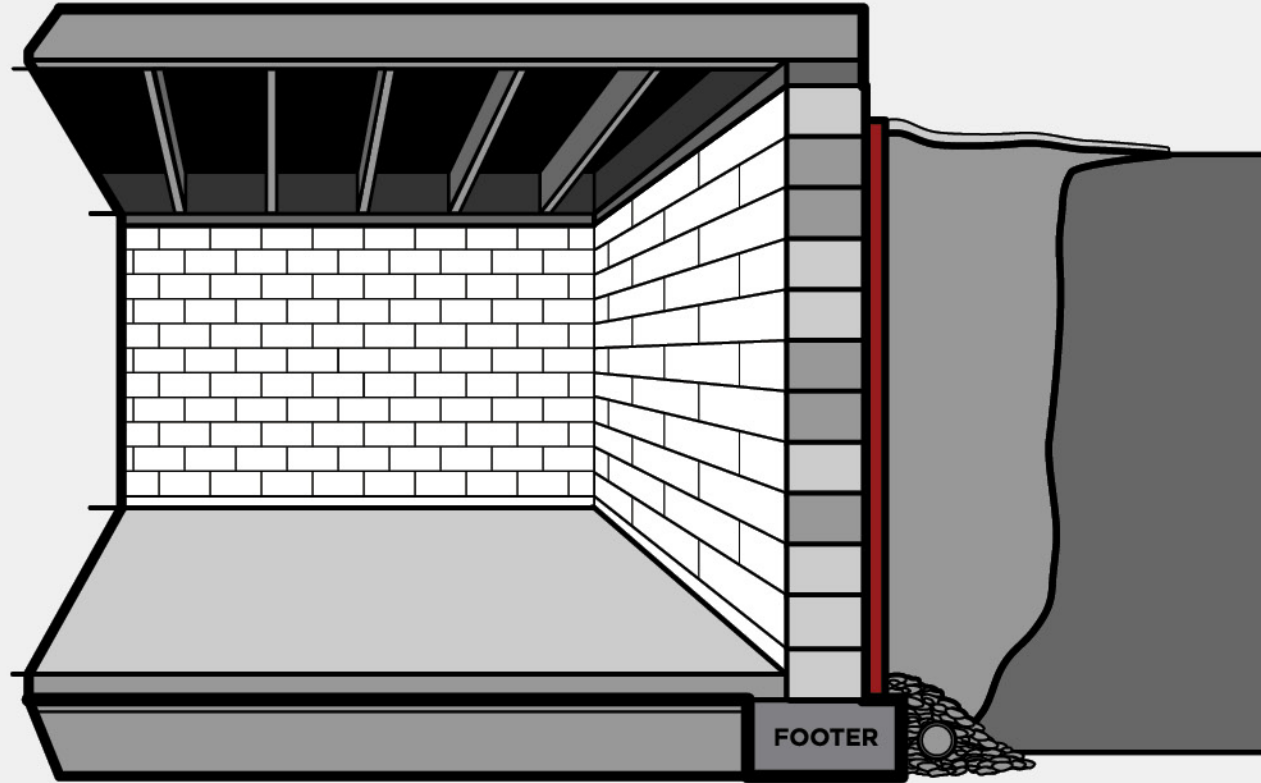


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FOUNDATION CONSTRUCTION

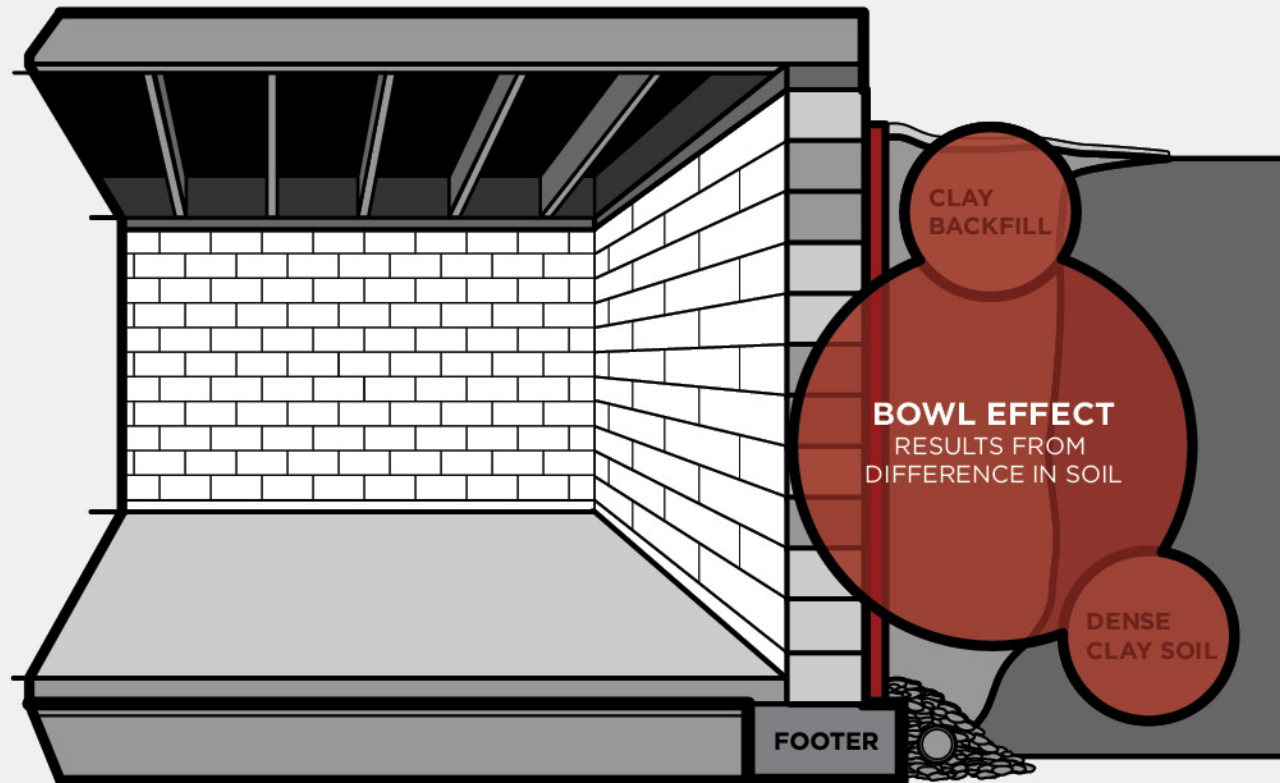
- First a hole was dug
- Then a footing was poured
- Walls were built
- Flooring was poured
- Drainage tile and gravel were placed
- Walls were sealed
- Hole was back-filled with soil



BOWL EFFECT

CLAY BACKFILL
Loose, disturbed soil

DENSE CLAY SOIL
Dense, undisturbed soil



How Do I Get My Money Back?

Why is it financially beneficial for a home to have a solid, dry foundation?



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HOME IMPROVEMENT GUIDE

Compliments of the Regional Better Business Bureau
BASEMENT LEAKS? BIG PROBLEM, NO SIMPLE CURE

The basement of a home can be one of the most productive areas in the house. A dry basement provides a pleasant atmosphere for work, hobbies, or storage, as well as valuable extra living space to the family before enough to step in over throughout the year. Conversely, a wet basement lowers the value of the entire house and is a source of constant aggravation for those attempting to use it.

A homeowner who, after years of tolerating a wet, useless basement, finally decides the problem, achieves a sense of satisfaction matched by few other experiences. Nothing can compare to the sense of isolation, however, when repeated, ineffective remedies fail to produce a solution.

One homeowner who takes the time to learn about the causes of basement leakage has much more to offer than the typical "leaky basement" problem. He or she knows the causes of the problem and can take steps to prevent or fix them before they get out of hand. He or she also knows the causes of the problem and can take steps to prevent or fix them before they get out of hand.

BASIC CAUSES OF BASEMENT WATER LEAKAGE

1. As the ground becomes saturated, the water table begins to rise, putting pressure against the basement floor, and seeps cracks which are caused by the expansion and contraction of the cement.

2. Exterior house drains clog, forcing water to seek the path of least resistance, which is under the footer. This water seeps cracks in the floor or moves over the footer, seeping the basement at the sides.

3. The footer is poured separately from the wall. The wall is then constructed upon the footer. Since it is impossible to get a perfect seal between the footer and the wall, the water is able to enter the basement at this junction point.

4. Due to the expansion and contraction of the concrete slabs, the parging which has no elasticity, cracks with temperature changes. This allows water to seep through these cracks and in the mortar joints. With the bottom course of bricks. This water penetration into the blocks also causes the blocks to lose their insulating value.

5. Because the parging has no elasticity and because the blocks are made of a porous aggregate, the blocks draw moisture to the inside of the basement, permitting the walls to swell and bleed.

HAZARDS OF BASEMENT LEAKAGE

If undetected or ignored, basement leakage can result in unnecessary damage and loss to the homeowner, sometimes running into many thousands of dollars. Many homeowners experience loss due to rotting and valuable masonry.

leaving or rotting; floor tile buckling and rotting; wallpaper peeling; rotting or stained ceilings being caused because of rotting and fungus. There are also the health hazards associated with fungus and rotting. Structural hazards from exposed wires and cables, and the increased likelihood of accidents and other losses that come in a damp environment. A wet basement will also greatly reduce the value of your home, generally brought to 10 to 15 to 20%.

A basement that is chronically damp or one that leaks after a heavy rain is a problem that should be corrected. It will almost certainly require specialized waterproofing help.

YOUR PROBLEM CAN BE SOLVED

One can under-estimate the importance of the basement. Many homeowners mistakenly believe that there is no way to correct a permanent basement leakage problem. Many have already tried several unsuccessful attempts on their own or have paid large sums of money to someone else for a "solution" that failed to produce the desired result.

The truth of the matter is that basement leakage can be corrected. The key is to choose a reputable, professional waterproofing company, one that has demonstrated their knowledge and expertise through years of successful work and whose reputation has grown through satisfied customers.



FOUNDATION PROBLEMS

An Average of 15% - 20%



An inspection can stop you from buying a house of cards.

say that the owners of three-quarters of the houses on the market are under little compulsion to sell.

As pre-negotiations begin, consumers that selling a house is an emotional an investment for its owner as acquiring it is for the buyer. Telling the seller you think his neighbors are likely may do as much to soften the price as pointing to the crowded garage. Jay Lomax, director of Temple University's Real Estate Institute, suggests that you let the broker do most of the talking. While the broker is technically the seller's agent, his primary goal is to close the sale quickly and collect his fee.

When the seller has reasonable knowledge of the local real estate market and is not under pressure to sell, says Leonard, the best price a buyer can hope for is the house's fair market value. That doesn't mean the initial asking price. That's the price the seller is in the able position, provided you listen on two occasions: First, the contract should automatically become voided if the buyer can't live up to a mortgage with terms he can afford. Second, the sale should depend on the buyer's receiving a satisfactory inspection report, made at his own expense. Then if the house has physical defects, or if mortgage money is tight, or if the bank thinks the sale price way over the line, you can go back to the seller and argue that the fair value of the house is lower.

In recent years, lenders typically have sold for about 3% below the asking price. But now, says Kenneth J. Ertis, research vice president for the National Association of Realtors, a potential buyer with a strong chance of obtaining financing should aim for a price about 10% below the asking.

Getting connections

Only buyers loaded with cash should negotiate solely over price. The vast majority of buyers have just enough cash for the down payment. They can often do better by negotiating other concessions that leave more in their pockets.

For instance, only tradition says that the buyer pays all closing costs, such as title searches, the seller's legal expenses and title transfer fees—costs that frequently amount to \$2,000 or more. If the

each strapped buyer can persuade the seller to pay closing costs in lieu of a \$2,000 price reduction, he'll keep \$2,000 in cash to help pay moving expenses. He negotiated the lower price interest, the savings would have come out of the mortgage, giving him only a marginally lower monthly payment.

An imaginative buyer can heighten even a variety of tones. If the draper, the crystal chandelier and the wrought-iron bow chairs all look good, ask the seller to include them in the sale. If the housing situation is disconcerting, a still better proposition, the buyer may be able to convince the seller—as the buyer of the sale won't go through the sale or given him a second one.

[illegible]

Some real estate dealers try to discourage buyers from using inspection services or try to steer them to inspectors with talent for downplaying problems. The buyer must understand, either way, that the seller's offer is for the house as-is. In both cases, refuse. Insist on getting your own inspector.

low Pages under "Building Inspection Services," but the best way to find one is to ask a bank, savings and loan, or local home builders' association for names of inspectors they use to arbitrate disputes. Top inspectors generally charge \$175 or more, but they can often save you more than they cost. An inspection can stop you from buying a house or, worse, if the structure is sound, it report may alert you to minor deficiencies, so that you can negotiate a lower price or force the seller to fix them.

Some new houses now come with warranties backed by the Home Owner Warranty Corp., a subsidiary of the National Association of Home Builders.

They give the house buyer a substantial amount of protection against defects for up to 10 years. Warrington also offers help to cover old houses with serious structural problems and are good only for a year or two.

What to look for

Since house hunters can't afford to have every house that comes through inspected, it's important to know what you should be calling in a pro. Their ad-

The measurements: Near to a carport, water in the basement is about the worst thing that can happen to a home. It can weaken the foundation, damage furnace and water heaters, ruin stored goods, cause a musty smell, watermarks or mold on the walls are signs of it. A sump pump shows that you have a problem, perhaps undetected and costly. Fresh paint or new wood paneling in the basement should indicate a dry basement and look for

experts disagree on just what constitutes such as spriggy wood, stains and anomalies. The basement or crawl space is also the place to check for rot in beams and joists. If a screwdriver easily sticks in half an inch or more, the wood probably needs replacing.

When deciding being the most expensive appliance to replace, the furnace or boiler can be a safety hazard if defective or improperly installed. Unless the heater is obviously rusty and damaged, it takes an expert to diagnose problems. You can snuff a gas leak, though, if you can discover the age of the heating plant. In the good, a hot-air furnace lasts about 15 years, a hot-water boiler 20 to 25, and a cast-iron boiler 40 to 50.

Electrical capacity. Unless you're an expert, don't get too ambitious when you inspect the electrical installation. Frayed, fabric-covered wiring, of course, tells you that the system belongs in a museum.

FOUNDATION PROBLEMS

9 out of 10 people will walk away from a house with foundation and structural problems



CONCRETE® ChiropractoRx

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FOUNDATION PROBLEMS

Basement waterproofing and foundation repair generate more than 100% return on investment.



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CONSUMER REPORTS

BBB IMPROVEMENT GUIDE

Compliment BASEMENT LEAKS

The basement of a home can be critical to the most productive areas in the house. A dry basement provides a pleasant atmosphere for work, play, and storage, as well as valuable extra living space in the family home. It's important to keep it dry throughout the year. Conversely, a wet basement lowers the value of the whole house and is a source of constant regret for those attempting to sell it.

A homeowner who, after years of planning a wet, cramped basement, finally decides to do the job, achieves a sense of satisfaction matched by few other experiences. Nothing compares to the sense of freedom, freedom when no guests, ineffective remedies fail to produce a solution.

Top professionals who take the time to bring about the success of basement waterproofing and foundation repair are the ones who truly care for their clients. They are the ones who understand the importance of the job and the responsibility of the job. They are the ones who are willing to go the extra mile to ensure the job is done right. They are the ones who are willing to go the extra mile to ensure the job is done right.

BASIC CAUSES OF BASEMENT WATER LEAKAGE

1. As the ground becomes saturated, the water more likely to find paths through the basement floor and seeps into walls which are caused by the expansion and contraction of the cement.

Only regular water tests can show the extent of the problem. The test results can show how much water is seeping into the basement. This can help you decide if the problem is serious enough to warrant a professional inspection. If the problem is serious, you should consider a professional inspection. If the problem is serious, you should consider a professional inspection.

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An inspection can stop you from buying a house of cards.

Even when the house is in excellent condition, it's important to have an inspection. An inspection can stop you from buying a house of cards.

Without the best, the house is in excellent condition. An inspection can stop you from buying a house of cards.

Even when the house is in excellent condition, it's important to have an inspection. An inspection can stop you from buying a house of cards.

and BUSINESS

ADVERTISING SECTION 461-5500

Basement waterproofing does more than dry it up

The edge of Hurricane Ophelia, sweeping through the region recently, bringing with it heavy rains, basement water problems and a flood of calls to Everdry Waterproofing. "Because of our size — we have offices throughout the region — we had no problem meeting the demand," said Paul Troschick, marketing director. "Now we're getting calls for weeks."

He notes that weather has no effect on the waterproofing process.

"In fact, the recent days of fall and the colder months of winter are good times to have the work done. That's because a lot of property owners — like car owners — wait until a crisis develops before they take action."

Basement waterproofing has a series of benefits beyond stopping water intrusion. Troschick explained.

"It's amazing how much use a basement gets once it's dried up. One of the most popular uses now is as a home office. It just doesn't make sense to put a computer, printer, fax machine, copier or other expensive office equipment in a cold, damp environment. Once we've done our work, there's no reason not to," Troschick added.

Others create TV rooms, exercise basements, hobby centers or even play rooms in the new dry space.

Yet another advantage to a dry basement is the value it adds to the entire house.

"In terms of value added to the sale price of the home, basement waterproofing gives an estimated 14% percent return on investment. That's according to a survey done by New Silver magazine," Troschick noted.

The company's patented waterproofing method carries a 10-year transferable warranty of the home (regardless of owner's warranty).

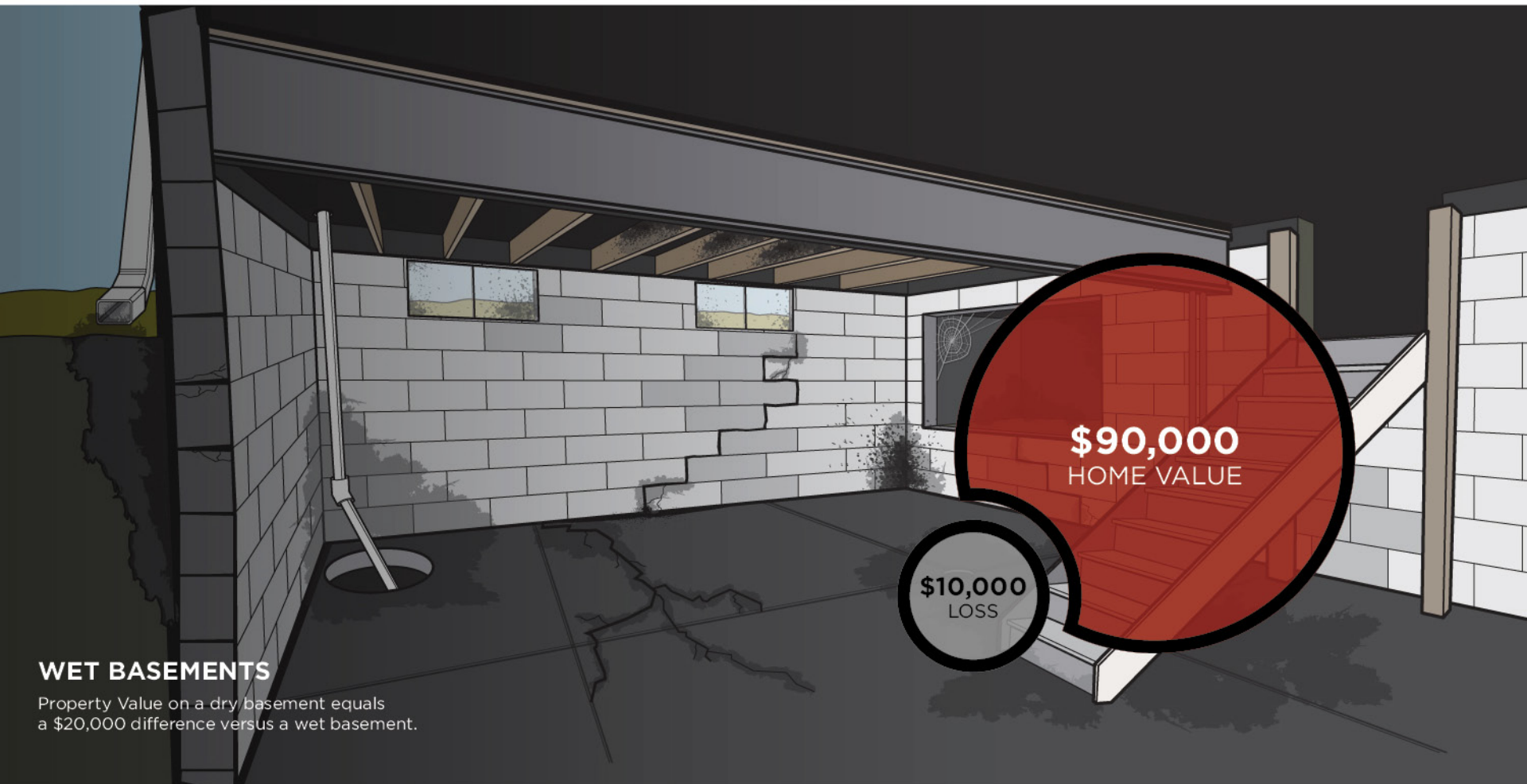
"We've been around since 1977, so our warranty is not just an empty sales pitch — it's a proven guarantee."

"Another difference is that we do not subcontract our work. All of our people are our employees. Each is bonded and insured and thoroughly trained. They really know what they're doing."

Everdry Waterproofing is one of the largest operators of its kind in the country, with more than 30 locations nationally.

The company offers a free basement inspection to determine what, if anything, needs to be done to ensure that a basement will stay dry as long as the house is standing.

For free literature, a free consultation or free basement inspection, call 851-5600. Outside Columbia, call 1-800-828-5837.



WET BASEMENTS

Property Value on a dry basement equals a \$20,000 difference versus a wet basement.



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Property Value on a dry basement equals a \$20,000 difference versus a wet basement.



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4 Stages of Damage.

Soil Expansion & Cracks
Severe Inward Movement
Wall Shearing
Wall Replacement

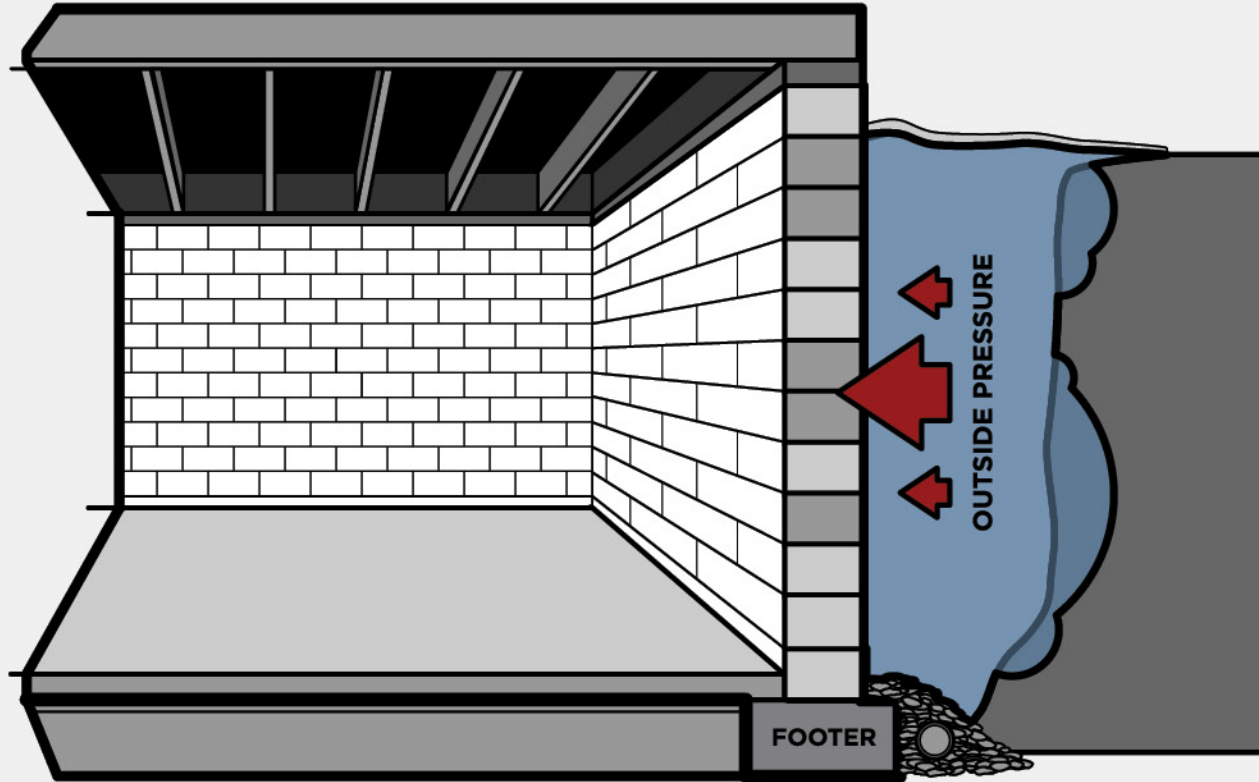


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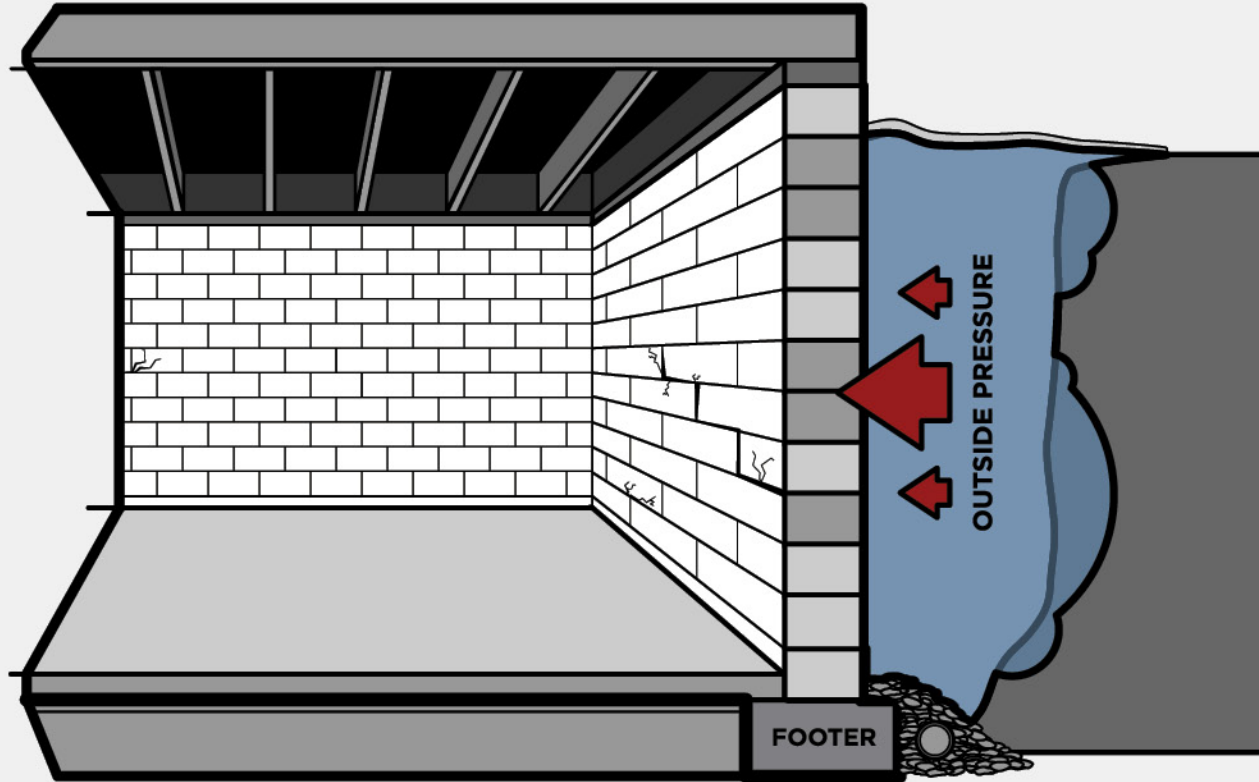
BOWED WALLS

Clay Backfill will swell as it becomes saturated with water which creates...
PRESSURE
directed towards the foundation wall



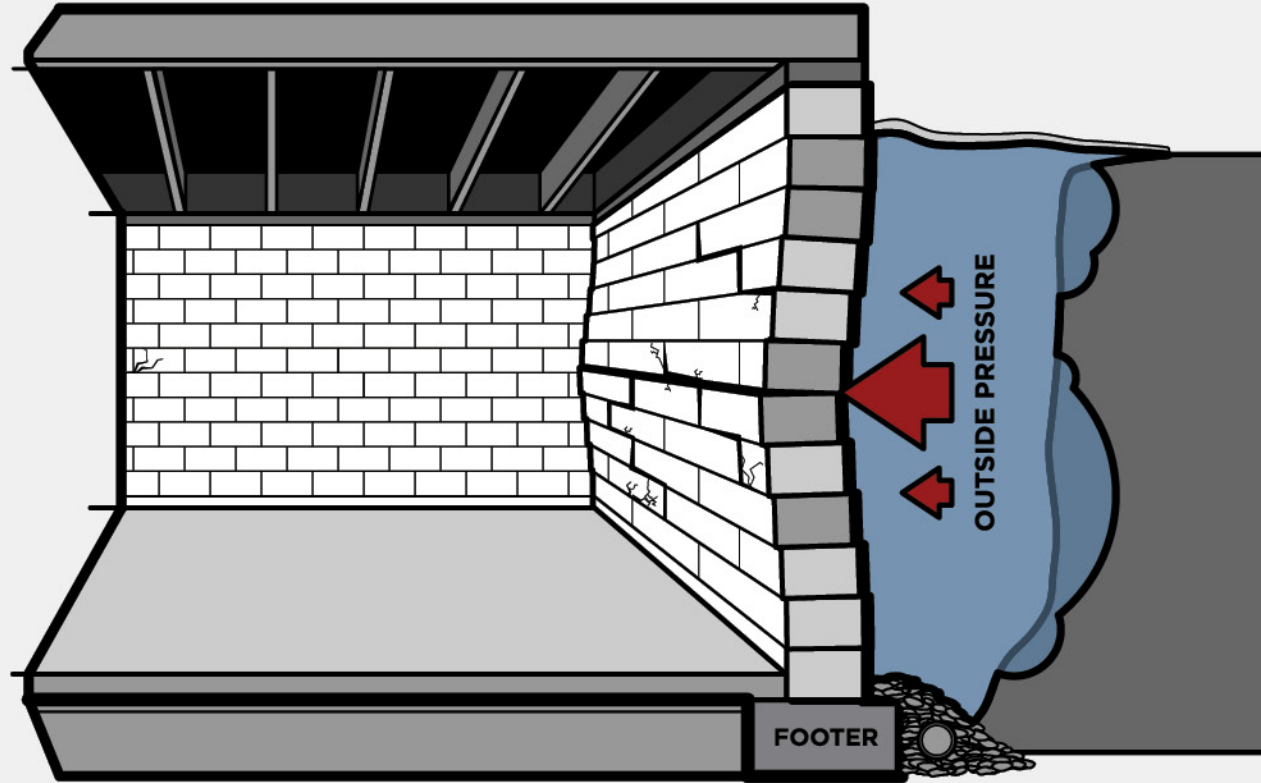
STAGE 01

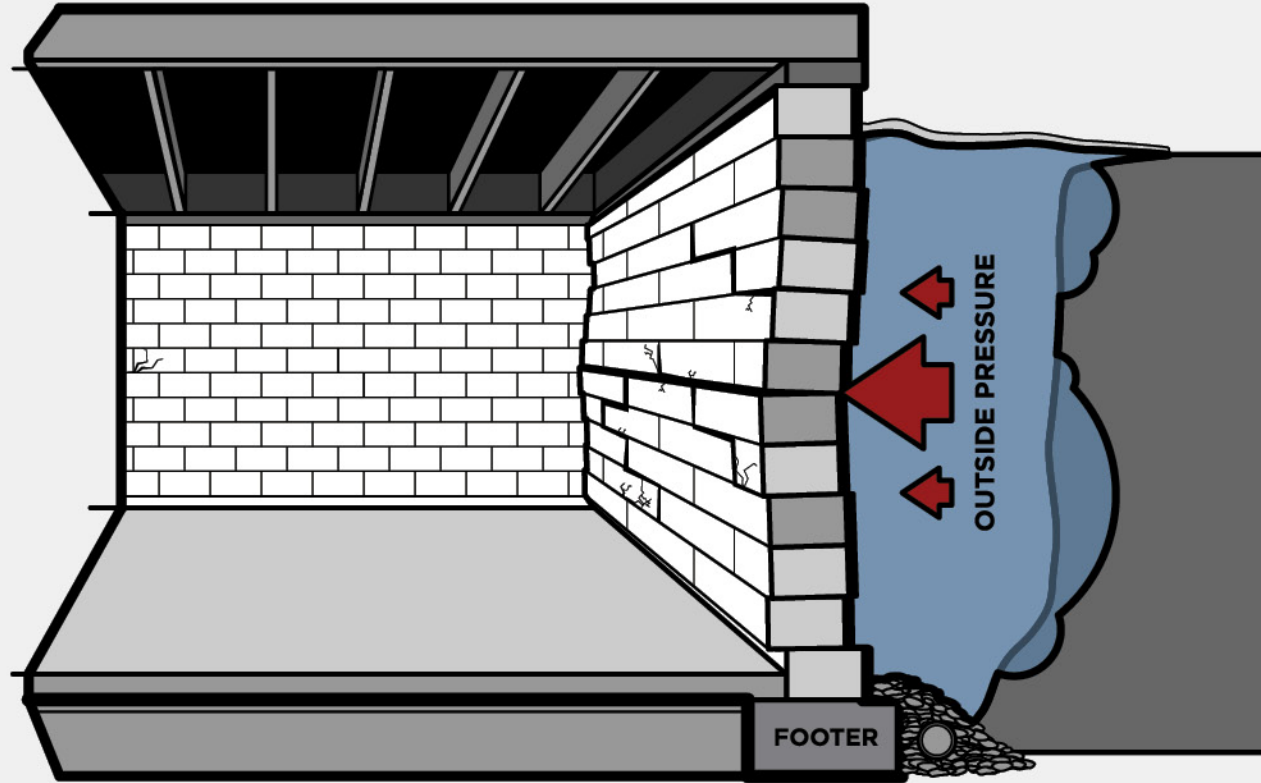
Soil expands causing hairline cracks in the foundation.



STAGE 02

Crack size increases. Severe inward movement occurs (bowed walls).





STAGE 03

Wall shearing from the foundation or sill plate.



STAGE 04

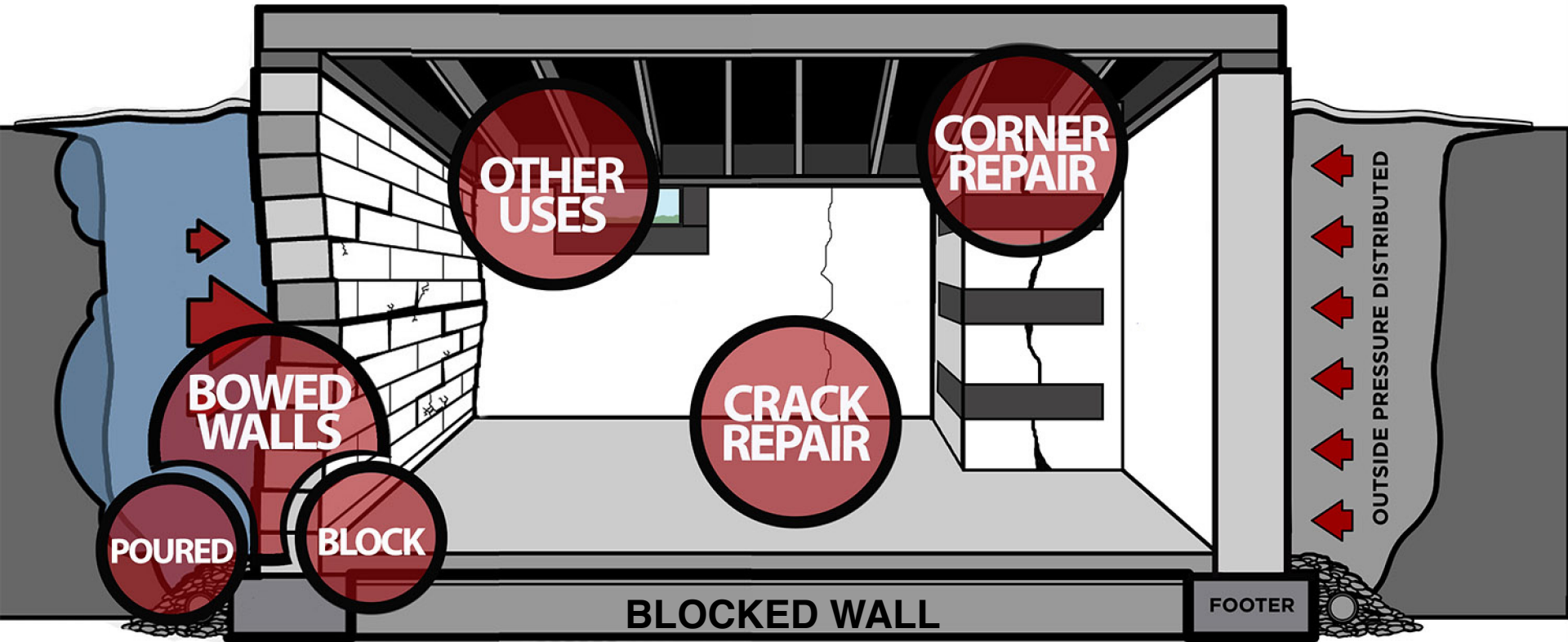
Wall replacement needed.



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CHOOSE YOUR FOUNDATION PROJECT TO BEGIN

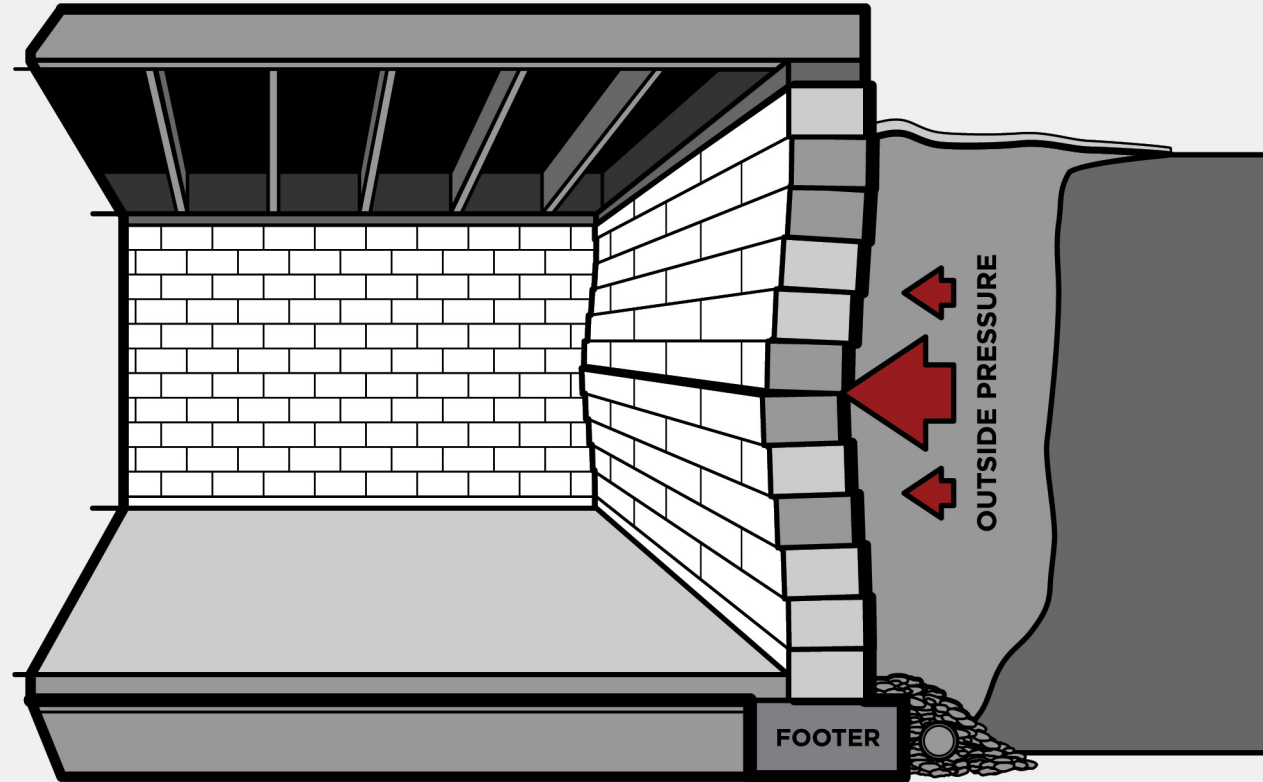


Fixing Bowed Walls.

Four options include:

- Wall Tie Backs/Wall Anchors
- Beams
- Dig & Push Method
- Carbon Fiber

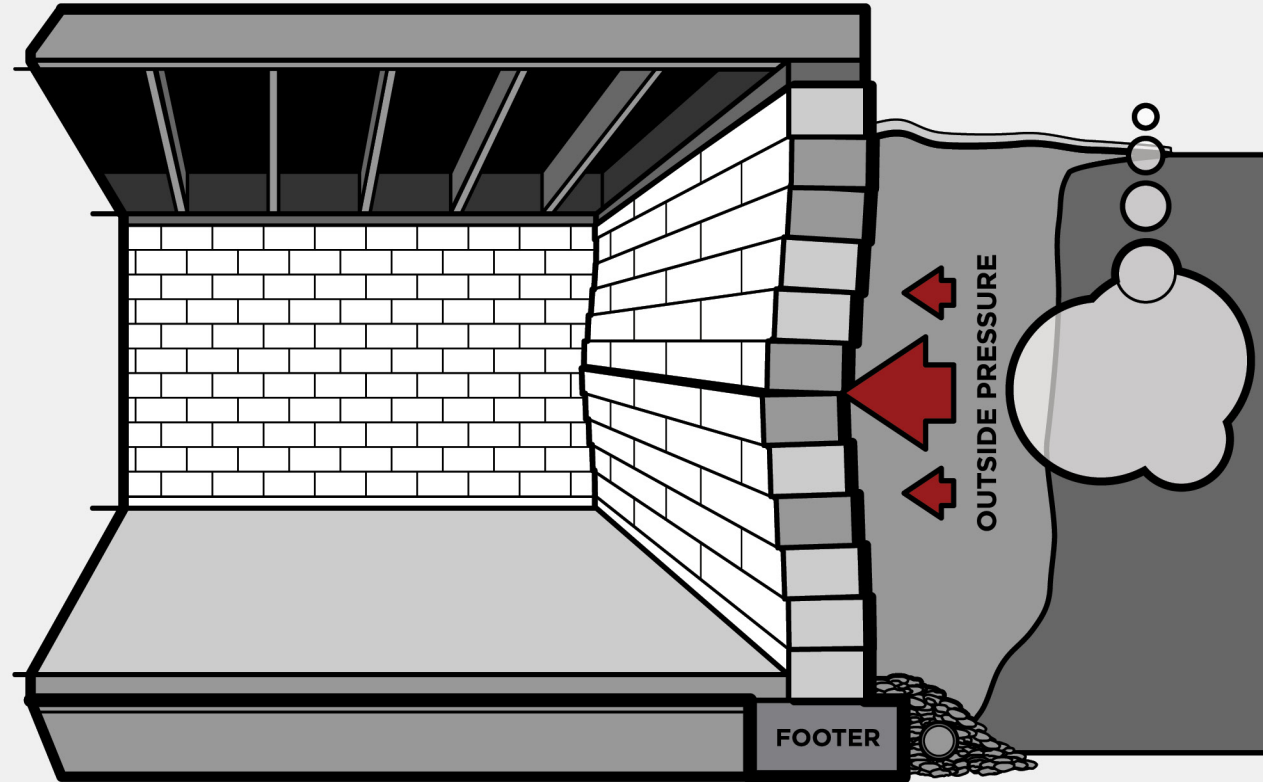




WALL TIE BACKS

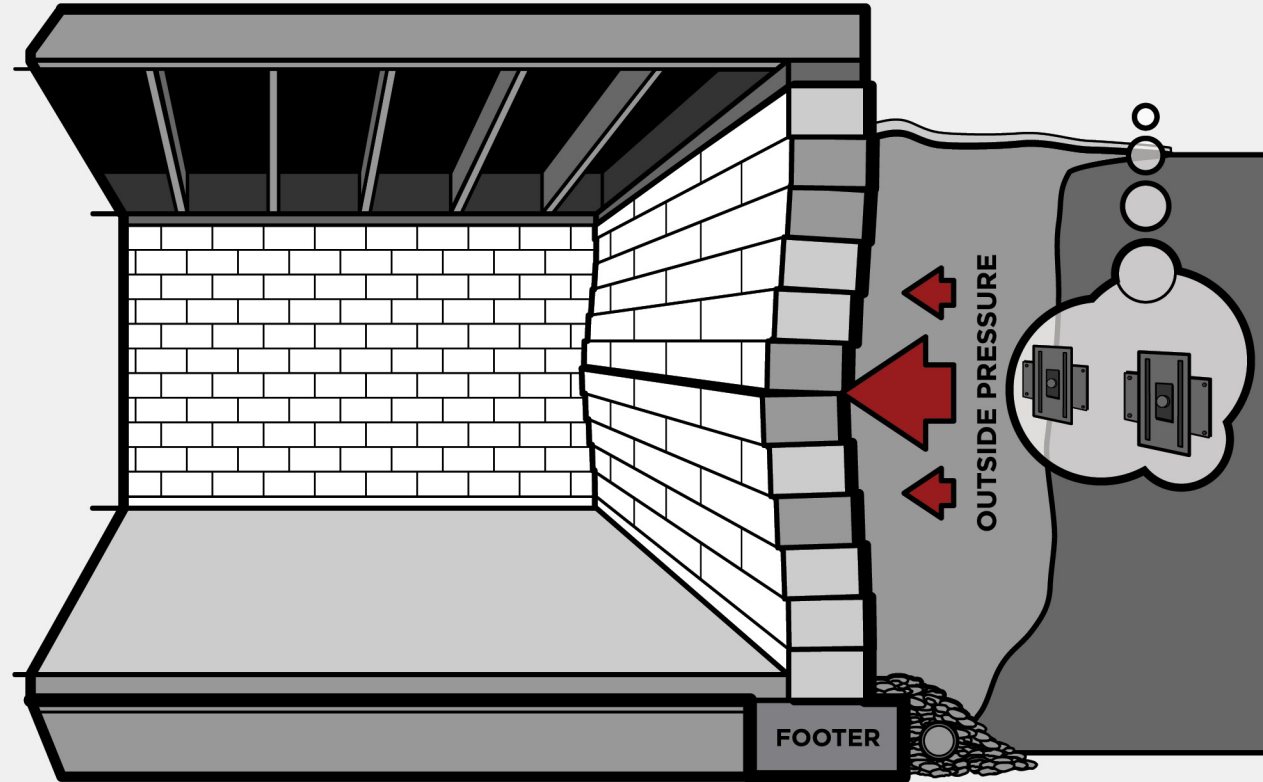
- Expensive (\$\$\$)
- Bowed walls not straightened as stated
- Damaged concrete blocks
- Exterior excavation is necessary
- Aesthetics could be a concern for potential buyers
- Can't finish the basement





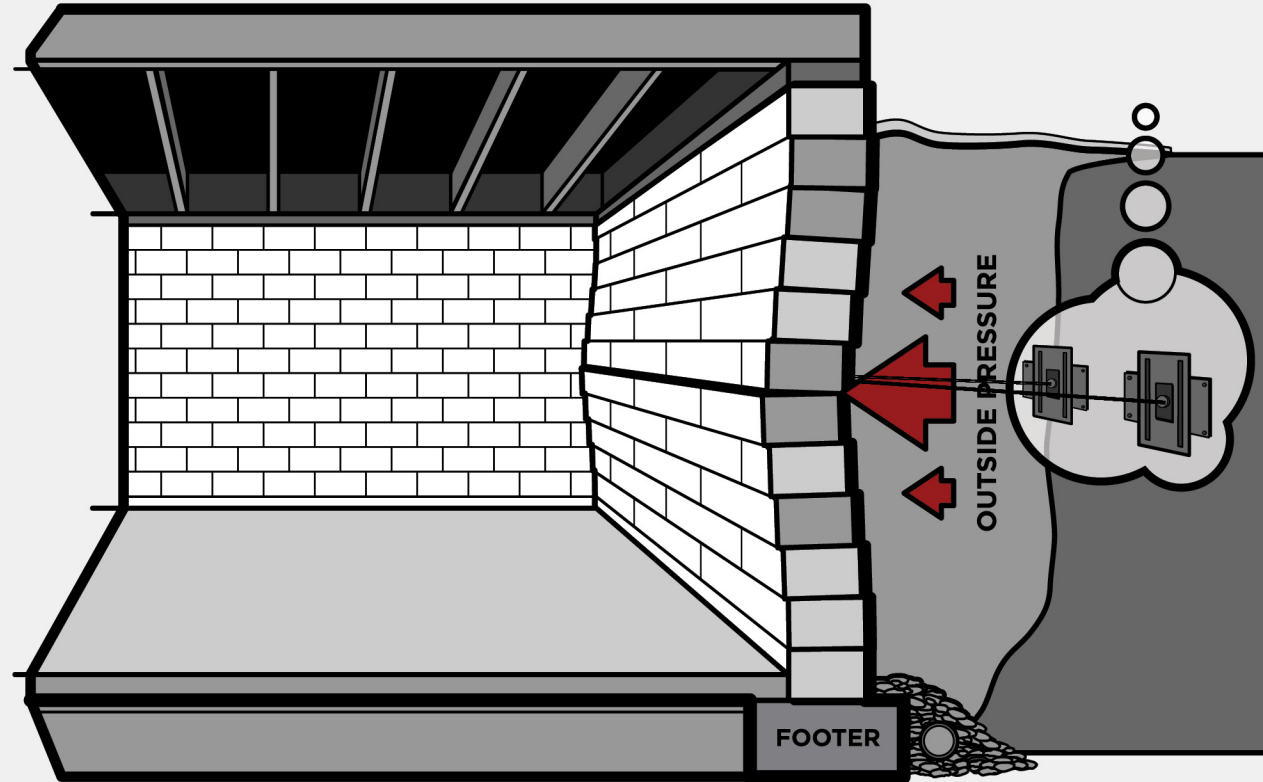
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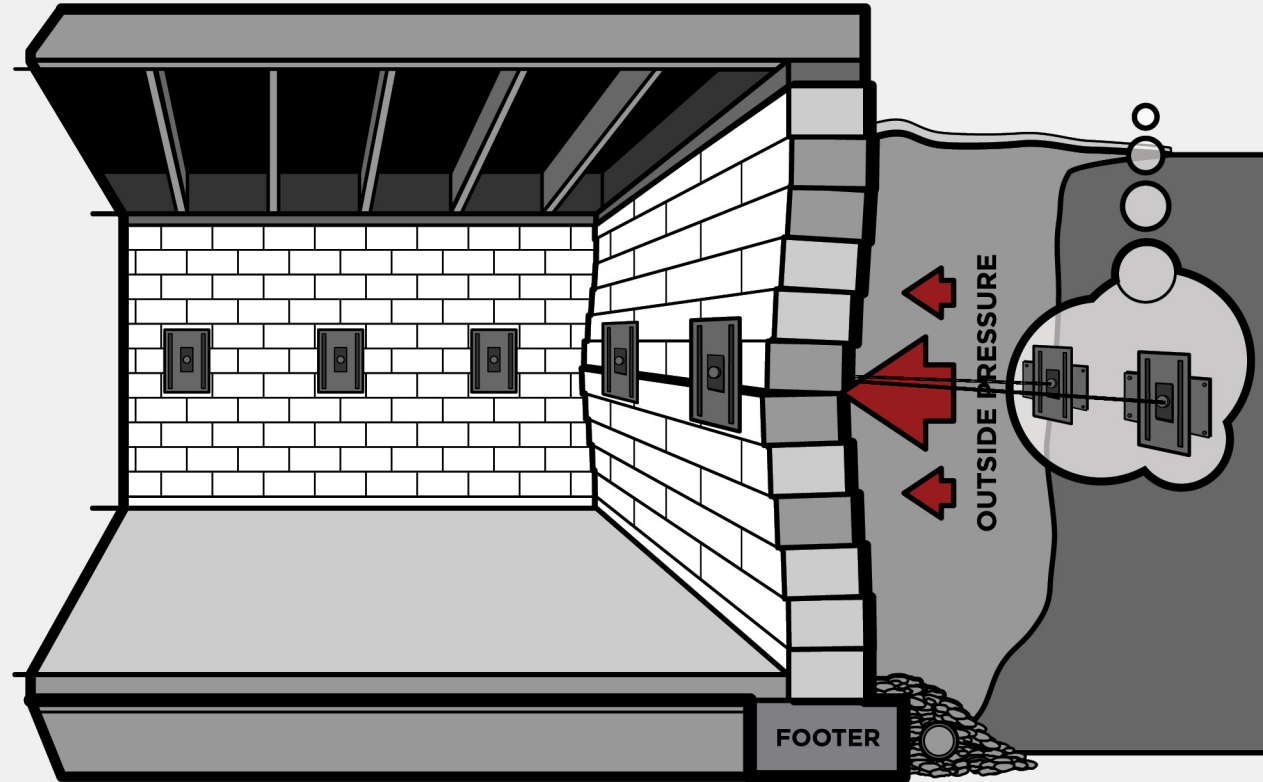
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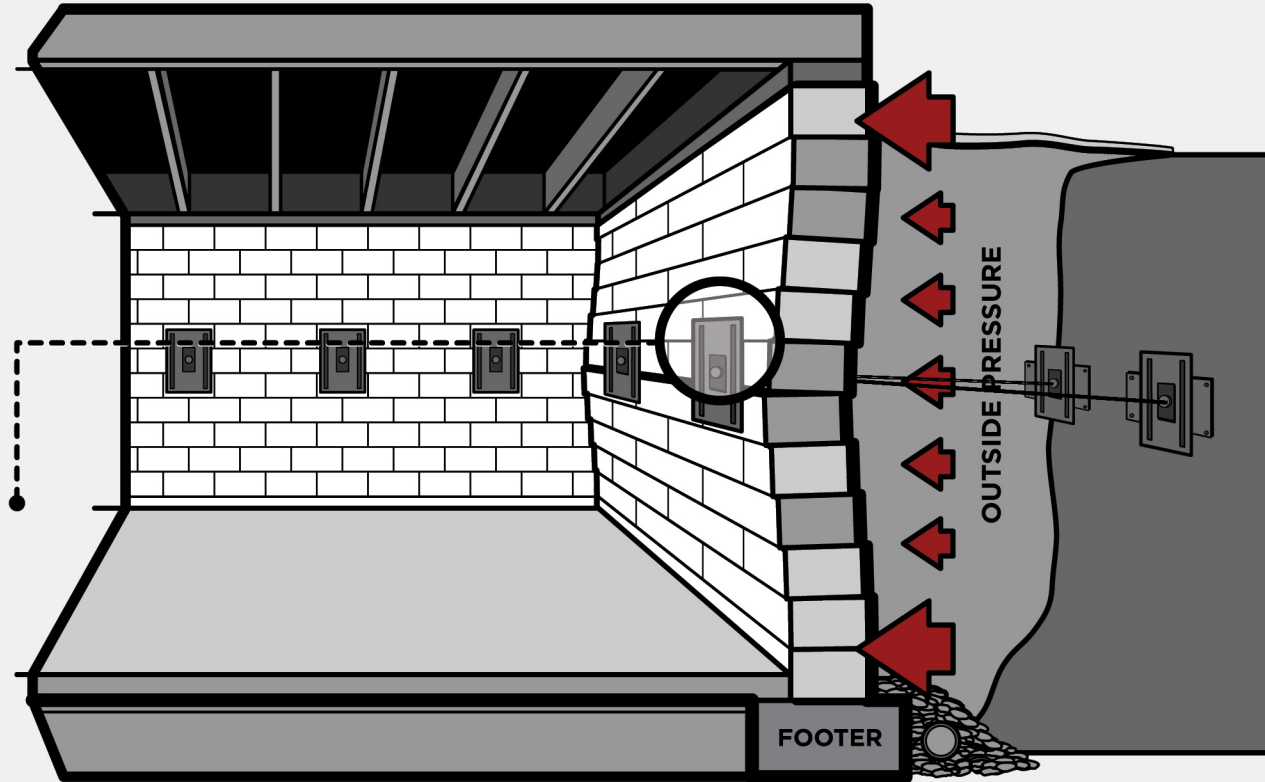
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PROBLEM AREA

SUPPORT LIMITED TO AREA
AROUND WALL TIE BACKS

WALL TIE BACKS

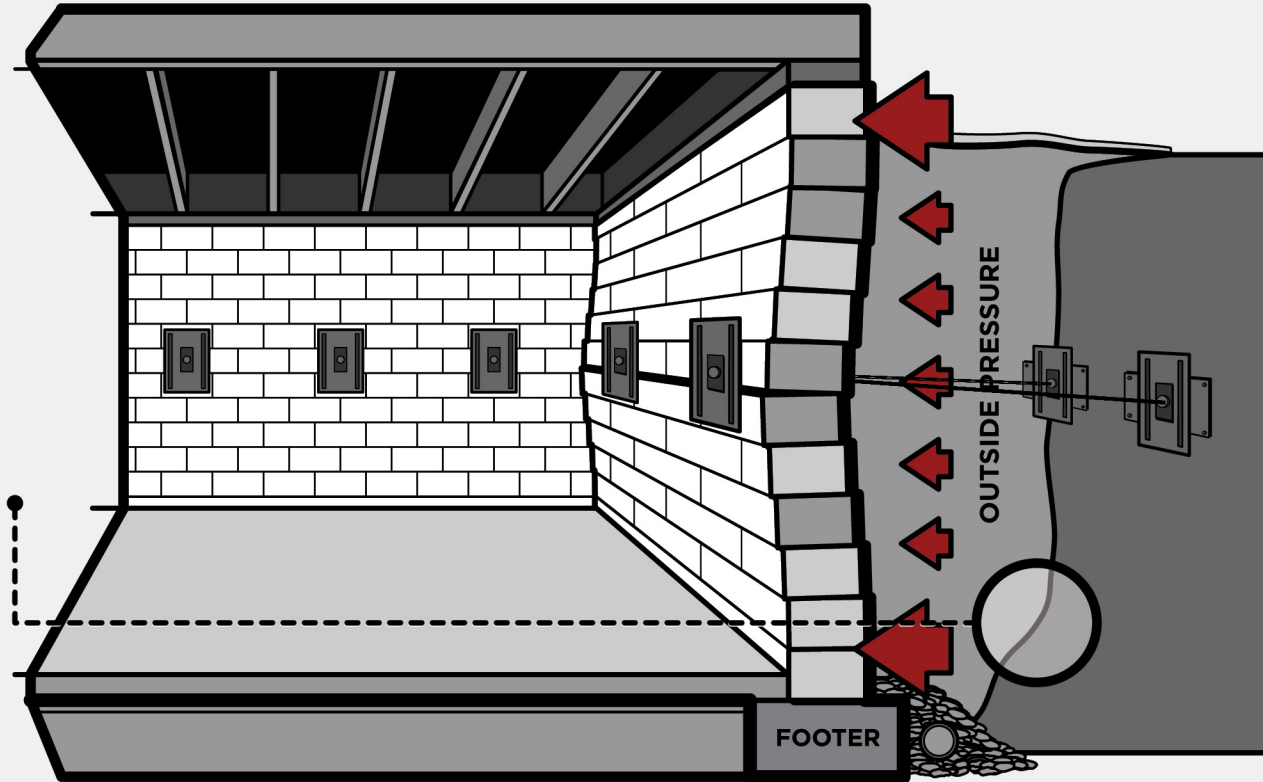
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PROBLEM AREA
EXTERIOR EXCAVATION
IS NECESSARY

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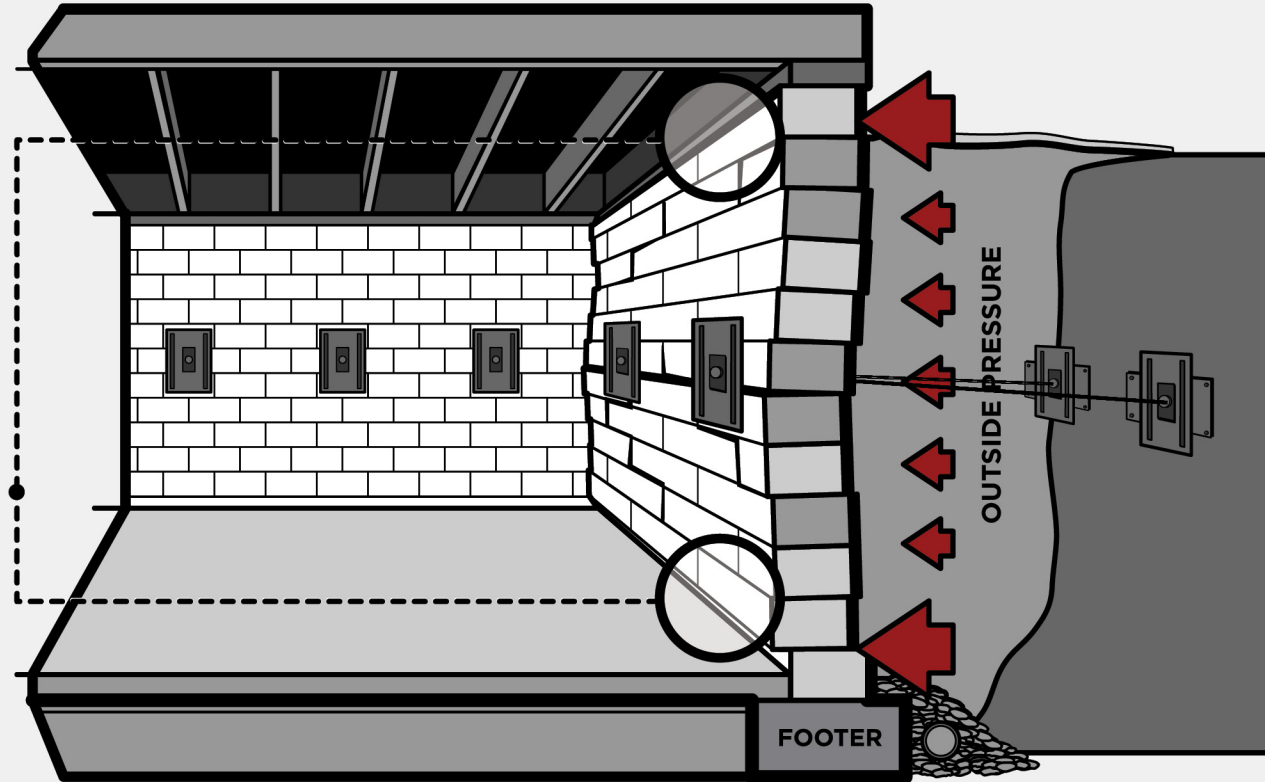


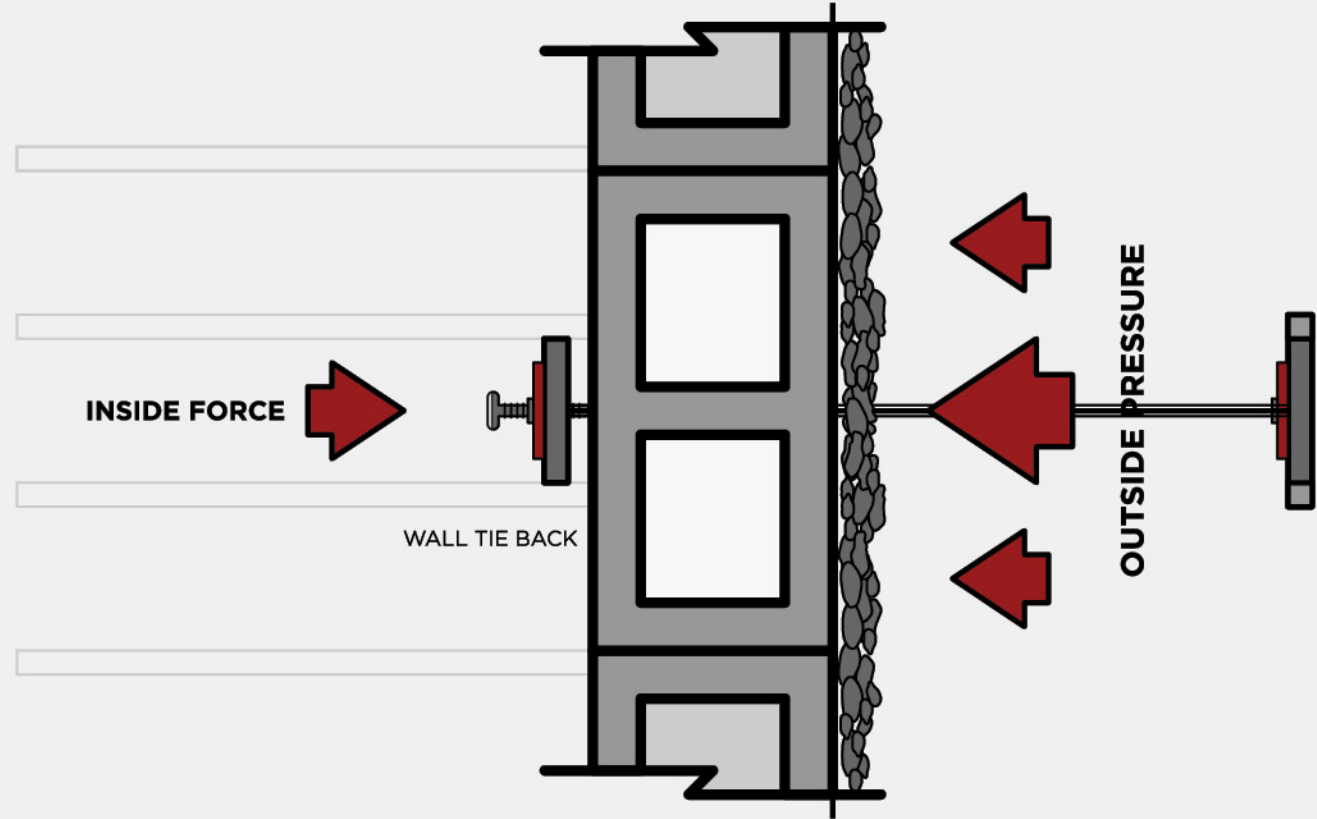


PROBLEM AREA
WALL SHEARING OCCURS

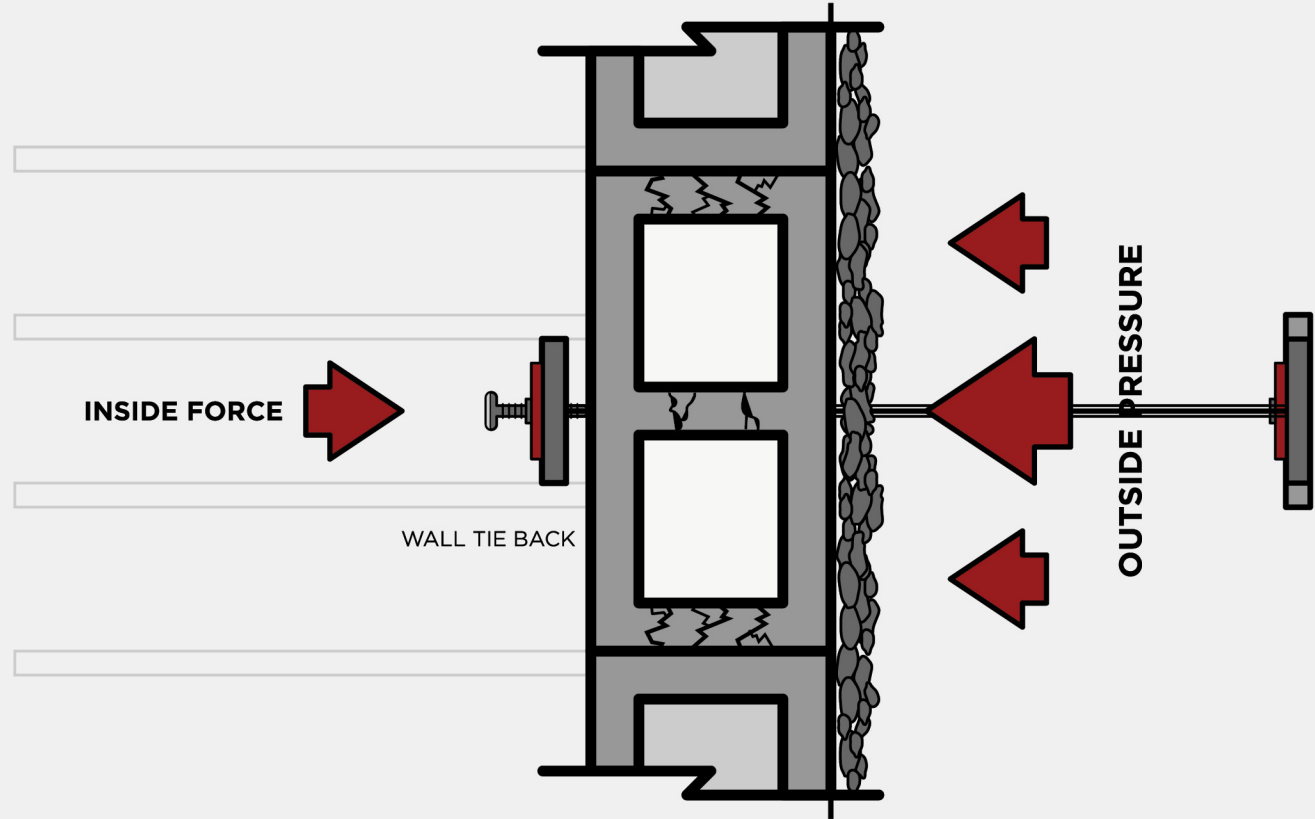
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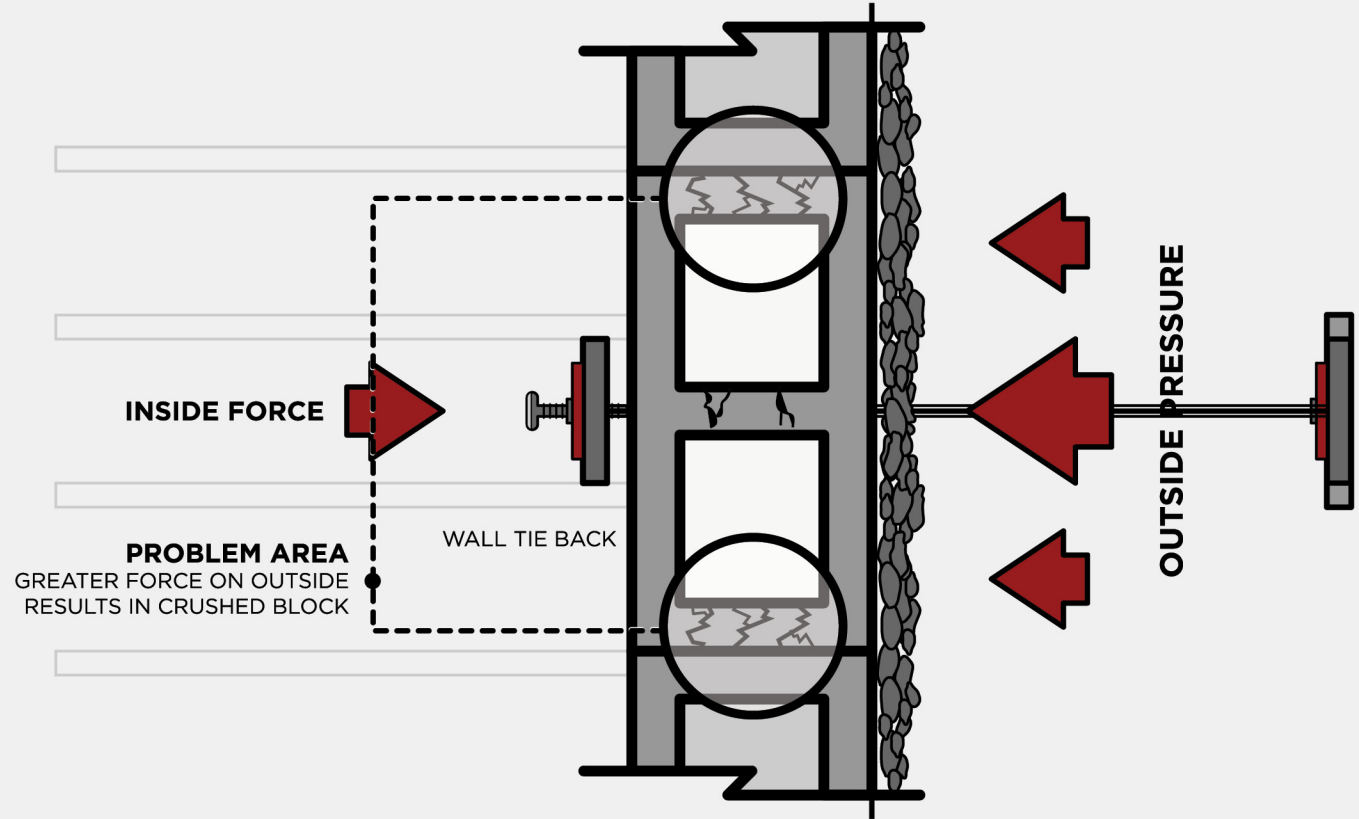




WALL TIE BACKS
TOP VIEW DIAGRAM



WALL TIE BACKS
TOP VIEW DIAGRAM

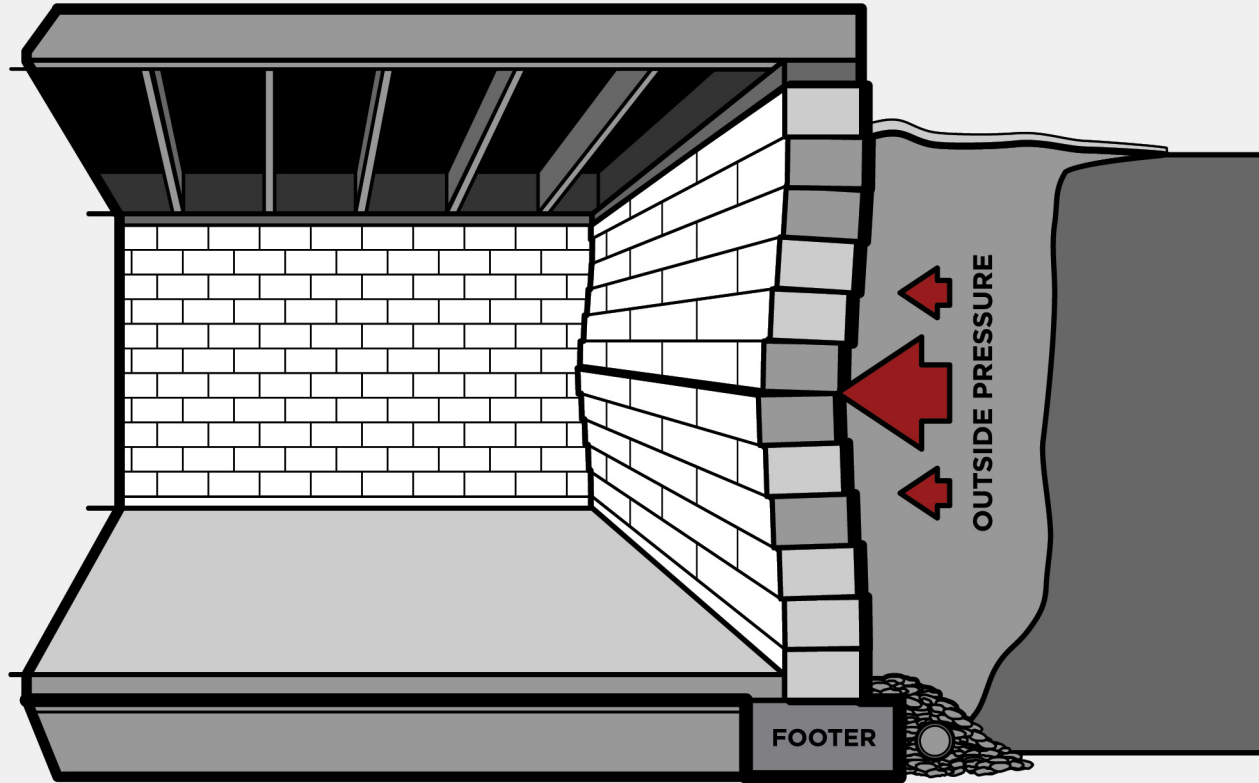


WALL TIE BACKS

TOP VIEW DIAGRAM

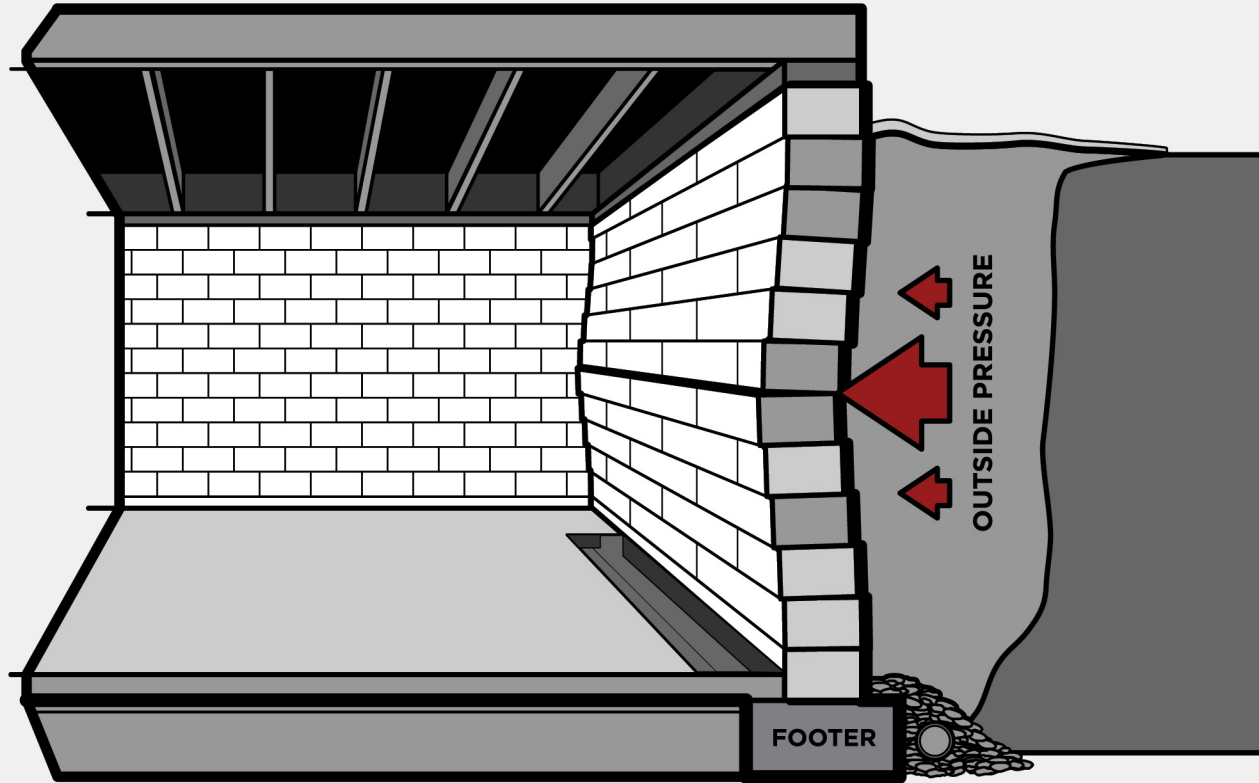
STATIONARY BEAMS

- Expensive (\$\$)
- Obtrusive beams stick out from wall
- Cracks in wall not fixed
- Decreased property value
- Steel flexes
- Loss of space
- Scary to prospective buyers



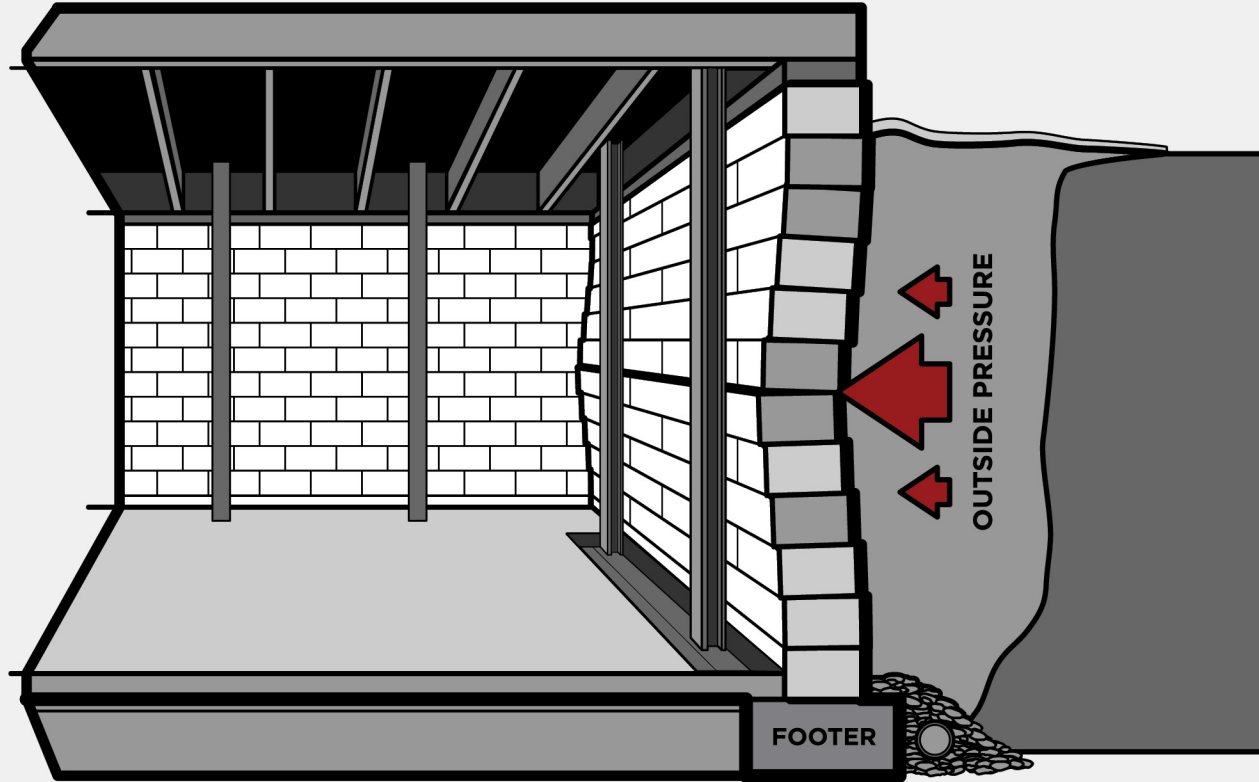
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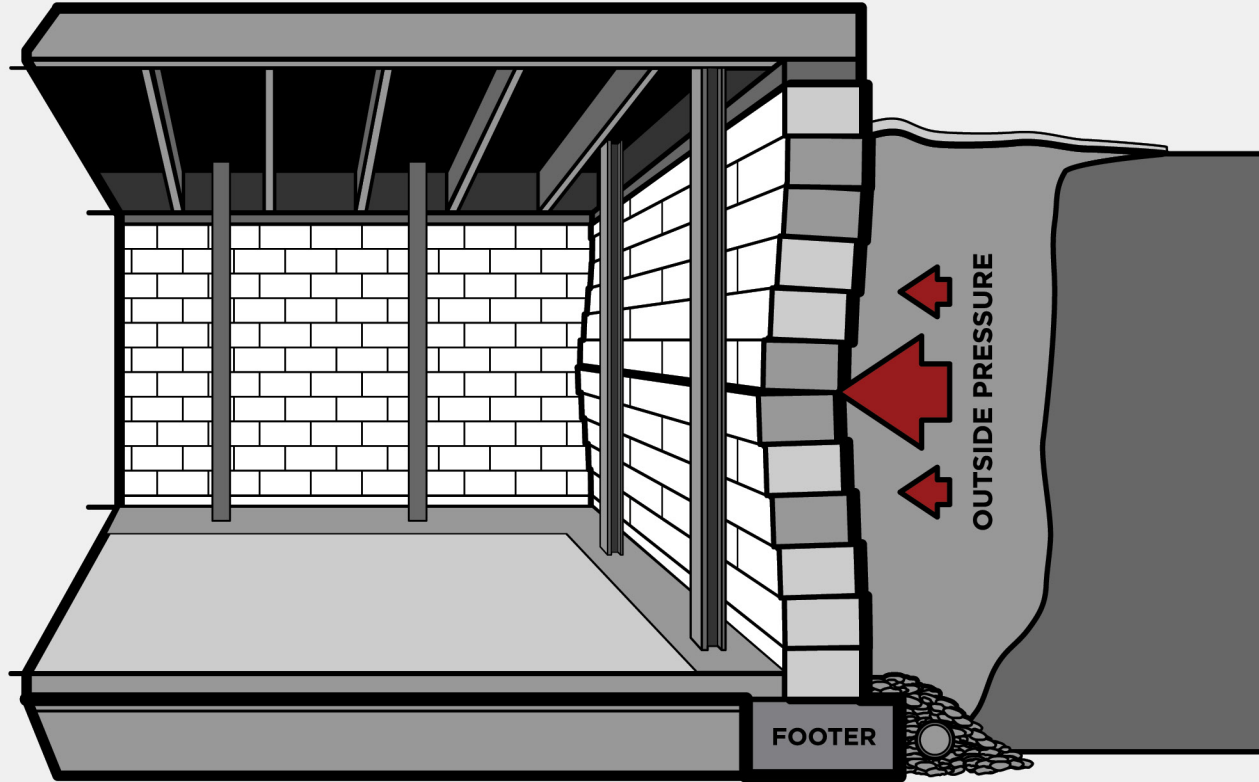
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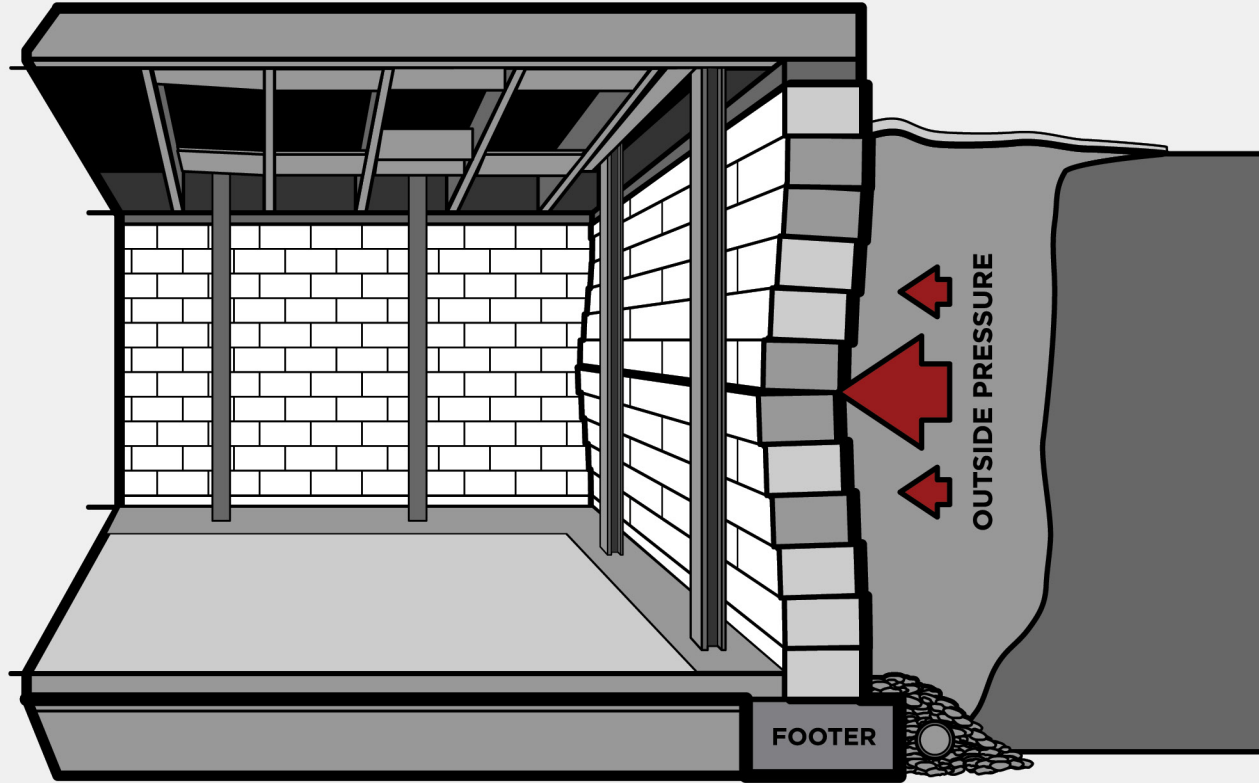
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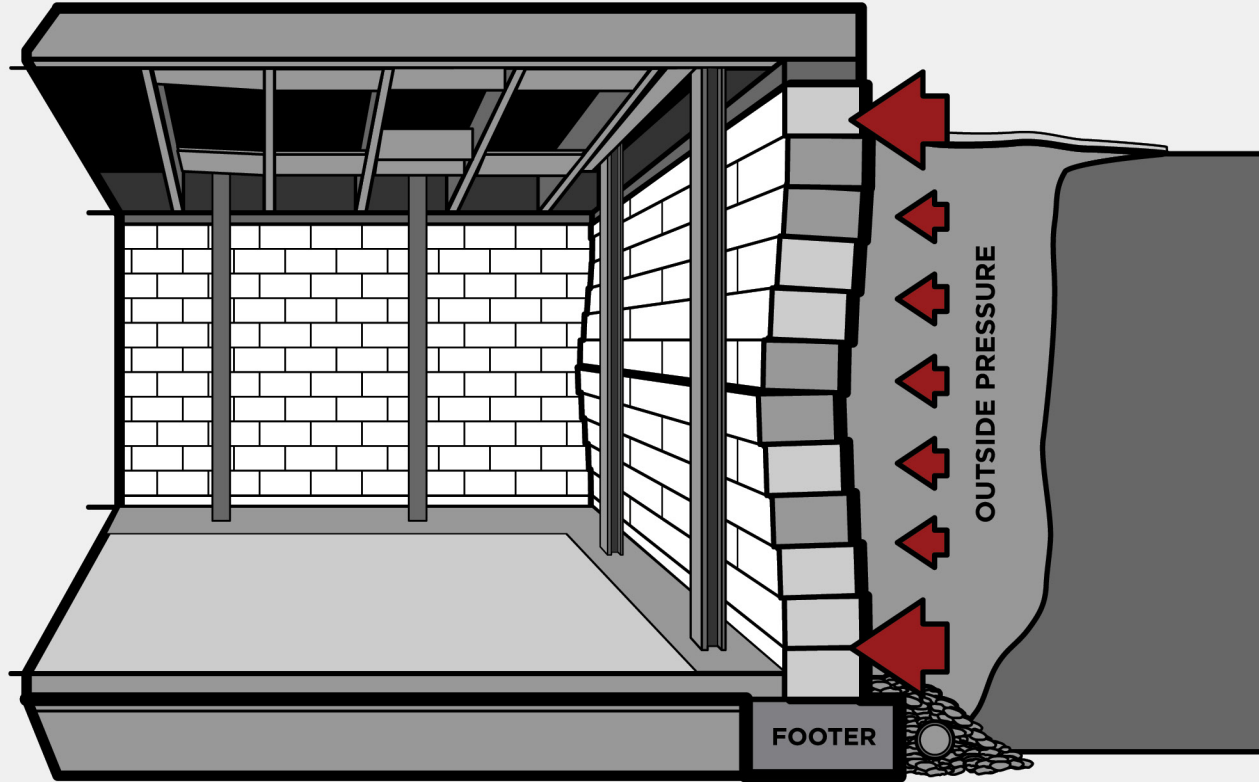
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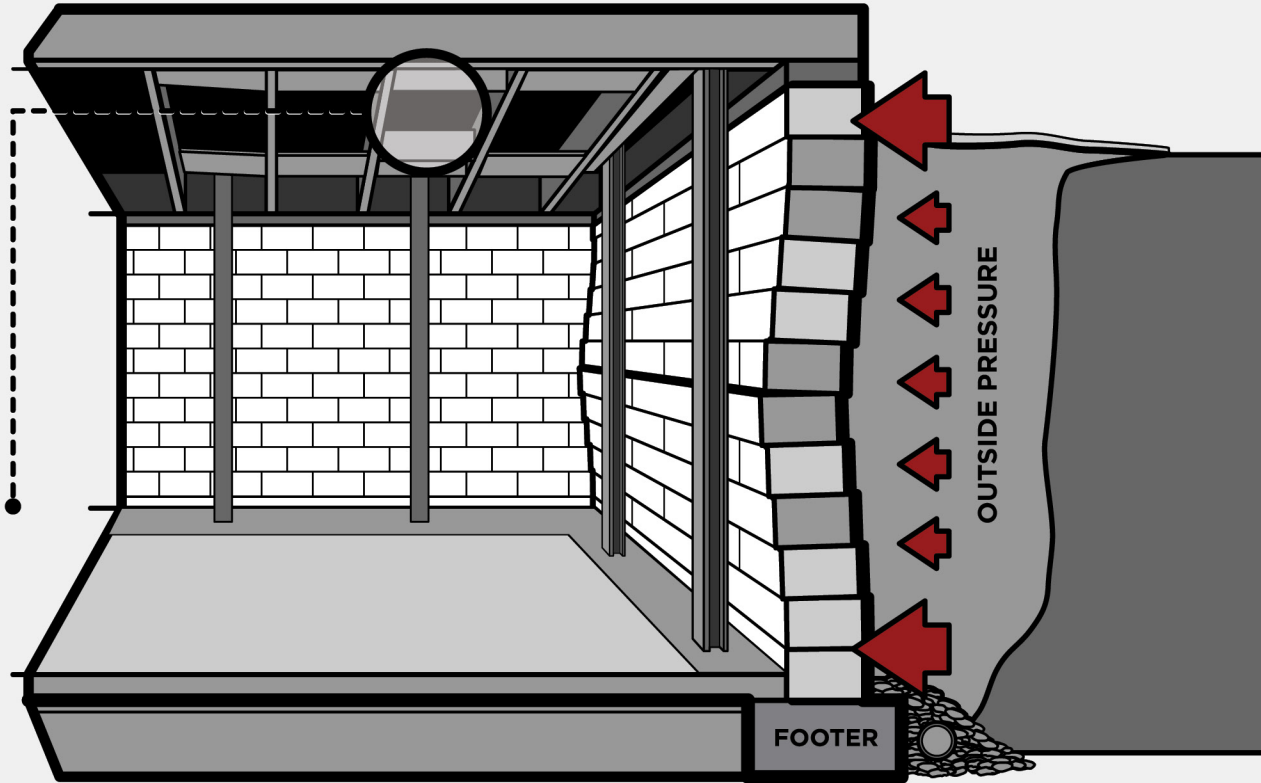
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PROBLEM AREA
BRACING REQUIRED
BETWEEN FLOOR JOISTS

STATIONARY BEAMS

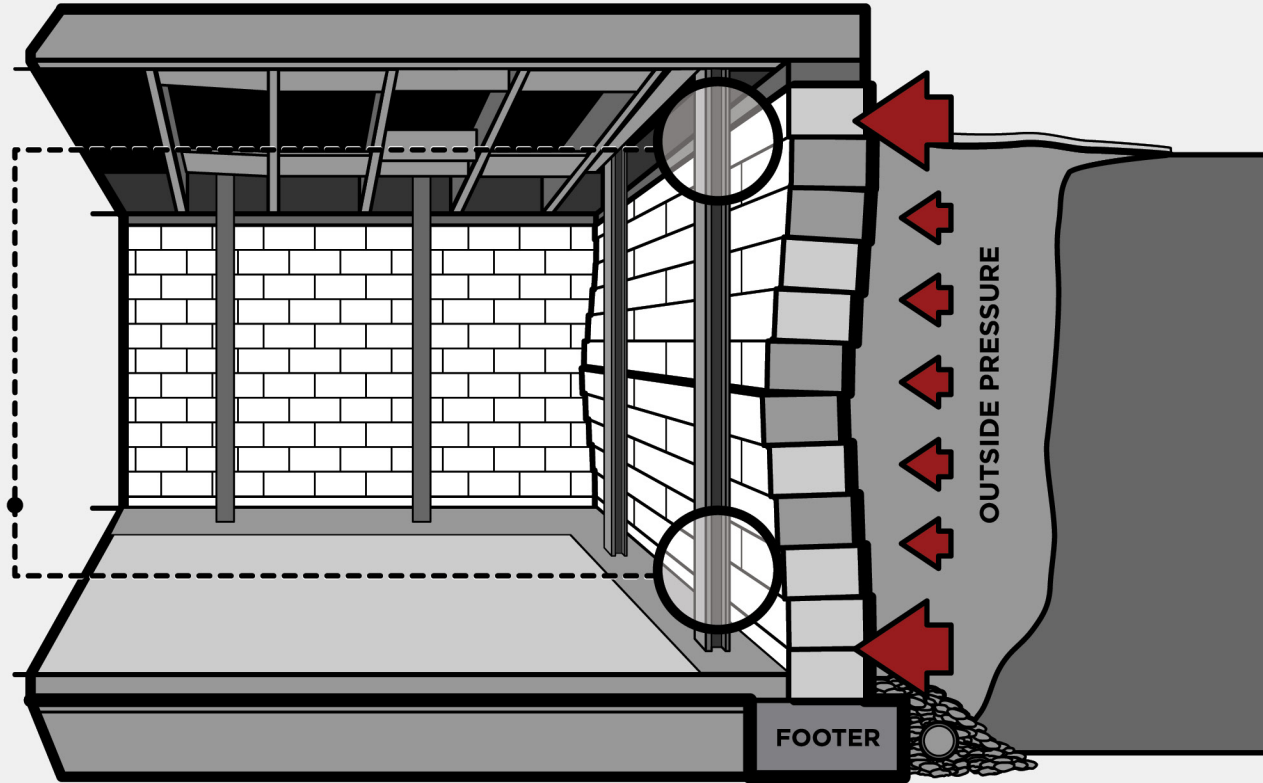
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PROBLEM AREA
BEAMS DO NOT
TOUCH WALL

STATIONARY BEAMS

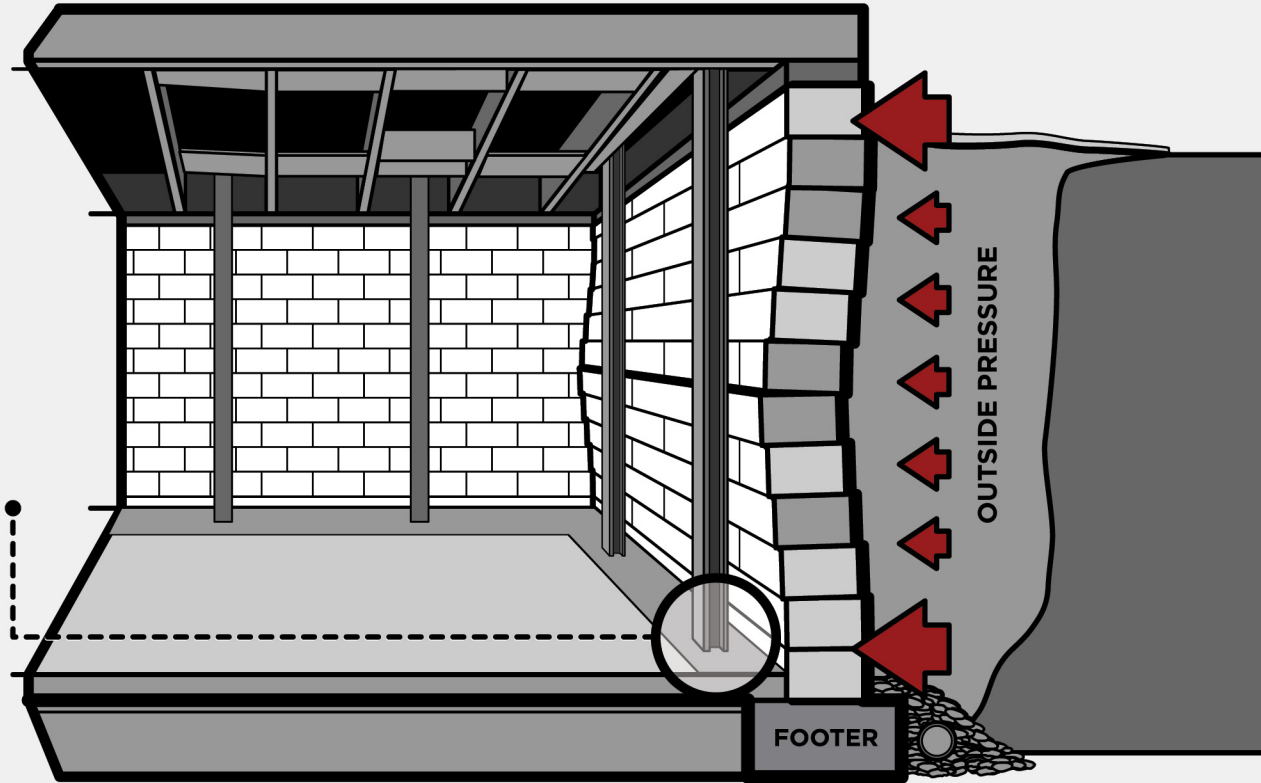
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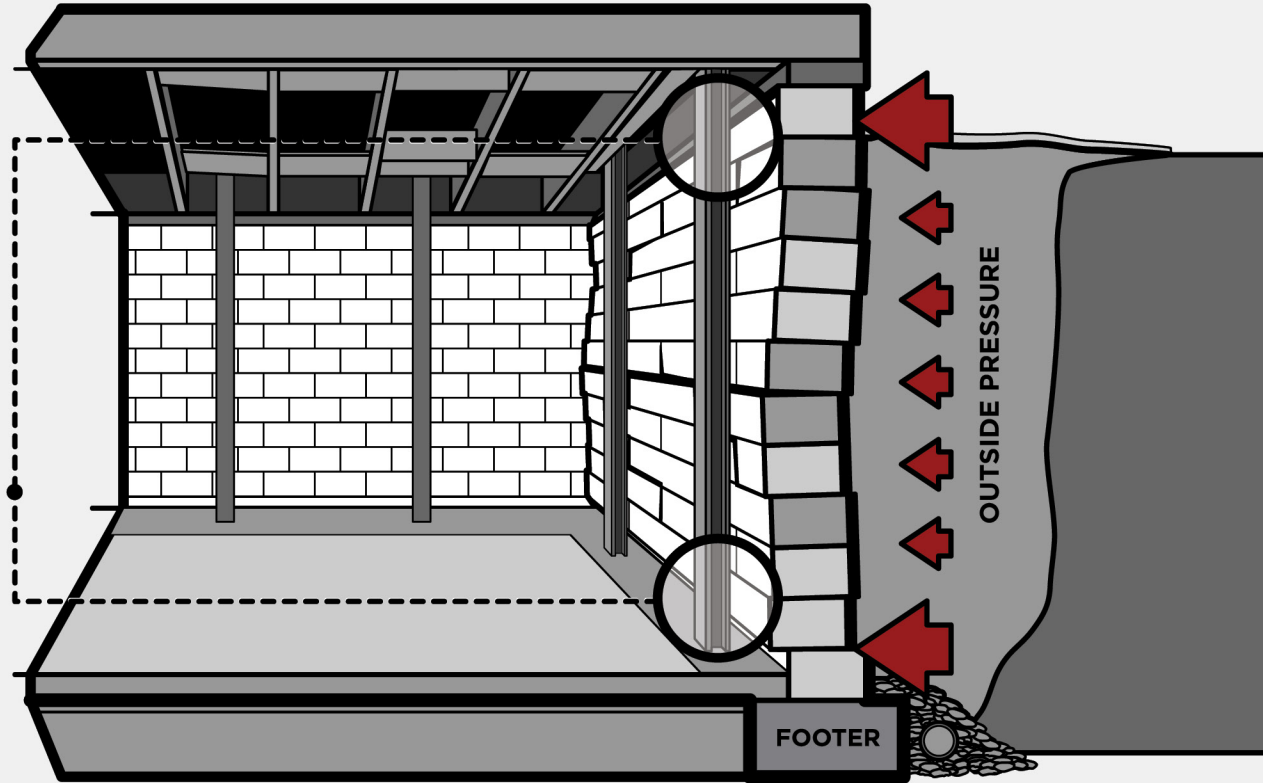
PROBLEM AREA
CONCRETE DRILLING &
PATCHWORK REQUIRED



PROBLEM AREA
WALL SHEARING OCCURS

STATIONARY BEAMS

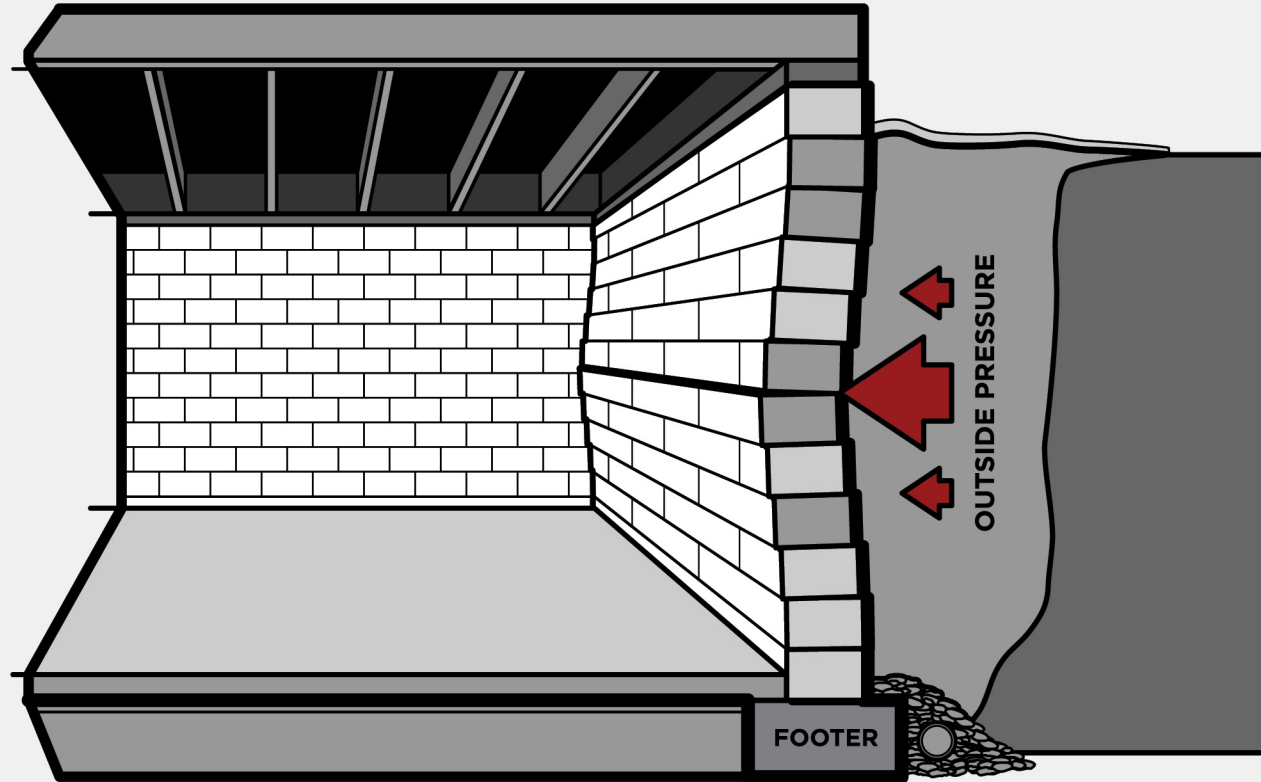
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POWER BEAMS

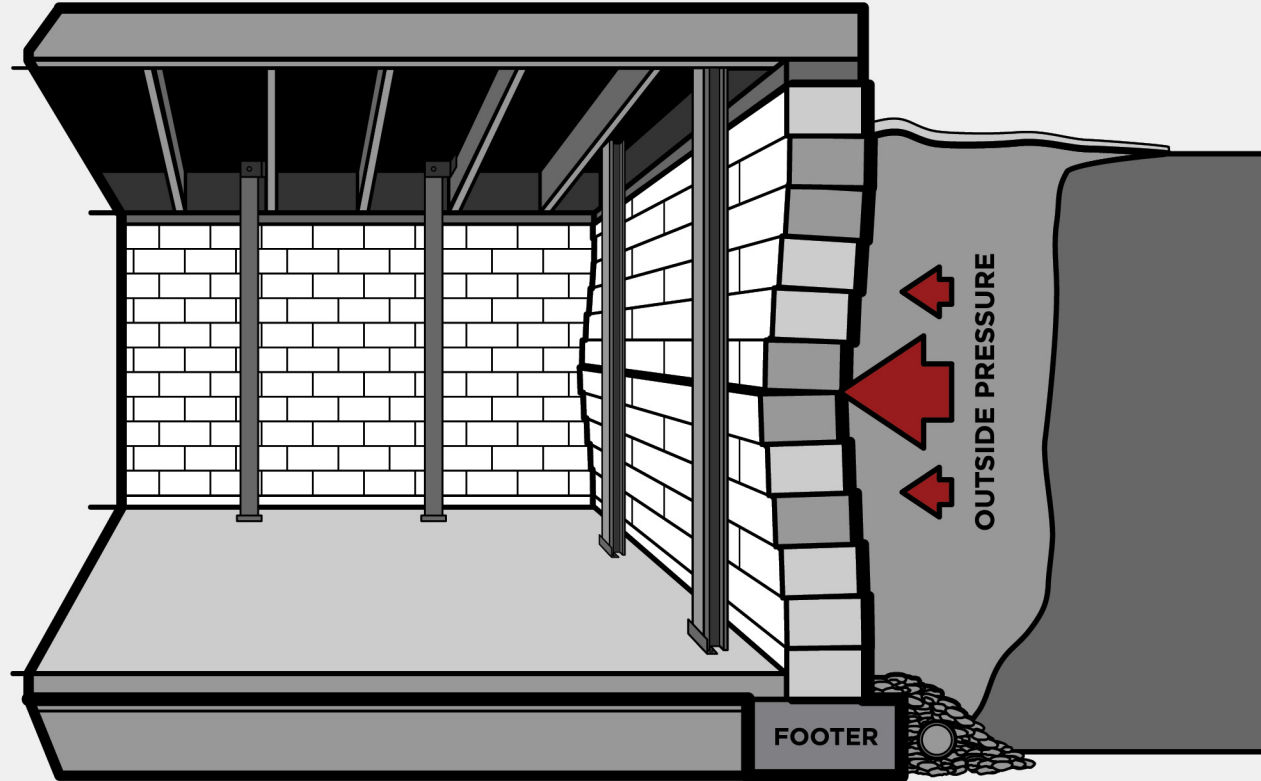
- Expensive (\$\$\$)
- Obtrusive beams stick out from wall
- Cracks in wall not fixed
- Beams not secured to floor
- Increased pressure twists floor joists (causing floor to move)
- Decreased property value
- Wall won't move back
- Unable to finish because the beams need to be accessible





POWER BEAMS

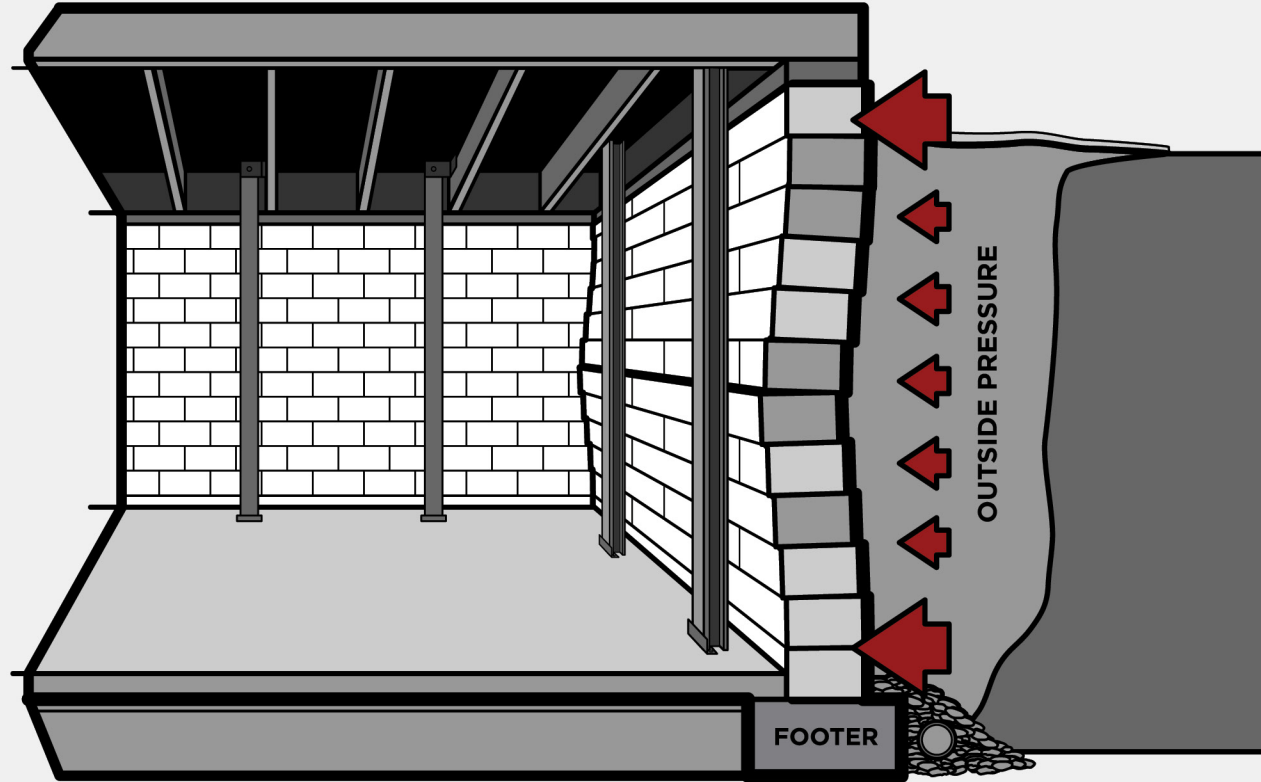
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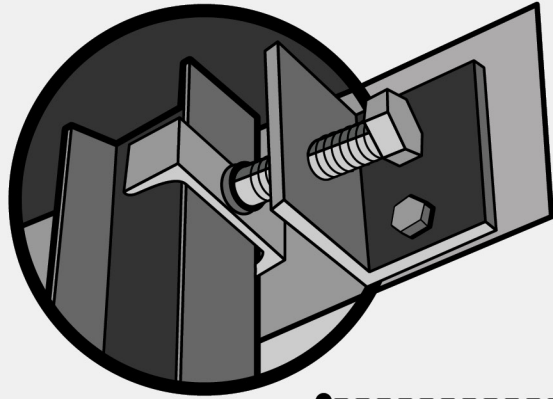




POWER BEAMS

- Expensive (\$\$\$)
- Obtrusive beams stick out from wall
- Cracks in wall not fixed
- Beams not secured to floor
- Increased pressure twists floor joists (causing floor to move)
- Decreased property value
- Wall won't move back
- Unable to finish because the beams need to be accessible

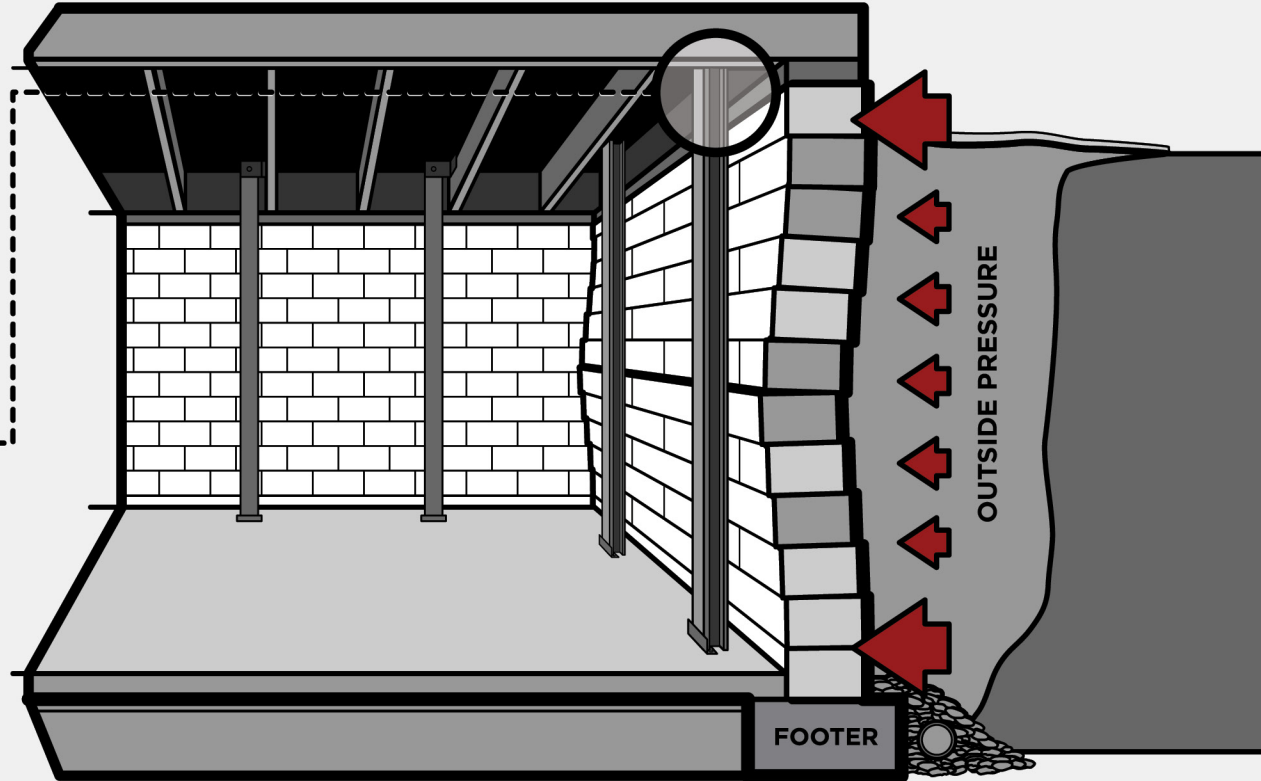




PROBLEM AREA
PRESSURE TWISTS
FLOOR JOISTS

POWER BEAMS

- Expensive (\$\$\$)
- Obtrusive beams stick out from wall
- Cracks in wall not fixed
- Beams not secured to floor
- Increased pressure twists floor joists (causing floor to move)
- Decreased property value
- Wall won't move back
- Unable to finish because the beams need to be accessible

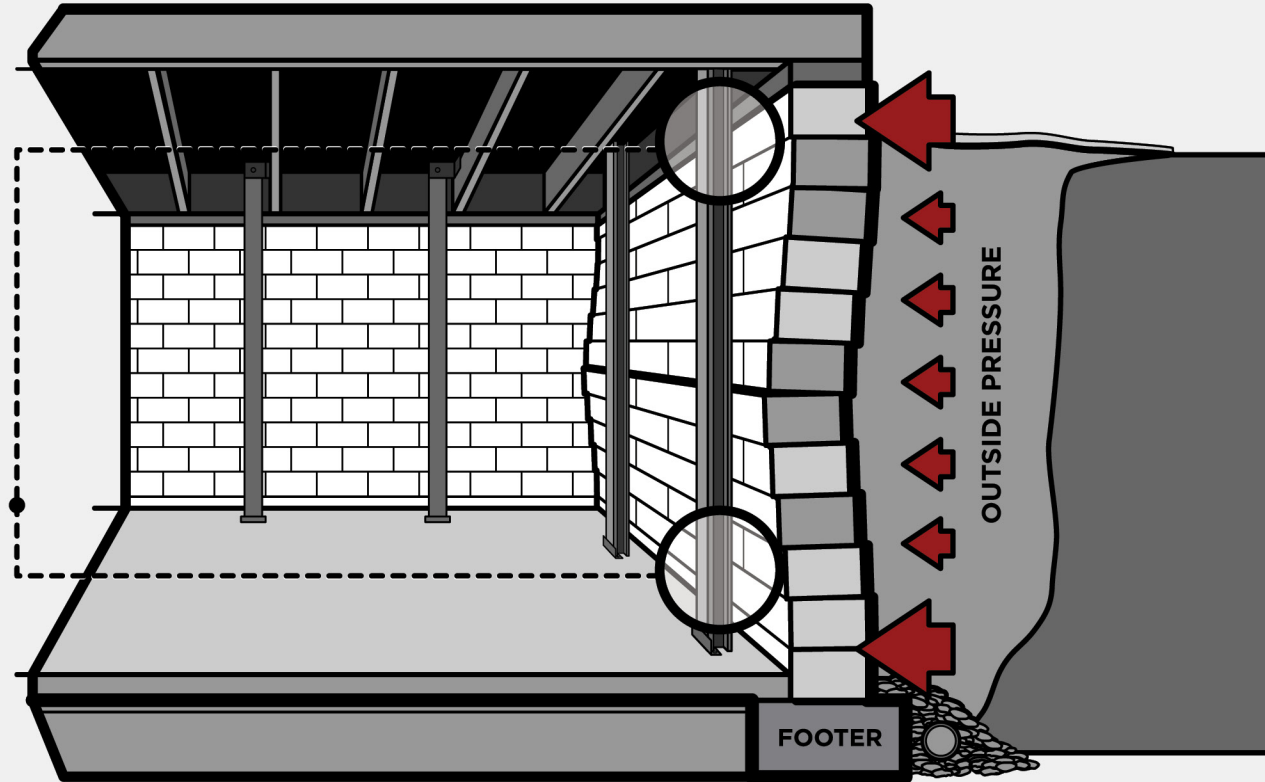


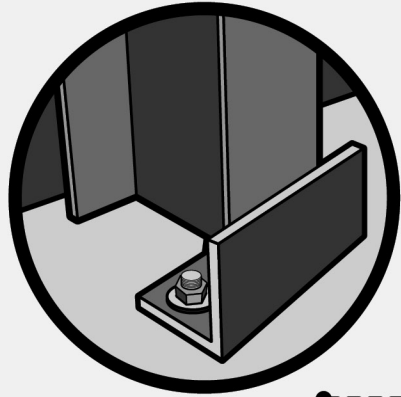


POWER BEAMS

- Expensive (\$\$\$)
- Obtrusive beams stick out from wall
- Cracks in wall not fixed
- Beams not secured to floor
- Increased pressure twists floor joists (causing floor to move)
- Decreased property value
- Wall won't move back
- Unable to finish because the beams need to be accessible

PROBLEM AREA
BEAMS DO NOT
TOUCH WALL

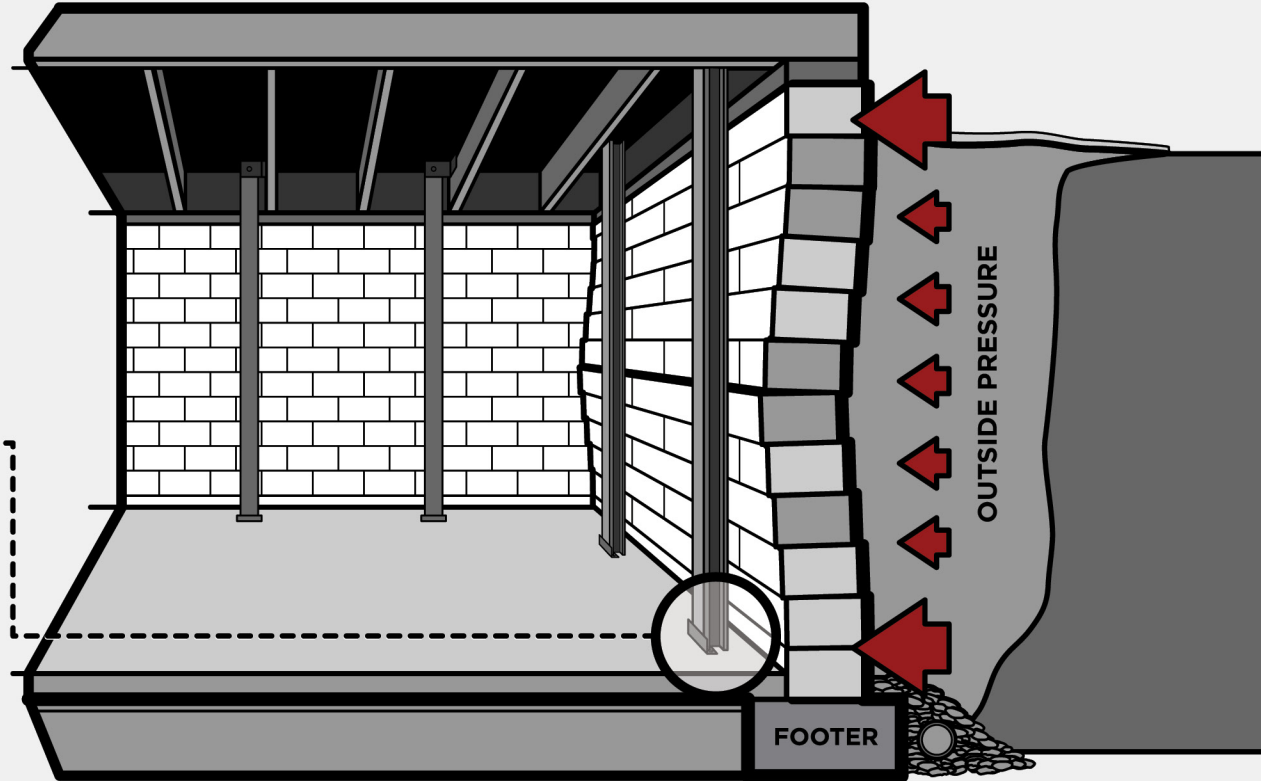




POWER BEAMS

- Expensive (\$\$\$)
- Obtrusive beams stick out from wall
- Cracks in wall not fixed
- Beams not secured to floor
- Increased pressure twists floor joists (causing floor to move)
- Decreased property value
- Wall won't move back
- Unable to finish because the beams need to be accessible

PROBLEM AREA
NOT SECURED
PROPERLY TO FLOOR

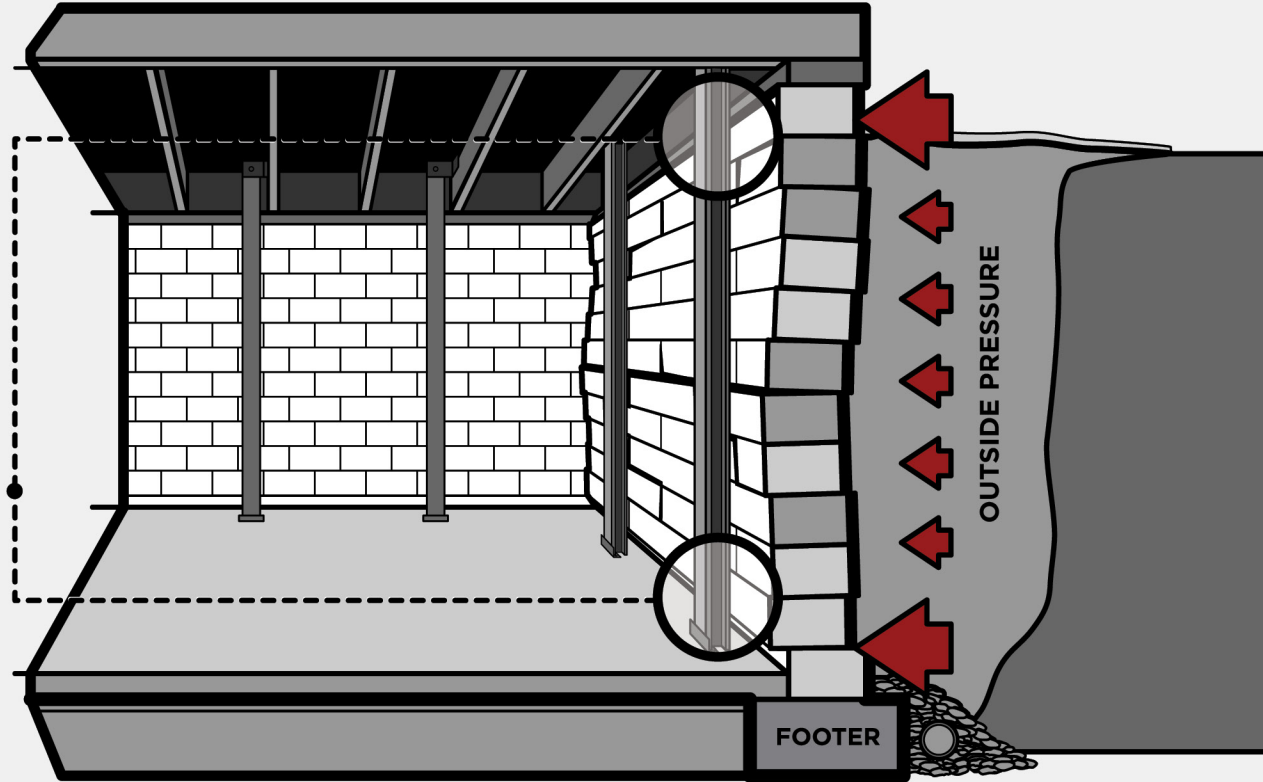


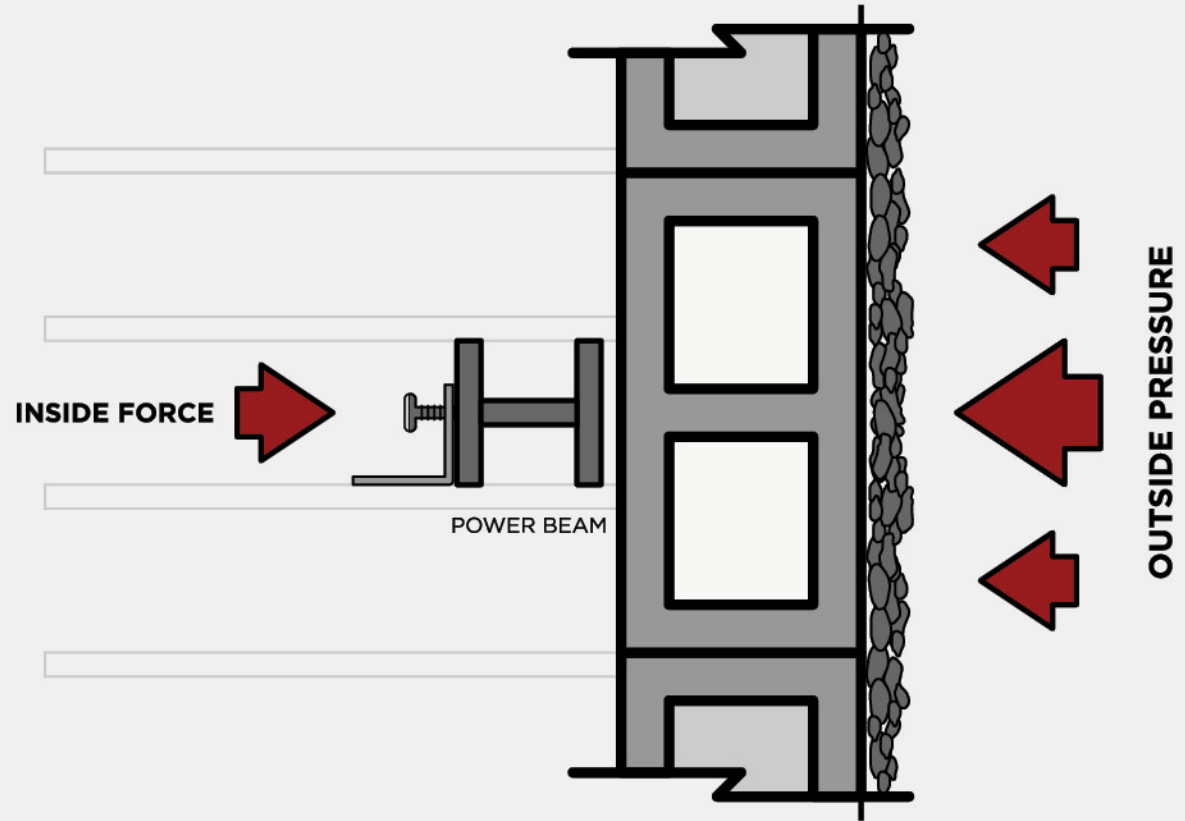


POWER BEAMS

- Expensive (\$\$\$)
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- Cracks in wall not fixed
- Beams not secured to floor
- Increased pressure twists floor joists (causing floor to move)
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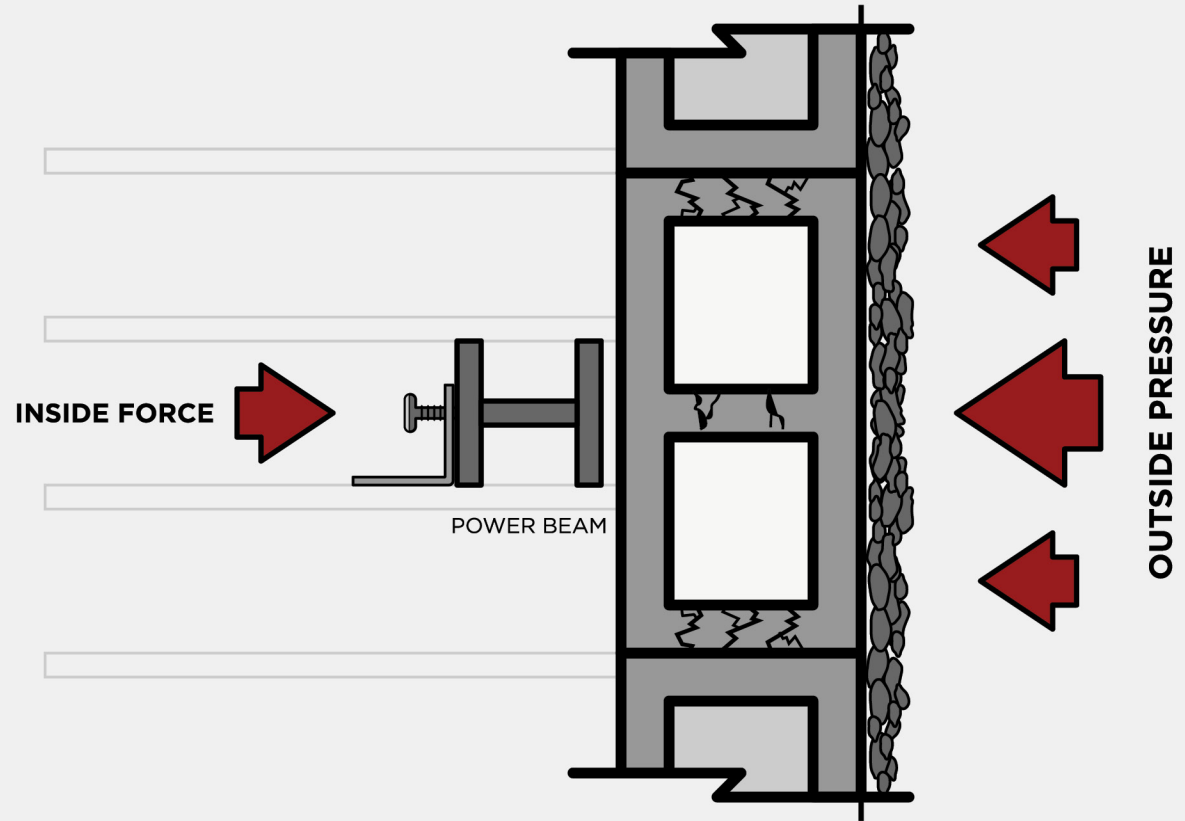
PROBLEM AREA
WALL SHEARING OCCURS





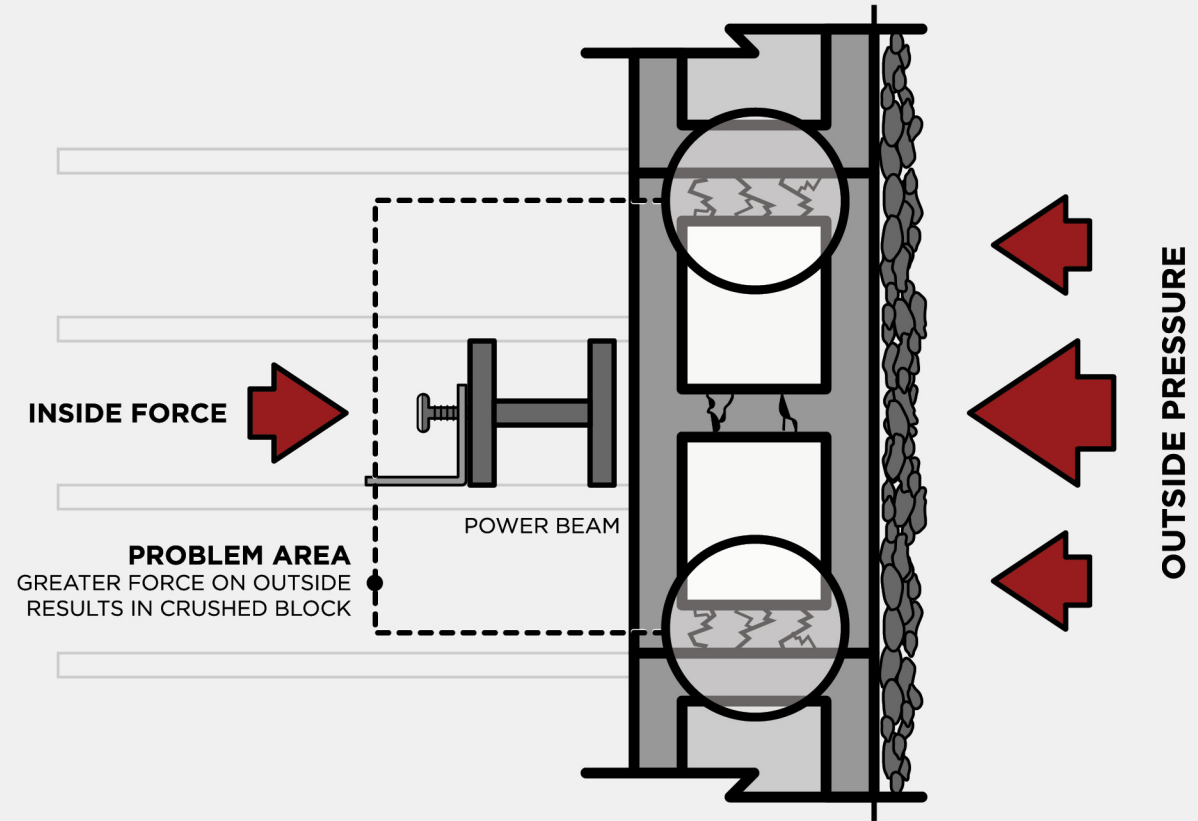
POWER BEAMS

TOP VIEW DIAGRAM



POWER BEAMS

TOP VIEW DIAGRAM



POWER BEAMS

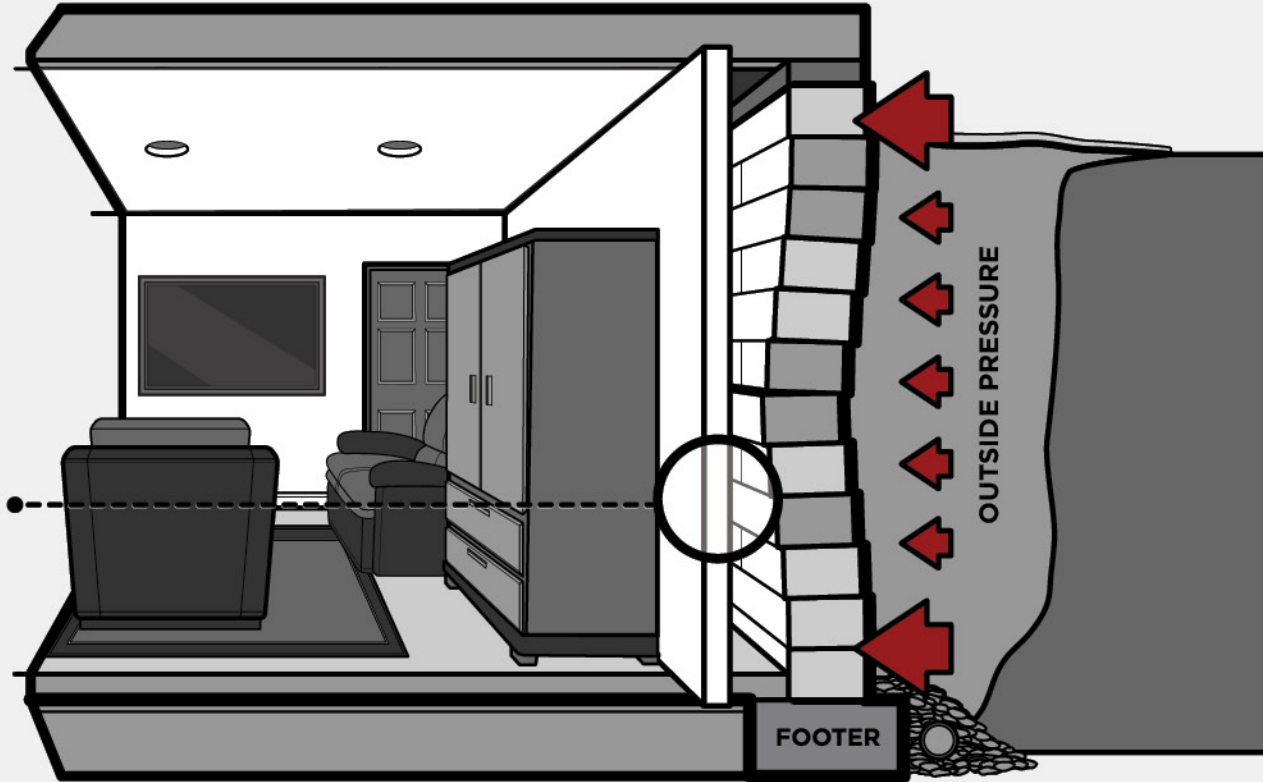
TOP VIEW DIAGRAM



PROBLEM AREA
FINISHING SPACE DECREASED
DUE TO OBTRUSIVE BEAMS

FINISHING & POWER BEAMS

Square footage decreases when finishing your space due to obtrusive beams.



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PowerBrace

FOUNDATION WALL REINFORCEMENT

Reversing the forces of nature.

About PowerBrace

Work Examples

Contact PowerBrace

About PowerBrace

Customer Testimonials

Find A Dealer

PowerBrace offers a permanent solution to fixing cracked or bowed walls due to the constant movement of soil. The Patented **PowerBrace** Brackets reverses the forces of nature by reinforcing the wall and over time can move the wall back to its original position with out excavation outside of the home or removal of concrete from the basement floor. Whether the foundation wall is built with block, tile, wood, or poured concrete Power Brace offers a permanent solution.

The PowerBrace Advantage

The Patented **PowerBrace** Brackets have revolutionized the use of steel I-beams to reinforce a bowing basement wall. I-beams have been used to reinforce basement bowing walls for decades but the with the help of the **PowerBrace** Brackets steel I-beams have been transformed into the most reliable foundation wall bracing system available. Unlike wall anchor systems that rely on the moving soil to stabilize a foundation wall, the **PowerBrace** utilizes the strength of the concrete floor and the floor joist to stabilize the foundation wall.

The bottom bracket of the **PowerBrace** simply uses two concrete anchors to hold the I-beam in place against the bottom of the foundation wall. The **PowerBrace** top bracket fastens in the floor joist and when a constant pressure is kept on the bracket the beam will slowly move the wall back to its original position with out any exterior excavation, except in extreme situations. Since the **PowerBrace** has contact with the wall from the basement floor up to the floor joist, the **PowerBrace** will eliminate the need for any exterior excavation.

POWER BEAMS

POWER BRACE / THE FORCE

www.foundationwallbrace.com

www.thereinforcer.com

PowerBrace was just what I was looking for.

—Michael L. Sterk — Pella, IA

I am very pleased with the work you did. The crack along the long wall is almost closed up already. They did a fantastic job of cleaning up. Thank you!

—Verna Coblentz — Millersburg, OH

I liked the price of PowerBrace and also that all of the work was done on the inside of the home.

—Steve Riedy — Hops, KS

Thank you for selling us the PowerBrace. We are very pleased with the results. Actually, it saved our wall from caving in when we dug out the basement. Thanks for all of your help and information

—Don & Tammy Frey — Mineral Wells, TX

We are impressed that our basement wall has been straightened as much as it has. The wall has been corrected 85%. We did not expect such a good job!

—Bernard J. Knepp — Alliance, OH

I enjoyed the clear explanation of the PowerBrace system versus other systems.

—Kathy Kunkel — Mapleton, MI

The PowerBrace System was a great solution to our problem.

—Martin Finestead — Urbana, IL

Simply fill out the form below or call 866-375-9990 and we will have your local PowerBrace dealer contact you for a no obligation, free estimate.

First Name:

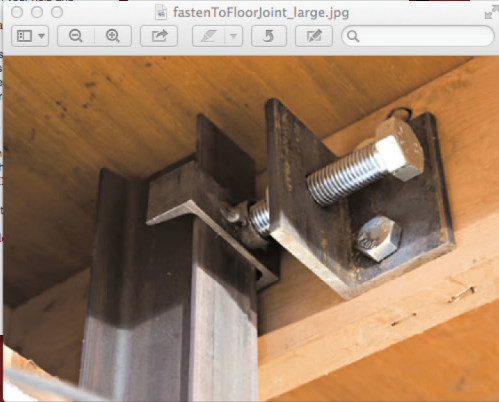
Last Name:

Street:

City:

State / Zip:

Phone:



The Force

structural tension

thereinforcer.com/the_force_i5.html

Experiencing Extreme Foundation Failure? Force the issue!

Extreme Failures Demand Extreme Force! The Force of Nature...

Reversed! Constant soil pressure and movement can lead to severely damaged concrete foundation walls ... buckling, cracking, and often worse. When this force of nature moves in, The Force structural bracing system, counteracts the stress!

The Force is a patented system structural tension-loaded, steel I-beam reinforcement system that is designed to straighten block or concrete walls over time. The Force is recommended in more extreme situations where bowing is in excess of 2-inches.

Unique Spring-Coil Design ... Applies 1,000 lbs. of Constant Force

Without excavation or homeowner assistance, The Force's unique spring-coil design helps straighten walls over time. Unlike other bracing systems, The Force utilizes a tension-loaded spring coil that applies a constant 1000-pound force on the wall.

During hot, dry weather concrete walls dry out, reducing its pressure. The Force's tension-load spring coil is structurally supporting the wall.

DIAGRAM >>

INSTALLING THE FORCE

FINISHING >>





POWER BRACE
EXAMPLES

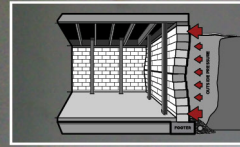
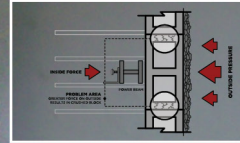
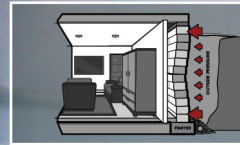


DIAGRAM >>



TOP VIEW >>



FINISHING >>





DIG & PUSH

- Expensive (\$\$\$)
- Obtrusive
- Difficult installation process
- Destructive to sidewalks, driveways, flowerbeds and yards



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Carbon Fiber.

Strongest Wall Repair System Available.

No deterioration or rotting

No movement

Minimal intrusiveness

Fast, clean installation

Once again there are several options to choose from...



www.RhinoCarbonFiber.com

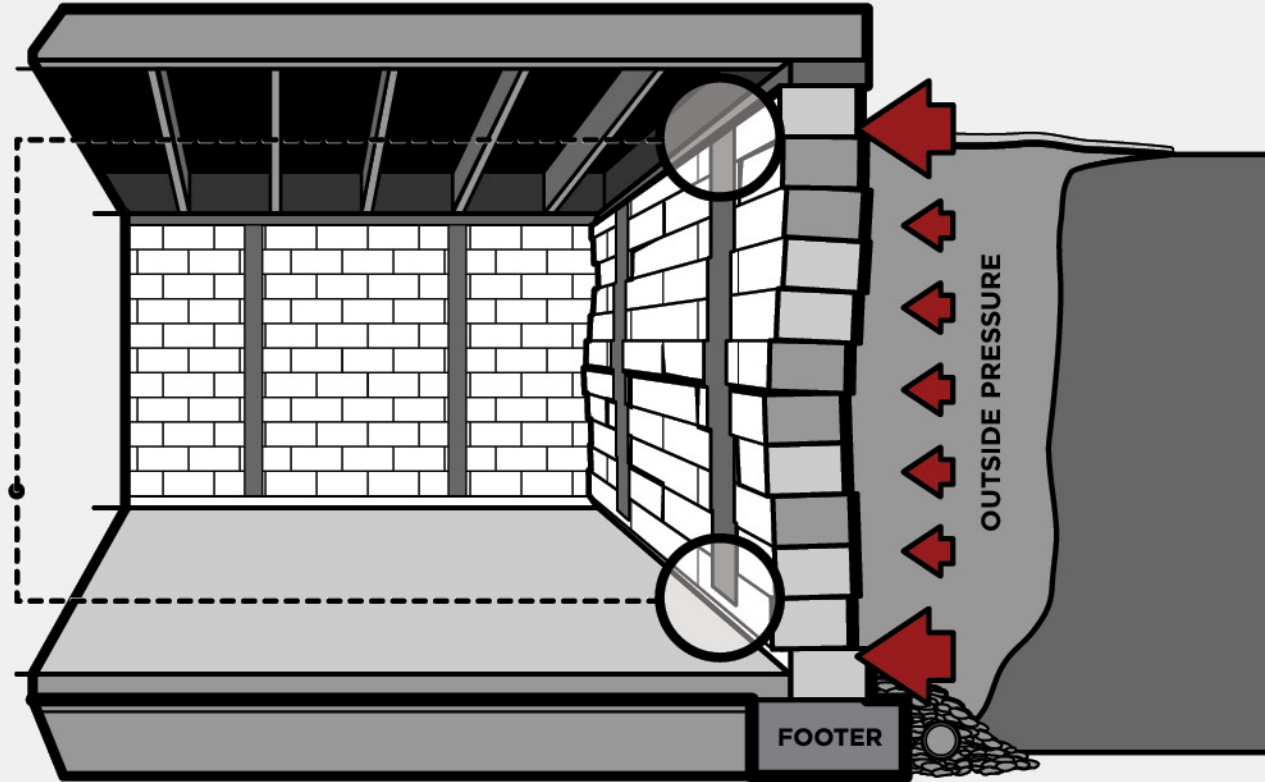
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PROBLEM AREA
WALL SHEARING OCCURS

CARBON FIBER PLATES 4-5 INCH WIDE STRIPS

- No connection to sill plate or floor
- Damage continues at top/bottom of wall
- No horizontal strength
- No visible signs that plates are sealed to wall
- Epoxy difficult to apply



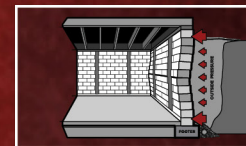


DIAGRAM >>

carbon fiber foundation cr x

carbon fiber foundation cr x

Rhino

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The Reinforcer

Case Studies

Company Information

The Force

The Terminator

Design & Installation

Find an Installer

Contact

The Reinforcer Carbon Fiber Concrete Reinforcement

What Is The Reinforcer® foundation wall stabilization system ?

The Reinforcer® composite system is a Fiber Reinforced Polymer (FRP) made of carbon fibers and an epoxy resin matrix specifically designed for strengthening and repair concrete and masonry.

How does The Reinforcer® work to keep basement walls from cracking?

When **THE REINFORCER®**, concrete reinforcement, is applied to foundation walls, it counteracts further wall buckling from outside pressure on the wall. Taking the tension force (or tensile load) that the basement wall cannot.

For every increase in pressure on the foundation wall, **THE REINFORCER®** supplies an equal and opposite resistant force making the wall stronger. It helps repair expanding, buckling, bowing, and cracking walls by using carbon fiber to strengthen the walls.

View our Independent Lab & Field Testing video

reinforcer_product.jpg

CARBON FIBER PLATES
THE REINFORCER
www.thereinforcer.com

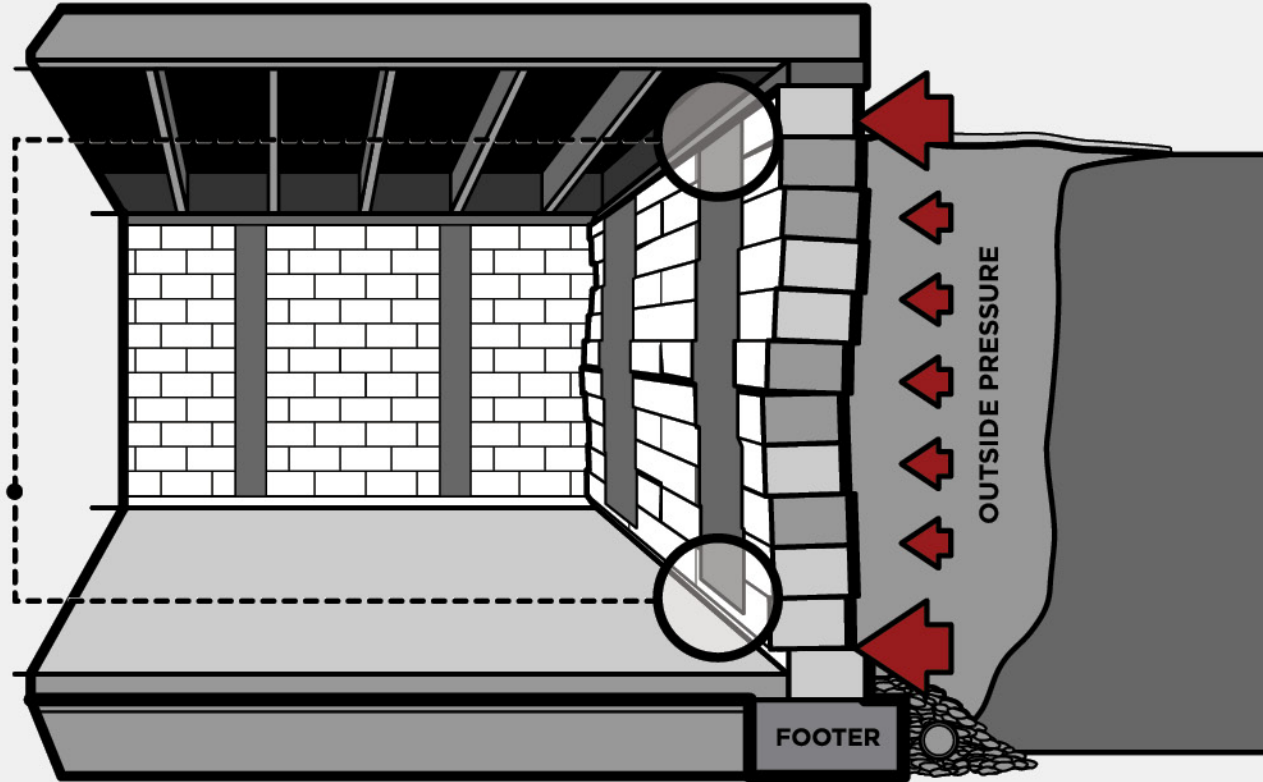




PROBLEM AREA
WALL SHEARING OCCURS

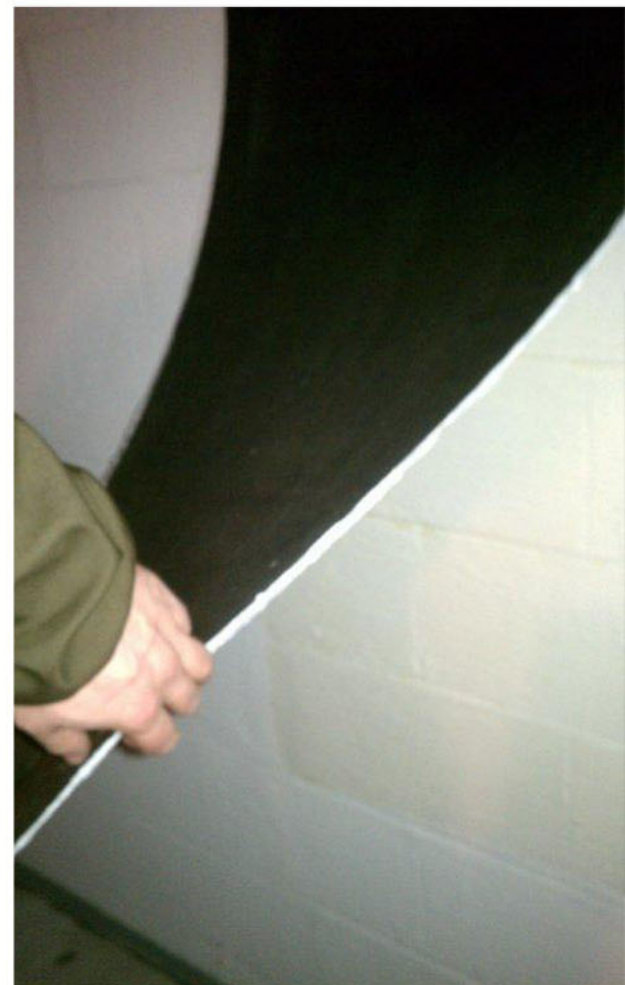
CARBON FIBER SHEETS 12 INCH WIDE STRIPS

- No connection to sill plate or floor
- Damage continues at top/bottom of wall
- No horizontal strength
- Messy installation





CARBON FIBER SHEETS



stablwallcarbonfiber.com

NO HASSLE! Return Policy

Order Your Repair Kit!
866-782-5955

Visit Our Blog | Order Now!

Home How It Works + Advantages + Diagnose + Homeowners Contractors Gallery **NEW** FAQ Contact Us

Are Your Basement Walls Bowing?

Get Your Repair Kit Today!

Thin as a dime,
10X stronger than steel!

CARBON FIBER SHEETS
STABLOW
FIBERLOCK

www.stablwall.com
www.fiberlock.com

JOIST
WALL
FLOOR

Hang a string with a weight so it just touches the wall where it bows the most.

Measure the distance from the bottom of the wall to the string. That is the total deflection of the wall.

Can we help?

Thanks for coming back. Is there anything I can do to help?

Message

Powered by ClickDesk

Marketing Toolbox - Fiber x fiber lock foundation - Go x

www.fiberlock.com/marketingtools/

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Fiberlock Technologies - Marketing Toolbox

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Lead Abatement
Asbestos Abatement
Healthcare
Disaster Restoration
JanSan

Resources
(Regulations and Guidelines)

5520
EPA
CDC
IAQA
VOC Guidelines
Green Products

Fiberlock TECHNOLOGIES

Product Marketing Resources

A - F G - L M - R S - Z

Low Resolution Images: Right Click Image and Click Save As
High Resolution Images: Click Download Button

A - F

ABC - Asbestos Binding Compound

6421-Off-White, 6422-Clear, 6423-Green

Asbestos Overview
Asbestos Product Reference

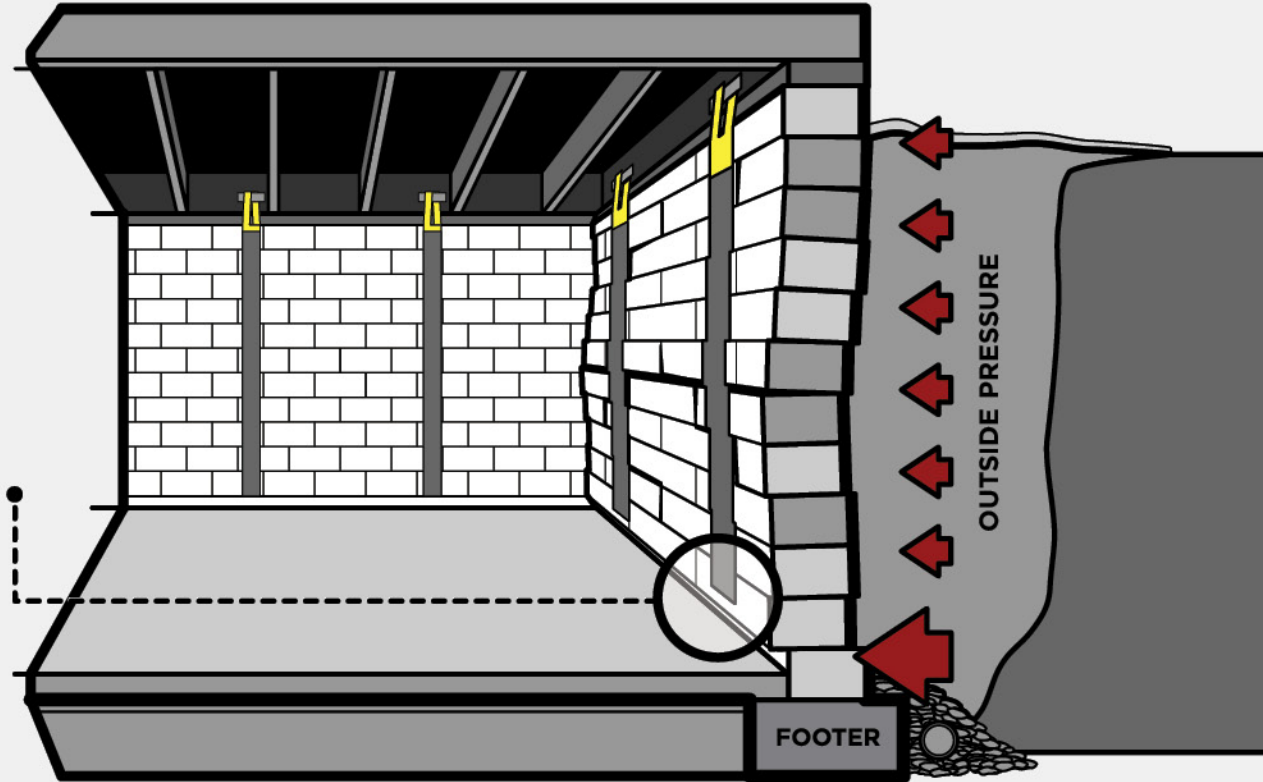
PDS
MSDS:
• 6421 | 6422 | 6423
Labels:
• 6421 | 6422 | 6423
10 Point Specification



PROBLEM AREA
WALL SHEARING OCCURS

CARBON FIBER KEVLAR WEAVE 5 INCH WIDE STRIPS

- Movement at necktie attachment
- No connection to floor
- Damage continues at top/bottom of wall
- Minimal horizontal strength





CARBON FIBER KEVLAR WEAVE

- MOVEMENT AT NECKTIE ATTACHMENT
- NO CONNECTION TO FLOOR
- DAMAGE CONTINUES AT TOP/BOTTOM OF WALL
- MINIMAL HORIZONTAL STRENGTH



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Fortress Stabilization's carbon-fiber kevlar sheet product line for construction applications

http://www.fortressstabilization.com/products.php

Google Maps

Anchoring For... PowerBrace... Basement Wall... Foundation Re... Fortress Stabli...

FORTRESS STABILIZATION SYSTEMS

STRUCTURAL COMPOSITE TECHNOLOGY FROM BRIDGES TO BASEMENTS

HOME COMPANY PRODUCTS PRODUCT USE CONTACT

Homeowners Foundation Issues
Learn about the common foundation and concrete repair issues homeowners face.

Carbon Fiber Grids
For Concrete Applications in Commercial Settings.

Carbon Fiber Grids
For Decorative Concrete Overlays.

Reinforcement and Concrete Repair
Carbon-fiber technologies in concrete repair.

Foundation Repair
Carbon-fiber technologies in foundation repair applications.

Concrete Reinforcement
Carbon-fiber technologies and reinforcement of concrete.

Basement Walls
Carbon-fiber technologies in the reinforcement of bowed basement walls.

Case Studies
Explore the many uses and applications.

Products

COUNTERSUNK STAPLE
Crack Control Stitching System

Fortress Stabilization Systems is pleased to announce our **new countersunk staple**. Designed to be used with a Concrete Slotter, this Pre-Preg Pre-cured Staple is faster to install and easy to cover. Use less Epoxy resin and improves overall staple procedure.

KEVLAR NECKTIE
Top Wall Anchoring System

Fortress Kevlar Necktie is an Aramid Composite webbing combined with an aluminum bracket and zinc coated lags that laminates into 4020 epoxy resin system. Half of the Aramid webbing is traditional fabric, the other half is pre-preg pre-cured with peel-gly which laminates to the foundation assuring entire strap will load in conjunction. It is designed to attach ...

T-ANCHOR
CARBON FIBER KEVLAR

A pre-cured 90% anchor 2" X 2" with 5 carbon fibers cross woven with Kevlar. This can be used as an

TOWSHEET
UNIDIRECTIONAL CARBON FIBER

Carbon Fiber Cloth or Tow Sheet standard unidirectional weave. 150 mm, 300 mm, 450 mm, 600 mm.



DIAGRAM >>

CARBON FIBER KEVLAR WEAVE
FORTRESS STABILIZATION SYSTEMS

www.fortressstabilization.com



CONCRETE®
Chiropractor

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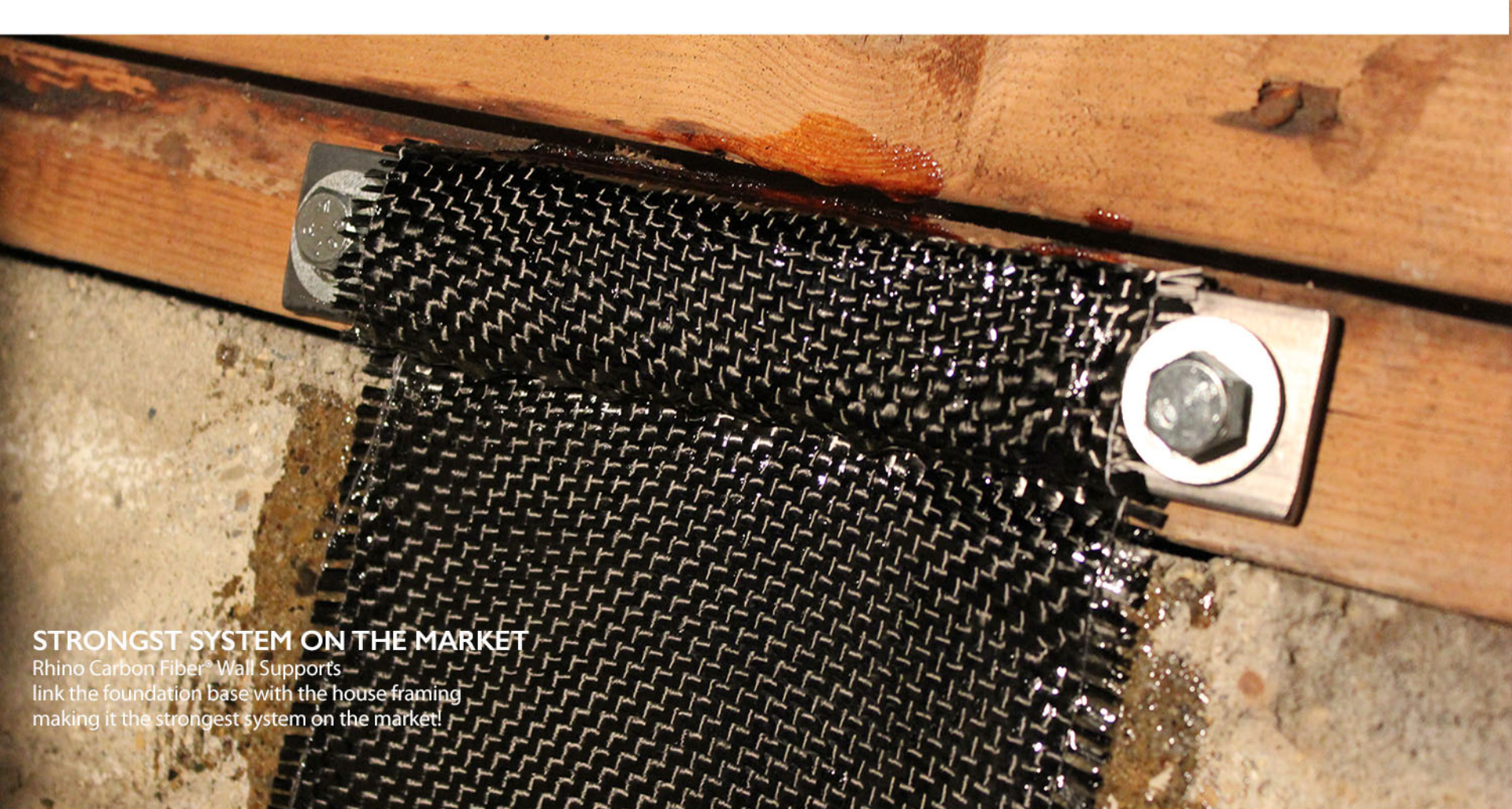
The Most Advanced System Available.

All problems associated with Carbon Fiber have been solved.



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STRONGST SYSTEM ON THE MARKET

Rhino Carbon Fiber® Wall Supports
link the foundation base with the house framing
making it the strongest system on the market!

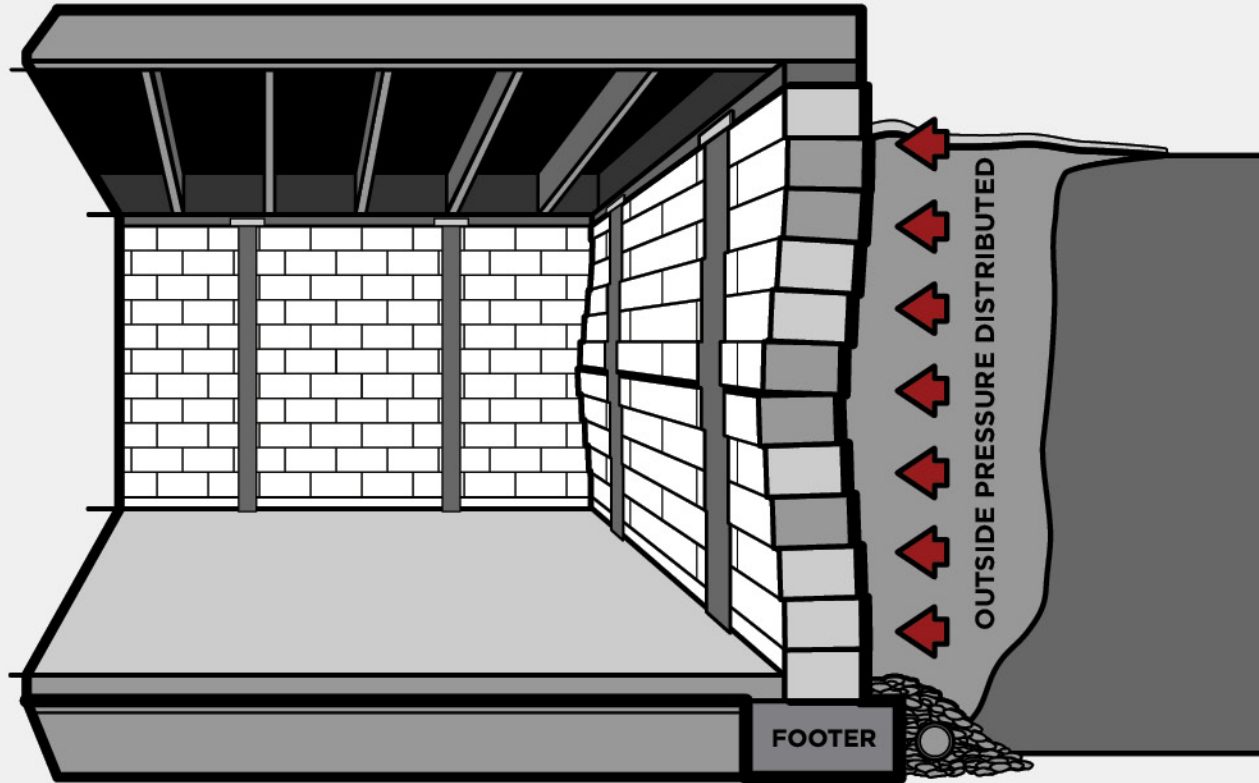


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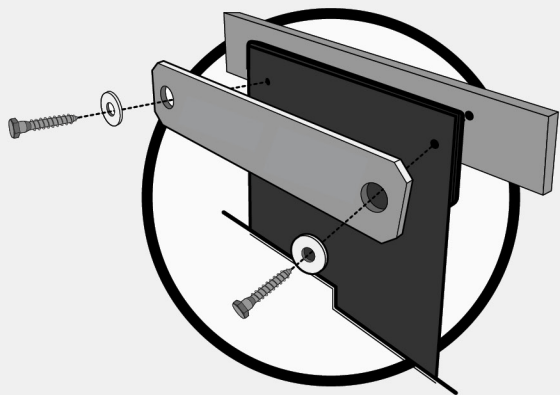
RHINO® CARBON FIBER 5 INCH WIDE STRIPS

- Strongest wall repair system available
- No deterioration or rotting
- No movement
- Minimal intrusiveness
- Fast, clean installation



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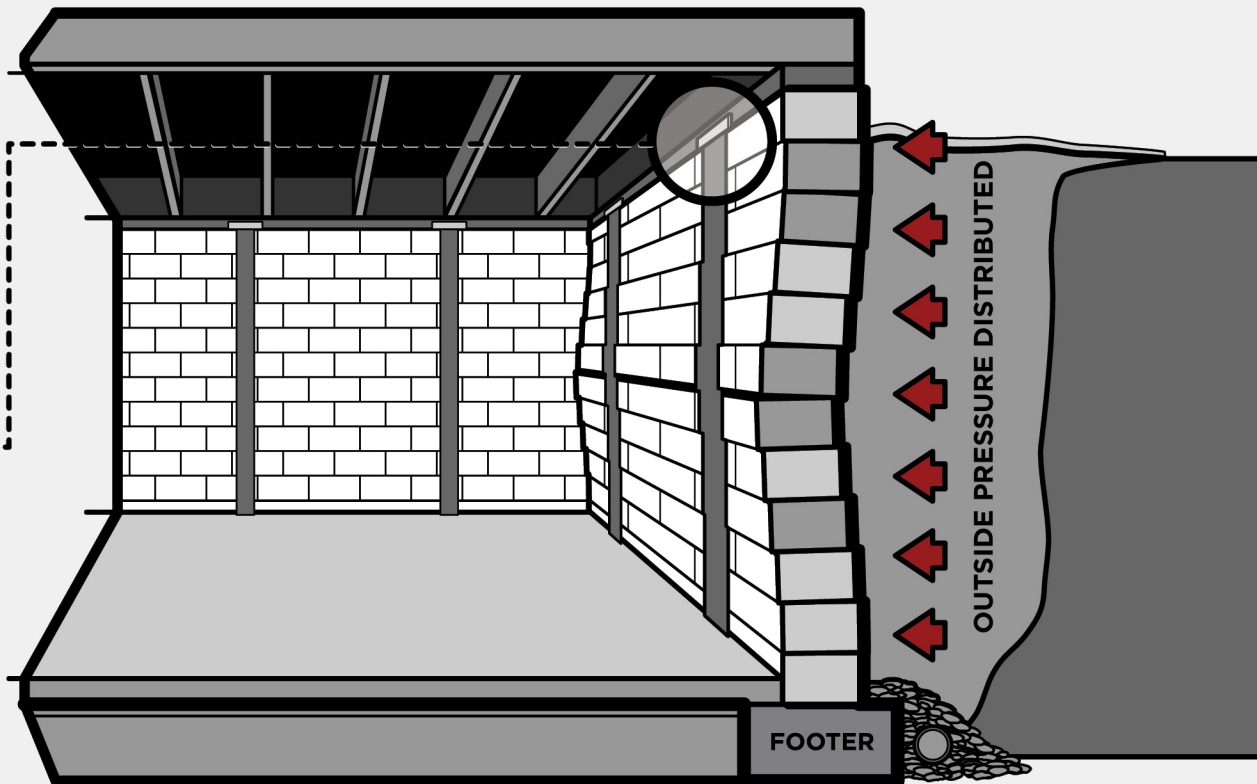
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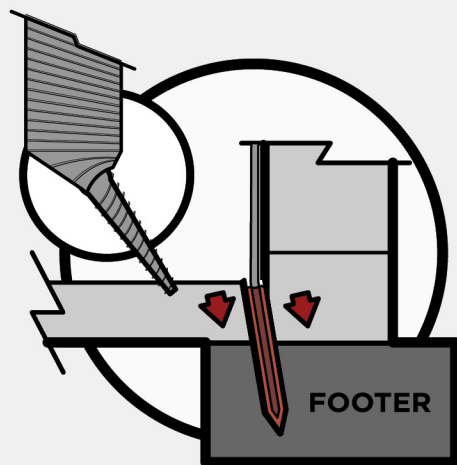


SILL PLATE BRACKET
BOLT/EPOXY SECURED

RHINO® CARBON FIBER 5 INCH WIDE STRIPS

- Strongest wall repair system available
- No deterioration or rotting
- No movement
- Minimal intrusion
- Fast, clean installation

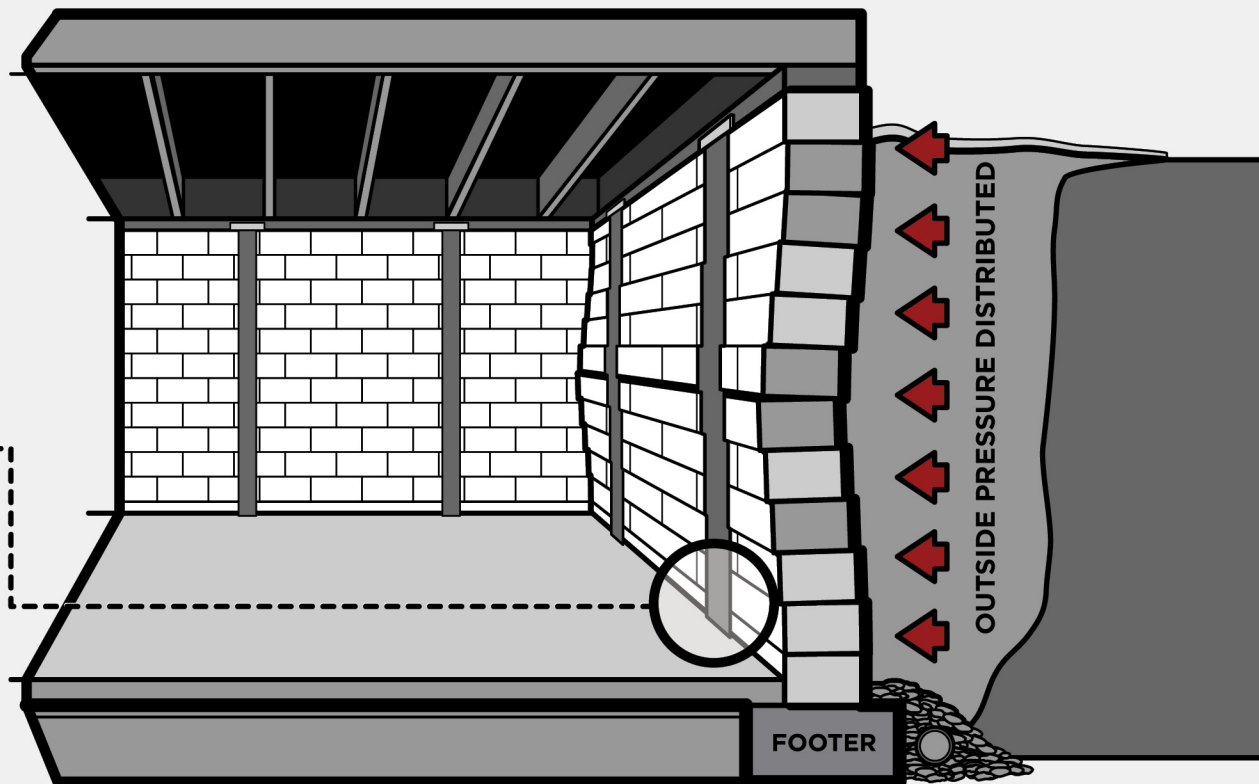




●
CARBON FIBER PIN
DRILL/EPOXY ANCHORED

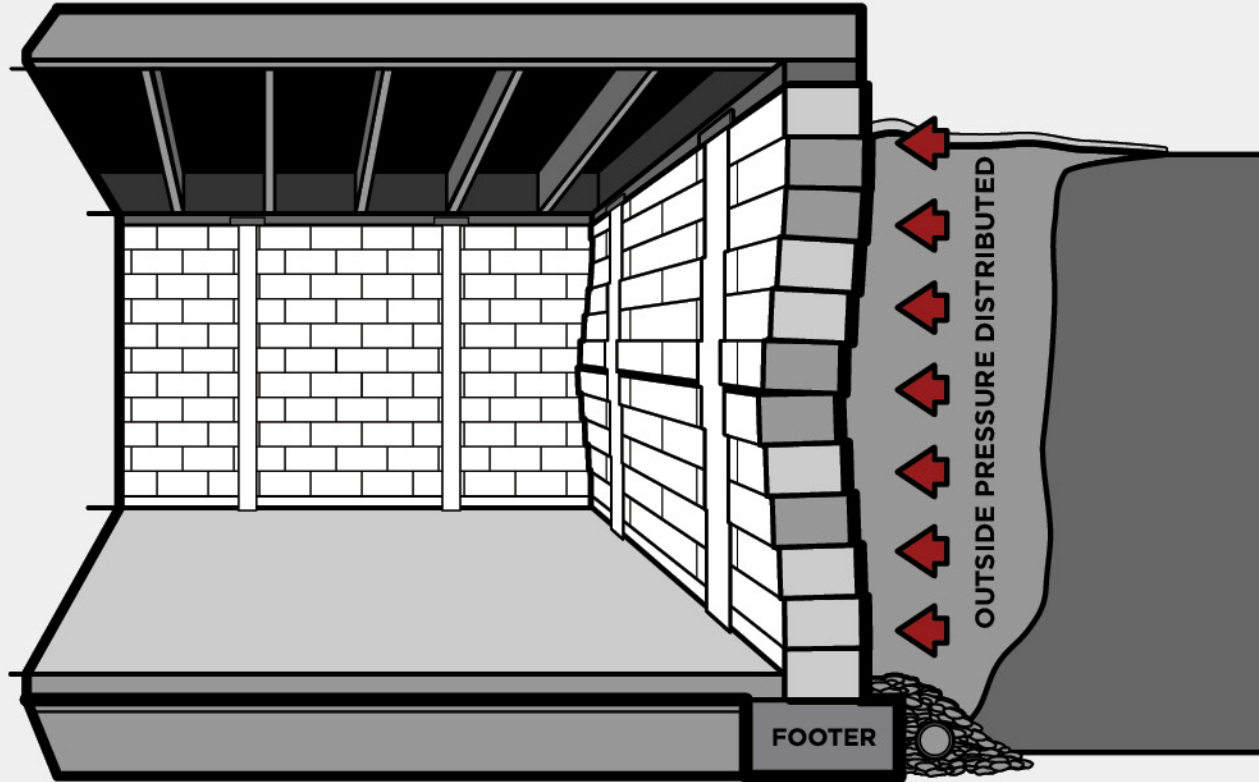
RHINO® CARBON FIBER 5 INCH WIDE STRIPS

- Strongest wall repair system available
- No deterioration or rotting
- No movement
- Minimal intrusion
- Fast, clean installation



RHINO® CARBON FIBER

Rhino® Carbon Fiber can easily be painted to help prevent aesthetic problems with potential buyers...



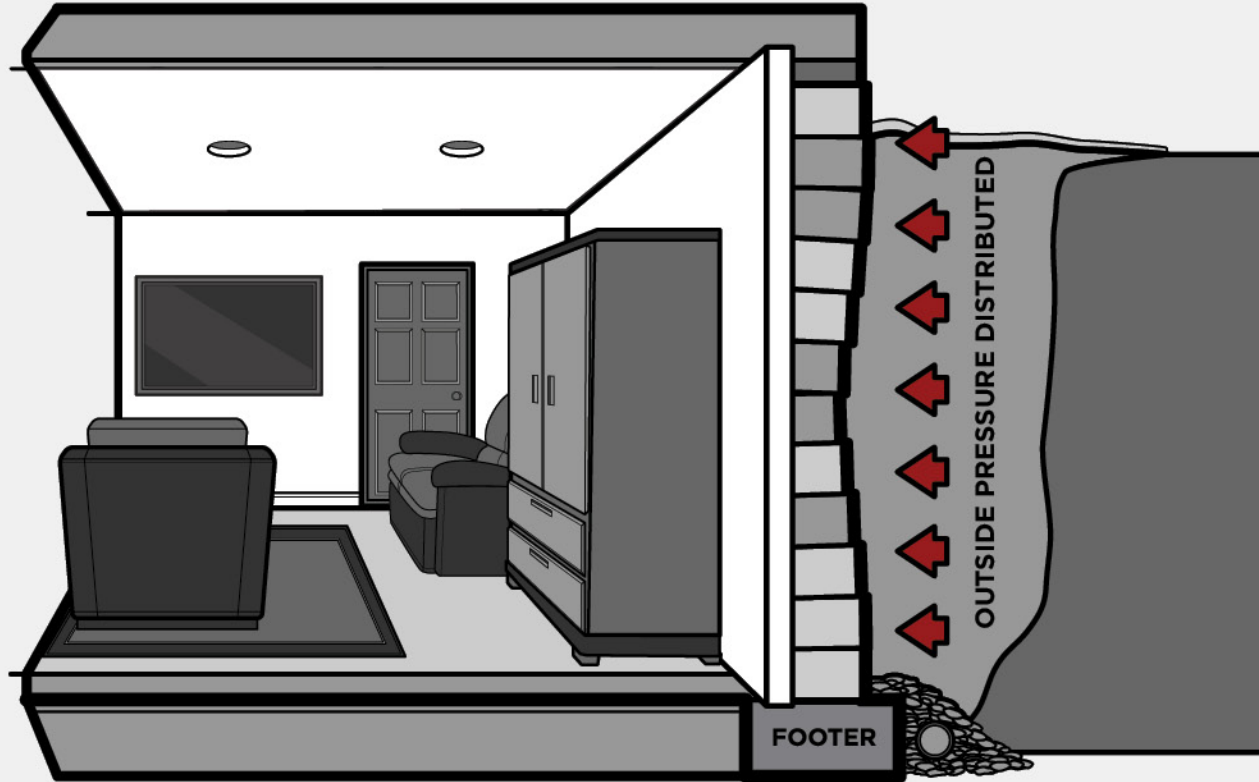
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RHINO® CARBON FIBER

Rhino® Carbon Fiber can easily be painted to help prevent aesthetic problems with potential buyers...

or covered with white wall panels!



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FAST, CLEAN INSTALLATION

- Prep Wall
- Mount Sill Plate Bracket
- Epoxy To Foundation
- Anchor to Footer



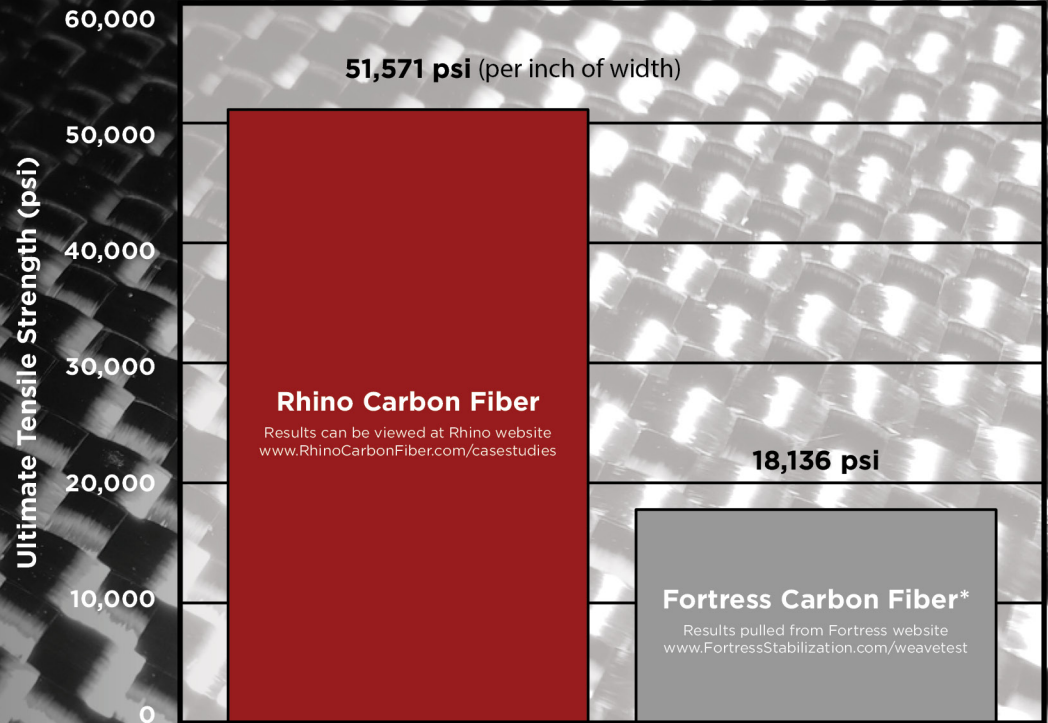
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VERTICAL TENSION TESTING

We offer the best products through research and testing. Our R&D team works with third party vendors to test our products to ensure the highest quality available.

We will help to complete any other testing you require.



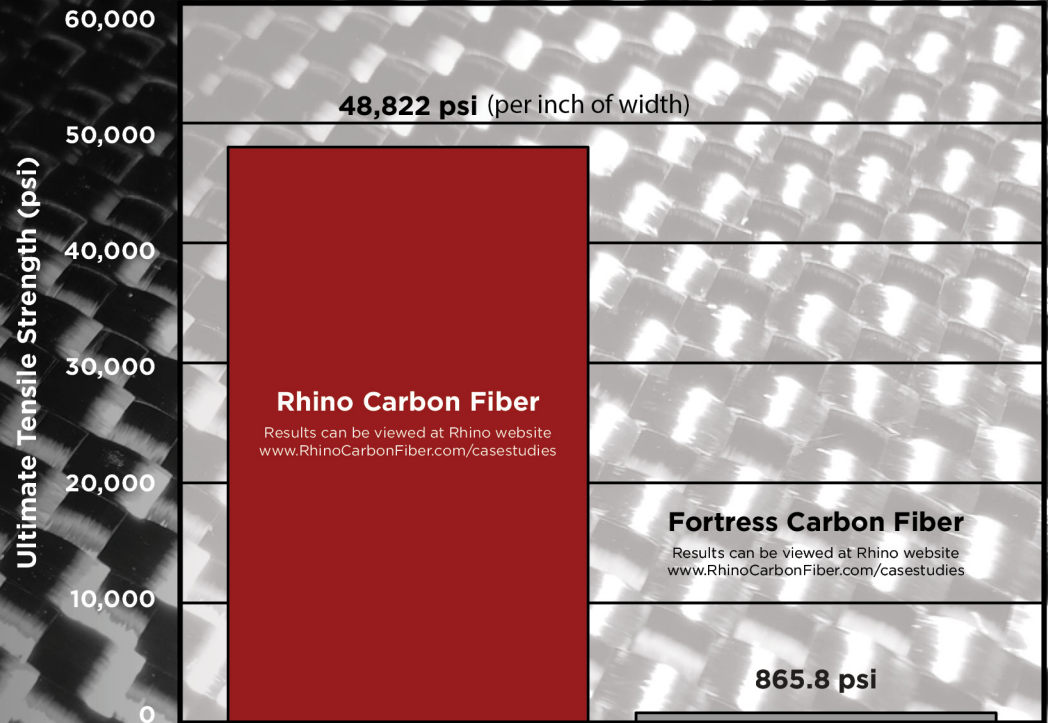
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HORIZONTAL TENSION TESTING

We offer the best products through research and testing. Our R&D team works with third party vendors to test our products to ensure the highest quality available.

We will help to complete any other testing you require.





LIFETIME PRODUCT WARRANTY

Rhino® Carbon Fiber is warranted for the **life of the structure**.

The warranty covers the foundation walls against any further inward movement in areas the product is installed. If issues occur, materials and labor will be replaced at no charge.

Terms and conditions apply.



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WATERPROOF!

MAGAZINE

IN THE MEDIA...

Rhino® Carbon Fiber was featured in the Fall 2010 Waterproof! Magazine article "Working with Carbon Fiber."

"One potential problem with strapping is that it shifts pressure to the top and bottom of the foundation wall... Transferring soil loads to the top and bottom of the wall may eventually cause additional damage, resulting in more repair work needed. Rhino (Carbon Fiber) eliminates this possibility."

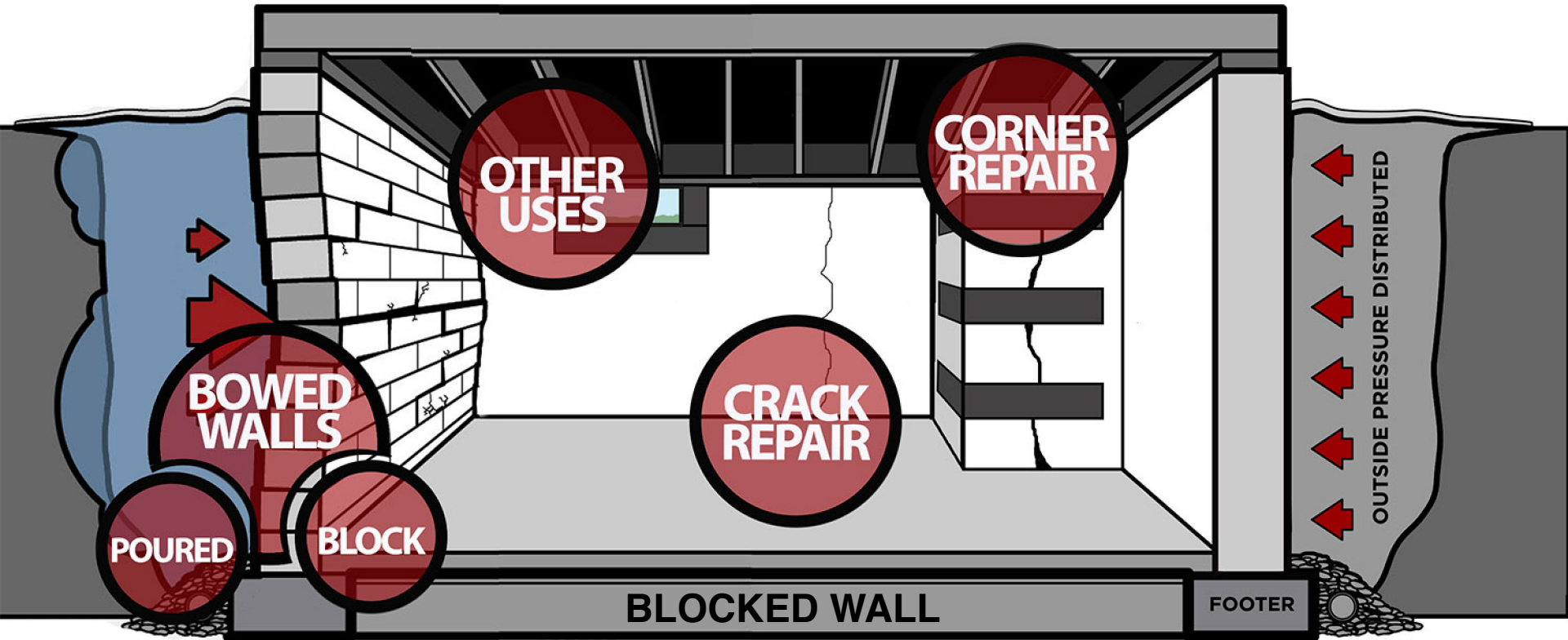
www.waterproofmag.com/back_issues/201010/working_with_carbon_fiber.php



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CHOOSE YOUR FOUNDATION PROJECT TO BEGIN



Corner Wall Repair

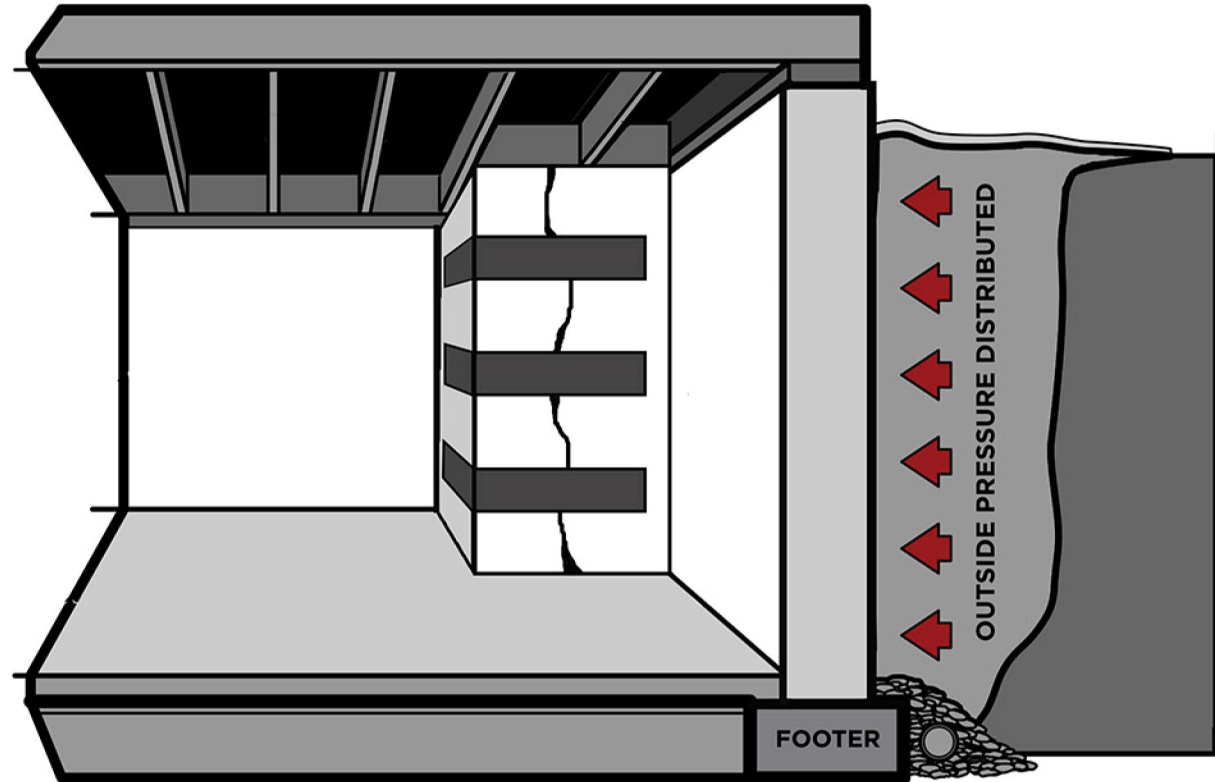
The only carbon fiber system that structurally repairs the corners in your foundation wall and prevents future cracks.



www.RhinoCarbonFiber.com

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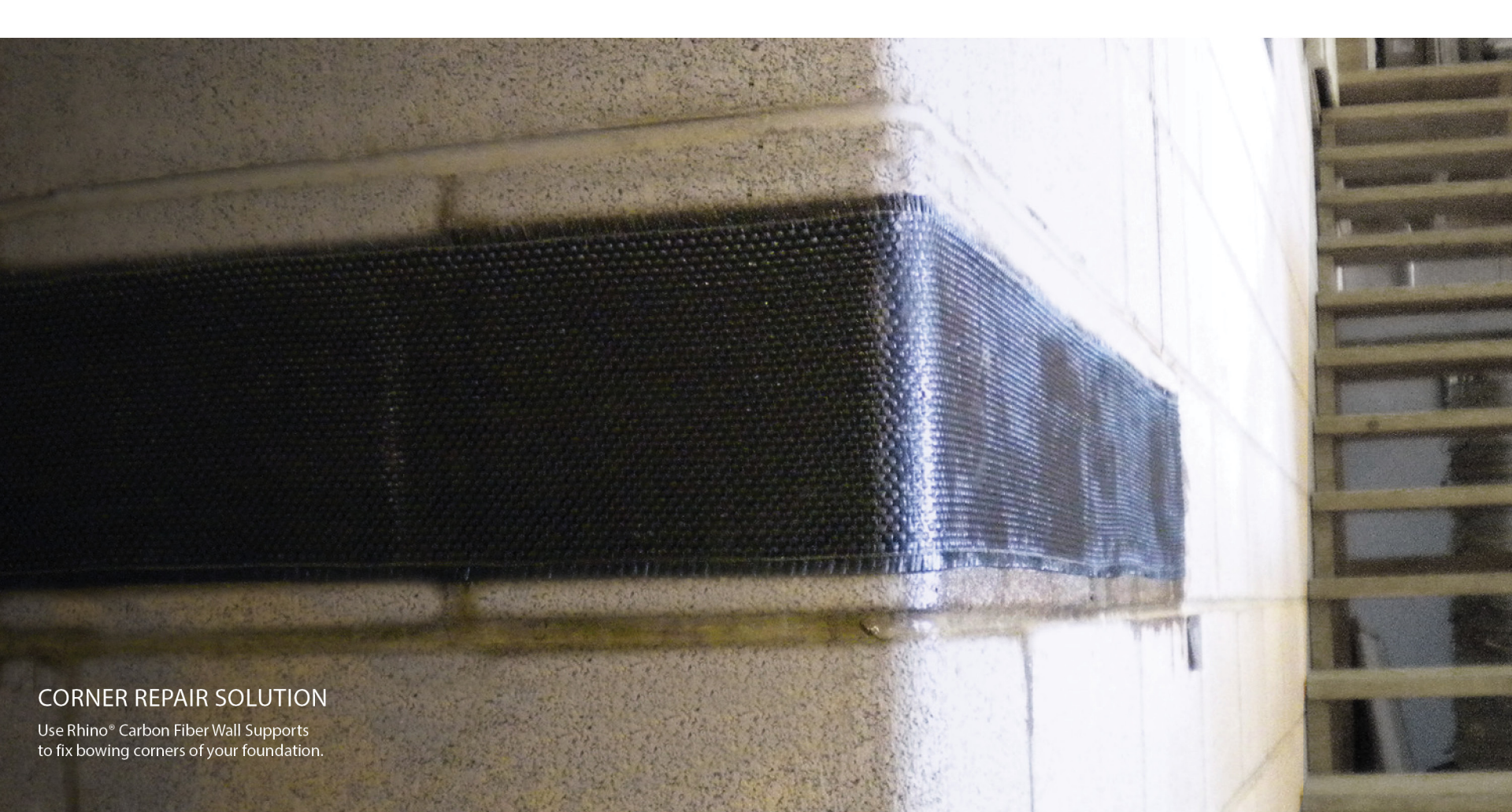
CORNER REPAIR



CORNER REPAIR SOLUTION

- Distributes the pressure horizontally to correct and prevent future damage
- Works on block and poured walls





CORNER REPAIR SOLUTION

Use Rhino® Carbon Fiber Wall Supports
to fix bowing corners of your foundation.



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CORNER REPAIR SOLUTION

Use Rhino® Carbon Fiber Wall Supports to fix bowing corners of your foundation.



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CORNER REPAIR SOLUTION

Use Rhino® Carbon Fiber Wall Supports
to fix bowing corners of your foundation.



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Other Rhino Product Uses

With wall tie back and piercing systems, cracked walls, broken corners, crawlspaces, egress windows and strengthening headers





WALL TIE BACK SOLUTION

Rhino® Carbon Fiber Wall Supports
can be used with Wall Tie Backs
for added strength when fixing bowed walls.



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WALL TIE BACK SOLUTION

Rhino® Carbon Fiber Wall Supports
can be used with Wall Tie Backs
for added strength when fixing bowed walls.



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ADDITIONAL USES
•CRAWLSPACES



ADDITIONAL USES
•COMMERCIAL PROJECTS



ADDITIONAL USES
•EGRESS WINDOWS



ADDITIONAL USES
•HEADER REINFORCEMENT



ADDITIONAL USES
•OPENING REINFORCEMENT FOR A CMU WALL

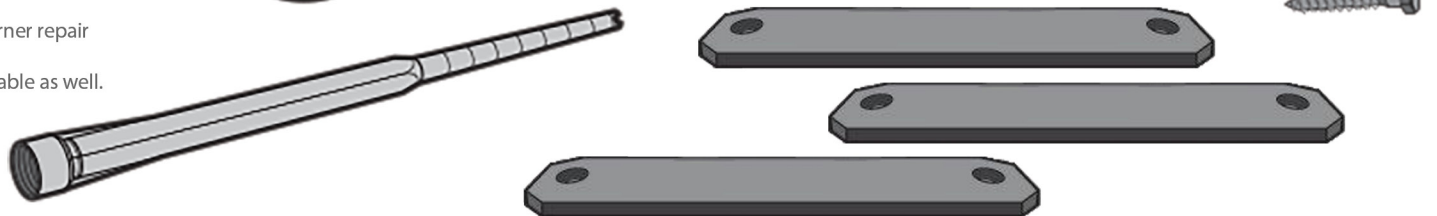


ADDITIONAL USES
•OPENING REINFORCEMENT FOR A CMU WALL



WALL REPAIR KITS

We offer foundation wall and corner repair kits that are easy to work with. Individual components are available as well.



The Basement Environment.

To understand the cause of a foundation problem,
you must understand how a foundation is built and waterproofed.

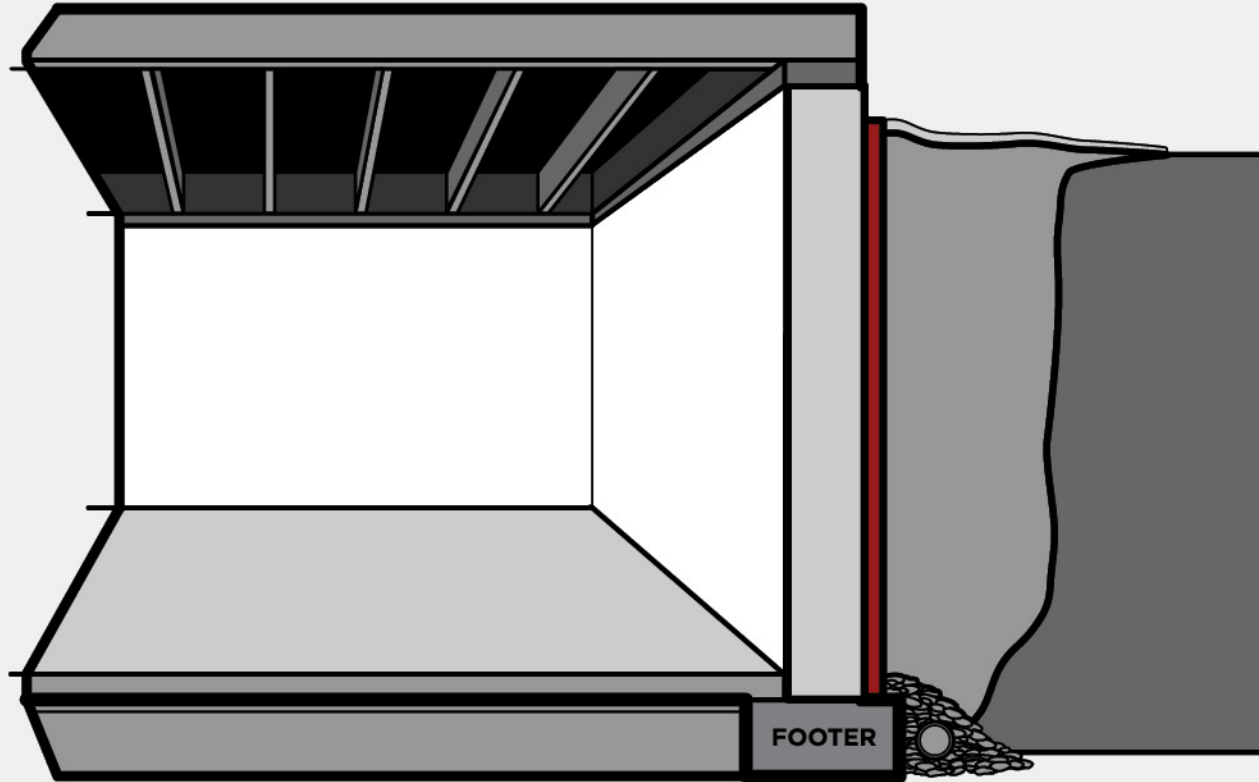


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FOUNDATION CONSTRUCTION

- First a hole was dug
- Then a footing was poured
- Walls were built
- Flooring was poured
- Drainage tile and gravel were placed
- Walls were sealed
- Hole was back-filled with soil



CLAY BACKFILL
Loose, disturbed soil

DENSE CLAY SOIL
Dense, undisturbed soil



How Do I Get My Money Back?

Why is it financially beneficial for a home to have a solid, dry foundation?



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HOME IMPROVEMENT GUIDE

Compliments of the Regional Better Business Bureau
BASEMENT LEAKS? BIG PROBLEM NO SURE CURE

The basement of a home can be one of the most productive areas in the house. A dry basement provides a pleasant atmosphere for work, hobbies, or storage, as well as valuable extra living space to the family before enough is easy to use throughout the year. Conversely, a wet basement lowers the value of the entire house and is a source of constant aggravation for those attempting to use it.

A homeowner who, after years of tolerating a wet, useless basement, finally decides the problem, achieves a sense of satisfaction matched by few other experiences. Nothing can compare to the sense of isolation, however, when repeated, ineffective remedies fail to produce a solution.

One homeowner who takes the time to learn about the causes of basement leakage has much more confidence in the results than the one who doesn't. The former has already paid the price for his "know what" but not his "know why" and is now able to make the necessary corrections to his basement.

BASIC CAUSES OF BASEMENT WATER LEAKAGE

1. As the ground becomes saturated, the water table begins to rise, putting pressure against the basement floor, and seeps cracks which are caused by the expansion and contraction of the cement.

2. Exterior "water down spout," forcing water to seek the path of least resistance, which is under the footer. This water seeps cracks in the floor or moves over the footer, seeping the basement at the joint.

3. The footer is poured separately from the wall. The wall is then constructed upon the footer. Since it is impossible to get a perfect seal between the footer and the wall, the water is able to enter the basement at this junction point.

4. Due to the expansion and contraction of the cement blocks, the parging which has no elasticity, cracks with temperature changes. This allows water to seep through these cracks and in the mortar joints. With the bottom course of blocks. This water penetration into the blocks also causes the blocks to lose their insulating value.

5. Because the parging has no elasticity and because the blocks are made of a porous aggregate, the blocks draw moisture to the inside of the basement, permitting the walls to swell and bleed.

HAZARDS OF BASEMENT LEAKAGE

If undetected or ignored, basement leakage can result in unnecessary damage and loss to the homeowner, sometimes running into many thousands of dollars. Many homeowners experience loss due to rotting and valuable masonry.

leaving or rotting; floor tile buckling and rotting; wallpaper peeling; rotting or stained ceilings being caused because of rotting and fungus. There are also the health hazards associated with fungus and rotting. Structural hazards from exposed wires and cables, and the increased likelihood of accidents and other losses that come in a damp environment. A wet basement will also greatly reduce the value of your home, generally brought to 10 to 15 to 20%.

A basement that is chronically damp or one that leaks after a heavy rain is a problem that should be corrected. It will almost certainly require specialized waterproofing help.

YOUR PROBLEM CAN BE SOLVED

One can under-estimate the importance of the basement. Many homeowners mistakenly believe that there is no way to correct a permanent basement leakage problem. Many have already tried several unsuccessful attempts on their own or have paid large sums of money to someone else for a "solution" that failed to produce the desired results.

The truth of the matter is that basement leakage can be corrected. The key is to choose a reliable, professional waterproofing company, one that has demonstrated their knowledge and expertise through years of successful work and whose reputation has grown through satisfied customers.



FOUNDATION PROBLEMS

An Average of 15% - 20%



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FOUNDATION PROBLEMS

9 out of 10 people will walk away from a house with foundation and structural problems



CONSUMER REPORTS

An inspection can stop you from buying a house of cards.

say that the owners of three-quarters of the houses on the market are under little compulsion to sell.

As price negotiations begin, remember that selling a house is an emotional experience for its owner or acquiring it is for the buyer. Telling the seller you don't like something can hardly say so much to reduce the price as pointing to the cracked gutters, the basement, or the noisy neighbors.

When a seller has reasonable knowledge of the best net sales price and is not under pressure to sell, says Lerner, the best price a buyer can hope for is the house's fair market value. That doesn't mean the listed selling price, and even the price could be the sales price.

First, the contract should automatically become voided if the buyer can't find a mortgage with terms he can afford. Second, the sale should depend on the buyer's receiving a satisfactory inspection report, made at his own expense. Third, if the house has physical defects, or if coverage money is tight, or if the bank thinks the sale price way out of line, you can go back to the seller and argue that the fair value of the house is lower.

In most cases, buyers typically have sold for about 9% below the asking price. But now, says Lawrence J. Korte, research vice president for the National Association of Realtors, a potential buyer with a strong chance of obtaining financing should aim for a price about 10% below the asking.

Shopping for a house
Only buyers armed with cash should negotiate solely on price. The vast majority of buyers have just enough cash for the down payment. They can often do better by negotiating other concessions that have more to their profit.

For instance, only traditional says that the buyer pays of rising costs, such as title insurance, the bank's legal expenses and title transfer fee—can that frequently amount to \$2,000 or more. If the

cash-strapped buyer can persuade the seller to pay closing costs in the form of a \$2,000 price reduction, he'll keep \$2,000 in cash to help pay moving expenses. That he negotiated the lower price instead, the savings would have come out of the mortgage, giving him only a marginally lower monthly payment.

An imaginative buyer can bargain over a variety of items. If the buyer, the owner of the house and the mortgage loan have a choice of bank fees, ask the seller to include them in the sale. If the bank's fee is \$100, the seller can be asked to pay the other—on the house, the sale won't go through.

It gives him a second option. "That's the best way to get a better deal," says Lerner. "You can't get a better deal than that."

Lenders sometimes will allow a buyer to pay all but one of the fees each side pays. First, the government's title insurance fee is a must. Sellers must pay the rest.

The last one, the buyer's title insurance, is a practice of the house. If the house is old, the buyer should get a professional inspection.

Some real estate dealers try to get the buyer from using inspection services, or try to steer them to inspectors with a record for downplaying problems. State-by-state, sellers may offer to fund the bill. In both cases, sellers, insist on having your own inspection.

House inspections are listed in the Yellow Pages under "Building Inspection Services." But the best way to find one is to ask a bank, savings and loan, or a local "home building" association. The reason of inspection they are to advance degrees. Top inspectors generally charge \$100 or more, but they can often save you more than they cost. An inspection can save you from buying a house of cards. Even if the inspection is good, the report may alert you to minor deficiencies, so that you can negotiate a lower price or force the seller to fix them.

Some new houses now come with warranties backed by the Home Owners Warranty Corp., a subsidiary of the National Association of Home Builders.

They give the home buyer a substantial amount of protection against defects for up to 10 years. Warranties that sellers buy to cover old houses address several structural problems and are good only for a year or two.

What to look for

Since house buyers can't afford to have every house inspected, they should call in a pro. Their advice:

The basement: Next to a fire or a earthquake, water in the basement is about the worst thing that can happen to a house. It can weaken foundations, rot structural, damage furnace and water heater, ruin stored goods. A damp, musty smell, watermarks or mildew spots on the walls are signs of trouble. A sump pump shows that sewage is a problem, perhaps from a clogged drain. Check out the sump pump, pouring oil the basement should not be done. Check the foundation and look for cracks.

Roofs: Shingles being the most important appliance to replace, the furnace or boiler can be a safety hazard if defective or improperly installed. Unlike the house or its contents, though, it takes an expert to diagnose problems. You can make a guess, though, if you can check the age of the heating plant. In general, a heat exchanger has about 15 years, a most boiler 30 to 35, and a water heater 10 to 15.

Structural capability: Unless you're an expert, don't get too confident when you inspect the electrical installation. From fabric-covered wiring, of course, tells you that the system belongs in a museum. If

FOUNDATION PROBLEMS

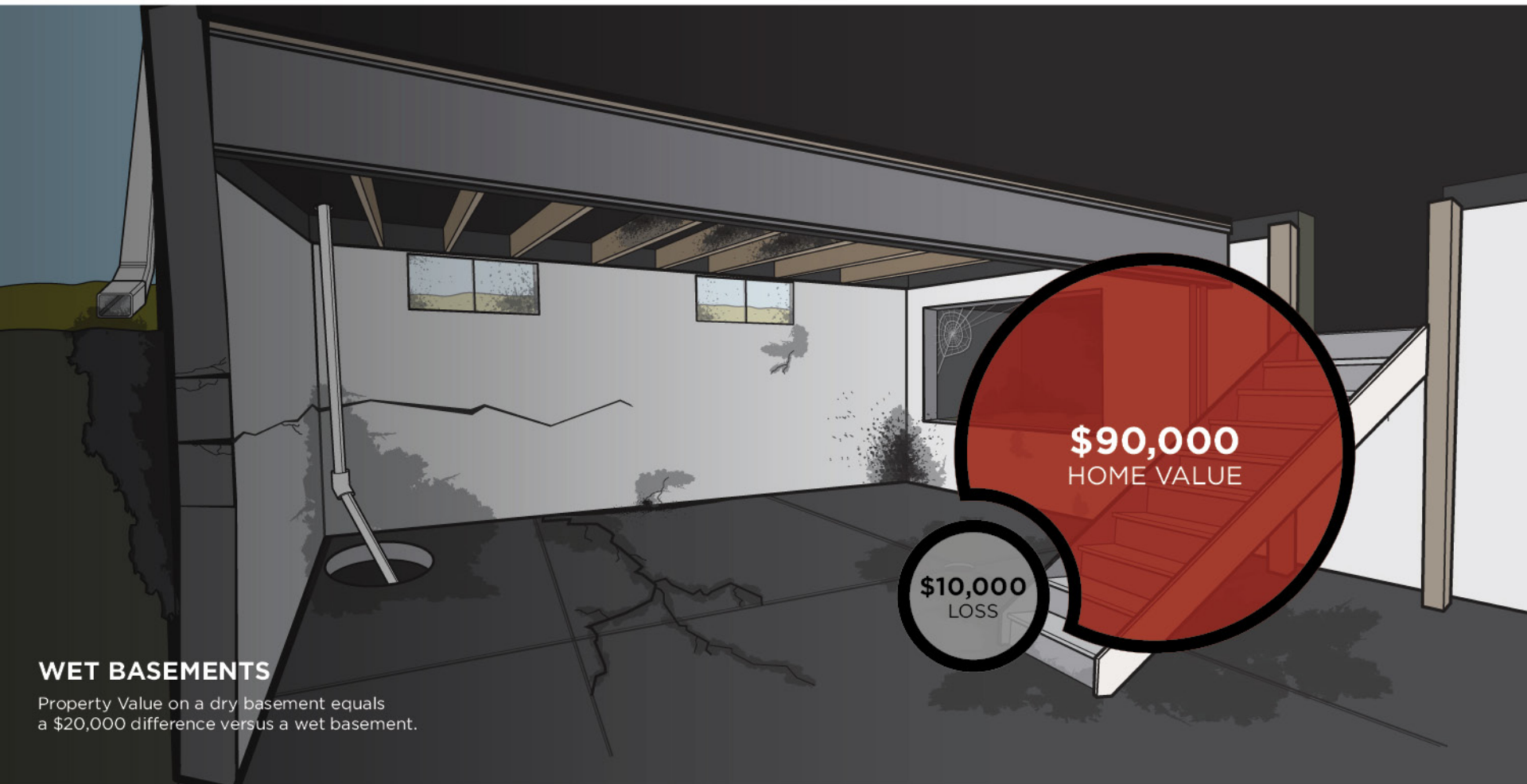
Basement waterproofing and foundation repair generate more than 100% return on investment.



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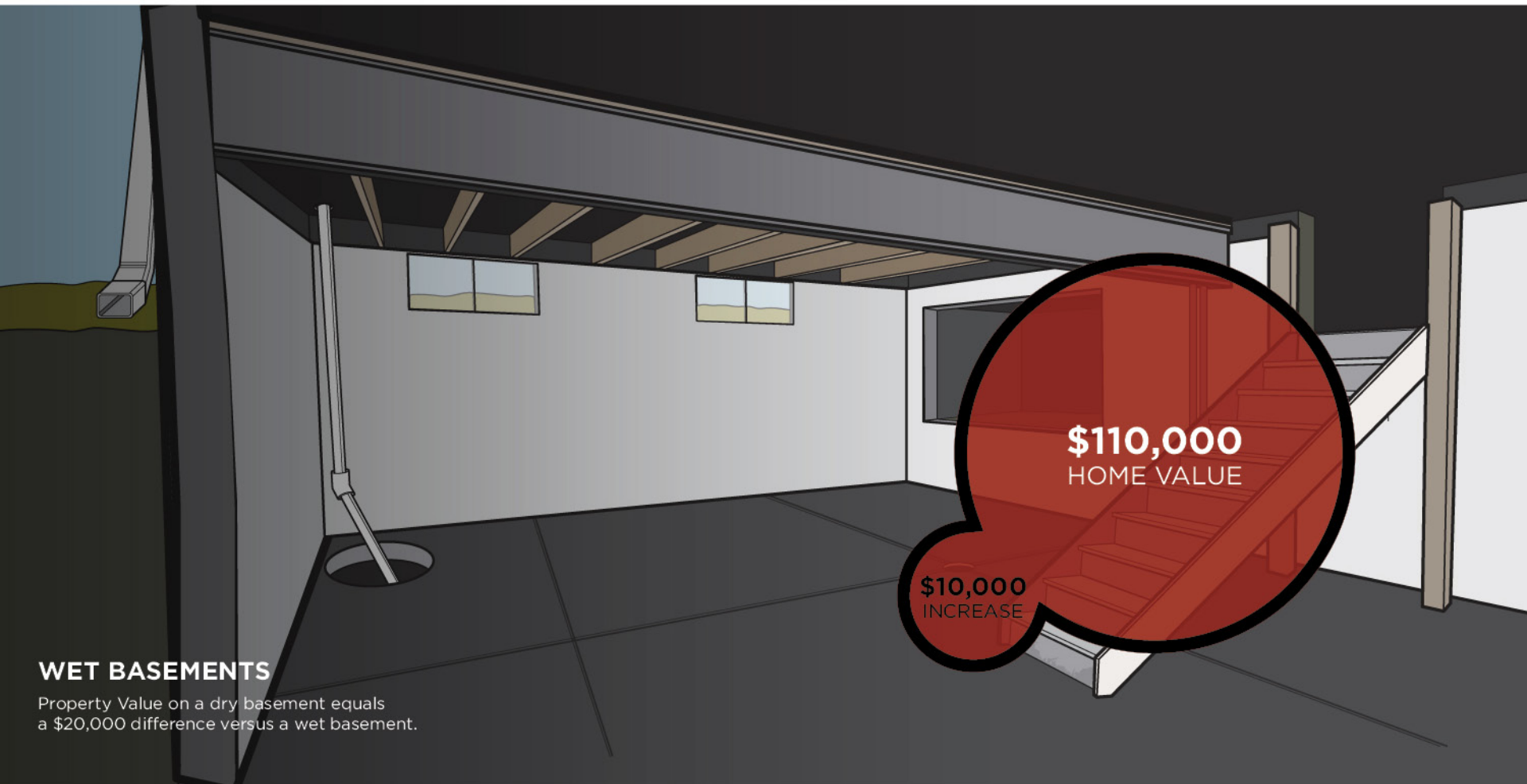
WET BASEMENTS

Property Value on a dry basement equals a \$20,000 difference versus a wet basement.



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WET BASEMENTS

Property Value on a dry basement equals a \$20,000 difference versus a wet basement.



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4 Stages of Damage.

Soil Expansion & Cracks
Severe Inward Movement
Wall Shearing
Wall Replacement

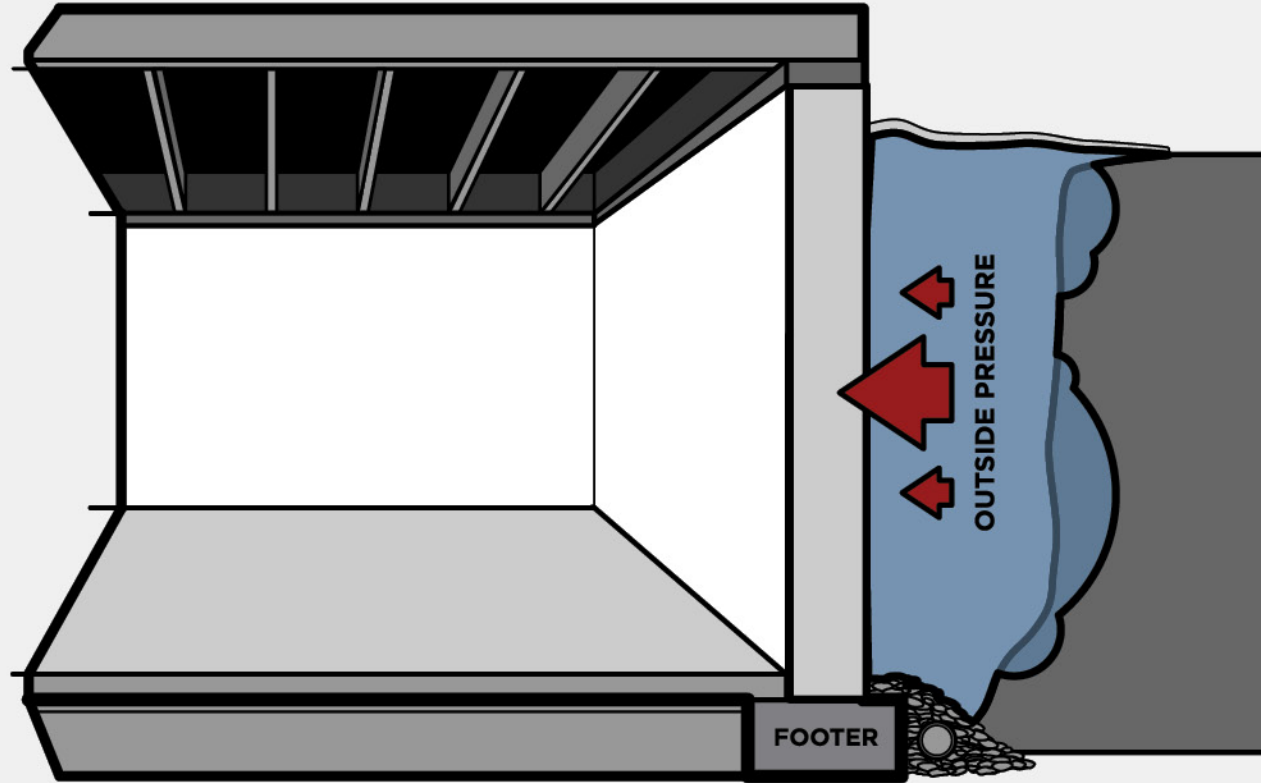


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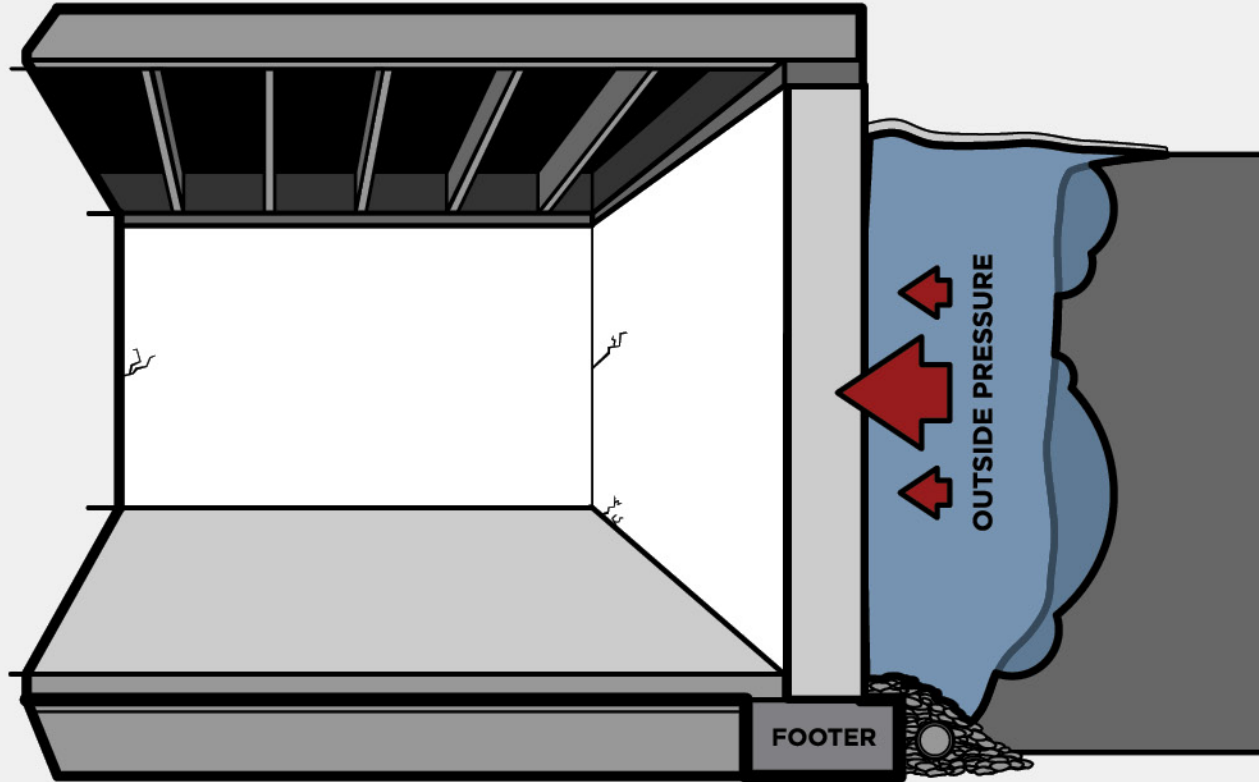
BOWED WALLS

Clay Backfill will swell as it becomes saturated with water which creates...
PRESSURE
directed towards the foundation wall



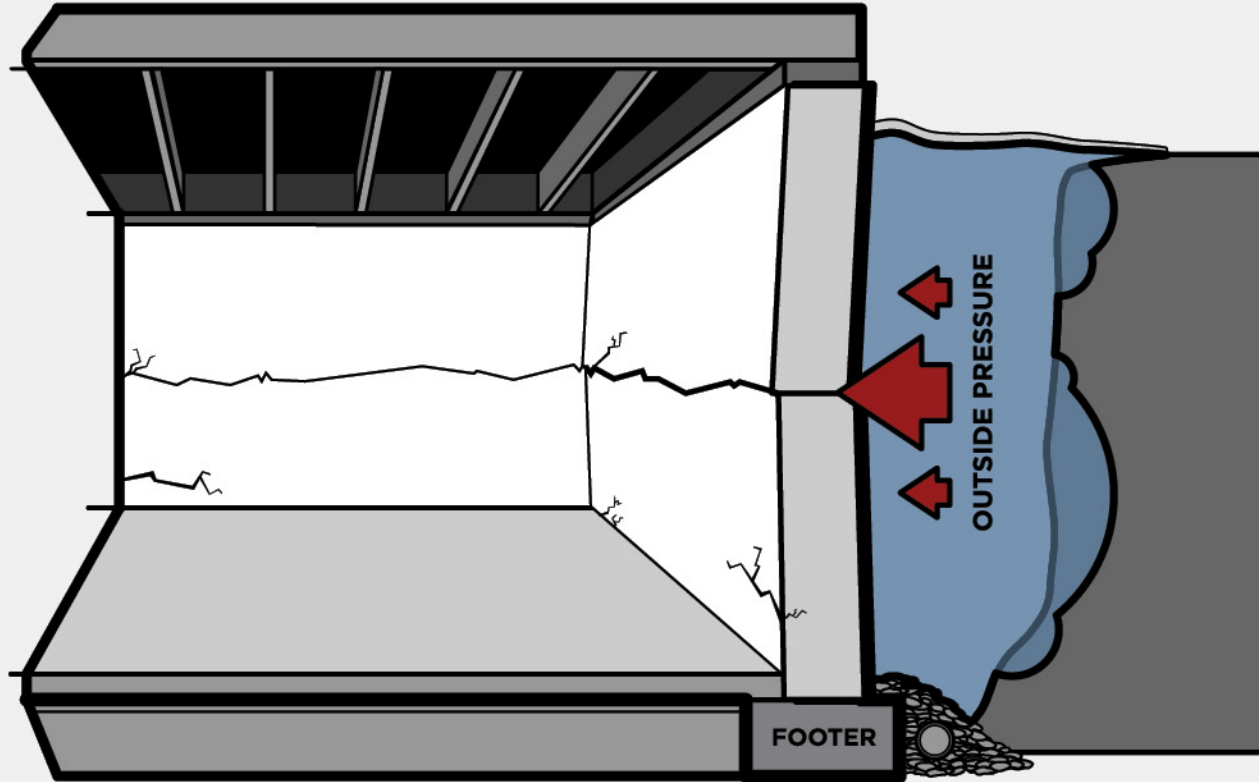
STAGE 01

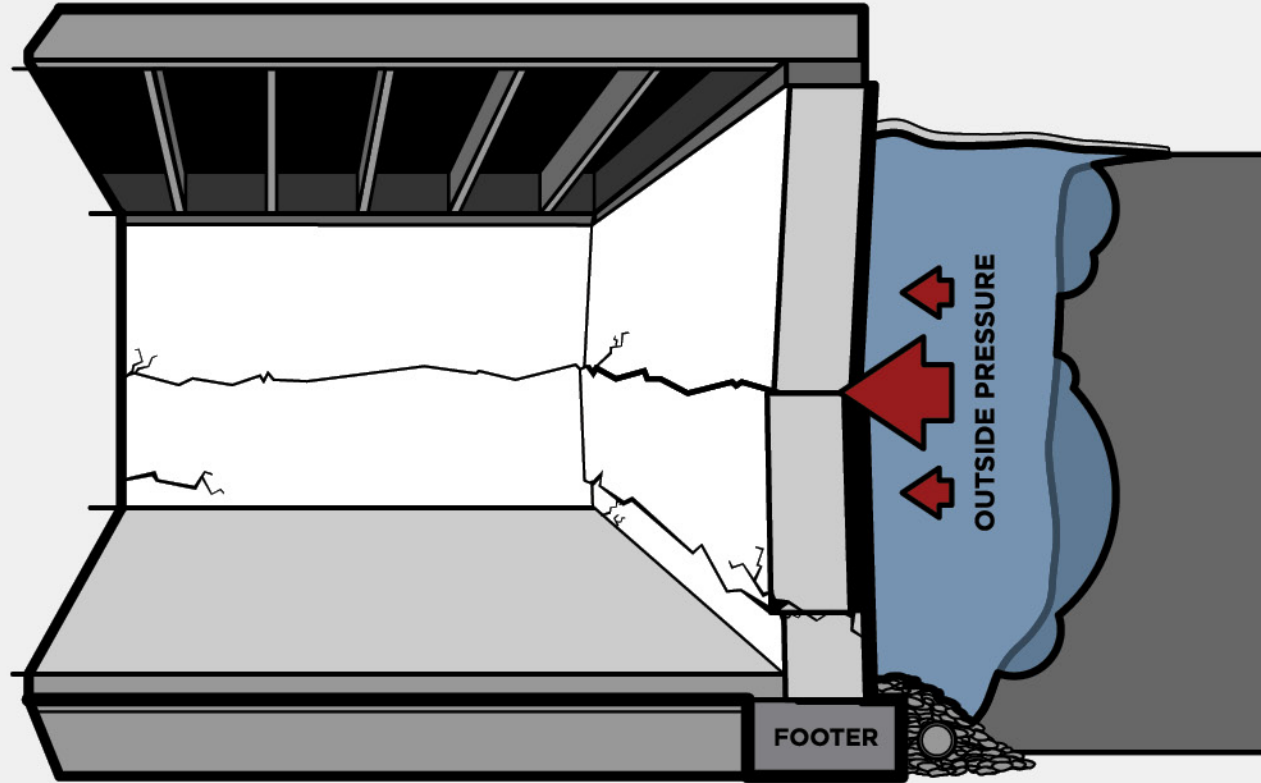
Soil expands causing hairline cracks in the foundation.



STAGE 02

Crack size increases. Severe inward movement occurs (bowed walls).





STAGE 03

Wall shearing from the foundation or sill plate.



STAGE 04

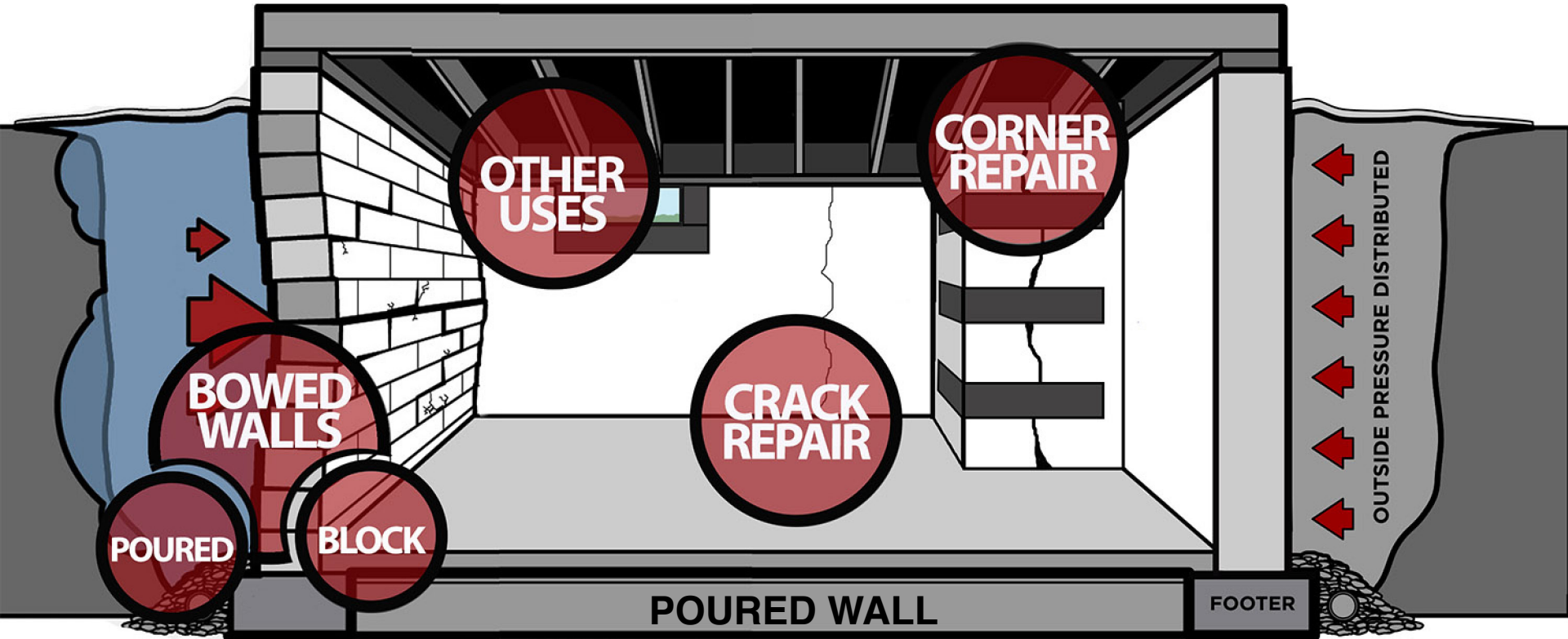
Wall replacement needed.



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CHOOSE YOUR FOUNDATION PROJECT TO BEGIN



Fixing Bowed Walls.

Four options include:

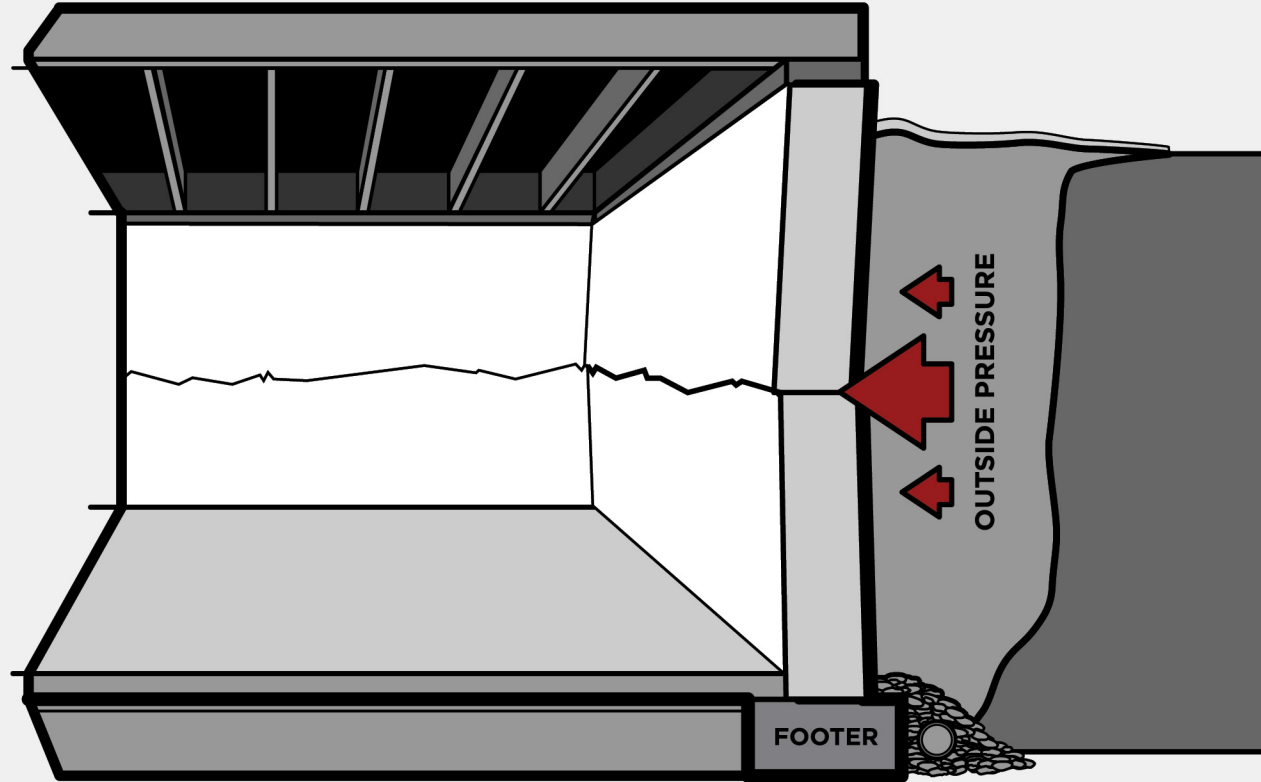
- Wall Tie Backs/Wall Anchors
- Beams
- Dig & Push Method
- Carbon Fiber





WALL TIE BACKS

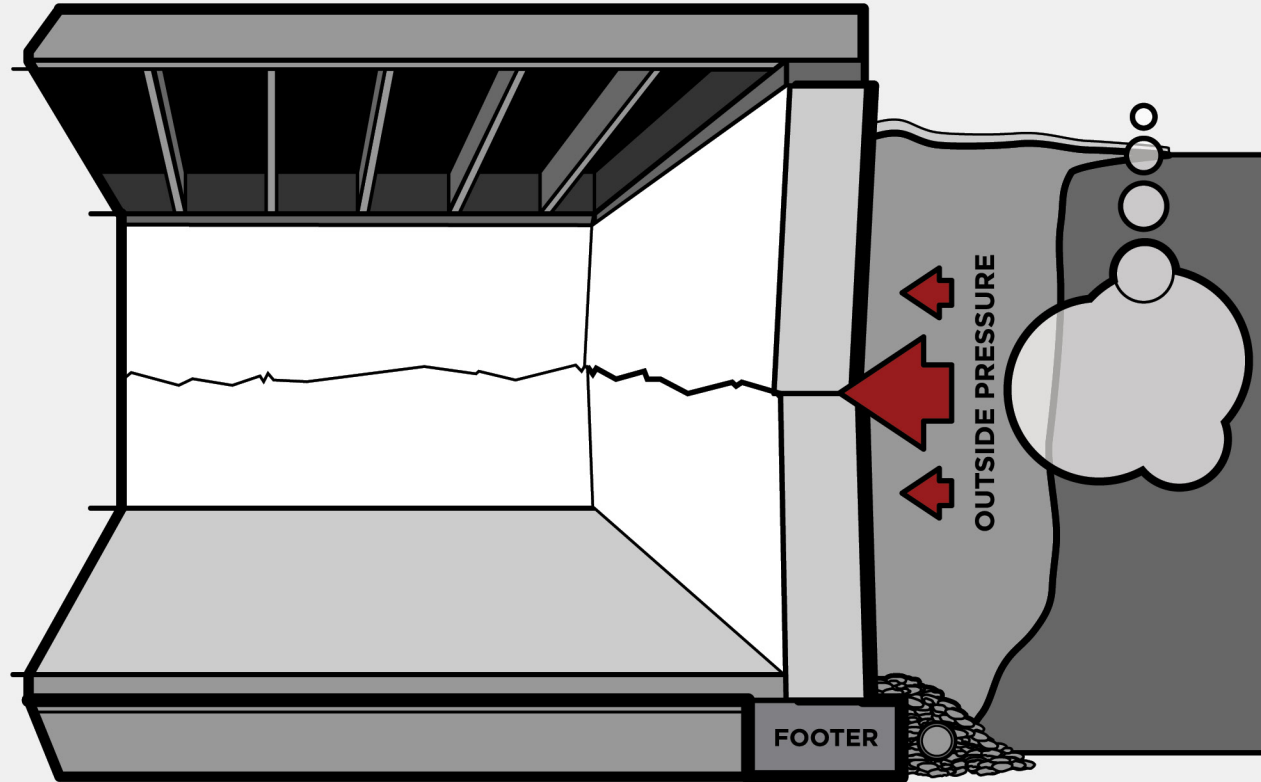
- Expensive (\$\$\$)
- Bowed walls not straightened as stated
- Damaged concrete blocks
- Exterior excavation is necessary
- Aesthetics could be a concern for potential buyers
- Can't finish the basement





WALL TIE BACKS

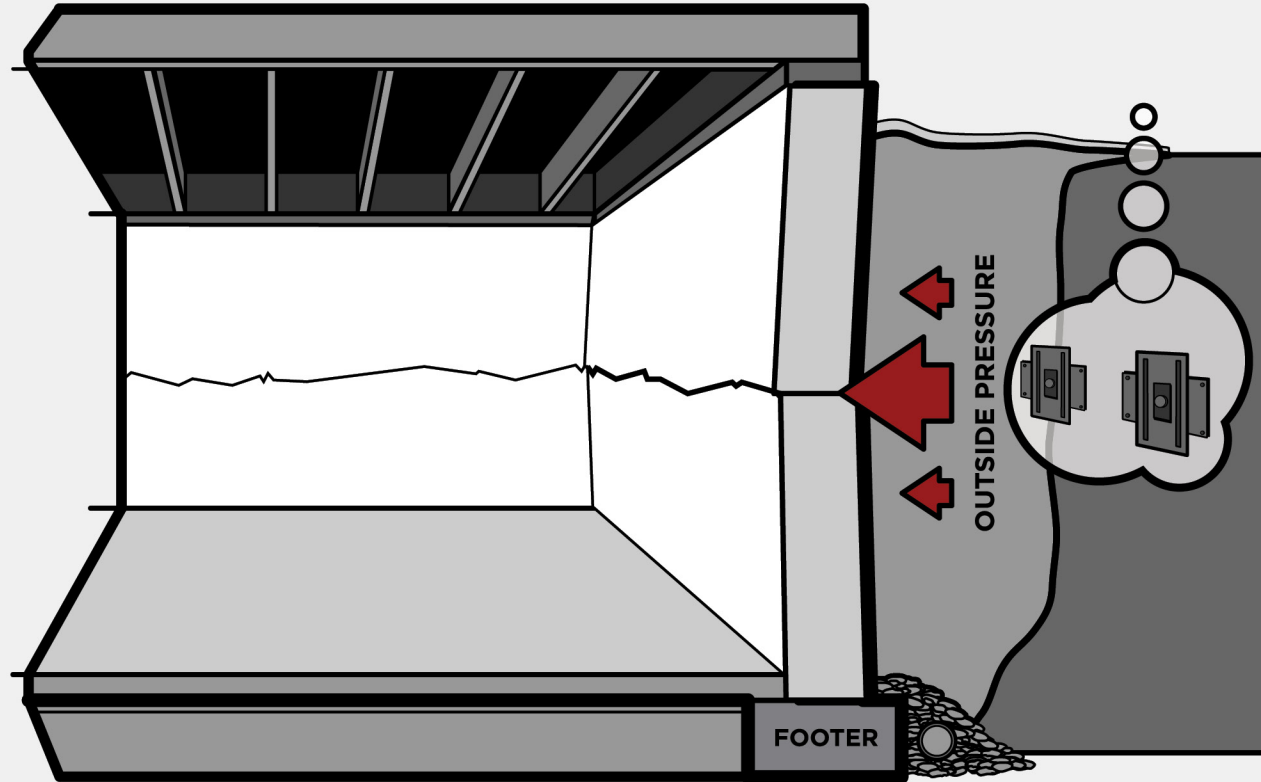
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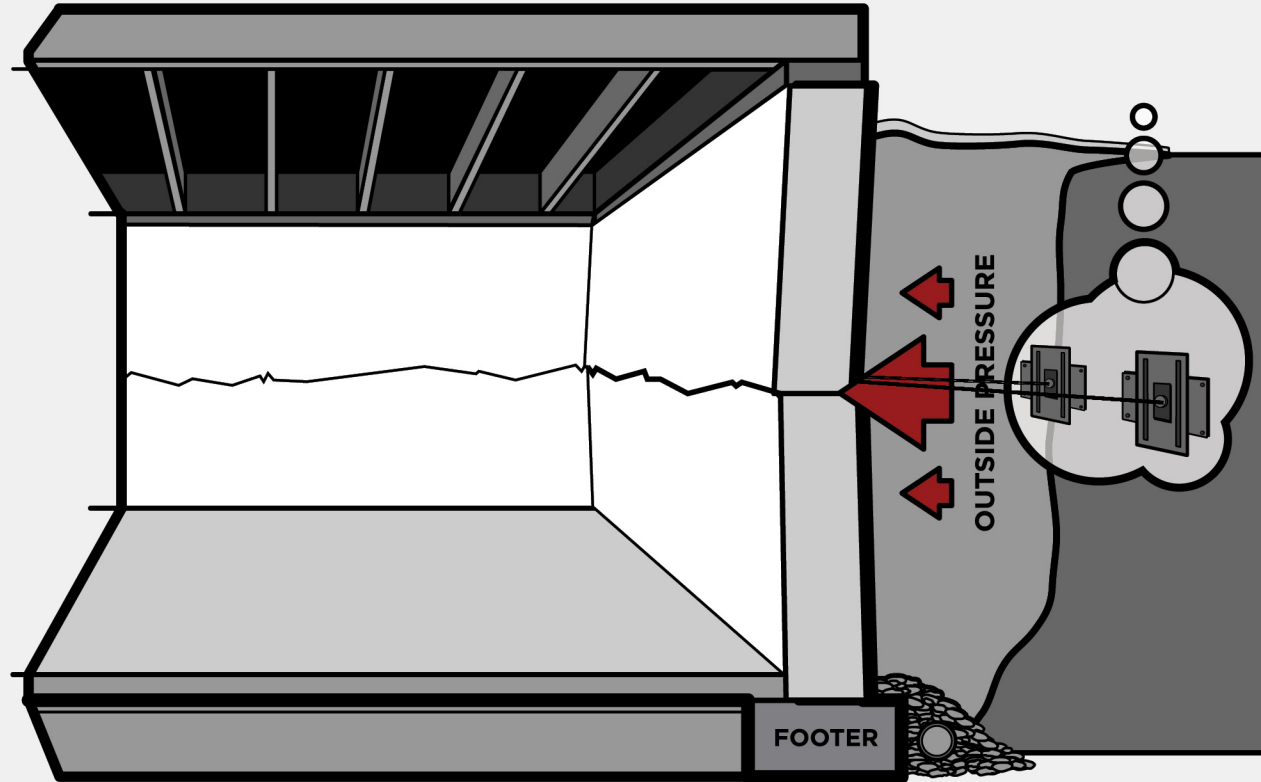
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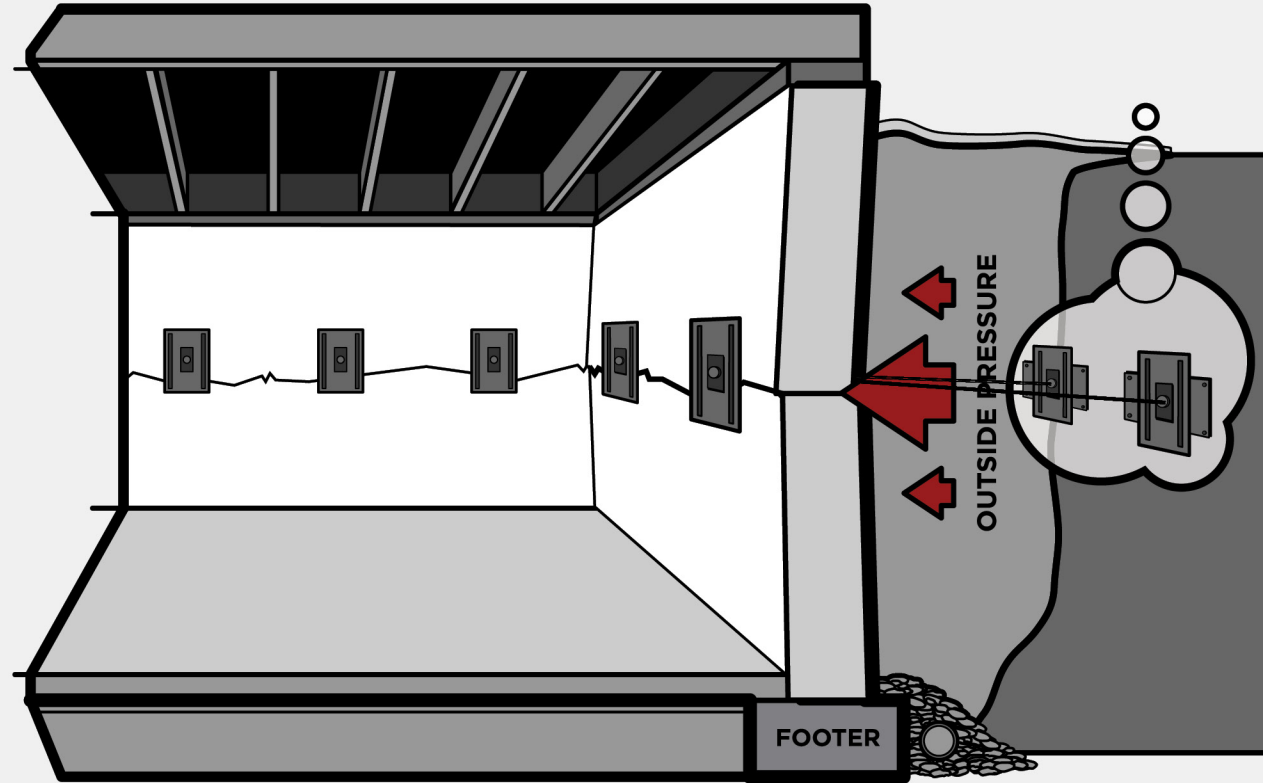




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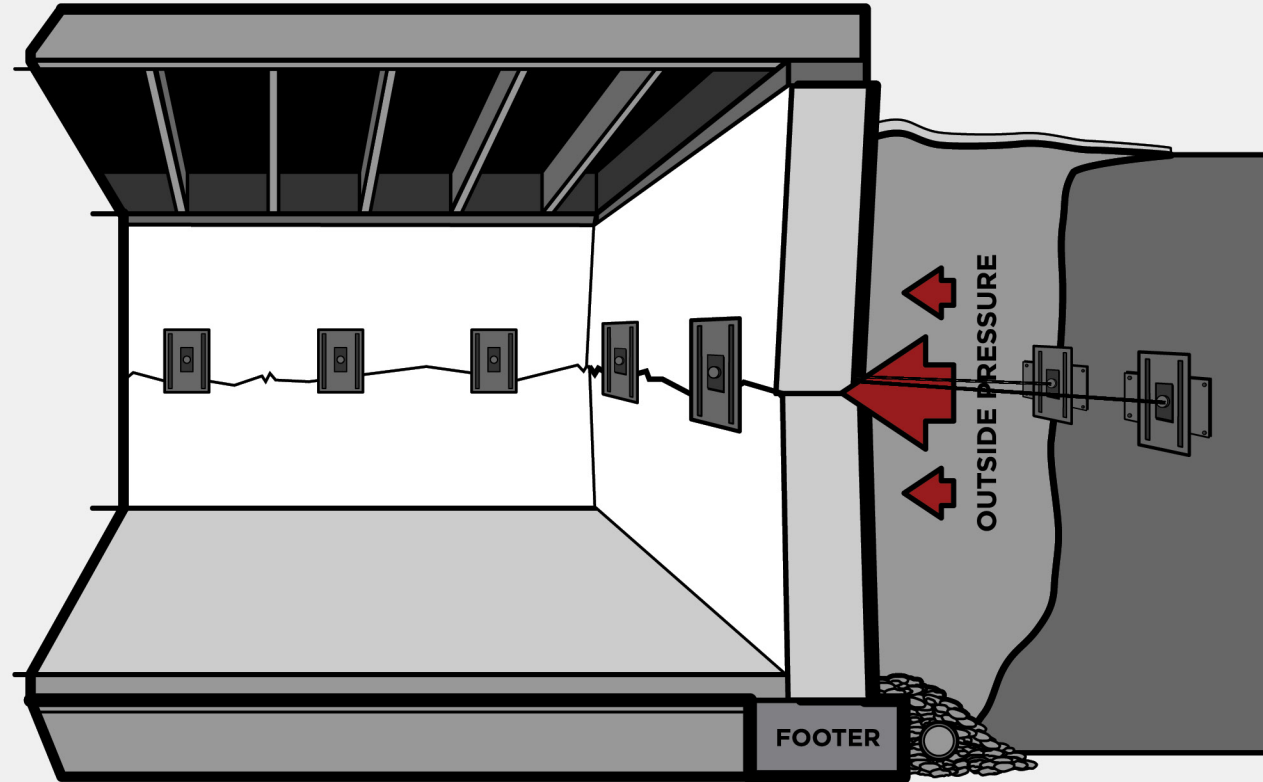




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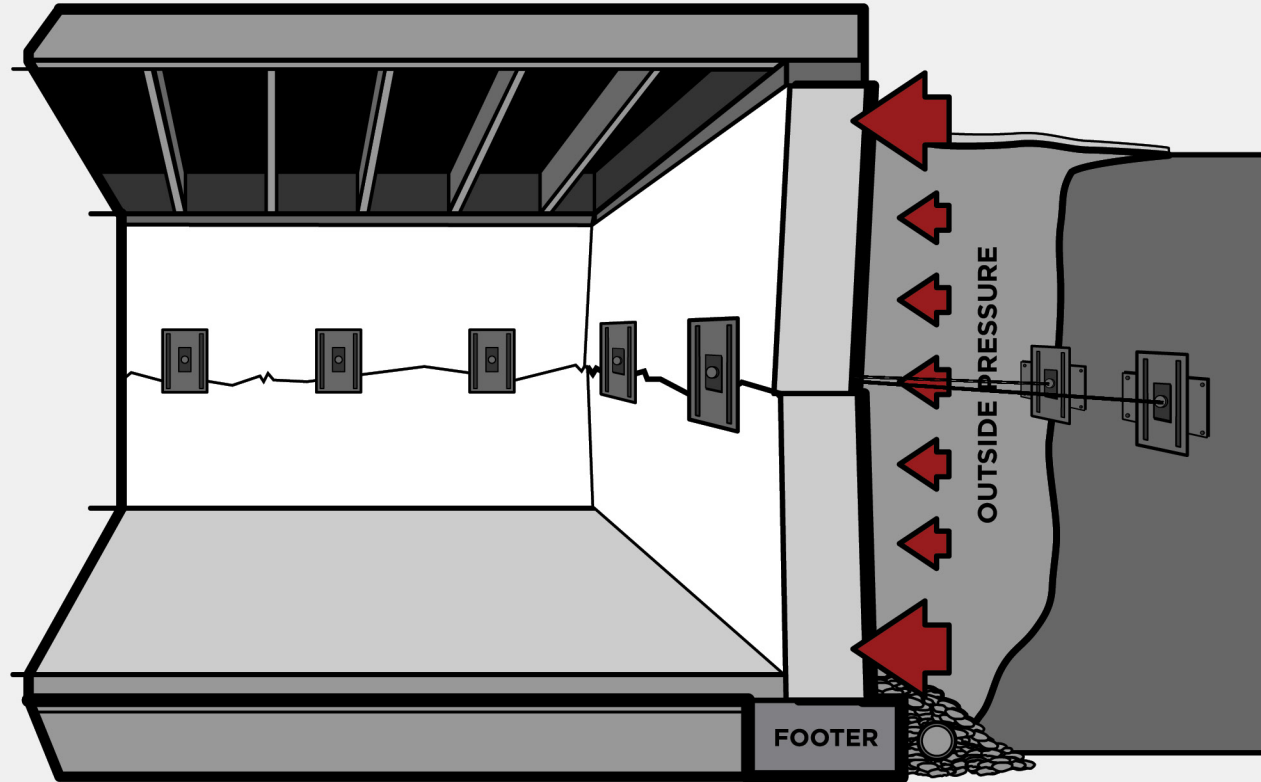
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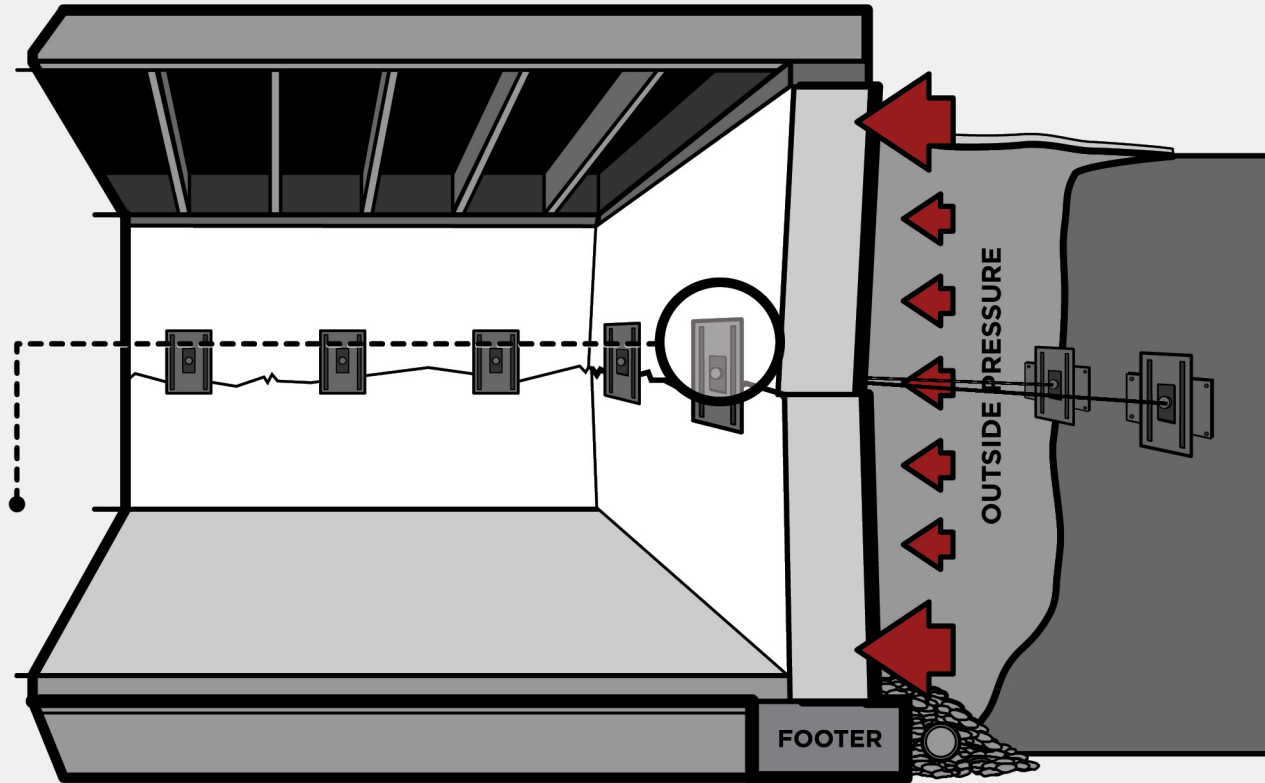




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PROBLEM AREA

SUPPORT LIMITED TO AREA
AROUND WALL TIE BACKS

WALL TIE BACKS

- Expensive (\$\$\$)
- Bowed walls not straightened as stated
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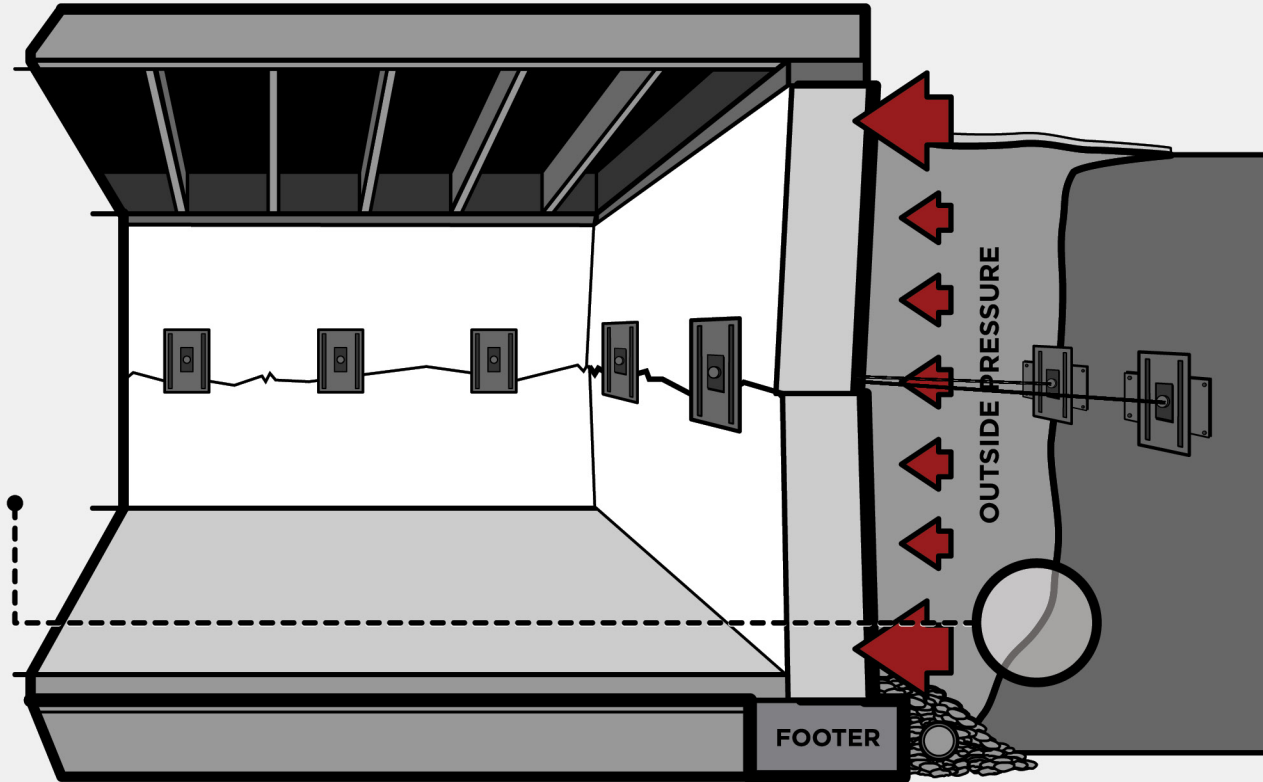
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PROBLEM AREA
EXTERIOR EXCAVATION
IS NECESSARY

WALL TIE BACKS

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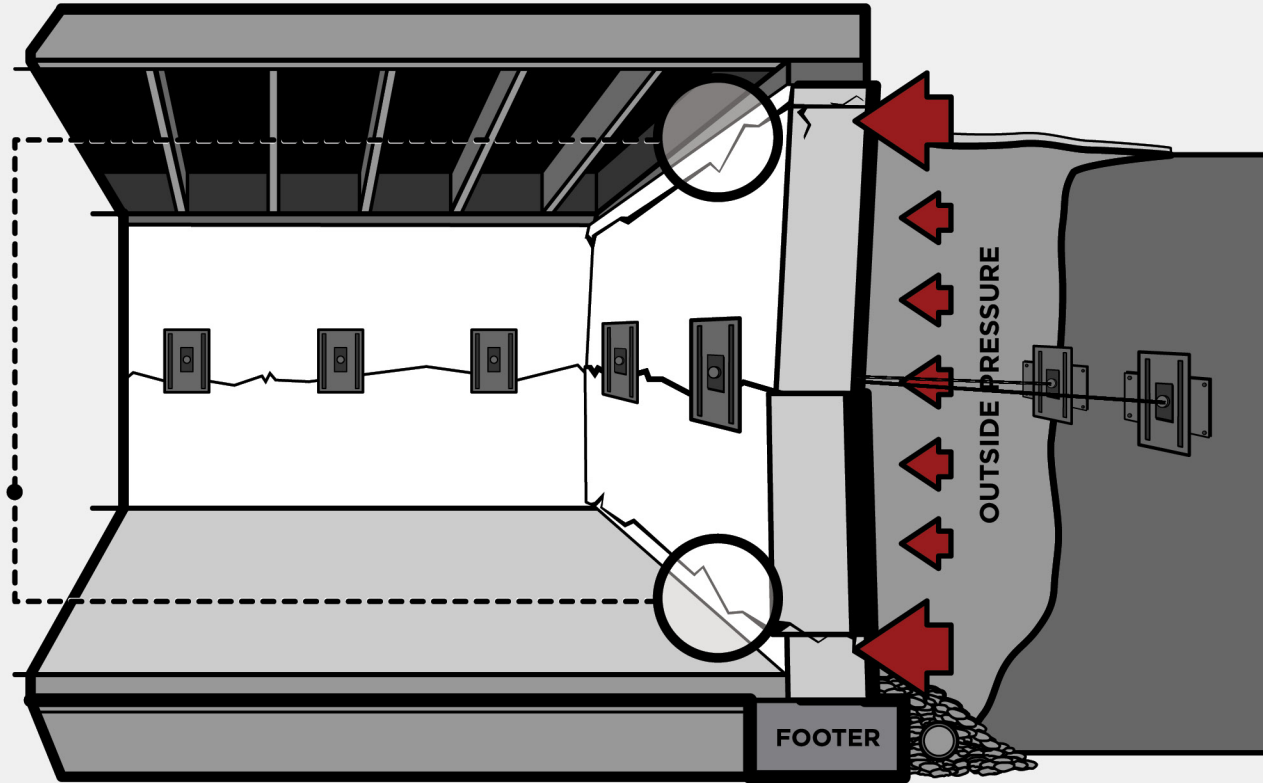


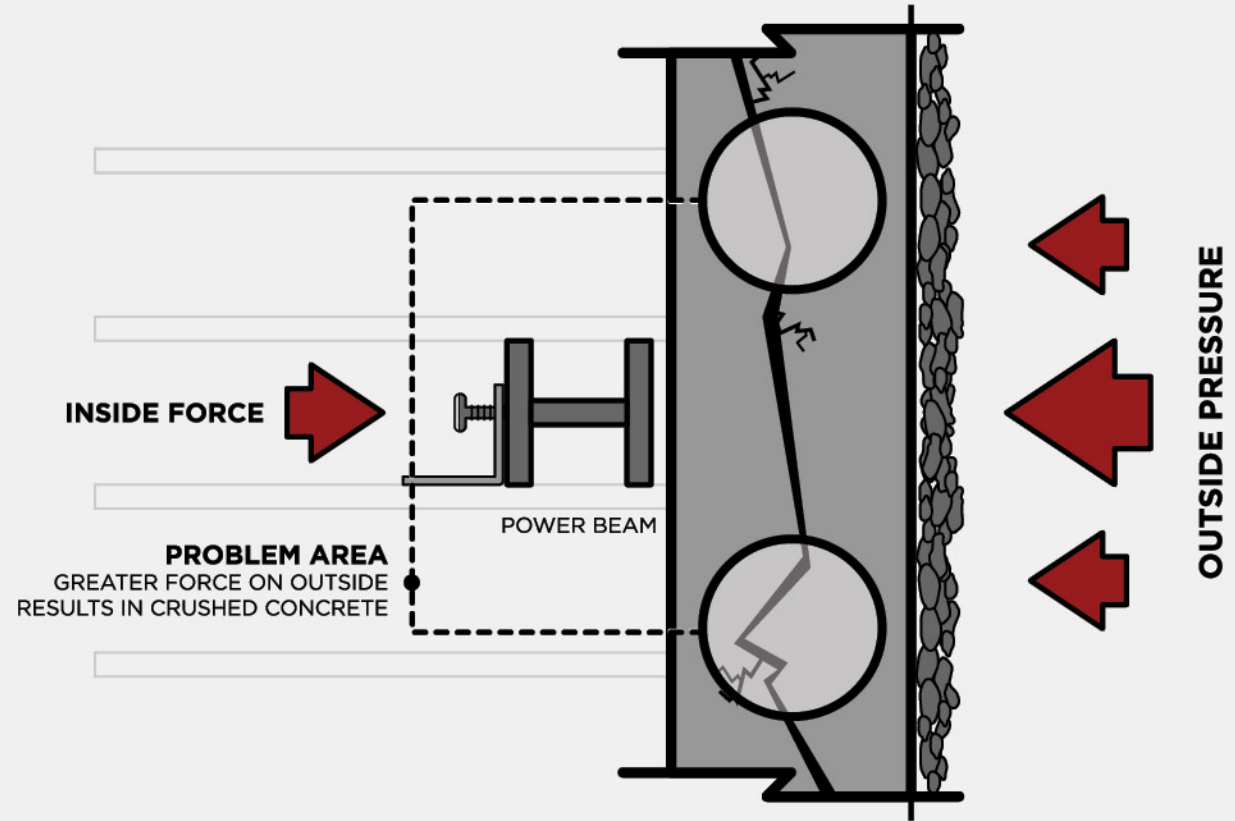


PROBLEM AREA
WALL SHEARING OCCURS

WALL TIE BACKS

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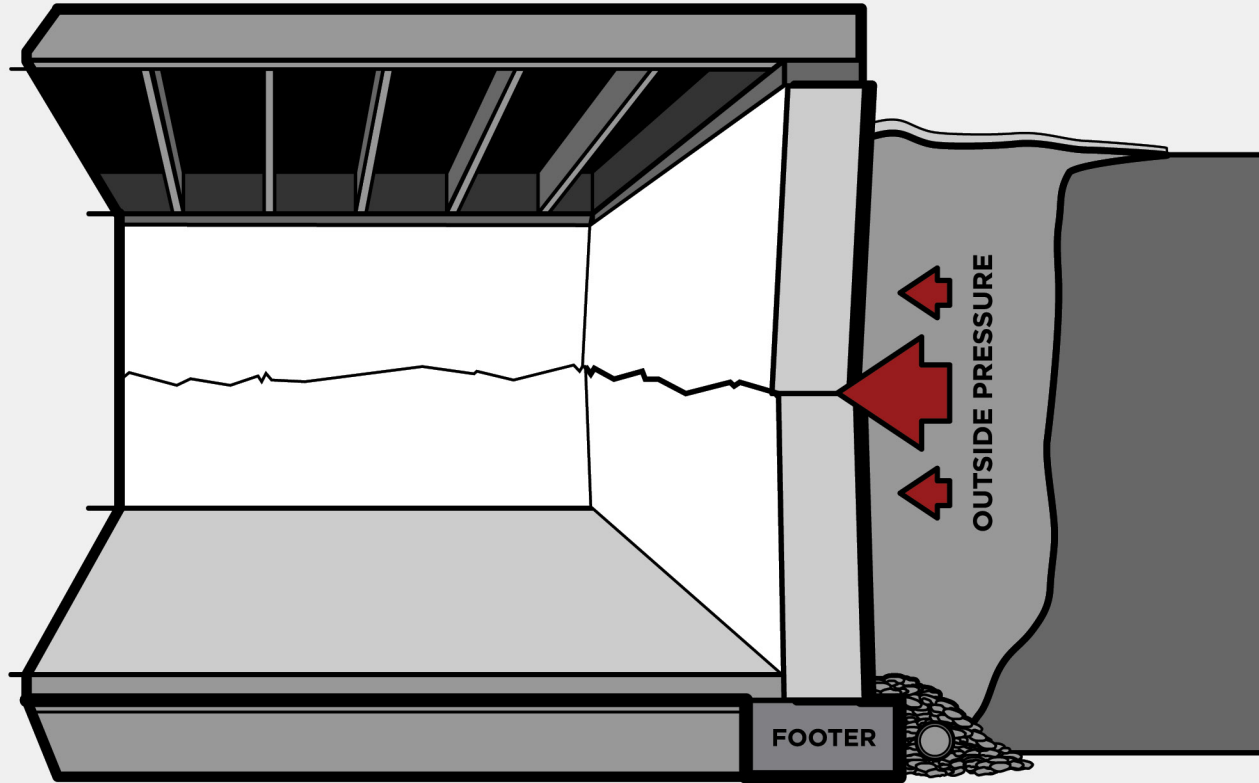


POWER BEAMS

TOP VIEW DIAGRAM

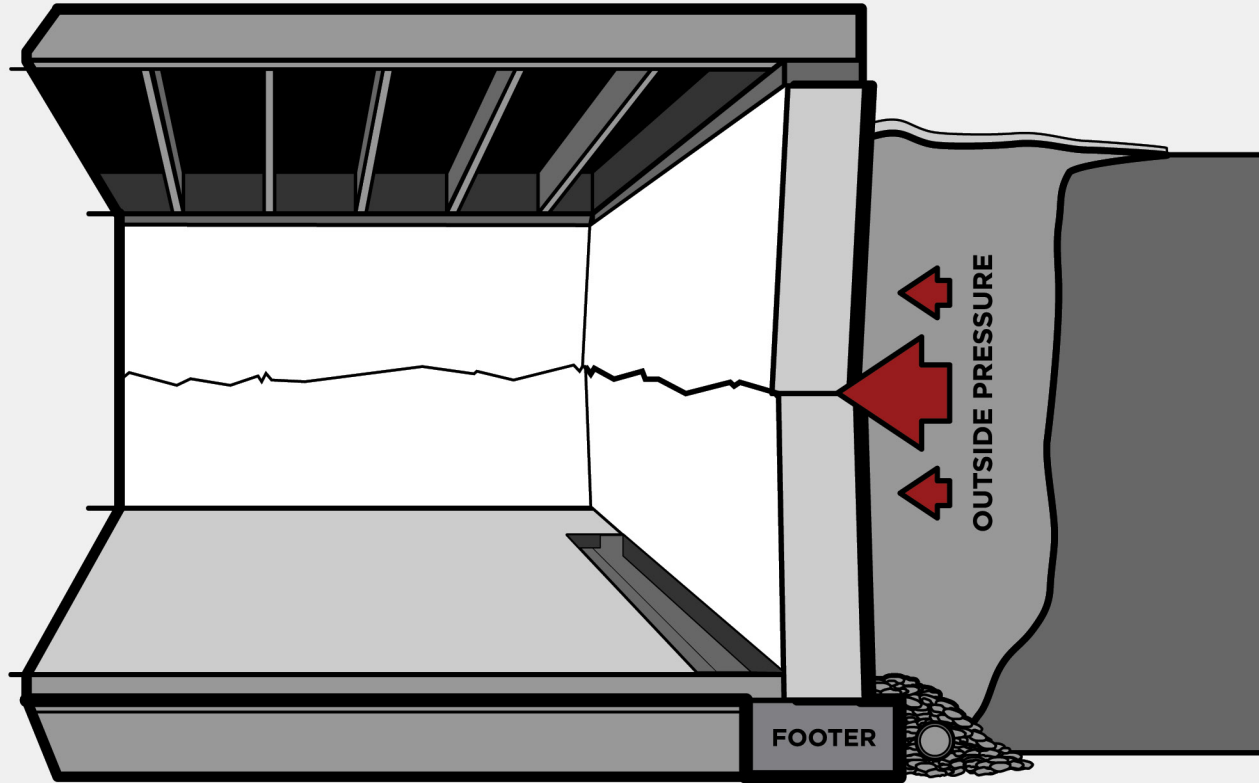
STATIONARY BEAMS

- Expensive (\$\$)
- Obtrusive beams stick out from wall
- Cracks in wall not fixed
- Decreased property value
- Steel flexes
- Loss of space
- Scary to prospective buyers



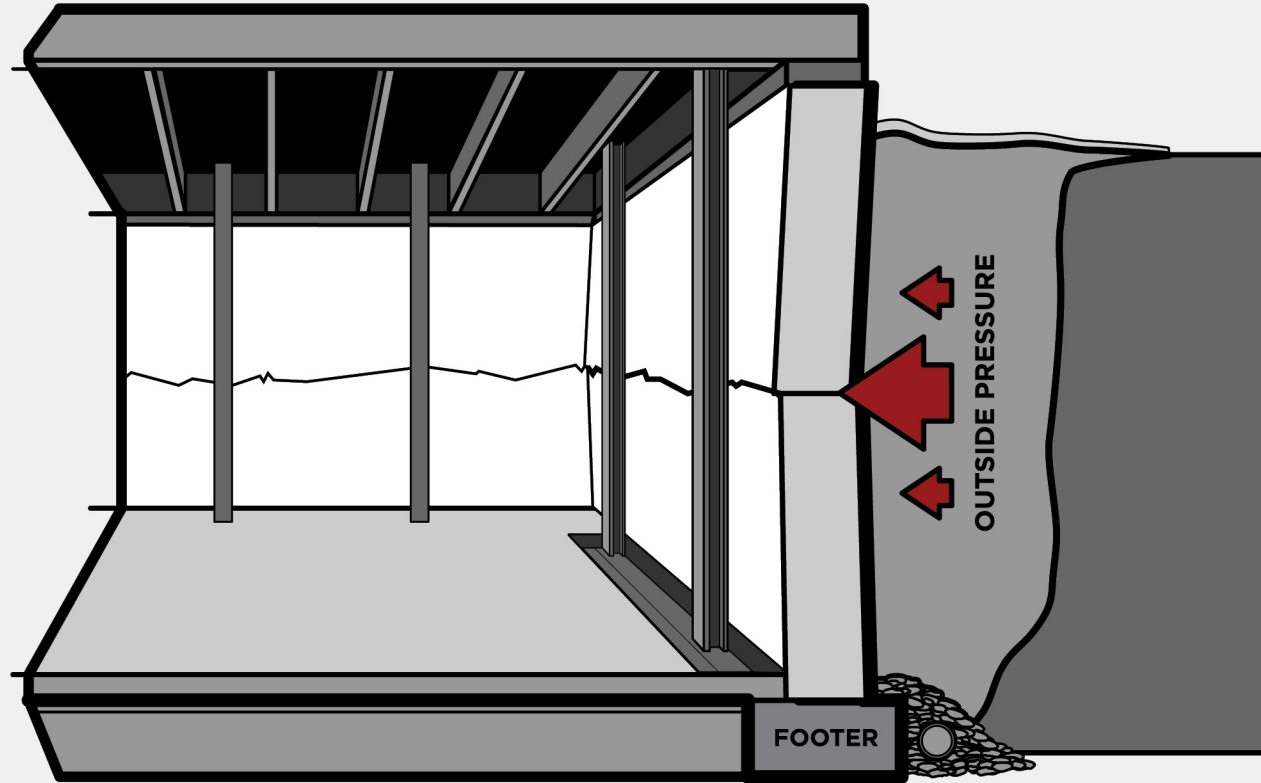
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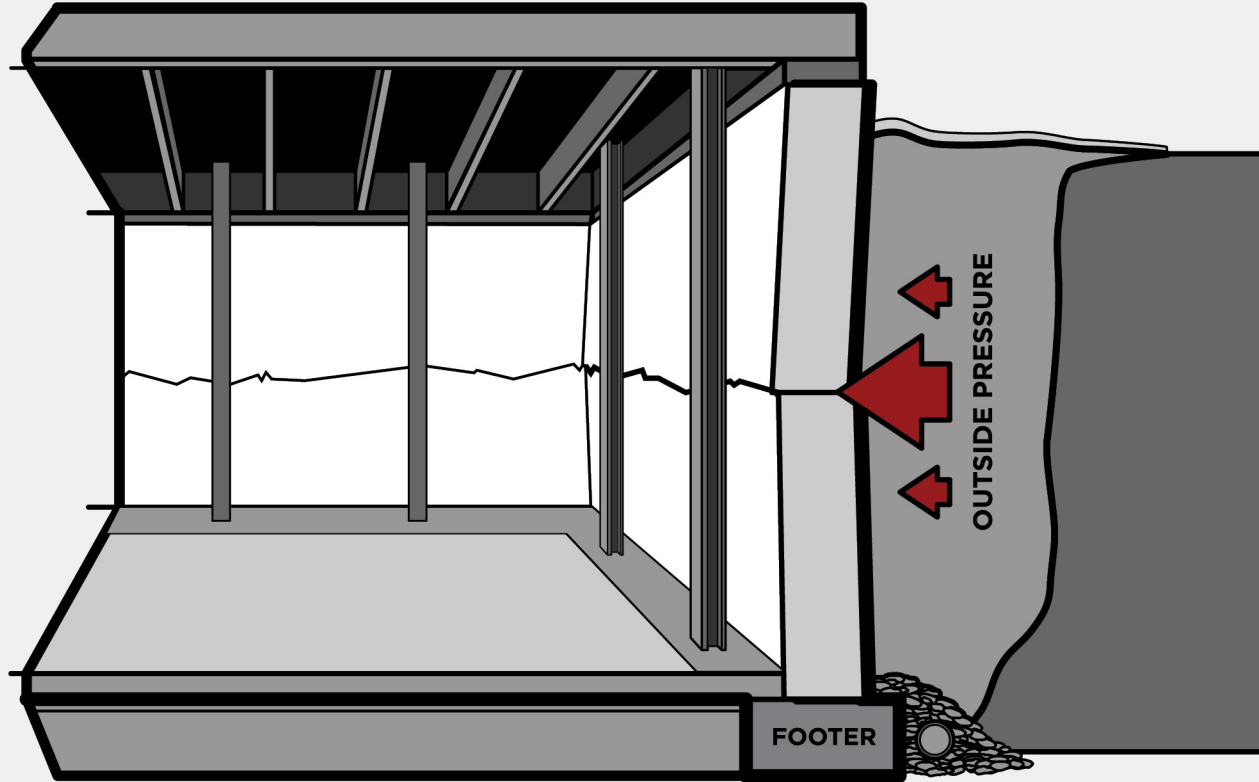
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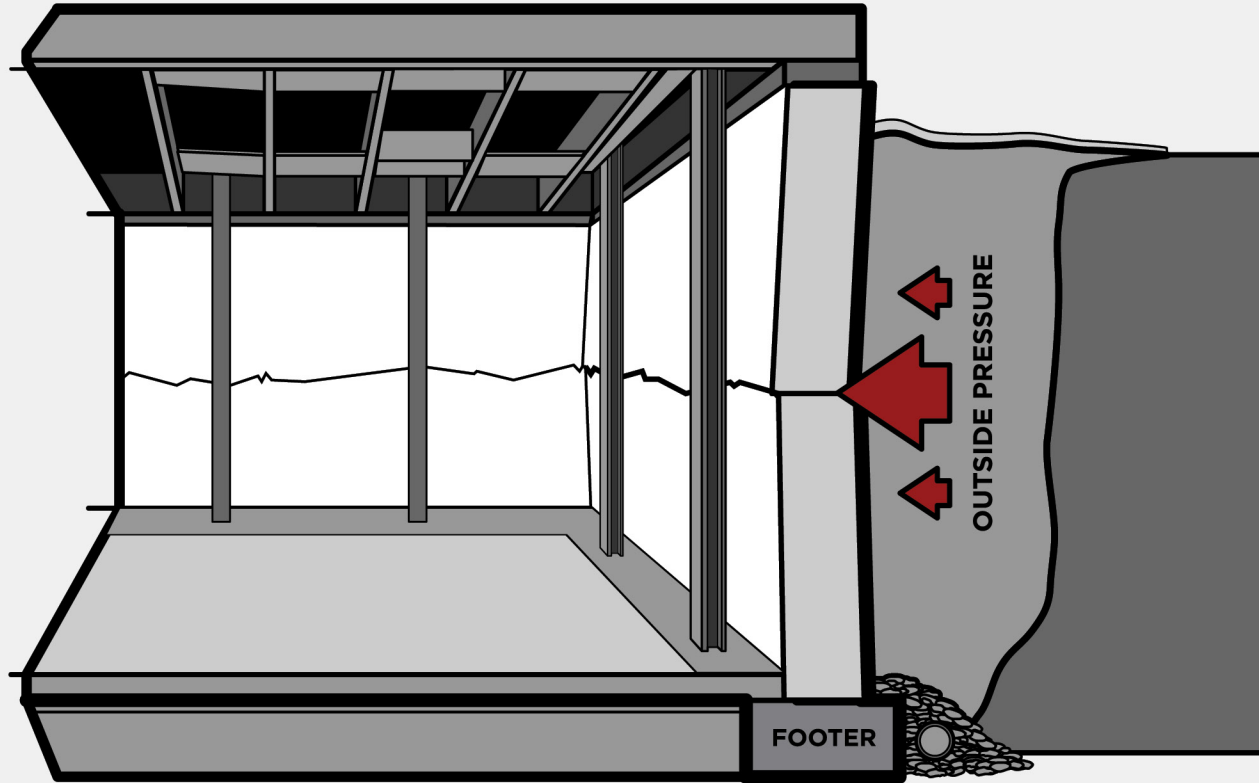
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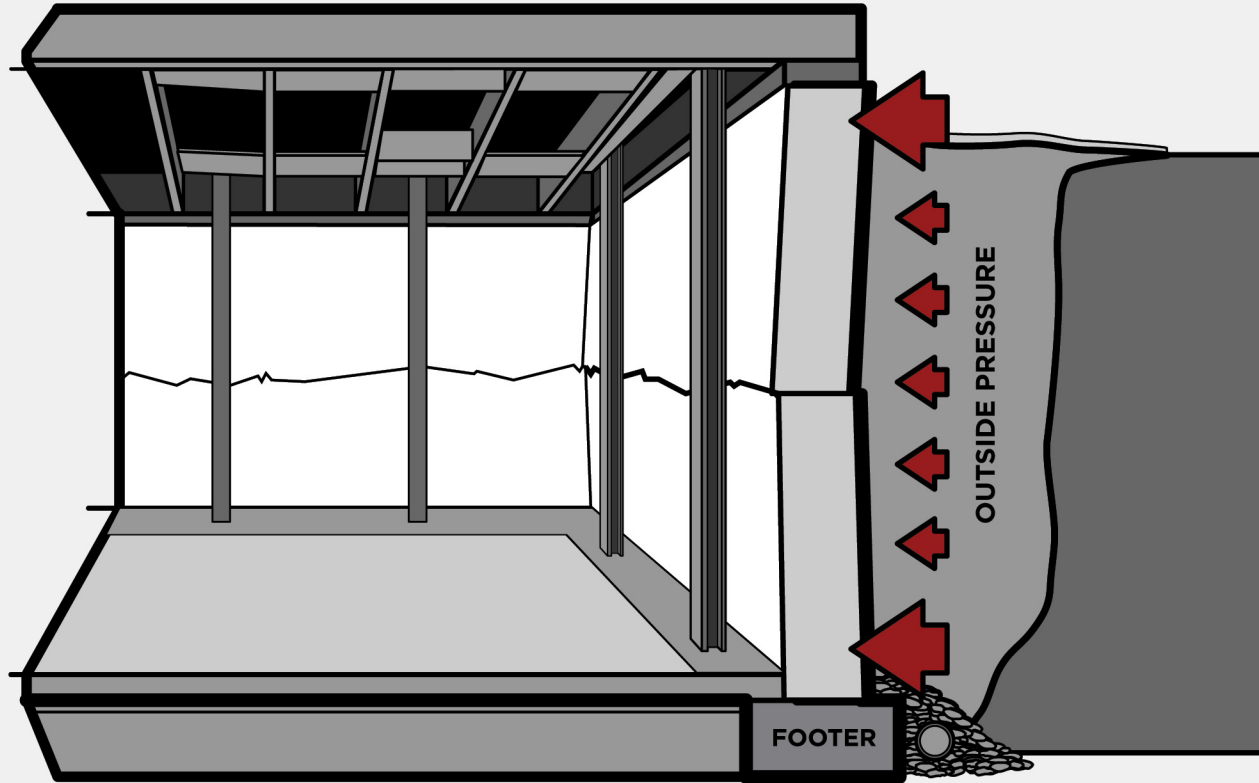
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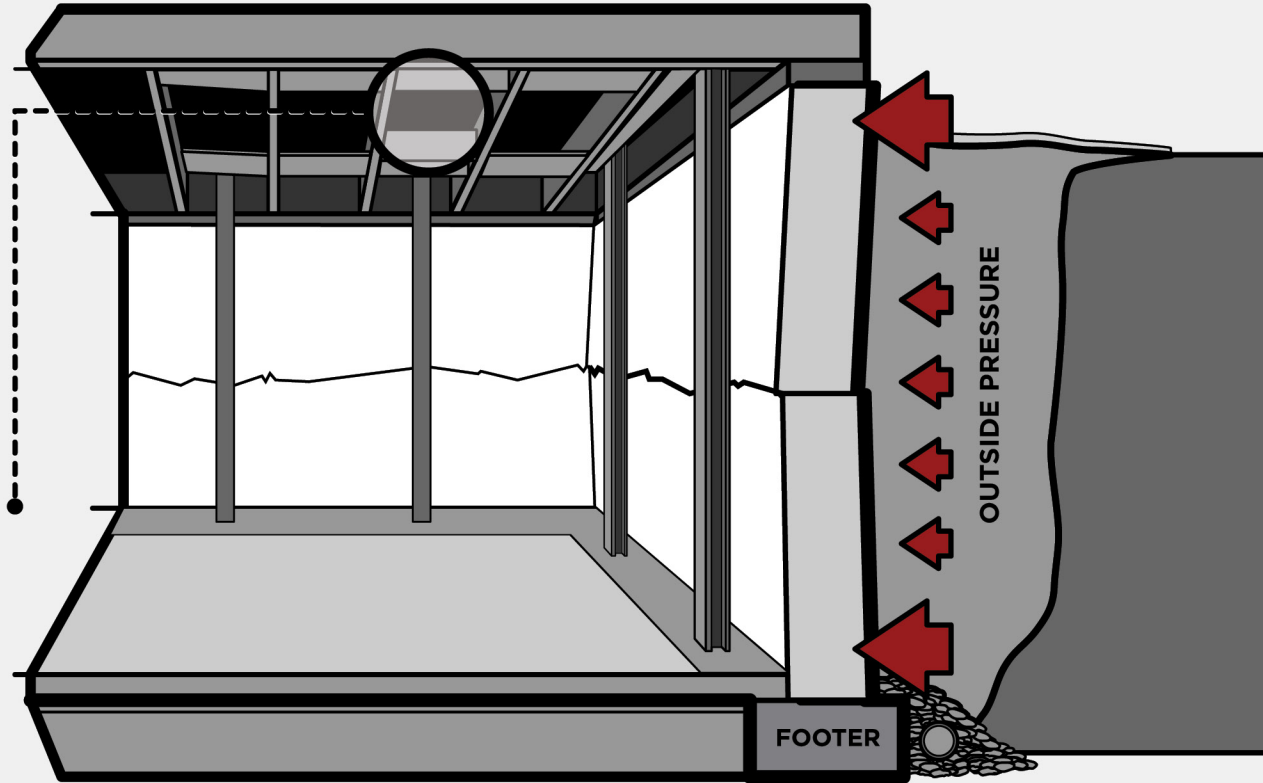
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PROBLEM AREA
BRACING REQUIRED
BETWEEN FLOOR JOISTS

STATIONARY BEAMS

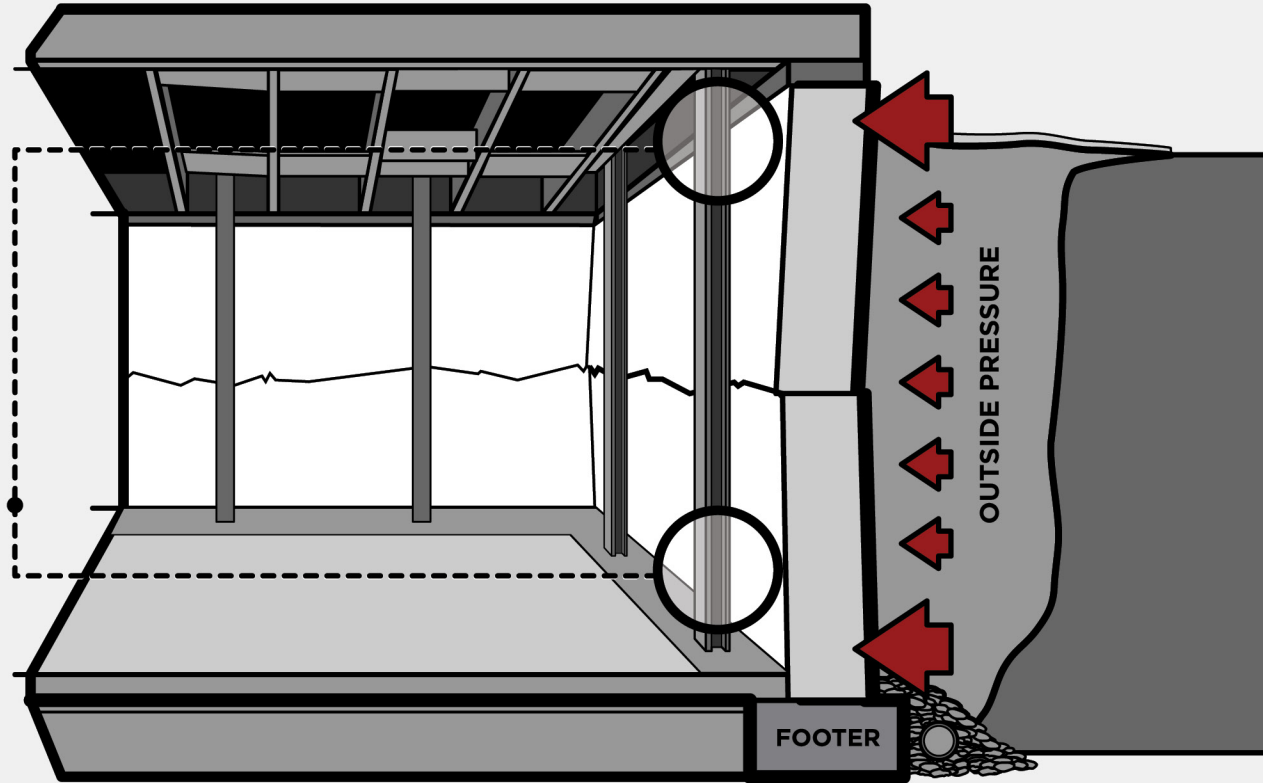
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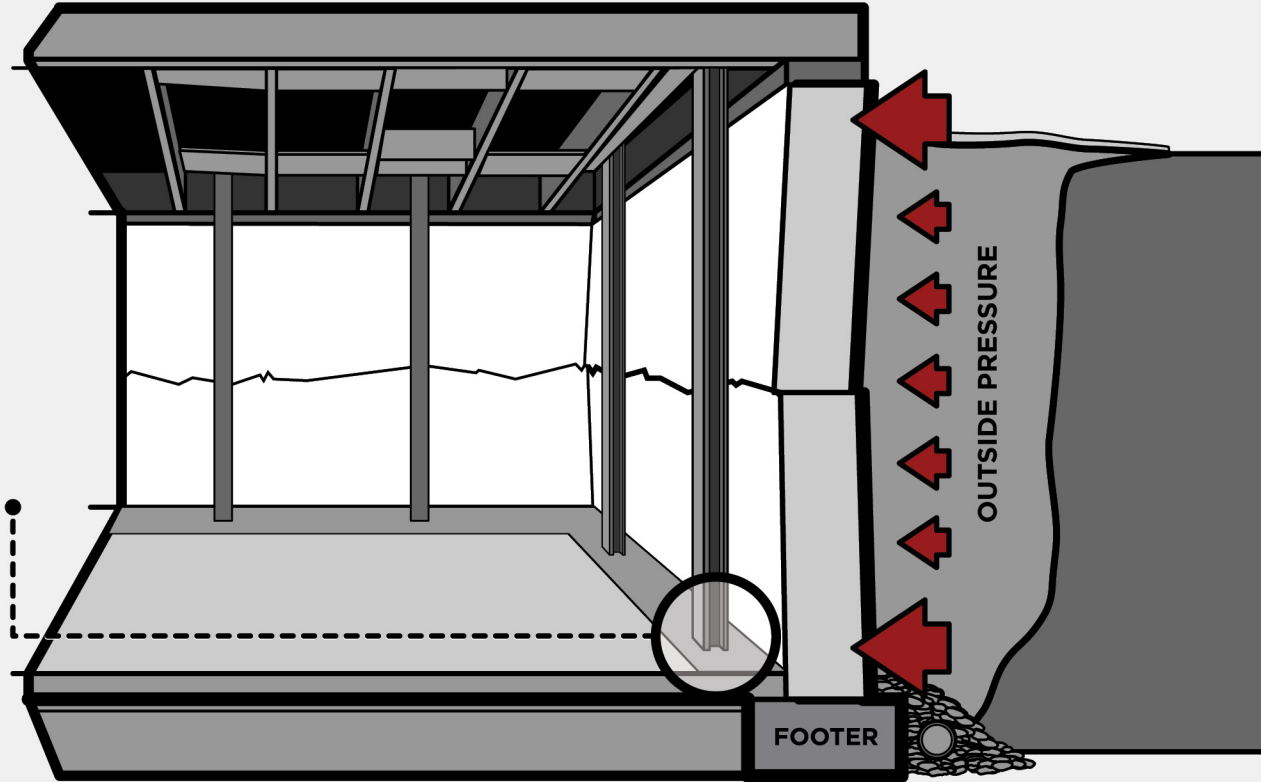
PROBLEM AREA
BEAMS DO NOT
TOUCH WALL



STATIONARY BEAMS

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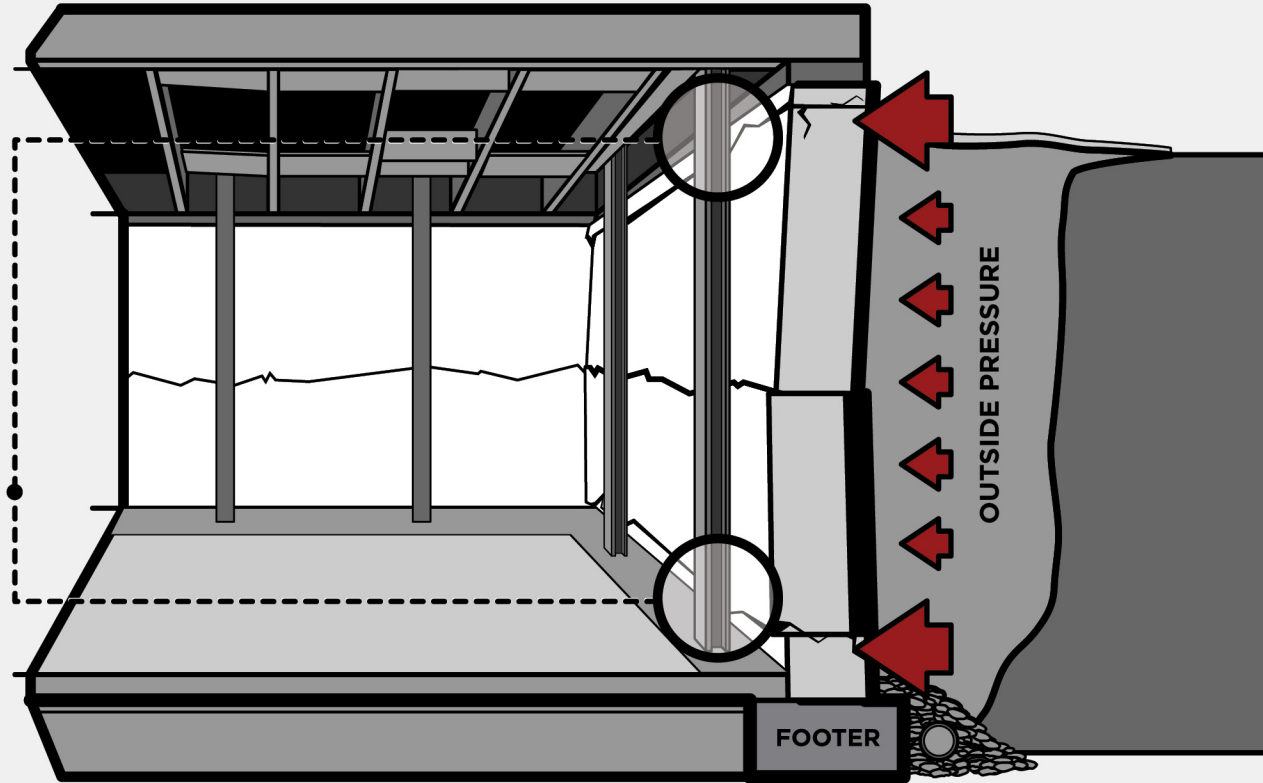
PROBLEM AREA
CONCRETE DRILLING &
PATCHWORK REQUIRED



PROBLEM AREA
WALL SHEARING OCCURS

STATIONARY BEAMS

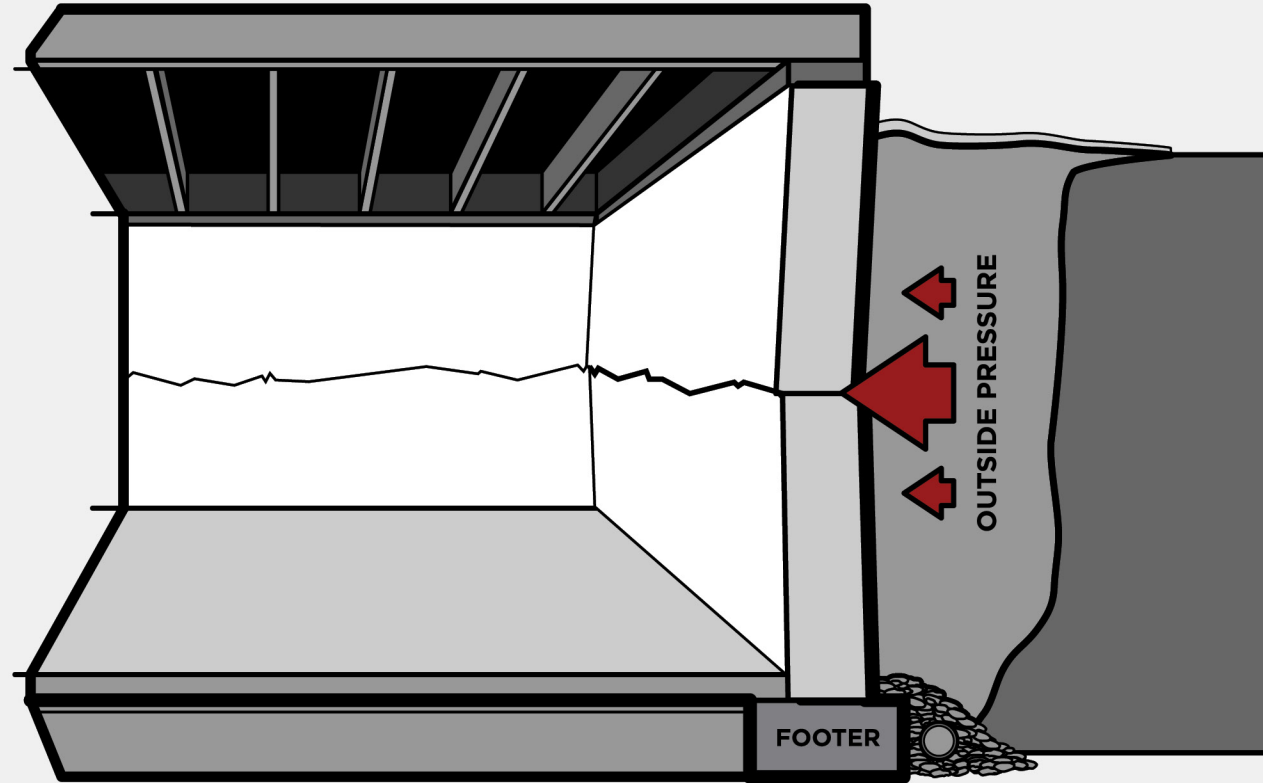
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POWER BEAMS

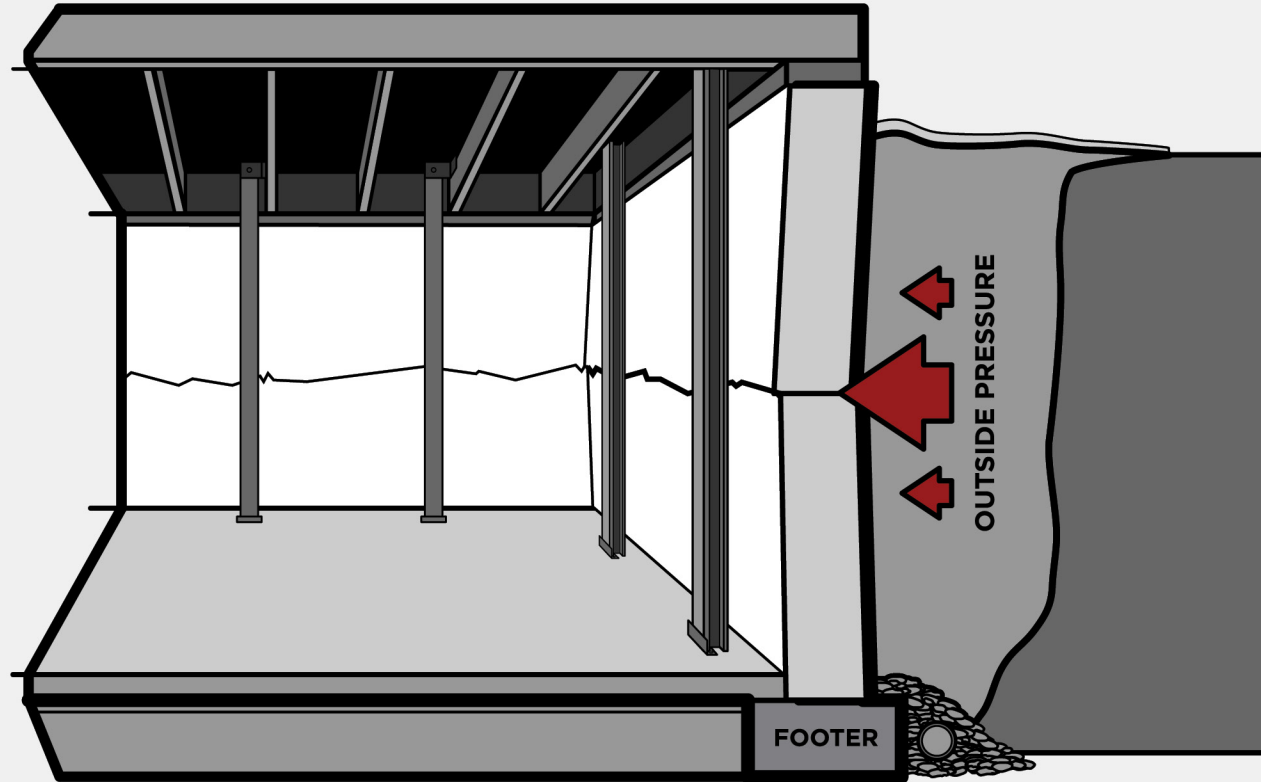
- Expensive (\$\$\$)
- Obtrusive beams stick out from wall
- Cracks in wall not fixed
- Beams not secured to floor
- Increased pressure twists floor joists (causing floor to move)
- Decreased property value
- Wall won't move back
- Unable to finish because the beams need to be accessible





POWER BEAMS

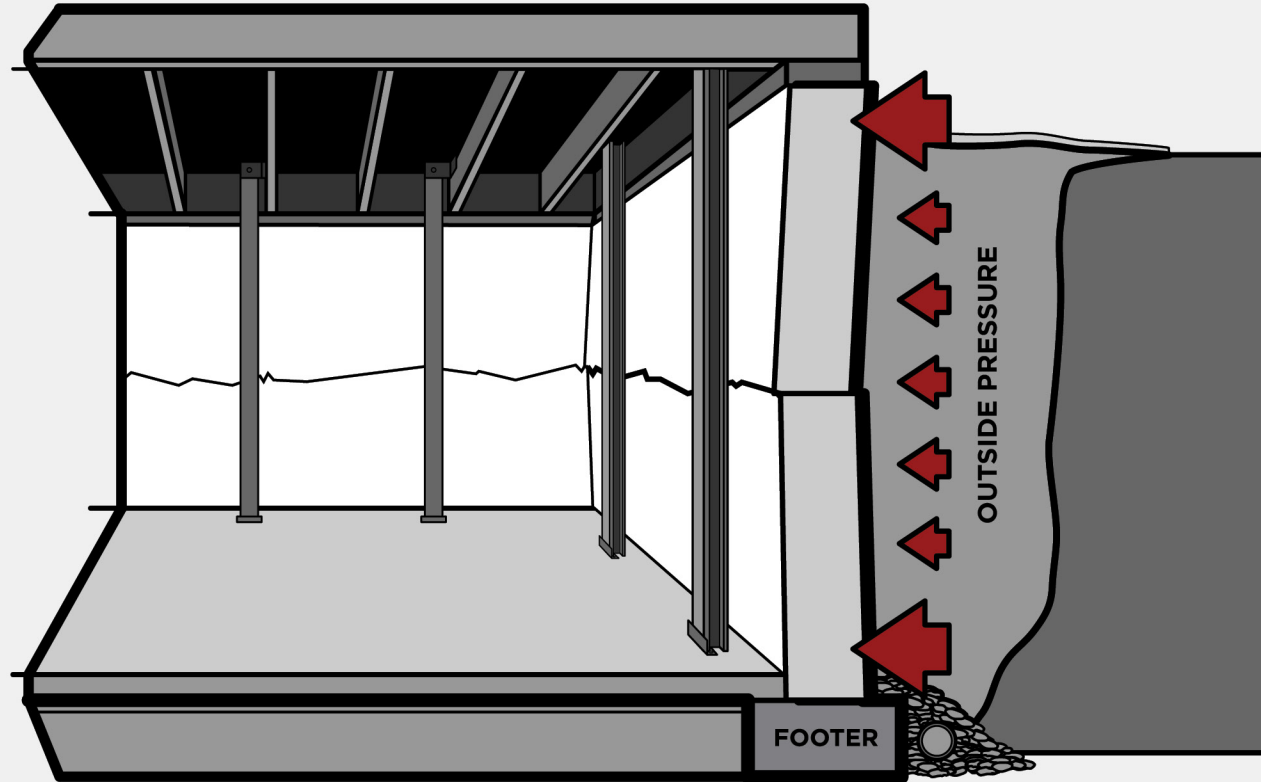
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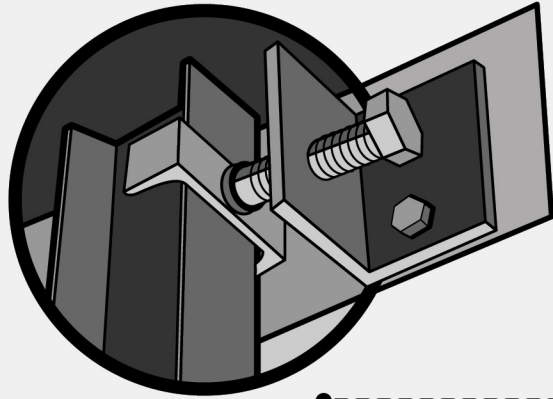




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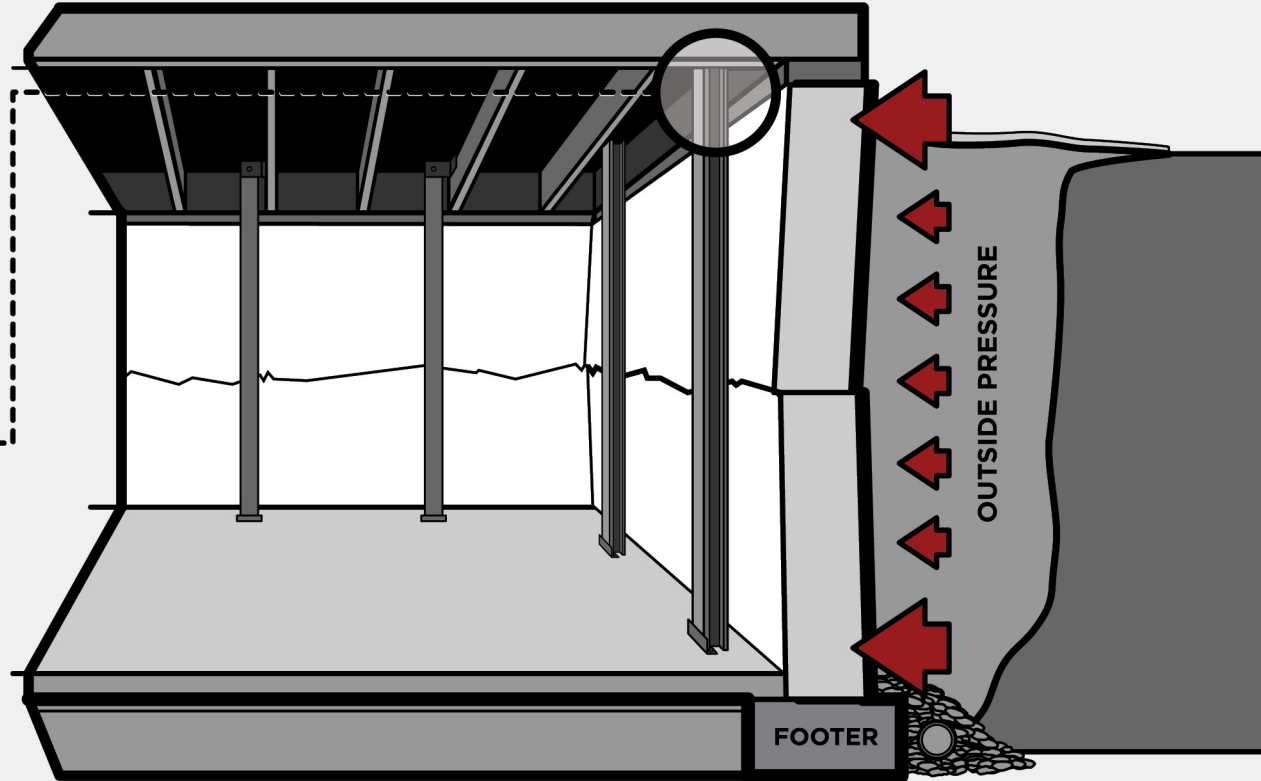




PROBLEM AREA
PRESSURE TWISTS
FLOOR JOISTS

POWER BEAMS

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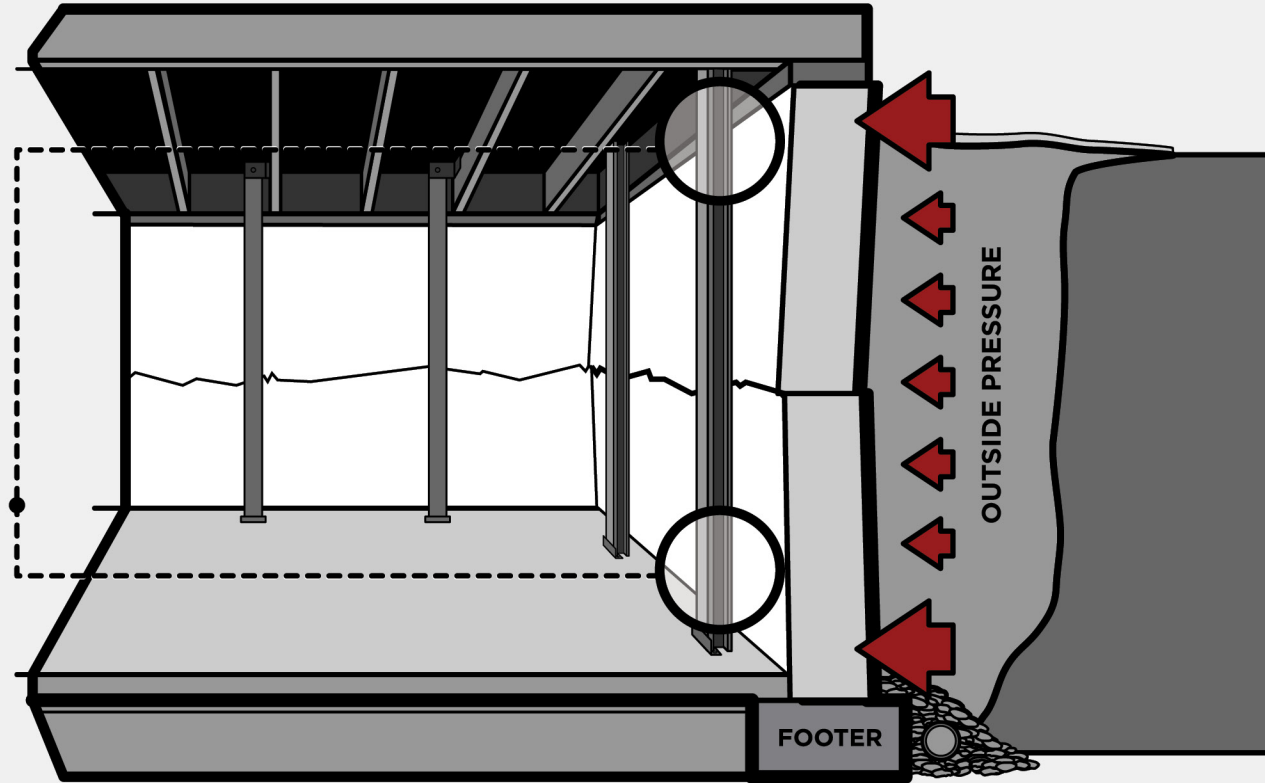


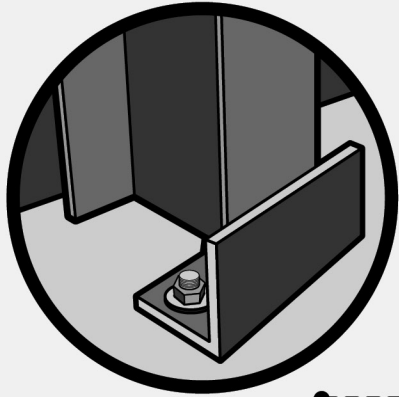


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PROBLEM AREA
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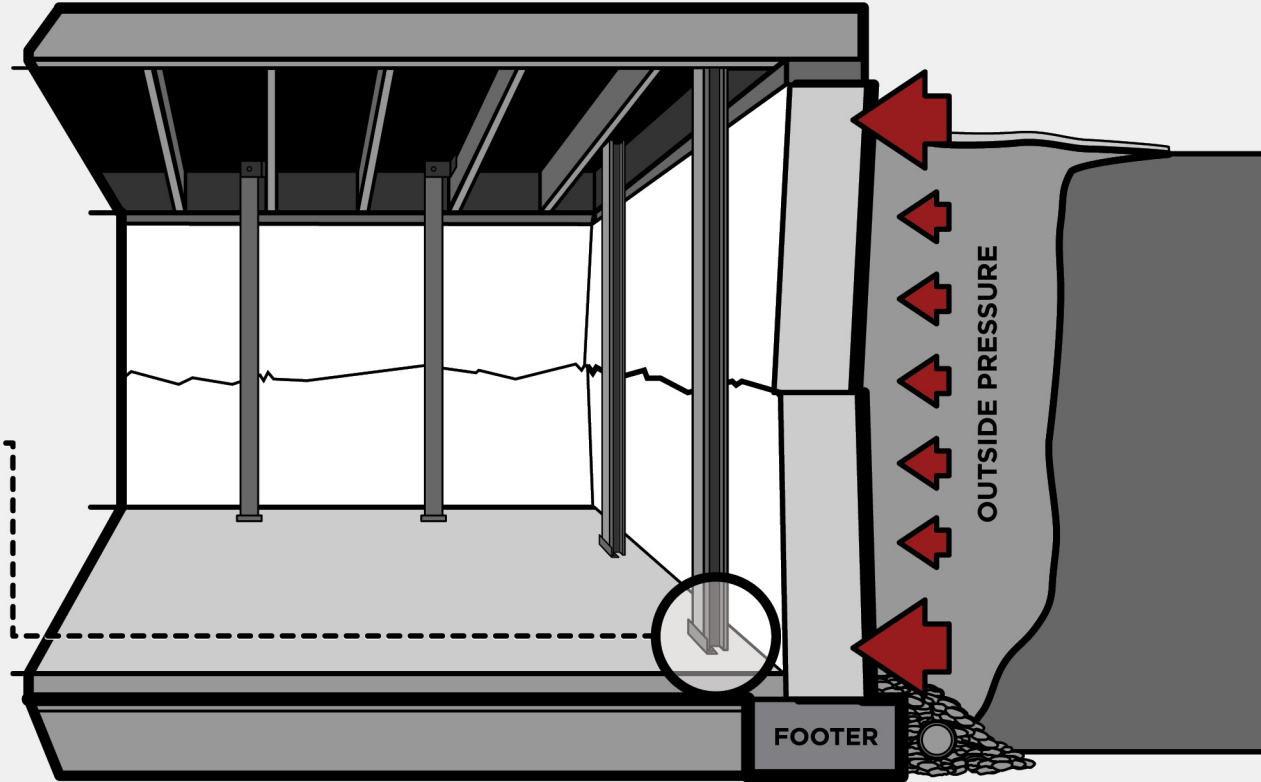




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PROBLEM AREA
NOT SECURED
PROPERLY TO FLOOR

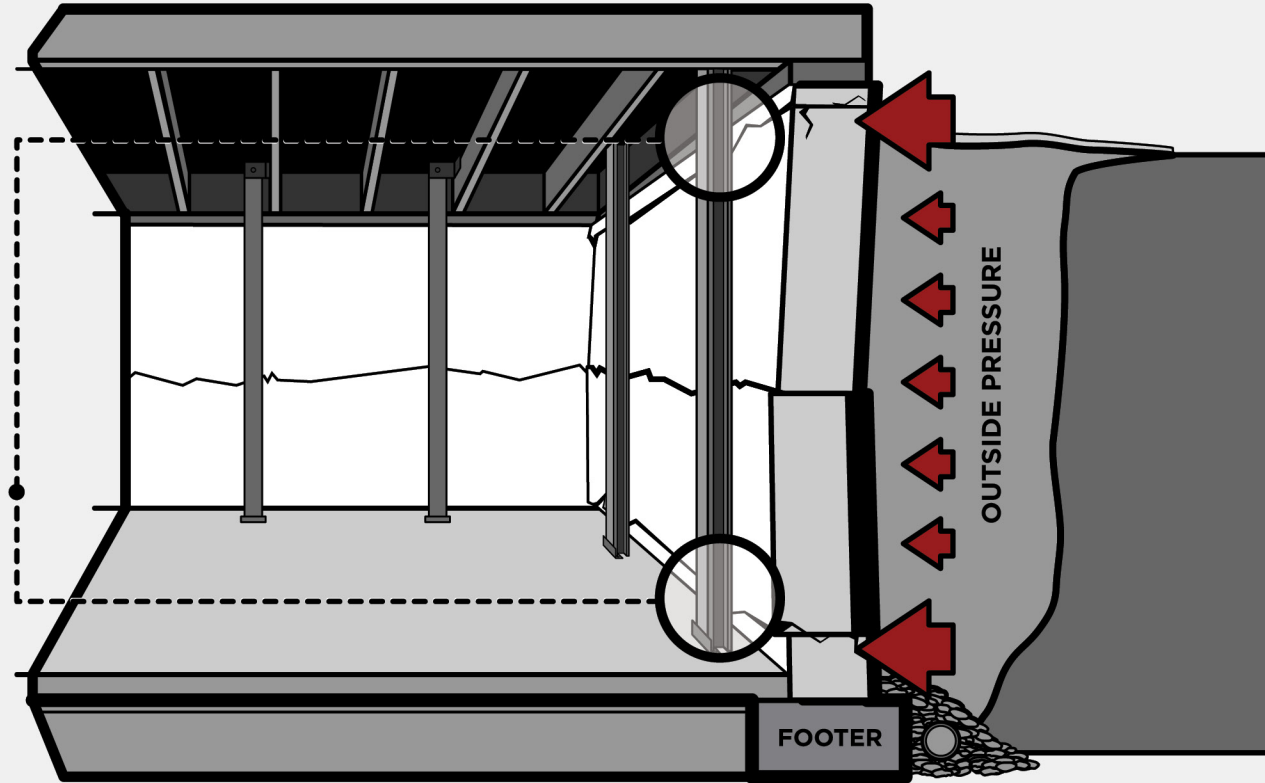


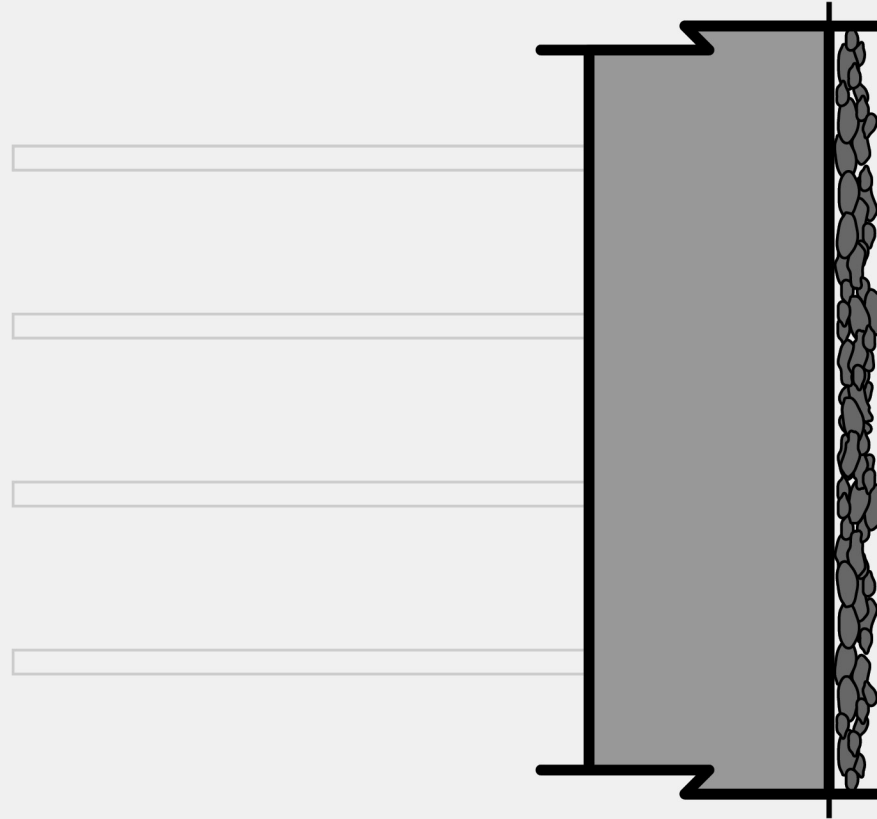


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PROBLEM AREA
WALL SHEARING OCCURS

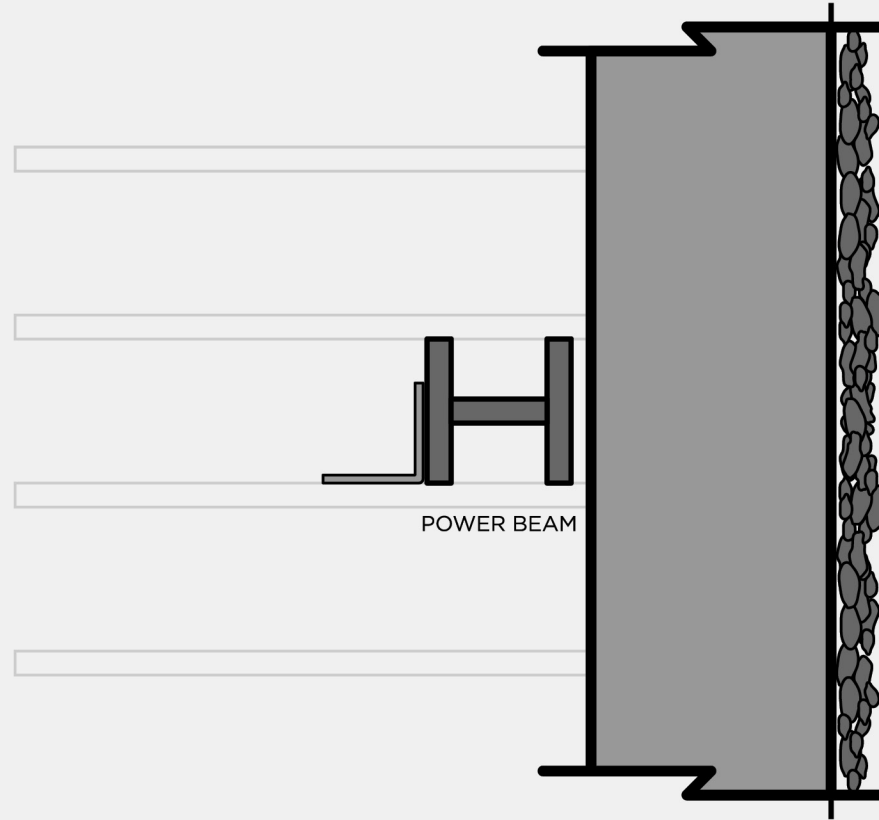




POWER BEAMS

TOP VIEW DIAGRAM

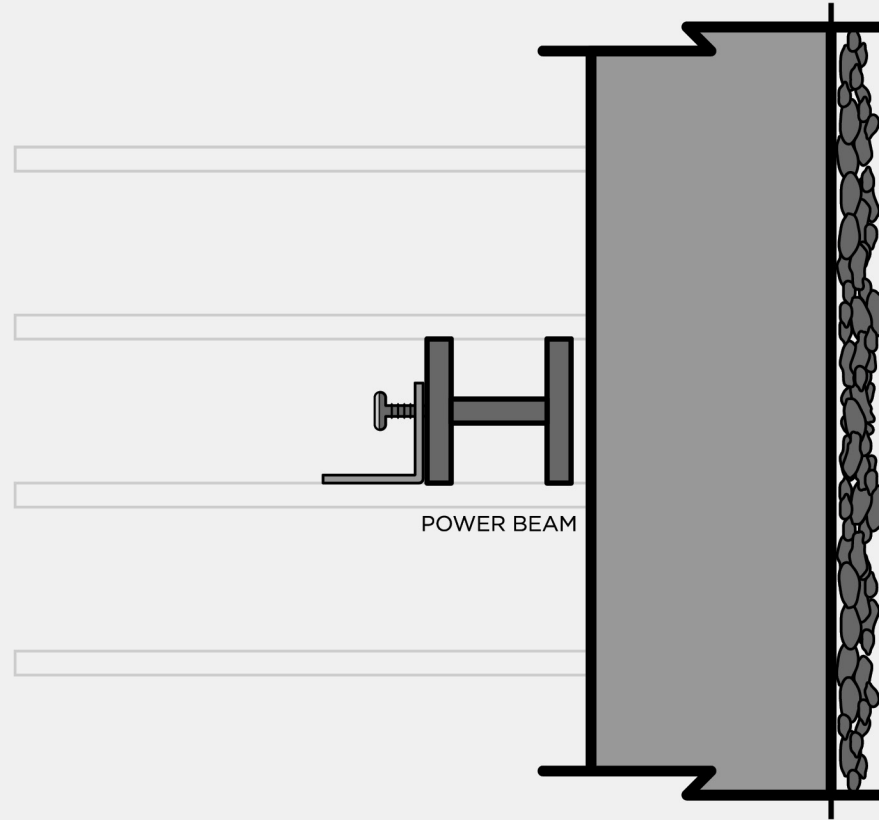




POWER BEAM

POWER BEAMS

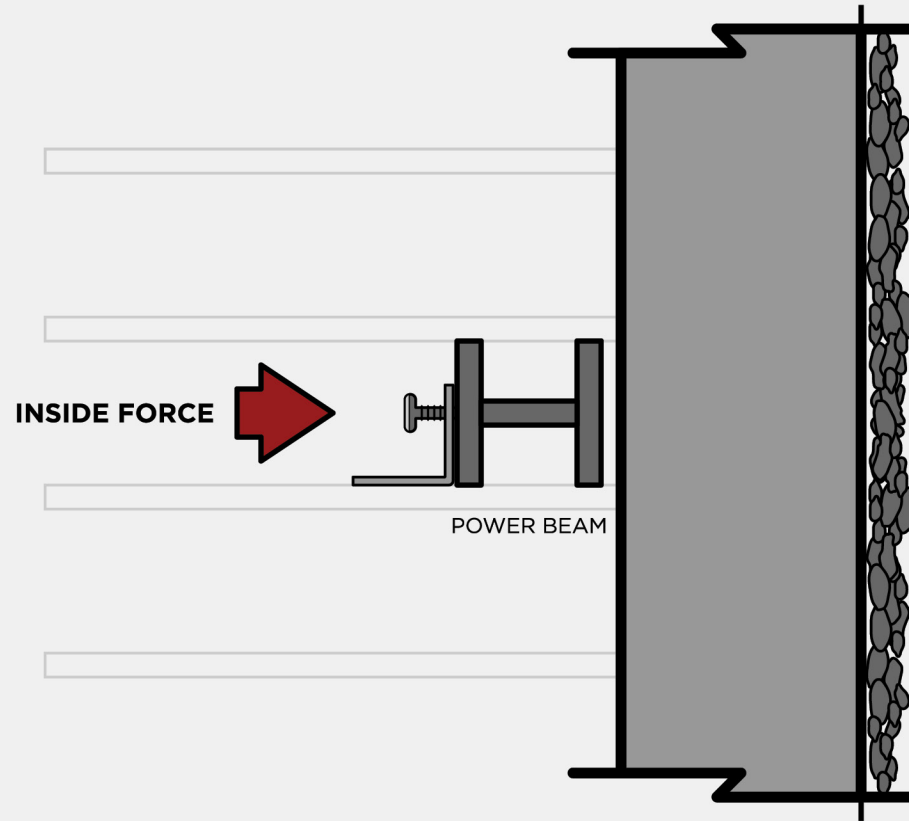
TOP VIEW DIAGRAM



POWER BEAM

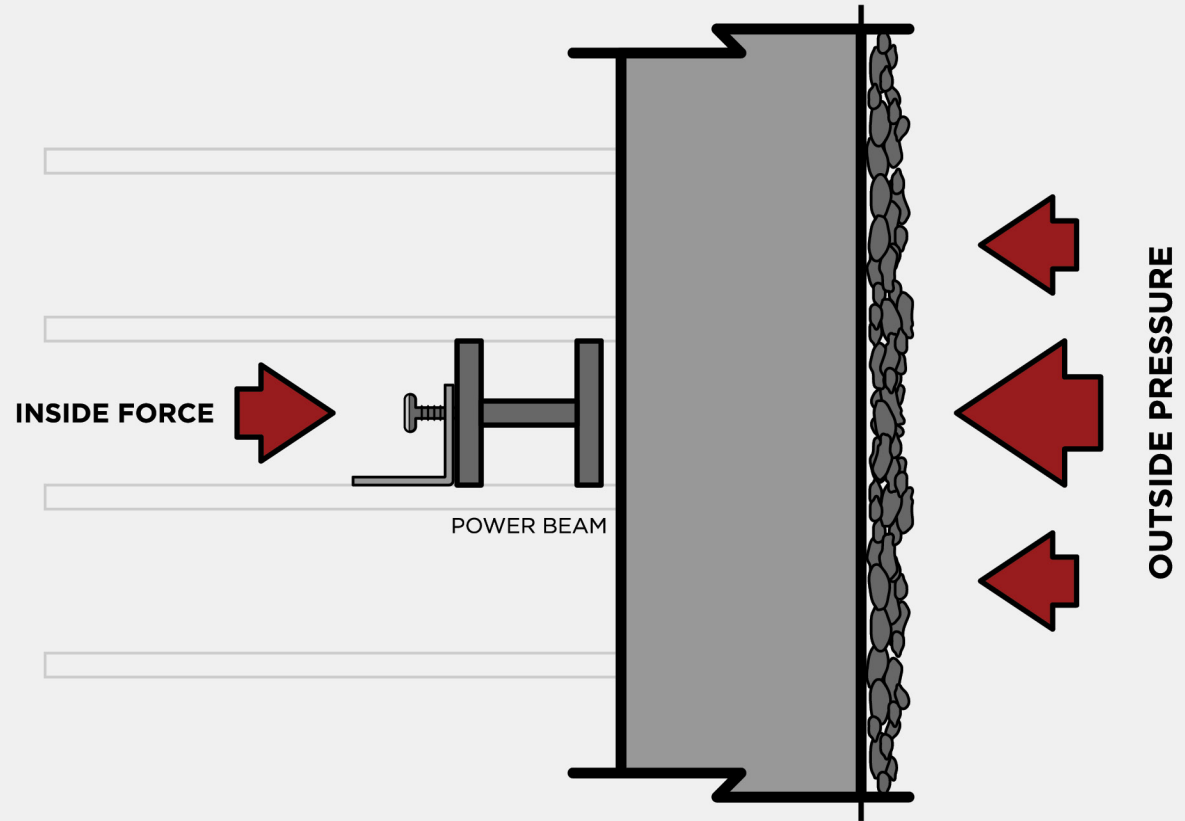
POWER BEAMS

TOP VIEW DIAGRAM



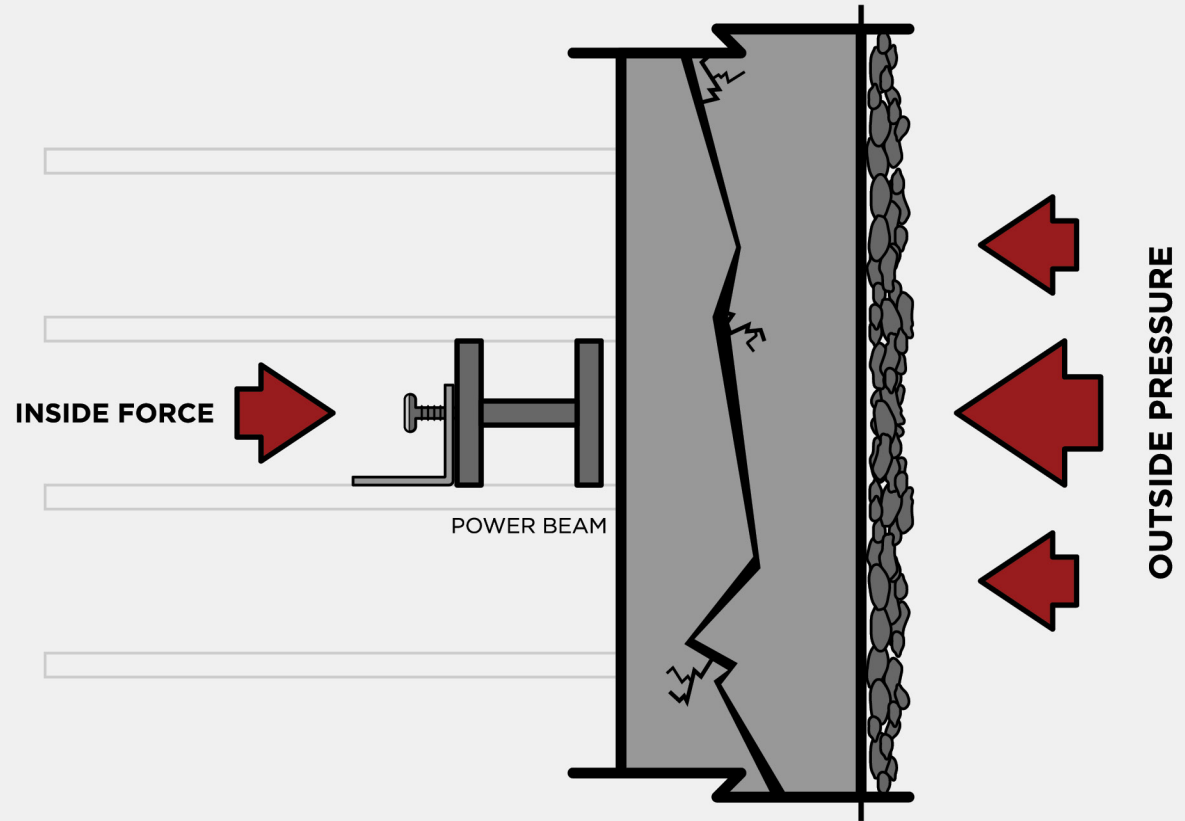
POWER BEAMS

TOP VIEW DIAGRAM



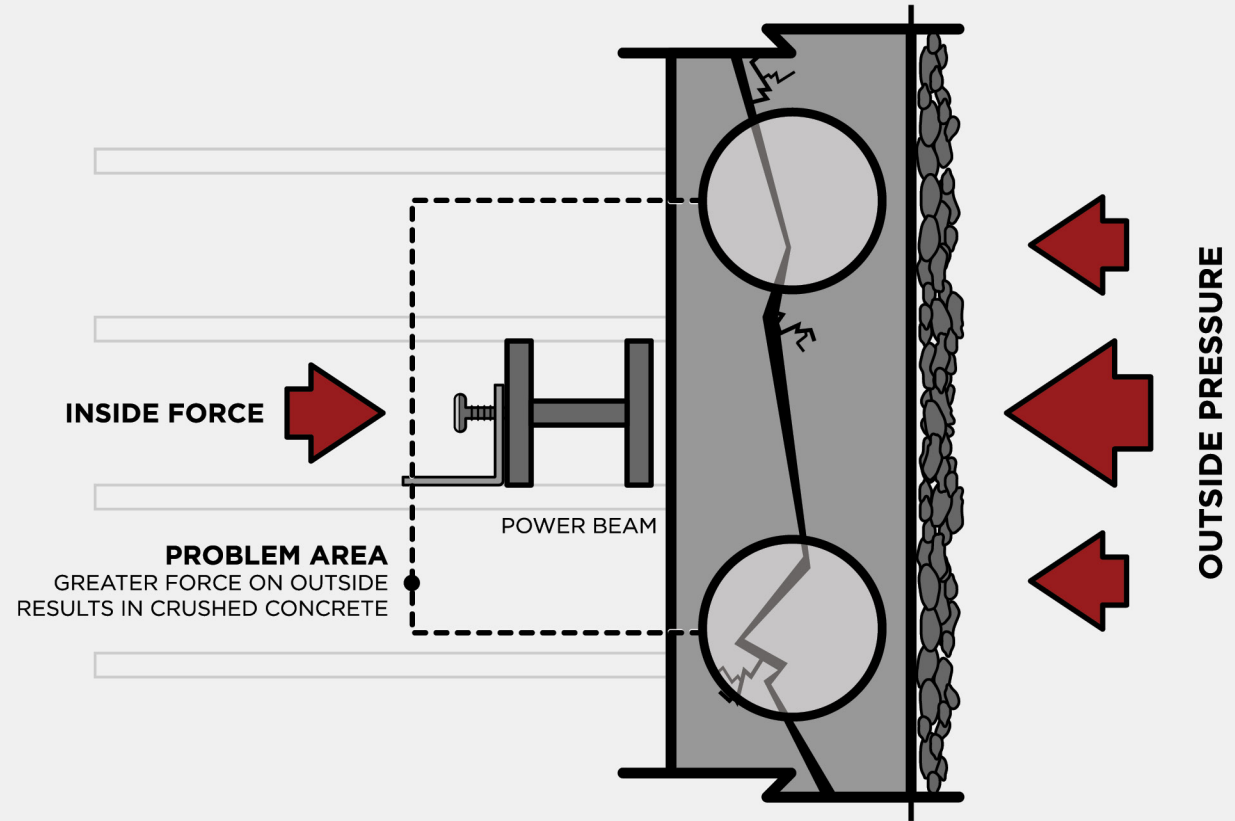
POWER BEAMS

TOP VIEW DIAGRAM



POWER BEAMS

TOP VIEW DIAGRAM



POWER BEAMS

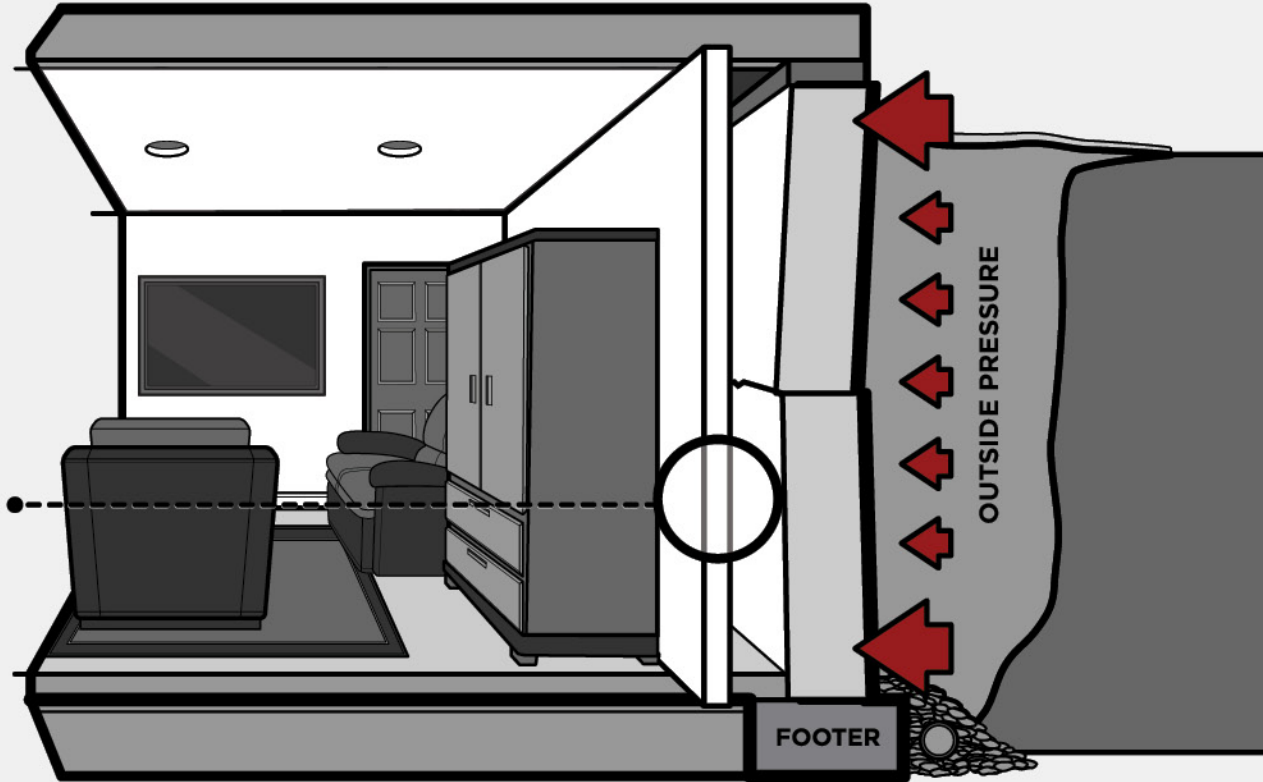
TOP VIEW DIAGRAM



PROBLEM AREA
FINISHING SPACE DECREASED
DUE TO OBTRUSIVE BEAMS

FINISHING & POWER BEAMS

Square footage decreases when finishing your space due to obtrusive beams.



www.RhinoCarbonFiber.com

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PowerBrace

FOUNDATION WALL REINFORCEMENT

Reversing the forces of nature.

About PowerBraceWork ExamplesContact PowerBrace

About PowerBrace

PowerBrace offers a permanent solution to fixing cracked or bowed walls due to the constant movement of soil. The Patented **PowerBrace** Brackets reverses the forces of nature by reinforcing the wall and over time can move the wall back to its original position with out excavation outside of the home or removal of concrete from the basement floor. Whether the foundation wall is built with block, tile, wood, or poured concrete Power Brace offers a permanent solution.

The PowerBrace Advantage

The Patented **PowerBrace** Brackets have revolutionized the use of steel I-beams to reinforce a bowing basement wall. I-beams have been used to reinforce basement bowing walls for decades but the with the help of the **PowerBrace** Brackets steel I-beams have been transformed into the most reliable foundation wall bracing system available. Unlike wall anchor systems that rely on the moving soil to stabilize a foundation wall, the **PowerBrace** utilizes the strength of the concrete floor and the floor joist to stabilize the foundation wall.

The bottom bracket of the **PowerBrace** simply uses two concrete anchors to hold the I-beam in place against the bottom of the foundation wall. The **PowerBrace** top bracket fastens in the floor joist and when a constant pressure is kept on the bracket the beam will slowly move the wall back to its original position with out any exterior excavation, except in extreme situations. Since the **PowerBrace** has contact with the wall from the basement floor up to the floor joist the **PowerBrace** will generate the most Reliable and most Cost Effective product to stabilize a foundation wall.

POWER BEAMS

POWER BRACE

J&D BASEMENTS SYSTEMS

www.foundationwallbrace.com

Customer Testimonials

PowerBrace was just what I was looking for.
-Michael L. Sterk - Pella, IA
I am very pleased with the work you did. The crack along the long wall is almost closed up already. They did a fantastic job of cleaning up. Thank you!
-Verna Coblenz - Millersburg, OH
I liked the price of PowerBrace and also that all of the work was done on the inside of the home.
-Steve Riedy - Hops, KS
Thank you for selling us the PowerBrace. We are very pleased with the results. Actually, it saved our wall from caving in when we dug out the basement. Thanks for all of your help and information
-Don & Tammy Frey - Minerva, OH
We are impressed that our basement has been straightened as much as it has. The wall has been corrected 85%. We did not expect such a Good Job!
-Bernard J. Knepp - Alliance, OH
I enjoyed the clear explanation of the PowerBrace system versus other systems.
-Kathy Kunkel - Mapleton, MN
The PowerBrace System was a great solution to our problem.
-Marlin Finestead - Urbana, IL

Find A Dealer

Simply fill out the form below or call 866-375-9990 and we will have your local PowerBrace dealer contact you for a no obligation, free estimate.

First Name:

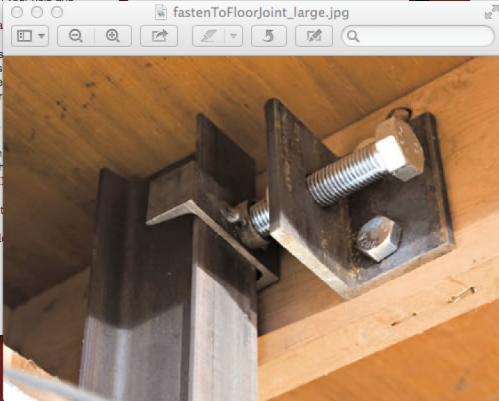
Last Name:

Street:

City:

State / Zip:

Phone:



THE FORCE

The Force: Tension Loaded... A Brace Beyond The Rest

Experiencing Extreme Foundation Failure? Force the issue!

Extreme Failures Demand Extreme Force! The Force of Nature...

Reversed! Constant soil pressure and movement can lead to severely damaged concrete foundation walls ... buckling, cracking, and often worse. When this force of nature moves in, The Force structural bracing system, counteracts the stress!

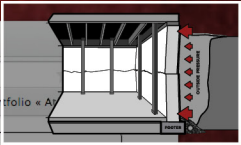
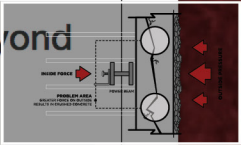




DIAGRAM >>




INSTALLING THE FORCE >>




The Force is a patented system structural tension-loaded, steel I-beam reinforcement system that is designed to straighten block or concrete walls over time. The Force is recommended in more extreme situations where bowing is in excess of 2-inches.

Unique Spring-Coil Design ... Applies 1,000 lbs. of Constant Force

Without excavation or homeowner assistance, The Force's unique spring-coil design helps straighten walls over time. Unlike other bracing systems, The Force utilizes a tension-loaded spring coil that applies a constant 1000-pound force on the wall.



During hot, dry weather concrete walls can shrink and pull away from the foundation. The Force's tension-load spring coil is structurally supporting the wall.







POWER BRACE
EXAMPLES

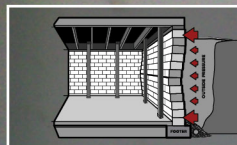
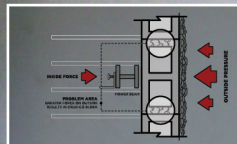
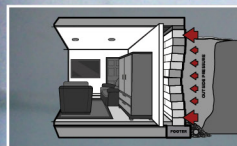


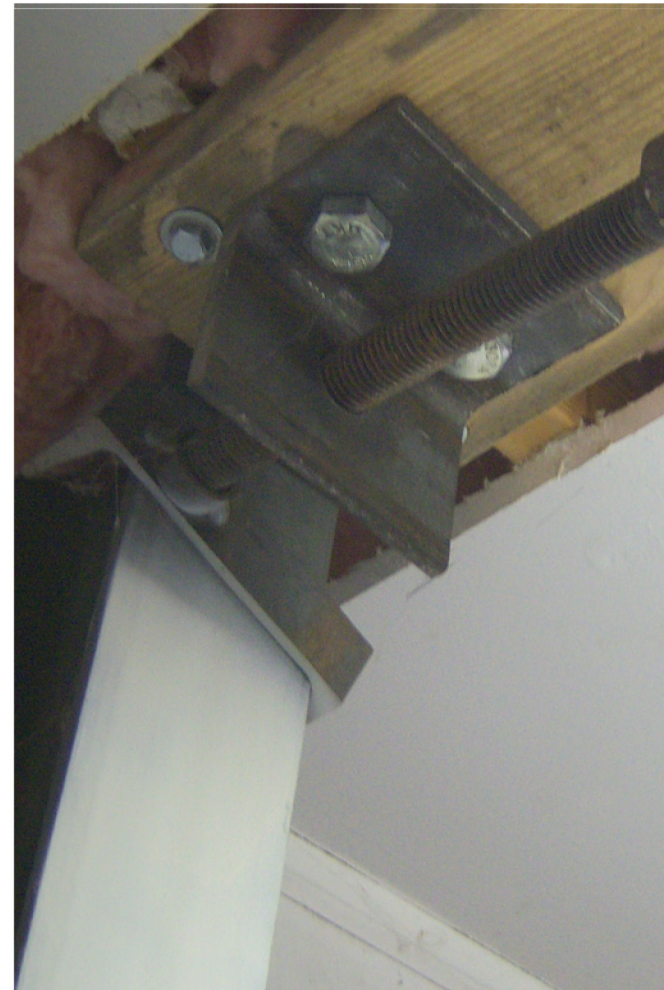
DIAGRAM >>



TOP VIEW >>



FINISHING >>





DIG & PUSH

- Expensive (\$\$\$)
- Obtrusive
- Difficult installation process
- Destructive to sidewalks, driveways, flowerbeds and yards



www.RhinoCarbonFiber.com

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Carbon Fiber.

Strongest Wall Repair System Available.

No deterioration or rotting

No movement

Minimal intrusiveness

Fast, clean installation

Once again there are several options to choose from...



www.RhinoCarbonFiber.com

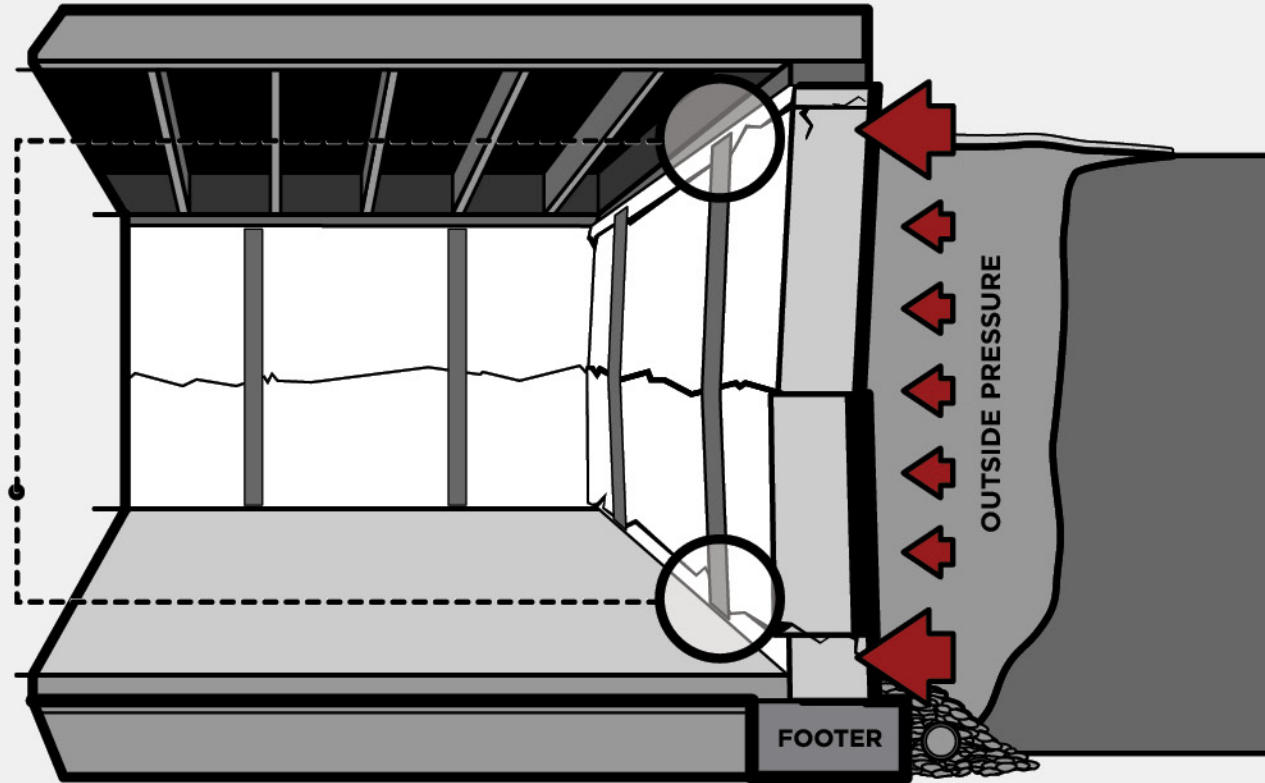
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PROBLEM AREA
WALL SHEARING OCCURS

CARBON FIBER PLATES 4-5 INCH WIDE STRIPS

- No connection to sill plate or floor
- Damage continues at top/bottom of wall
- No horizontal strength
- No visible signs that plates are sealed to wall
- Epoxy difficult to apply



carbon fiber foundation cr x

carbon fiber foundation cr x

Rhino

thereinforcer.com/the_reinforcer_i2.html

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The Reinforcer

Case Studies

Company Information

The Force

The Terminator

Design & Installation

Find an Installer

Contact

The Reinforcer Carbon Fiber Concrete Reinforcement

What Is The Reinforcer® foundation wall stabilization system ?

The Reinforcer® composite system is a Fiber Reinforced Polymer (FRP) made of carbon fibers and an epoxy resin matrix specifically designed for strengthening and repair concrete and masonry.

How does The Reinforcer® work to keep basement walls from cracking?

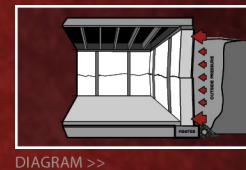
When **THE REINFORCER®**, concrete reinforcement, is applied to foundation walls, it counteracts further wall buckling from outside pressure on the wall. Taking the tension force (or tensile load) that the basement wall cannot.

For every increase in pressure on the foundation wall, **THE REINFORCER®** supplies an equal and opposite resistant force making the wall stronger. It helps repair expanding, buckling, bowing, and cracking walls by using carbon fiber to strengthen the walls.

View our Independent Lab & Field Testing video

reinforcer_product.jpg





CARBON FIBER PLATES
THE REINFORCER
J&D BASEMENTS SYSTEMS
www.thereinforcer.com



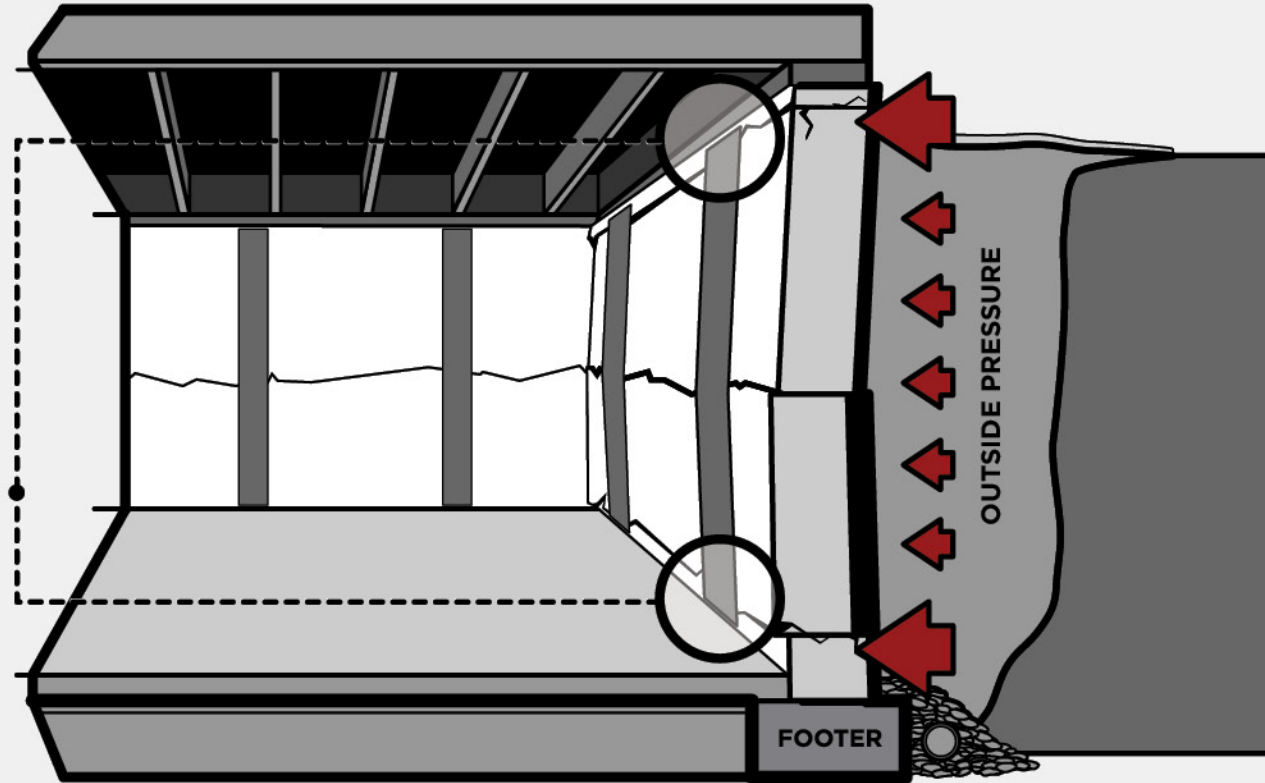


PROBLEM AREA
WALL SHEARING OCCURS

CARBON FIBER SHEETS

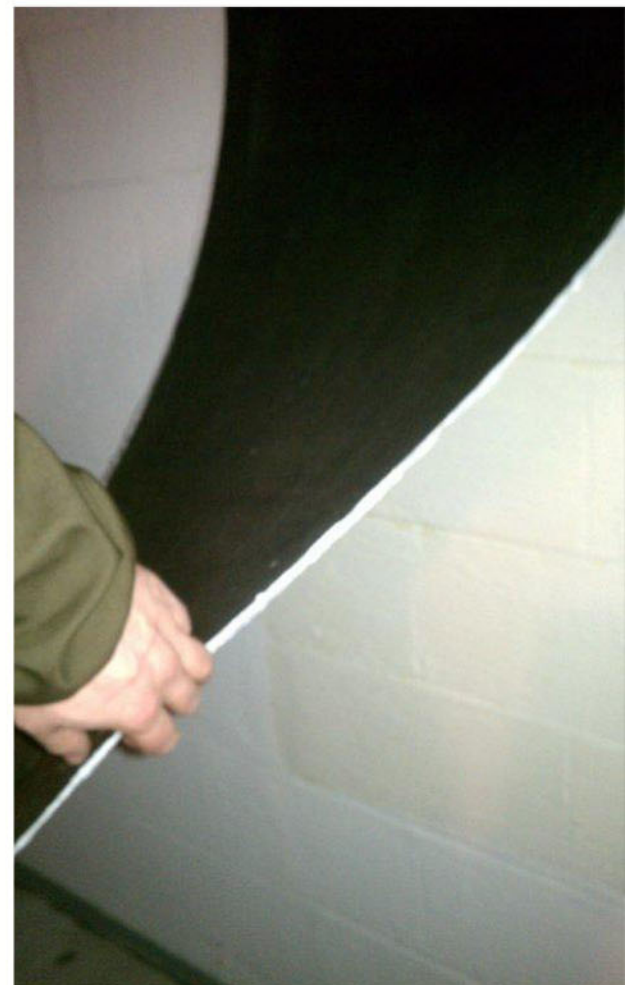
12 INCH WIDE STRIPS

- No connection to sill plate or floor
- Damage continues at top/bottom of wall
- No horizontal strength
- Messy installation





CARBON FIBER SHEETS



stablwallcarbonfiber.com

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NO HASSLE! Return Policy
Order Your Repair Kit!
866-782-5955
Visit Our Blog | Order Now!

Home How It Works + Advantages + Diagnose + Homeowners Contractors Gallery NEW FAQ Contact Us

Are Your Basement Walls Bowing?

Get Your Repair Kit Today!

Thin as a dime,
10X stronger than steel!

CARBON FIBER SHEETS
STABLOW
EVERDRIY

www.stablwall.com

JOIST
WALL
FLOOR

Hang a string with a weight so it just touches the wall where it bows the most.

Measure the distance from the bottom of the wall to the string. That is the total deflection of the wall.

Can we help? Can we help?

Thanks for coming back. Is there anything I can do to help?

Message Message

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Marketing Toolbox - Fiber x fiber lock foundation - Go x

www.fiberlock.com/marketingtools/

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Professional Products... Professional Results

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Fiberlock TECHNOLOGIES
Product Marketing Resources

A - F G - L M - R S - Z

Low Resolution Images: Right Click Image and Click Save As
High Resolution Images: Click Download Button

A - F

ABC - Asbestos Binding Compound

6421-Off-White, 6422-Clear, 6423-Green

Asbestos Overview
Asbestos Product Reference

PDS
MSDS:
• 6421 | 6422 | 6423
Labels:
• 6421 | 6422 | 6423
10 Point Specification

More About Fiberlock

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Where to Buy

Products by Industry
Mold Remediation
Lead Abatement
Asbestos Abatement
Healthcare
Disaster Restoration
JanSan

Resources
(Regulations and Guidelines)
S520
EPA
CDC
IAQA
VOC Guidelines
Green Products

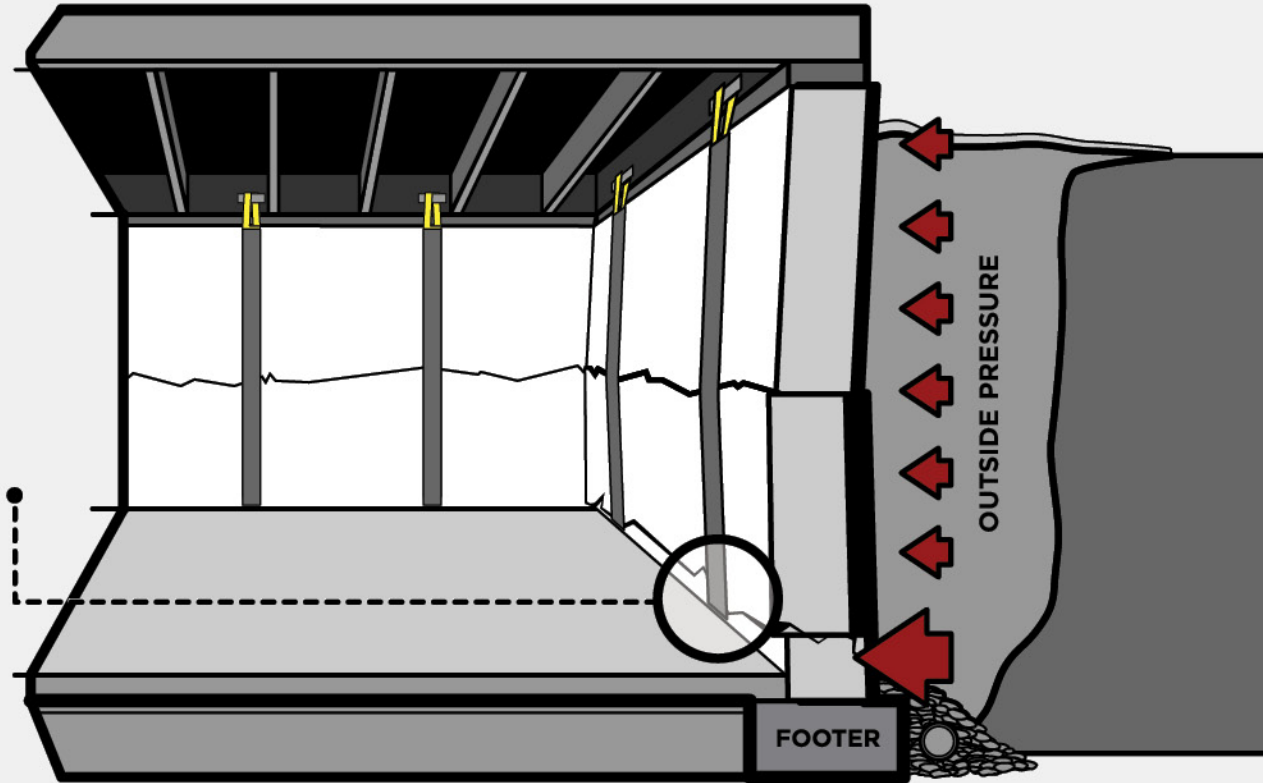




PROBLEM AREA
WALL SHEARING OCCURS

CARBON FIBER KEVLAR WEAVE 5 INCH WIDE STRIPS

- Movement at necktie attachment
- No connection to floor
- Damage continues at top/bottom of wall
- Minimal horizontal strength





CARBON FIBER KEVLAR WEAVE

- MOVEMENT AT NECKTIE ATTACHMENT
- NO CONNECTION TO FLOOR
- DAMAGE CONTINUES AT TOP/BOTTOM OF WALL
- MINIMAL HORIZONTAL STRENGTH



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Fortress Stabilization's carbon-fiber kevlar sheet product line for construction applications

http://www.fortressstabilization.com/products.php

Google Maps

Anchoring Fou... PowerBrace.ne... Basement wall... Foundation Re... Fortress Stabli...

Fortress

STABILIZATION SYSTEMS

STRUCTURAL COMPOSITE TECHNOLOGY FROM BRIDGES TO BASEMENTS

HOME COMPANY PRODUCTS PRODUCT USE CONTACT

Homeowners Foundation Issues
Learn about the common foundation and concrete repair issues homeowner face.

Carbon Fiber Grids
For Concrete Applications in Commercial Settings.

Carbon Fiber Grids
For Decorative Concrete Overlay

Reinforcement and Concrete Repair
Carbon-fiber technologies in concrete repair

Foundation Repair
Carbon-fiber technologies in foundation repair applications

Concrete Reinforcement
Carbon-fiber technologies and reinforcement of concrete

Bowed Basement Walls
Carbon-fiber technologies application in the reinforcement of bowed basement walls

Case Studies. Explore the many uses and applications

Products

Fortress Stabilization Systems offers a host of innovative and effective products for the repair and reinforcement of concrete and other structural components for the residential and commercial construction industry.

COUNTERSUNK STAPLE
Crack Control Stitching System

Fortress Stabilization Systems is please to announce our new countersunk staple. Designed to be used with a Concrete Slotter. This Pre-Preg Precured Staple is faster to install and easy to cover. Use less Epoxy resin and improves overall staple procedure.

KEVLAR NECKTIE
Top Wall Anchoring System

Fortress Kevlar Necktie is an Aramid Composite webbing combined with an aluminum bracket and zinc coated lags that laminates into 4020 epoxy resin system. Half of the Aramid webbing is traditional fabric, the other half is pre-preg pre-cured with peel-ply which laminates to the foundation assuring entire strap will load in conjunction. It is designed to attach ...

T-ANCHOR
CARBON FIBER KEVLAR

A pre-cured 90°L-anchor 2" X 2" with 5 carbon tows cross woven with Kevlar. This can be used as a...

TOWSHEET
UNIDIRECTIONAL CARBON FIBER

Carbon Fiber Cloth or Tow Sheet standard unidirectional weave. 150 gsm, 200 gsm or 600 gsm



DIAGRAM >>

CARBON FIBER KEVLAR WEAVE
FORTRESS STABILIZATION SYSTEMS

www.fortressstabilization.com



www.RhinoCarbonFiber.com

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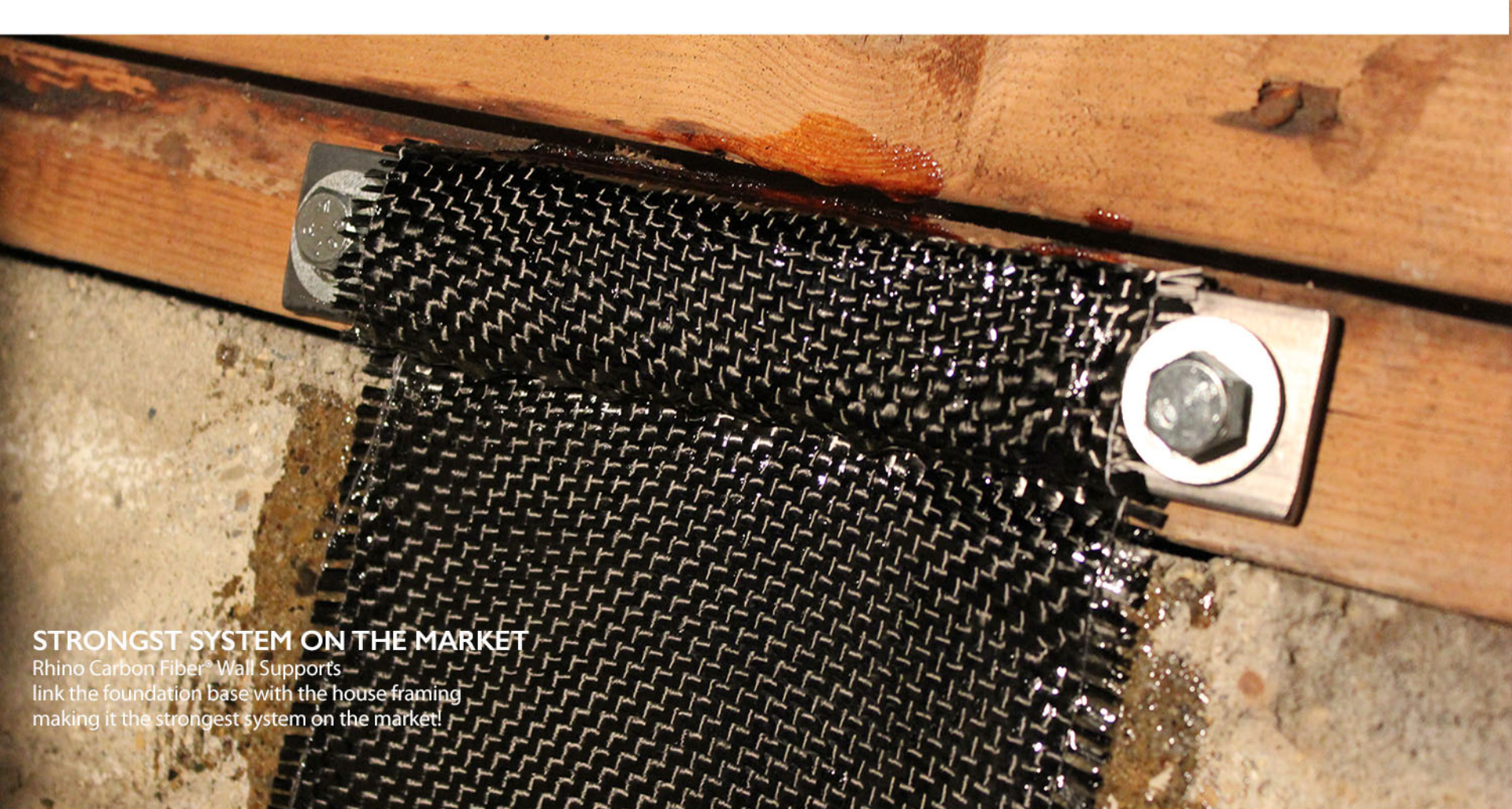
The Most Advanced System Available.

All problems associated with Carbon Fiber have been solved.



www.RhinoCarbonFiber.com

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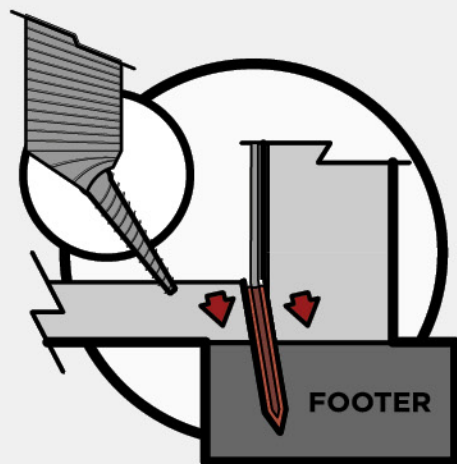
STRONGST SYSTEM ON THE MARKET

Rhino Carbon Fiber® Wall Supports
link the foundation base with the house framing
making it the strongest system on the market!



www.earthcontactproducts.com

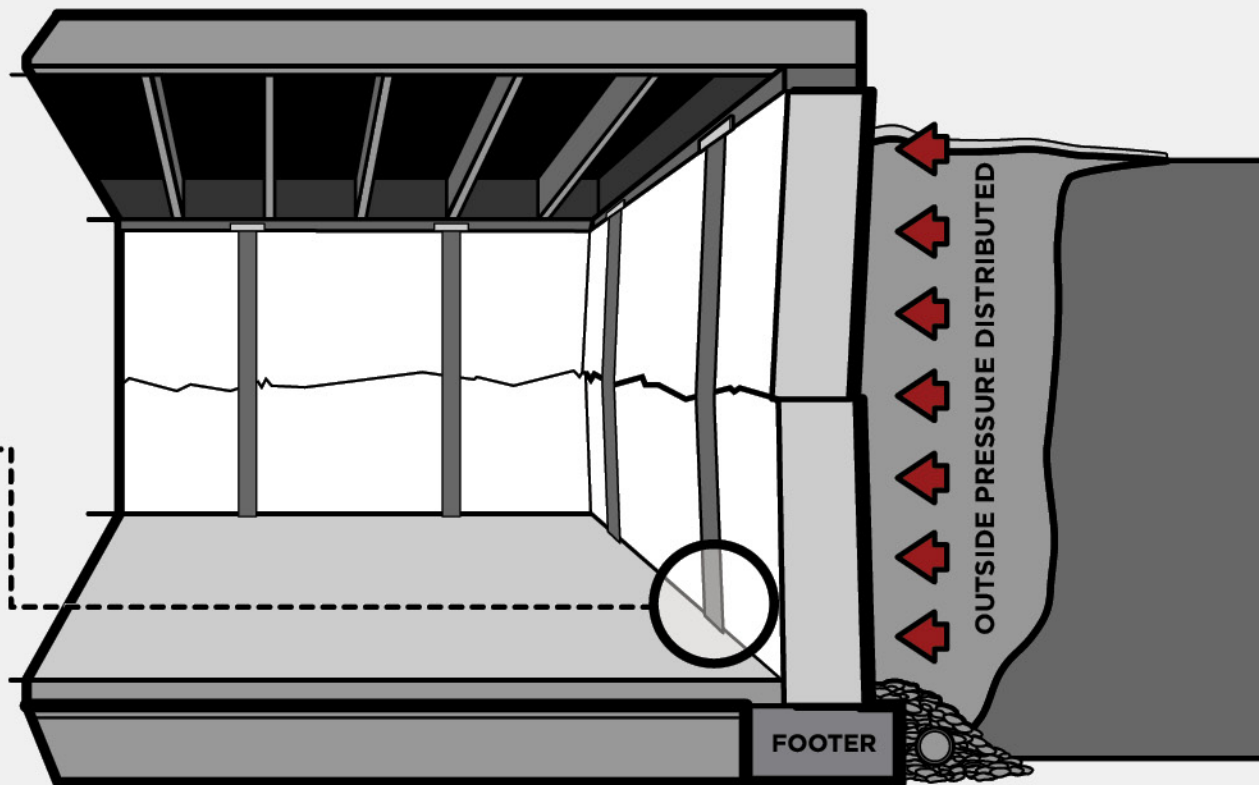
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●
CARBON FIBER PIN
DRILL/EPOXY ANCHORED

RHINO® CARBON FIBER 5 INCH WIDE STRIPS

- Strongest wall repair system available
- No deterioration or rotting
- No movement
- Minimal intrusiveness
- Fast, clean installation

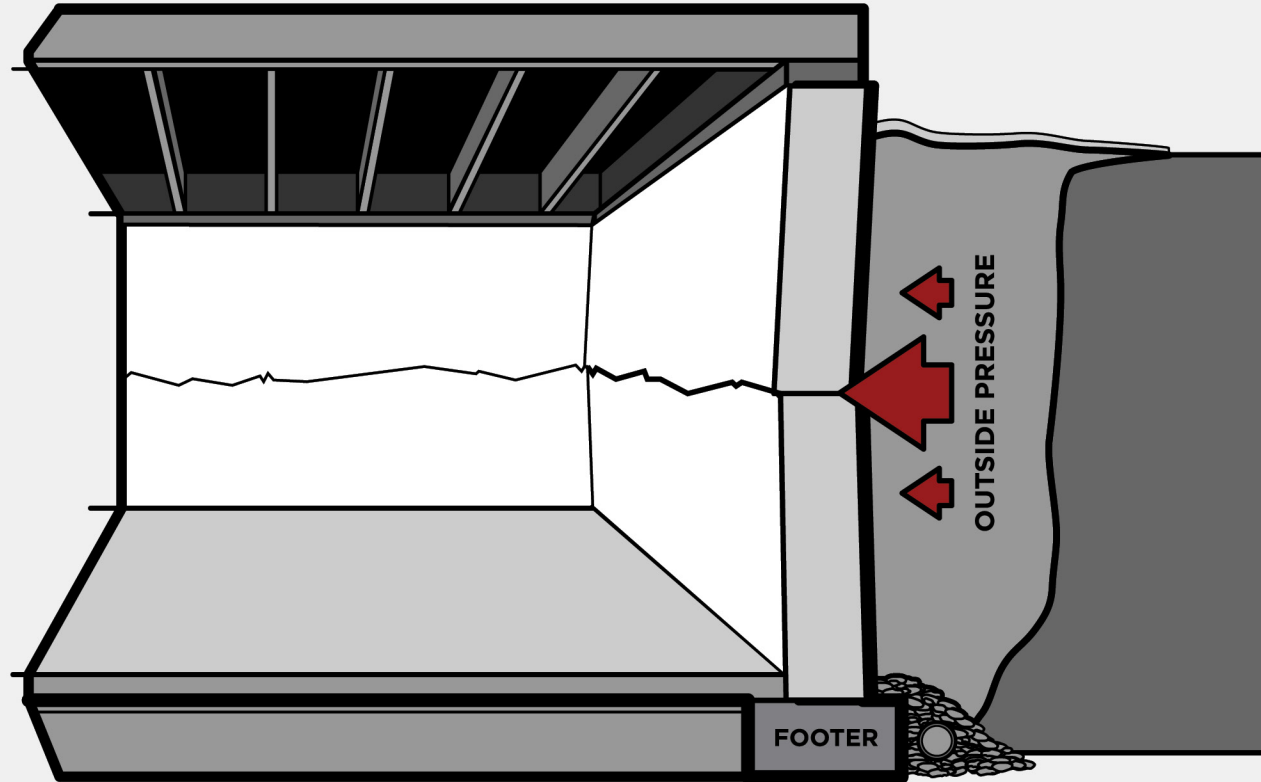


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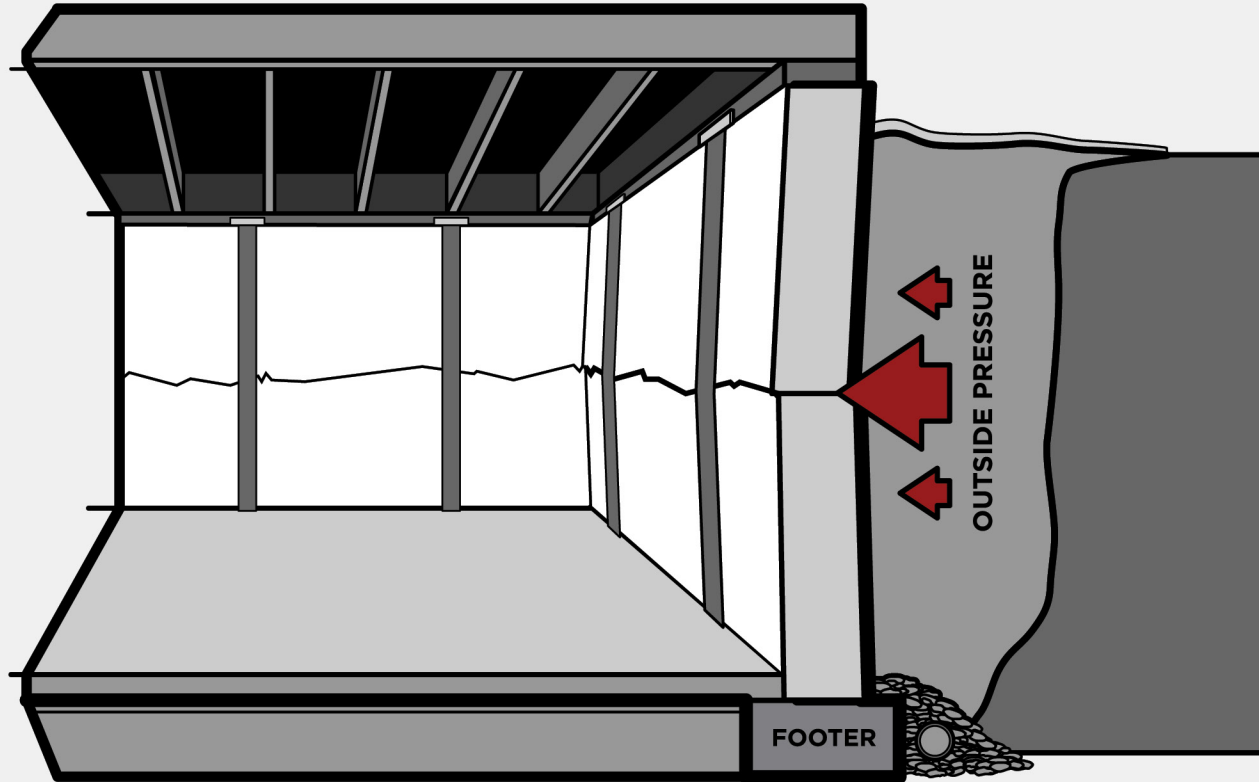
RHINO® CARBON FIBER 5 INCH WIDE STRIPS

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- No deterioration or rotting
- No movement
- Minimal intrusiveness
- Fast, clean installation



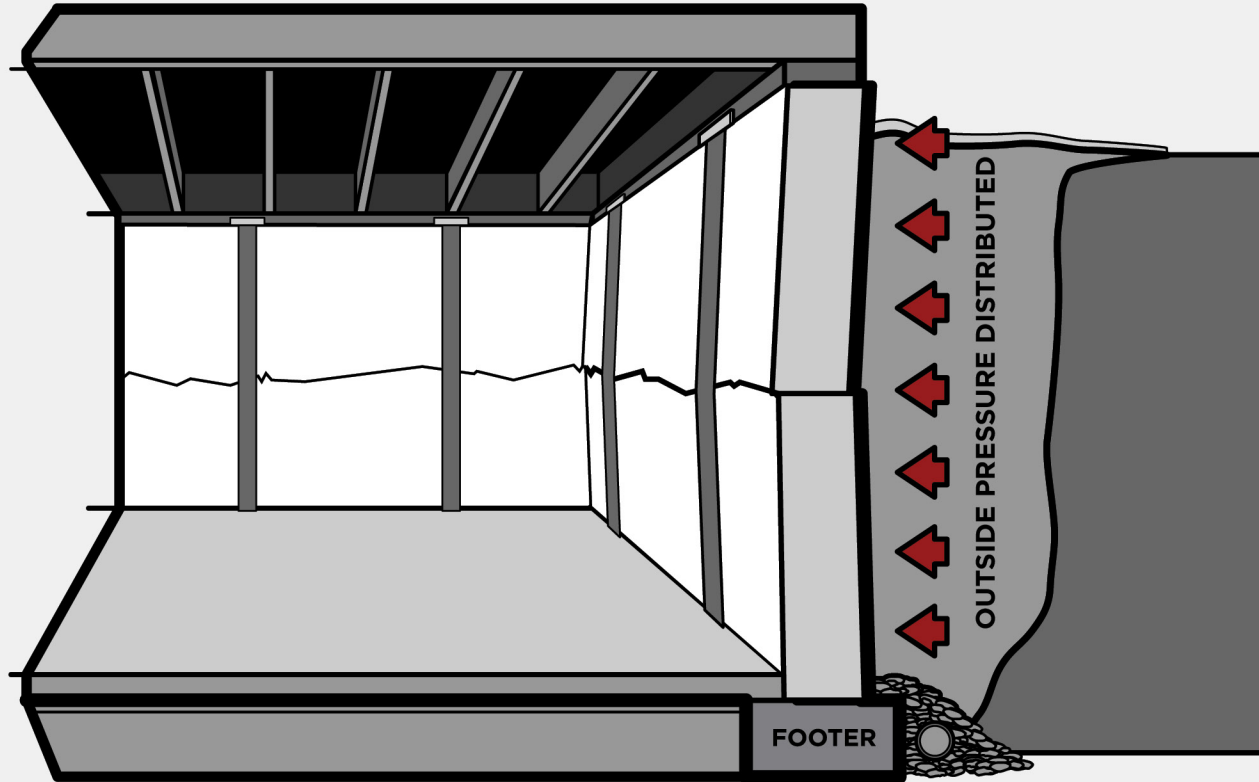
RHINO® CARBON FIBER 5 INCH WIDE STRIPS

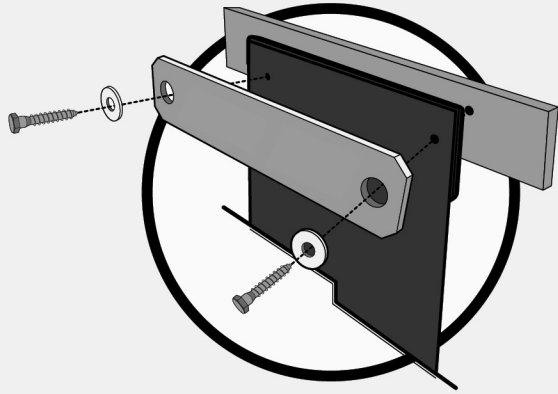
- Strongest wall repair system available
- No deterioration or rotting
- No movement
- Minimal intrusiveness
- Fast, clean installation



**RHINO® CARBON FIBER
5 INCH WIDE STRIPS**

- Strongest wall repair system available
- No deterioration or rotting
- No movement
- Minimal intrusiveness
- Fast, clean installation

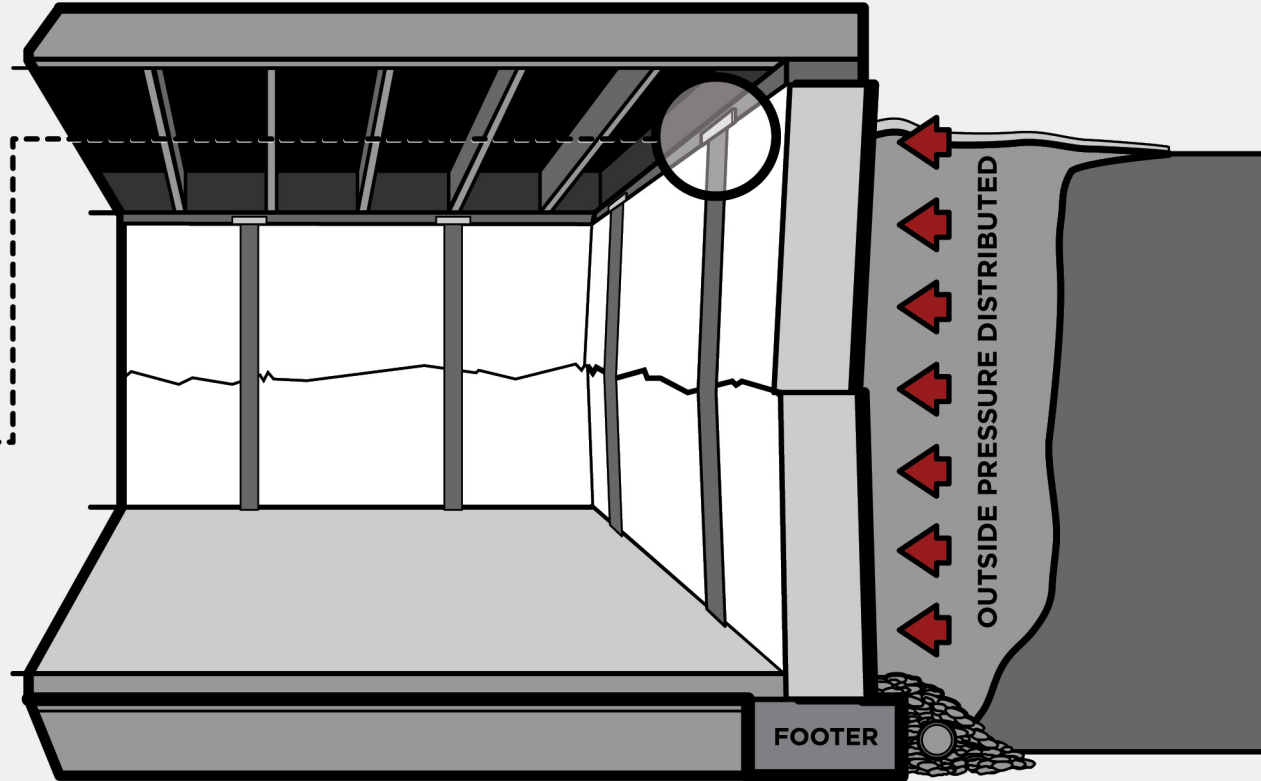




SILL PLATE BRACKET
BOLT/EPOXY SECURED

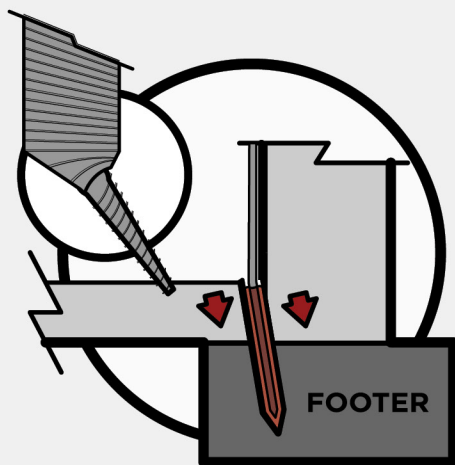
RHINO® CARBON FIBER 5 INCH WIDE STRIPS

- Strongest wall repair system available
- No deterioration or rotting
- No movement
- Minimal intrusiveness
- Fast, clean installation



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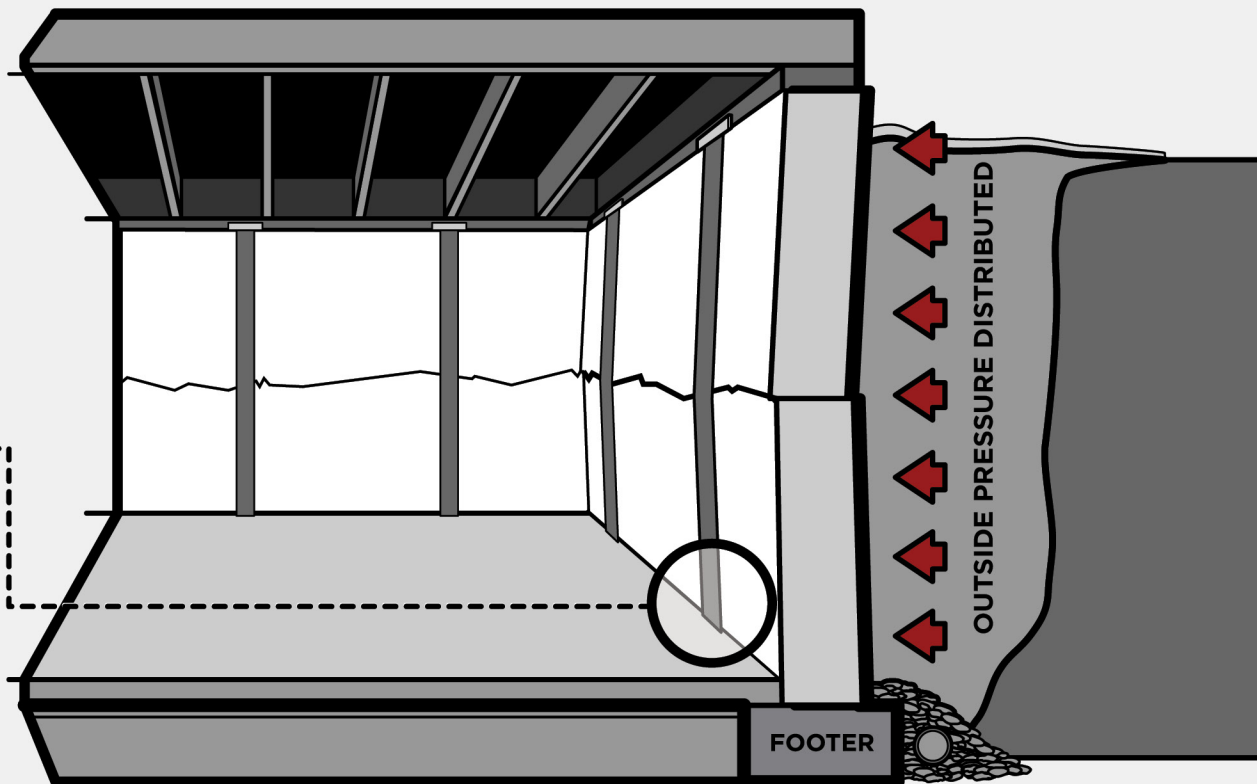
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CARBON FIBER PIN
DRILL/EPOXY ANCHORED

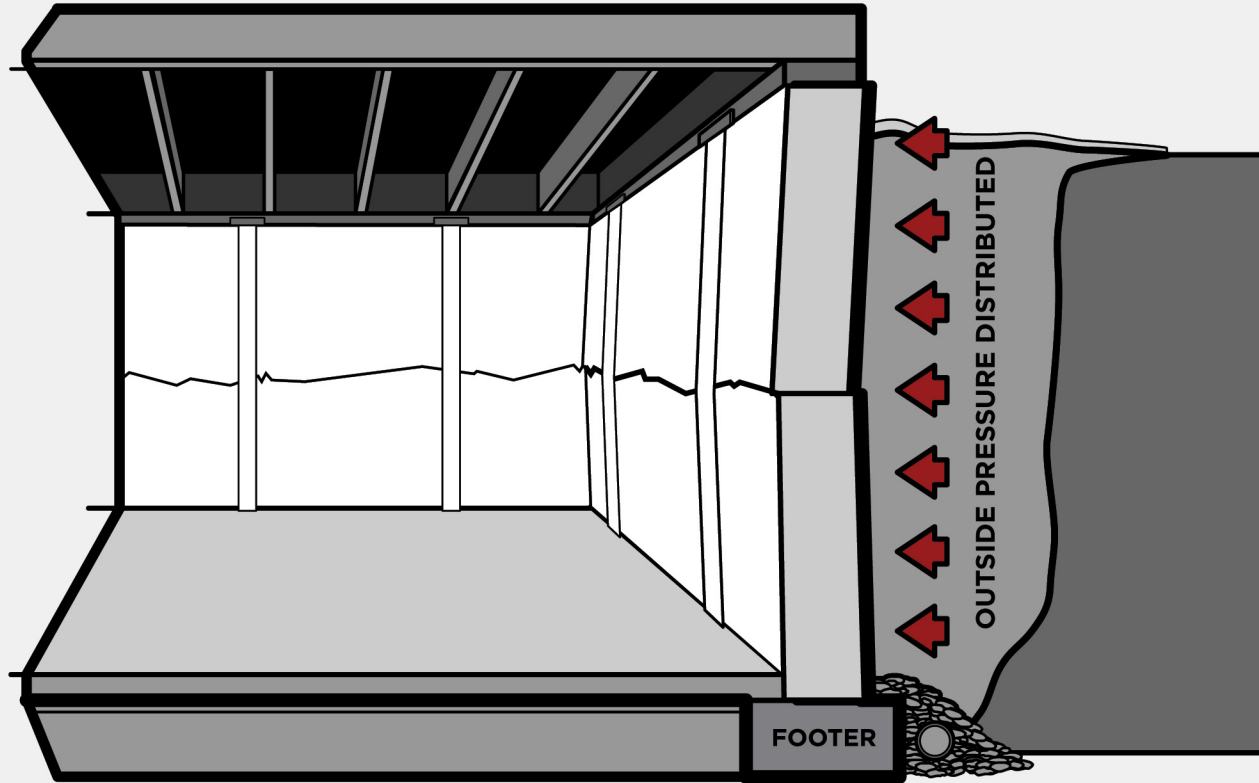
RHINO® CARBON FIBER 5 INCH WIDE STRIPS

- Strongest wall repair system available
- No deterioration or rotting
- No movement
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- Fast, clean installation



RHINO® CARBON FIBER

Rhino® Carbon Fiber can easily be painted to help prevent aesthetic problems with potential buyers...



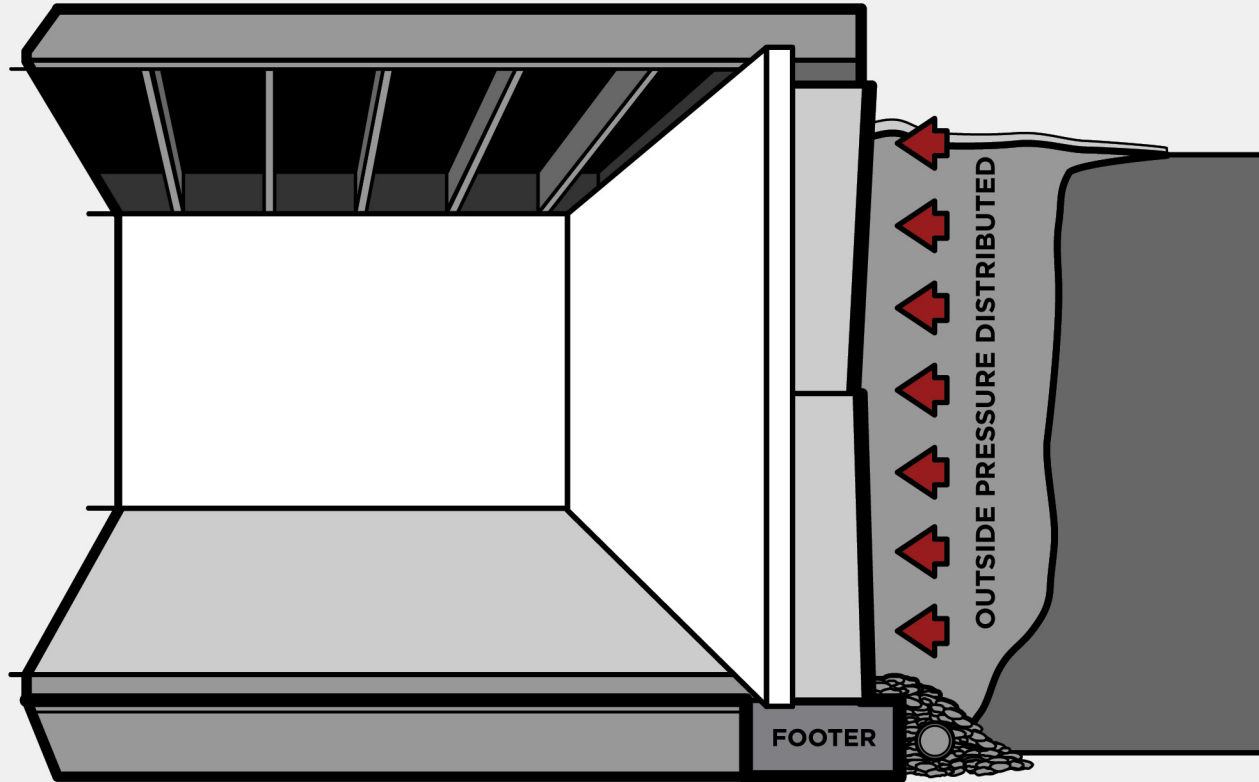
www.RhinoCarbonFiber.com

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RHINO® CARBON FIBER

Rhino® Carbon Fiber can easily be painted to help prevent aesthetic problems with potential buyers...

or covered with white wall panels!



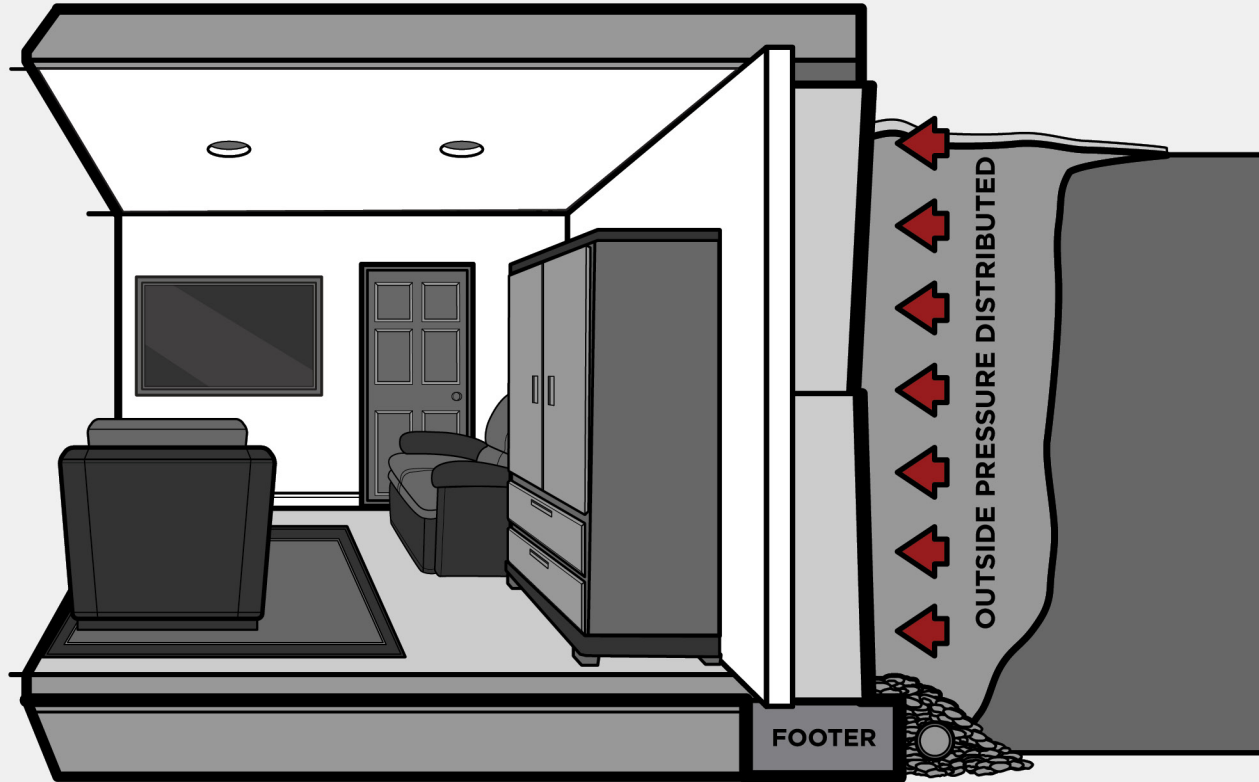
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Rhino® Carbon Fiber can easily be painted to help prevent aesthetic problems with potential buyers...

or covered with white wall panels!



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FAST, CLEAN INSTALLATION

- Prep Wall
- Mount Sill Plate Bracket
- Epoxy To Foundation
- Anchor to Footer



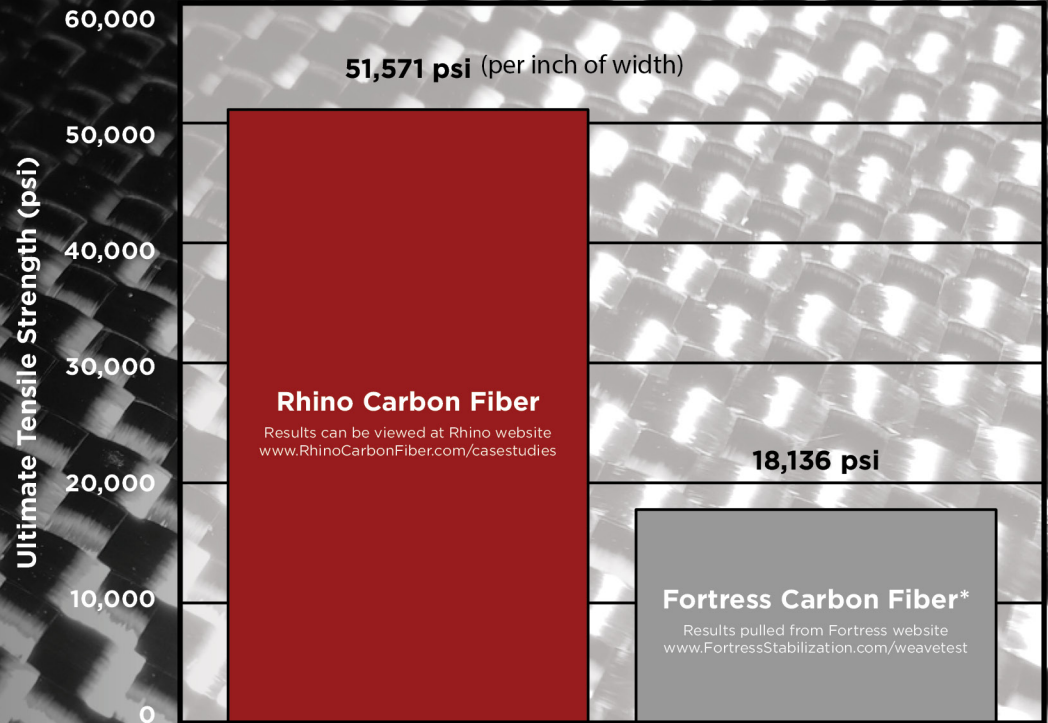
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VERTICAL TENSION TESTING

We offer the best products through research and testing. Our R&D team works with third party vendors to test our products to ensure the highest quality available.

We will help to complete any other testing you require.



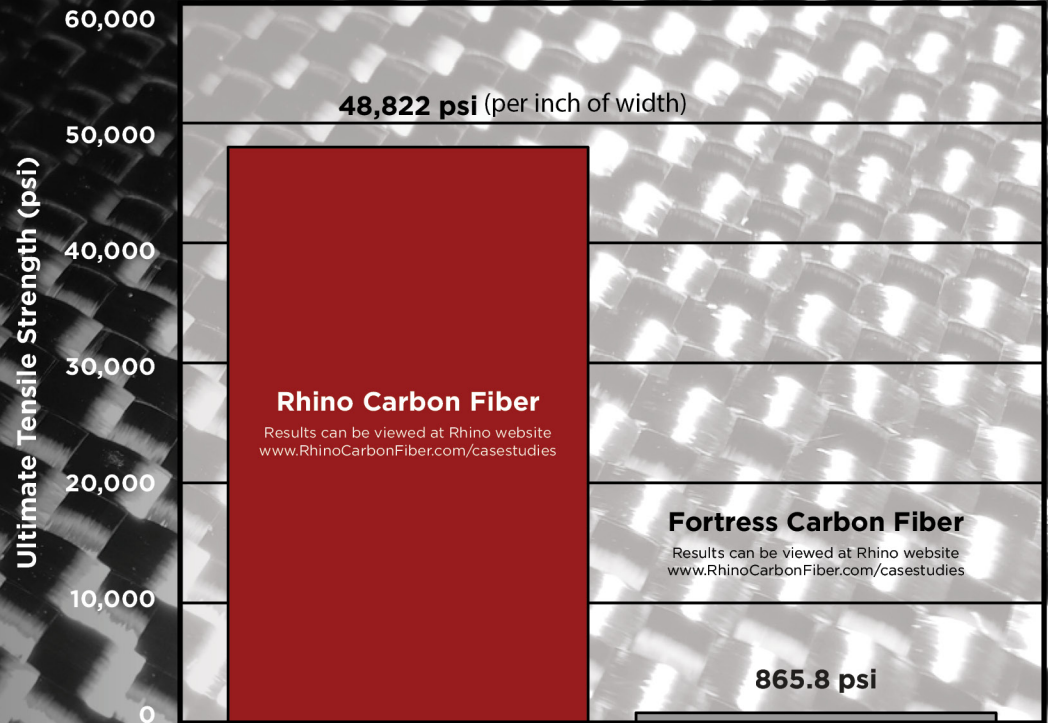
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HORIZONTAL TENSION TESTING

We offer the best products through research and testing. Our R&D team works with third party vendors to test our products to ensure the highest quality available.

We will help to complete any other testing you require.





LIFETIME PRODUCT WARRANTY

Rhino® Carbon Fiber is warranted for the life of the structure. The warranty covers the foundation walls against any further inward movement in areas the product is installed. If issues occur, materials and labor will be replaced at no charge.

Terms and conditions apply.



WATERPROOF!

MAGAZINE

Fall 2010



IN THE MEDIA...

Rhino® Carbon Fiber was featured in the Fall 2010 Waterproof! Magazine article "Working with Carbon Fiber."



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WATERPROOF!

MAGAZINE



"In terms of weight to strength ratio, carbon fiber is currently the best material that our civilization can produce! Far stronger and less bulky than steel, carbon fiber is transforming a broad range of industries, and waterproofing is one of them."

IN THE MEDIA...

Rhino® Carbon Fiber was featured in the Fall 2010 Waterproof! Magazine article "Working with Carbon Fiber."

www.waterproofmag.com/back_issues/201010/working_with_carbon_fiber.php



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WATERPROOF!

MAGAZINE



"Rhino Carbon Fiber Wall Supports goes a step further. The Rhino system provides continuous carbon fiber strength from the foundation all the way up to the house framing. Rhino is fastened above the sill plate with a galvanized bracket and secured to the footing with a massive carbon fiber stake."

IN THE MEDIA...

Rhino® Carbon Fiber was featured in the Fall 2010 Waterproof! Magazine article "Working with Carbon Fiber."

www.waterproofmag.com/back_issues/201010/working_with_carbon_fiber.php



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WATERPROOF!

MAGAZINE



"One potential problem with strapping is that it shifts pressure to the top and bottom of the foundation wall... Transferring soil loads to the top and bottom of the wall may eventually cause additional damage, resulting in more repair work needed. Rhino (Carbon Fiber) eliminates this possibility."

IN THE MEDIA...

Rhino® Carbon Fiber was featured in the Fall 2010 Waterproof! Magazine article "Working with Carbon Fiber."

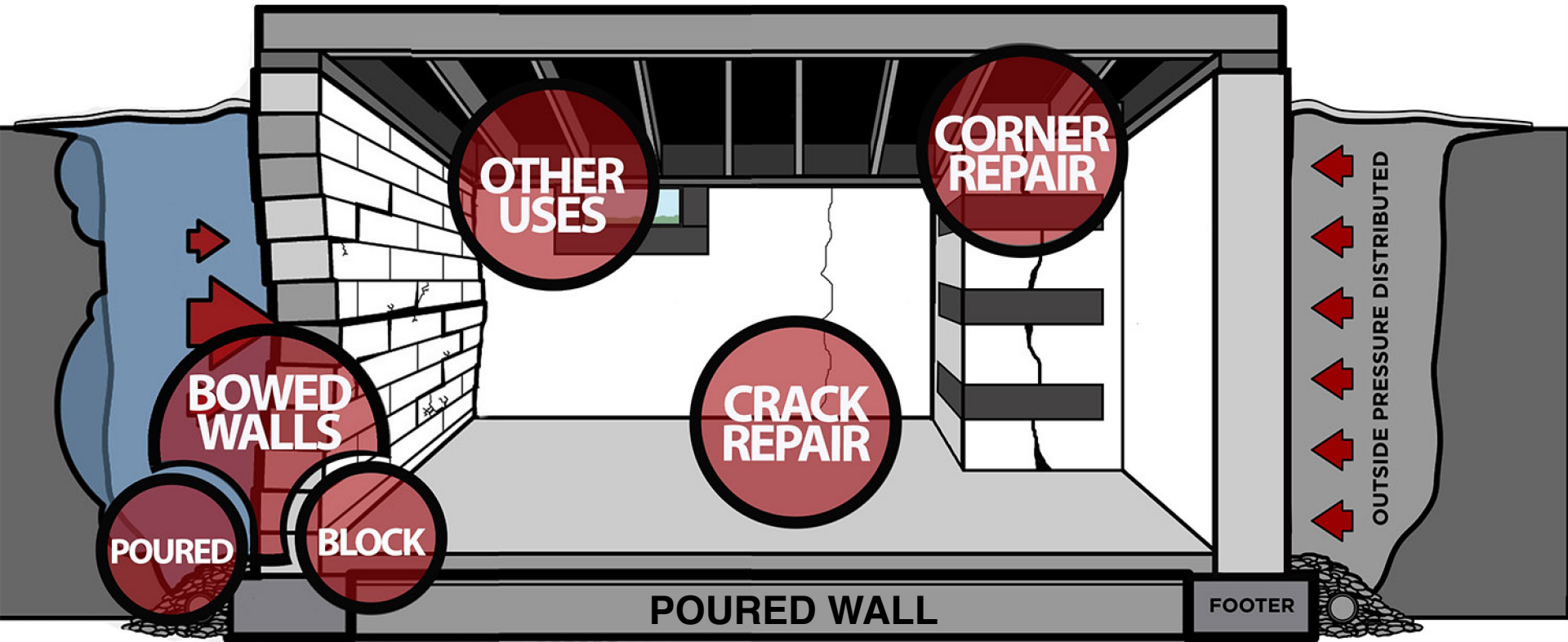
www.waterproofmag.com/back_issues/201010/working_with_carbon_fiber.php



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CHOOSE YOUR FOUNDATION PROJECT TO BEGIN



Corner Wall Repair

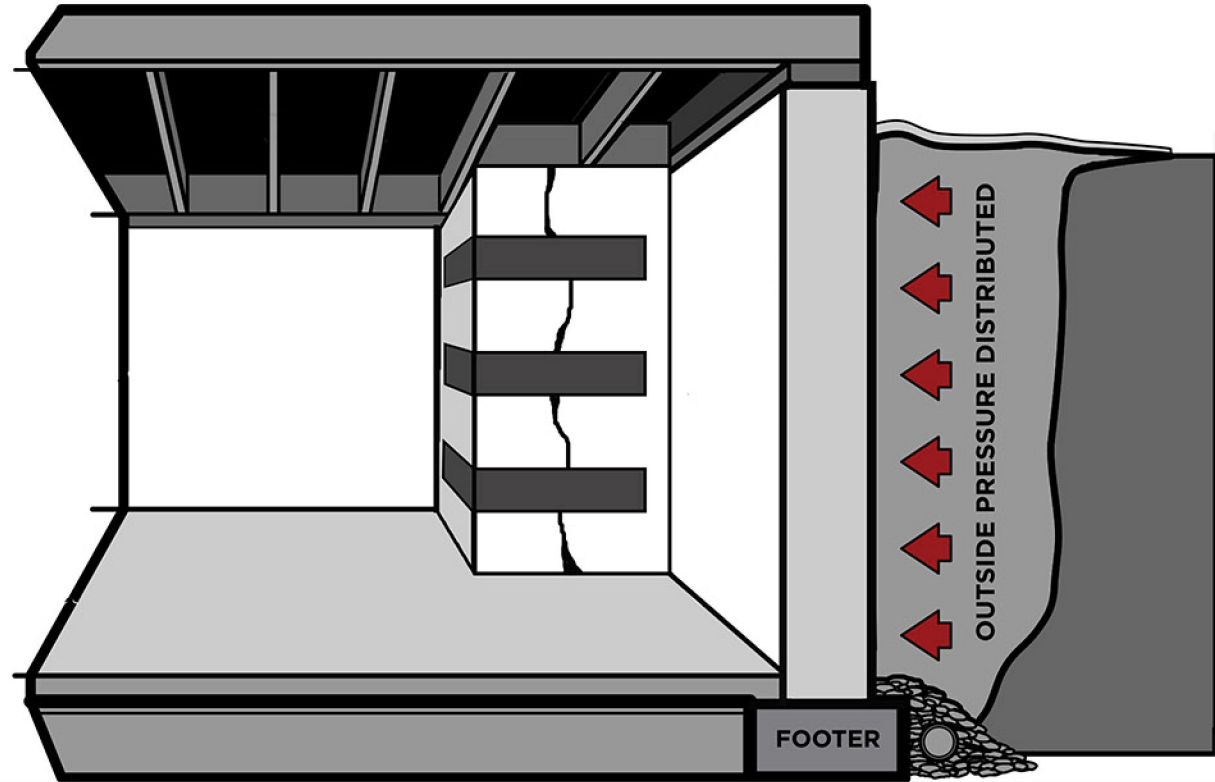
The only carbon fiber system that structurally repairs the corners in your foundation wall and prevents future cracks.



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CORNER REPAIR



CORNER REPAIR SOLUTION

- Distributes the pressure horizontally to correct and prevent future damage
- Works on block and poured walls





CORNER REPAIR SOLUTION

Use Rhino® Carbon Fiber Wall Supports
to fix bowing corners of your foundation.



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CORNER REPAIR SOLUTION

Use Rhino® Carbon Fiber Wall Supports
to fix bowing corners of your foundation.





CORNER REPAIR SOLUTION

Use Rhino® Carbon Fiber Wall Supports
to fix bowing corners of your foundation.



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Rhino Crack Repair Products

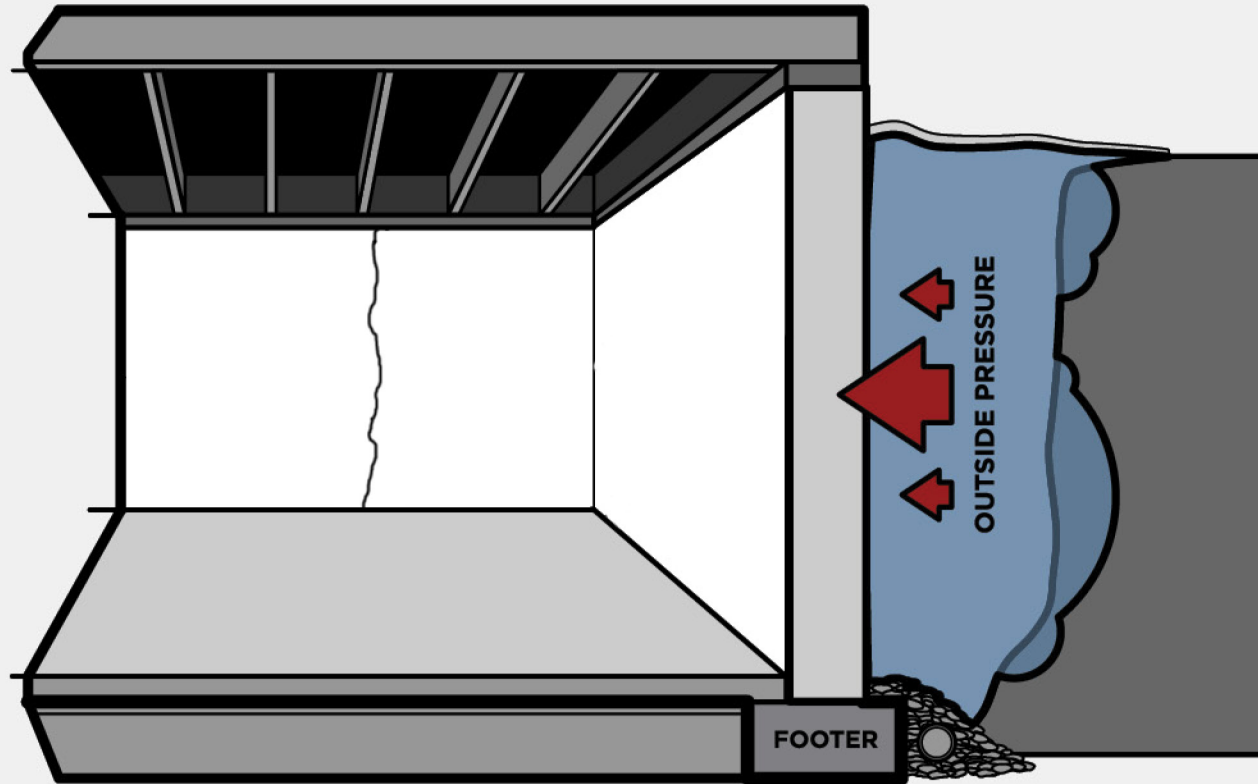
Different options for poured wall crack repair

- Crack Injection
- Carbon Fiber Staples
- Carbon Fiber Rebar
- Carbon Fiber



POURED WALL FOUNDATION CRACKS

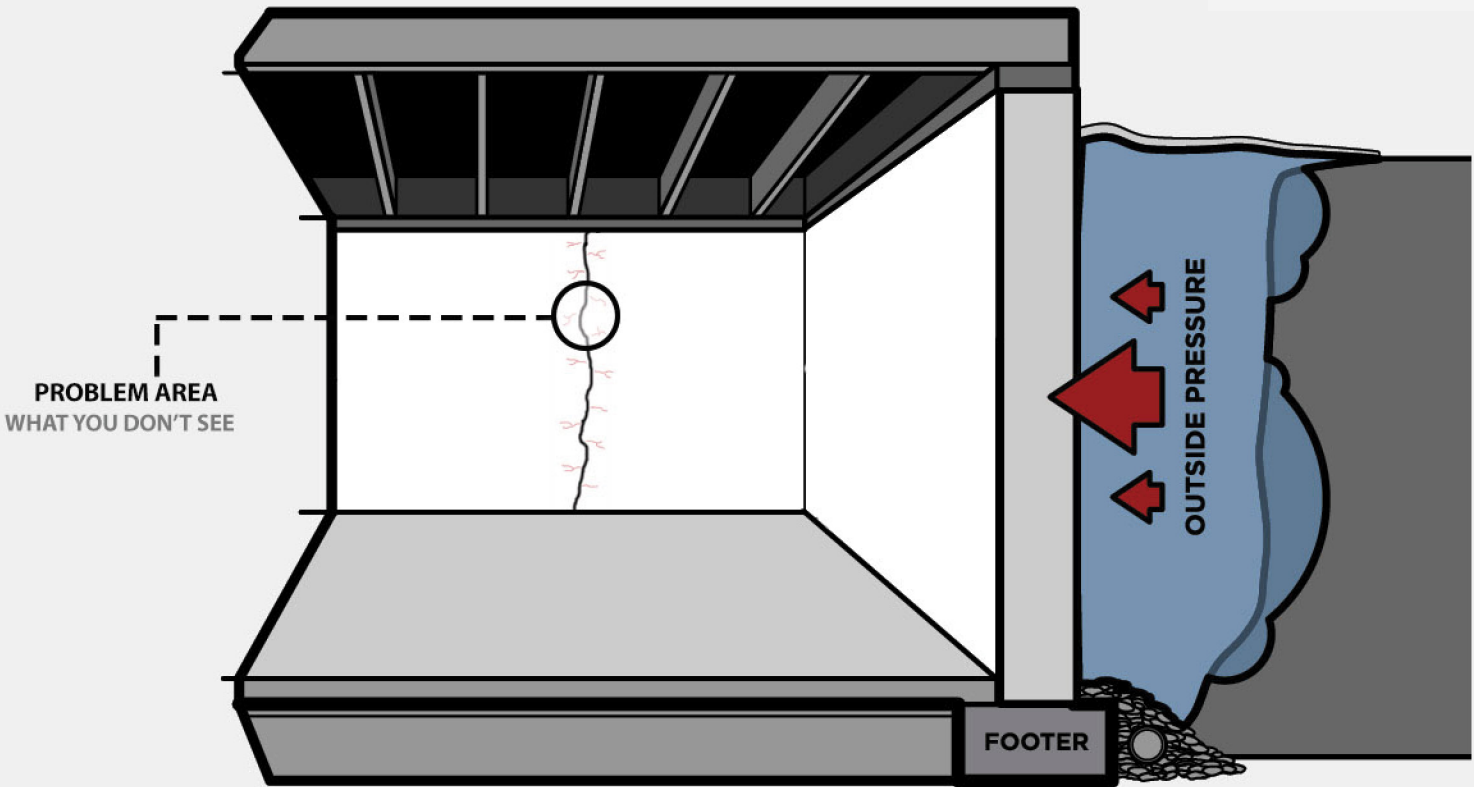
Cracks develop in concrete over time



CRACK REPAIR OPTIONS

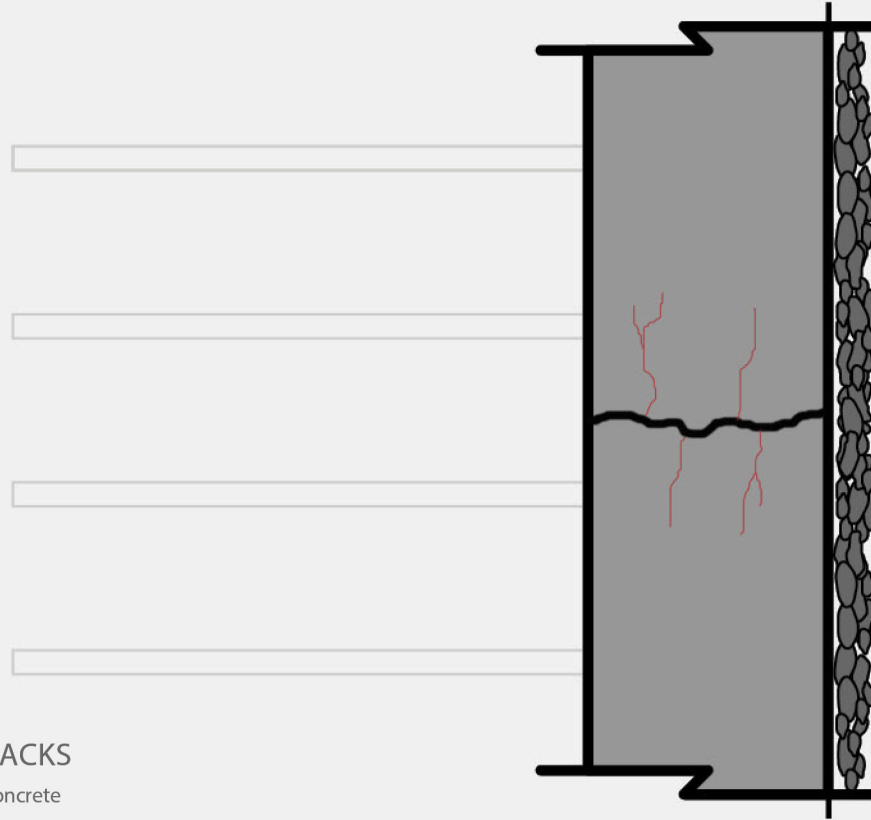
- WALL CRACK
- CRACK INJECTION
- CARBON FIBER STAPLES
- CARBON FIBER
- CARBON FIBER REBAR
- EVERYTHING
- OTHER USES

TOP VIEW



FOUNDATION CRACKS

- Hair line fractures both ways
- Concrete is now weekend next to crack



POURED WALL FOUNDATION CRACKS

Top view, small hairline fractures develop inside concrete

CRACK REPAIR OPTIONS

WALL CRACK

CRACK INJECTION

CARBON FIBER STAPLES

CARBON FIBER

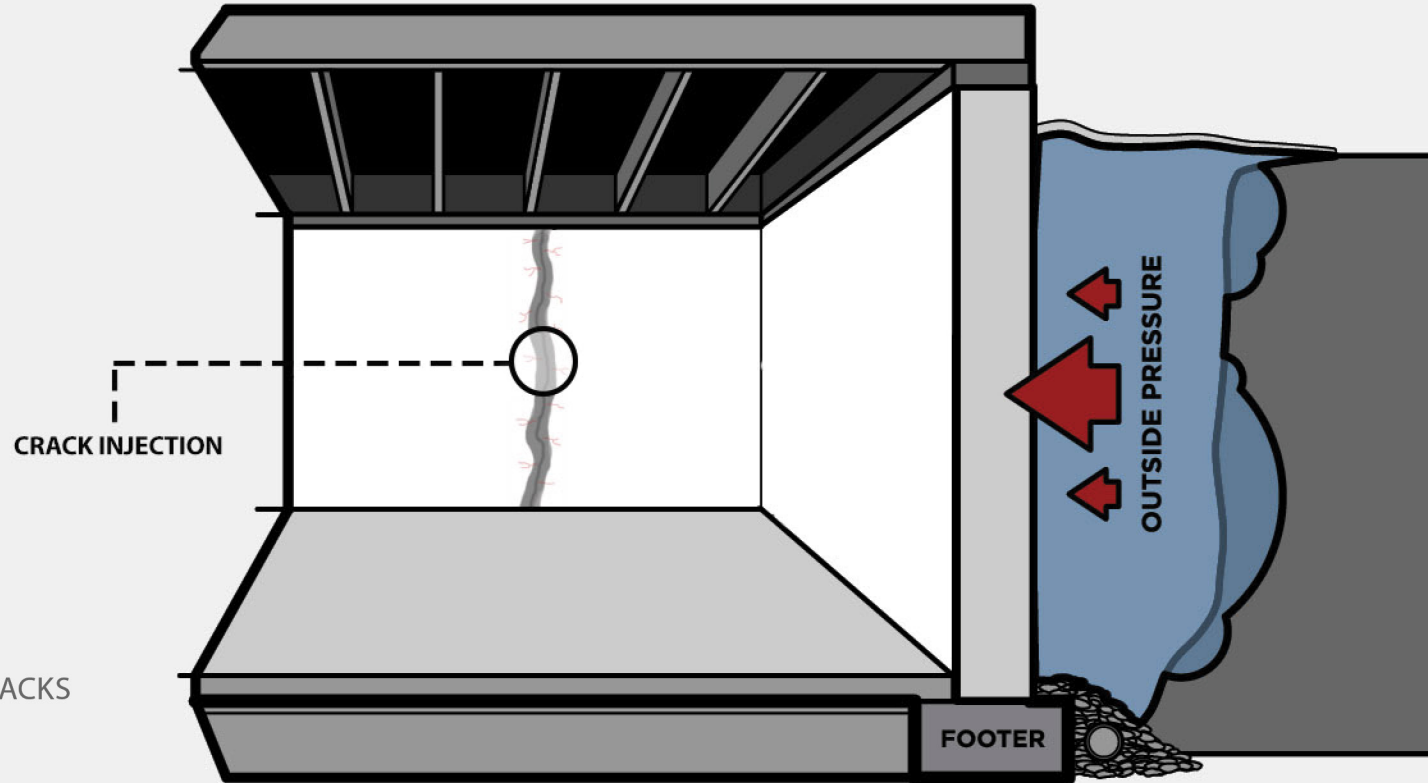
CARBON FIBER REBAR

EVERYTHING

OTHER USES

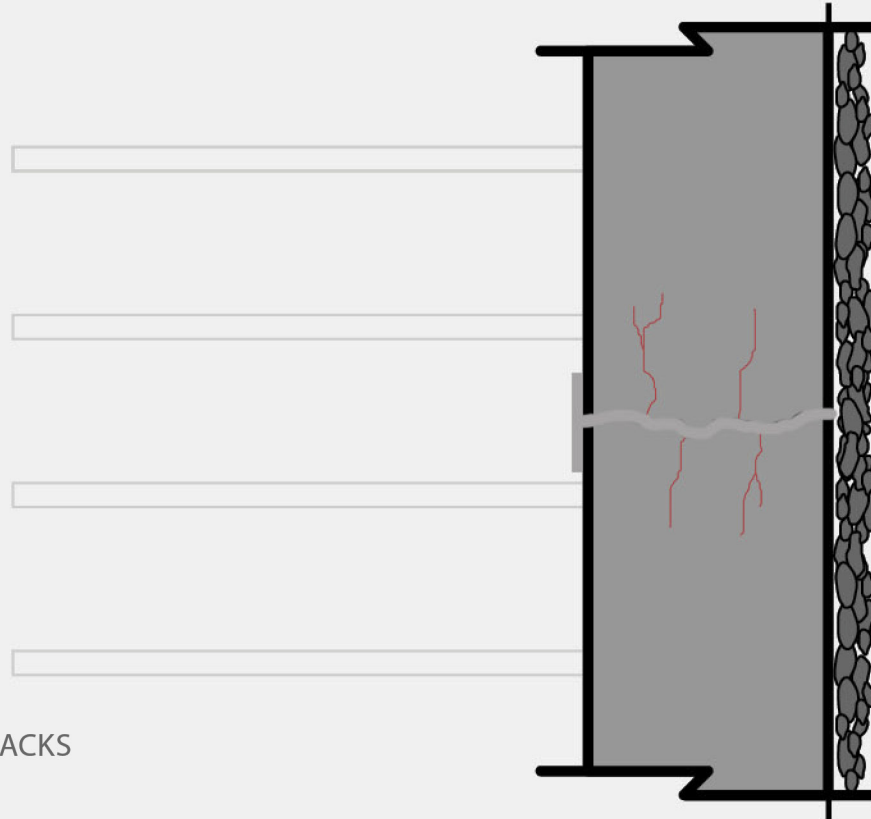
TOP VIEW

EXAMPLE



POURED WALL FOUNDATION CRACKS

Crack injection does not address hairline fractures



POURED WALL FOUNDATION CRACKS

Crack injection does not address hairline fractures

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CRACK REPAIR OPTIONS

WALL CRACK

CRACK INJECTION

CARBON FIBER STAPLES

CARBON FIBER

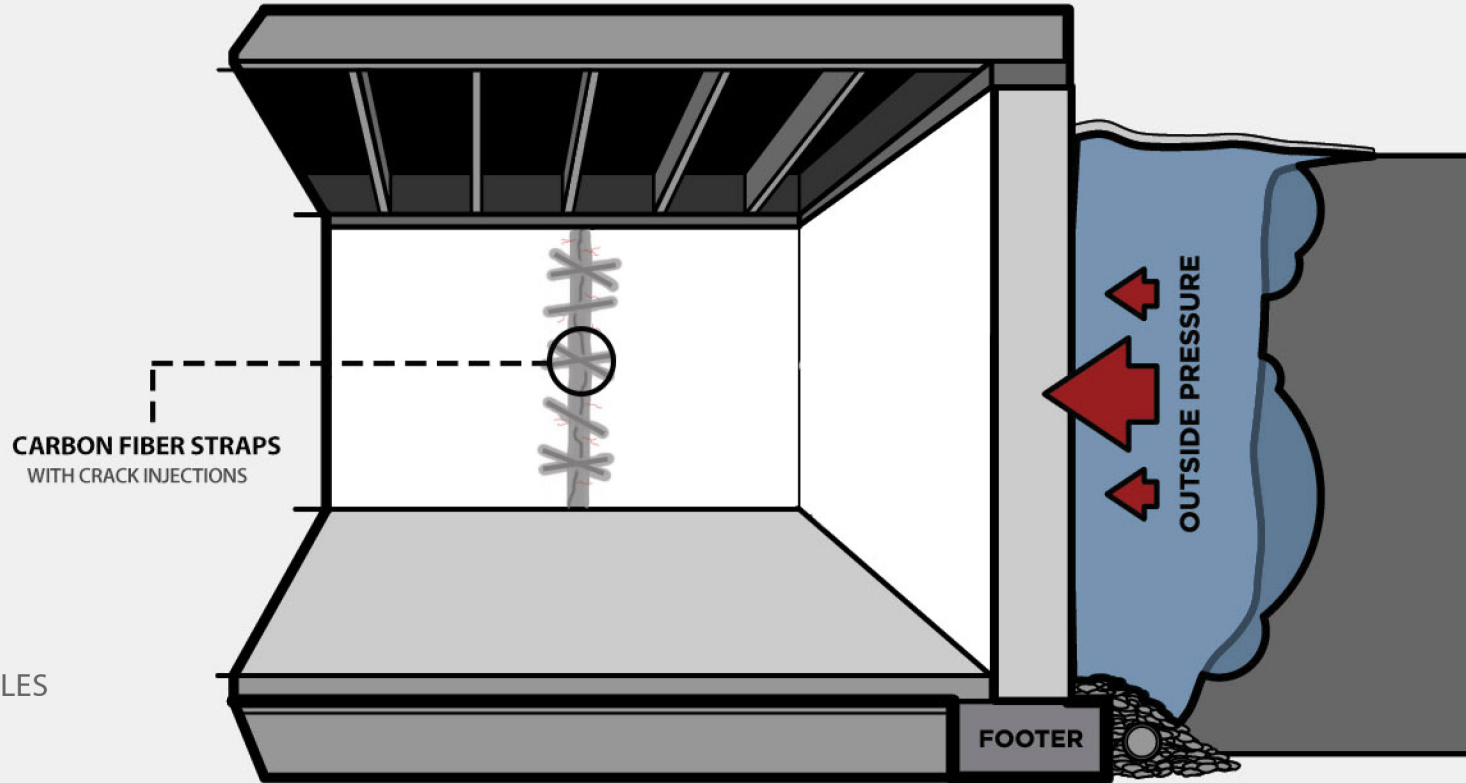
CARBON FIBER REBAR

EVERYTHING

OTHER USES

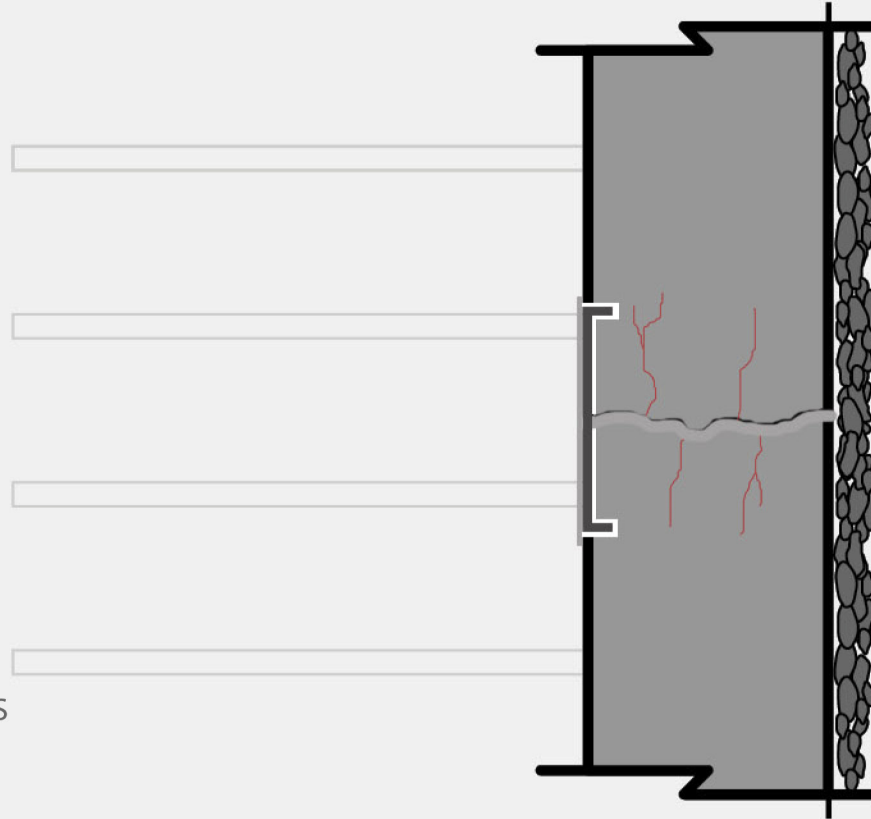
TOP VIEW

EXAMPLE



CRACK INJECTION WITH STAPLES

- Reinforces fractured areas
- Spans fractured area
- Reduces service calls



CRACK INJECTION WITH STAPLES

- Reinforces fractured areas
- Spans fractured area
- Reduces service calls



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CRACK REPAIR OPTIONS

WALL CRACK

CRACK INJECTION

CARBON FIBER STAPLES

CARBON FIBER

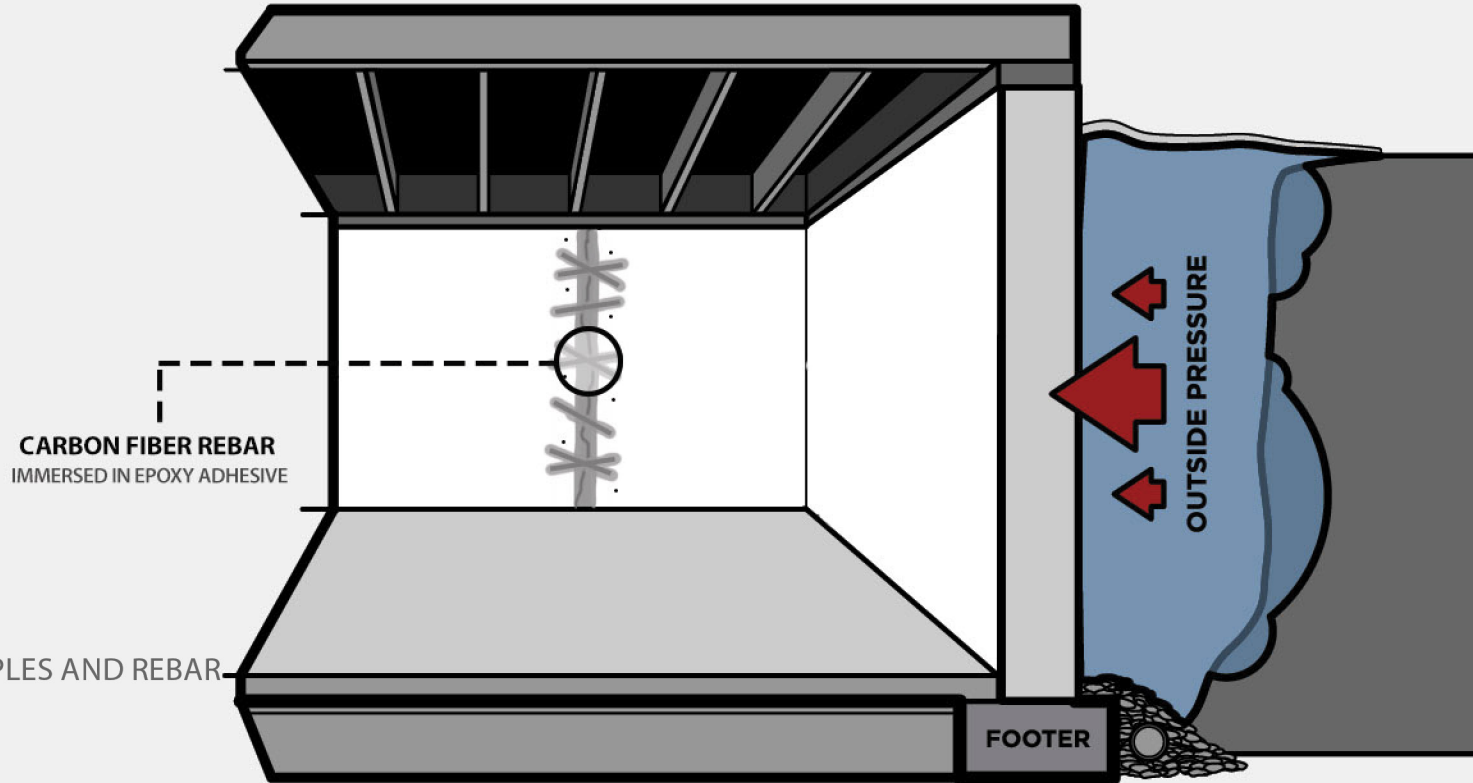
CARBON FIBER REBAR

EVERYTHING

OTHER USES

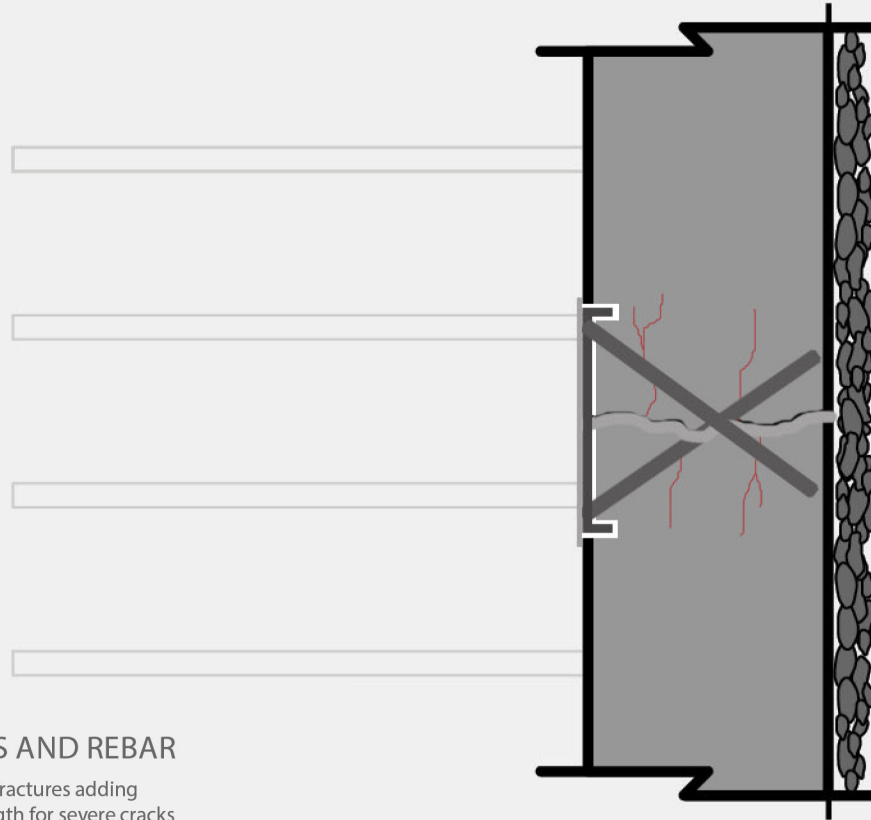
TOP VIEW

EXAMPLE



CRACK INJECTION WITH STAPLES AND REBAR

- Additional support for servere cracks
- Reinforces fractured areas
- Spans fractured area
- Reduces service calls



CRACK INJECTION WITH STAPLES AND REBAR

Crack injection by itself does not address hairline fractures adding carbon fiber staples and rebar will add extra strength for severe cracks

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CRACK REPAIR OPTIONS

WALL CRACK

CRACK INJECTION

CARBON FIBER STAPLES

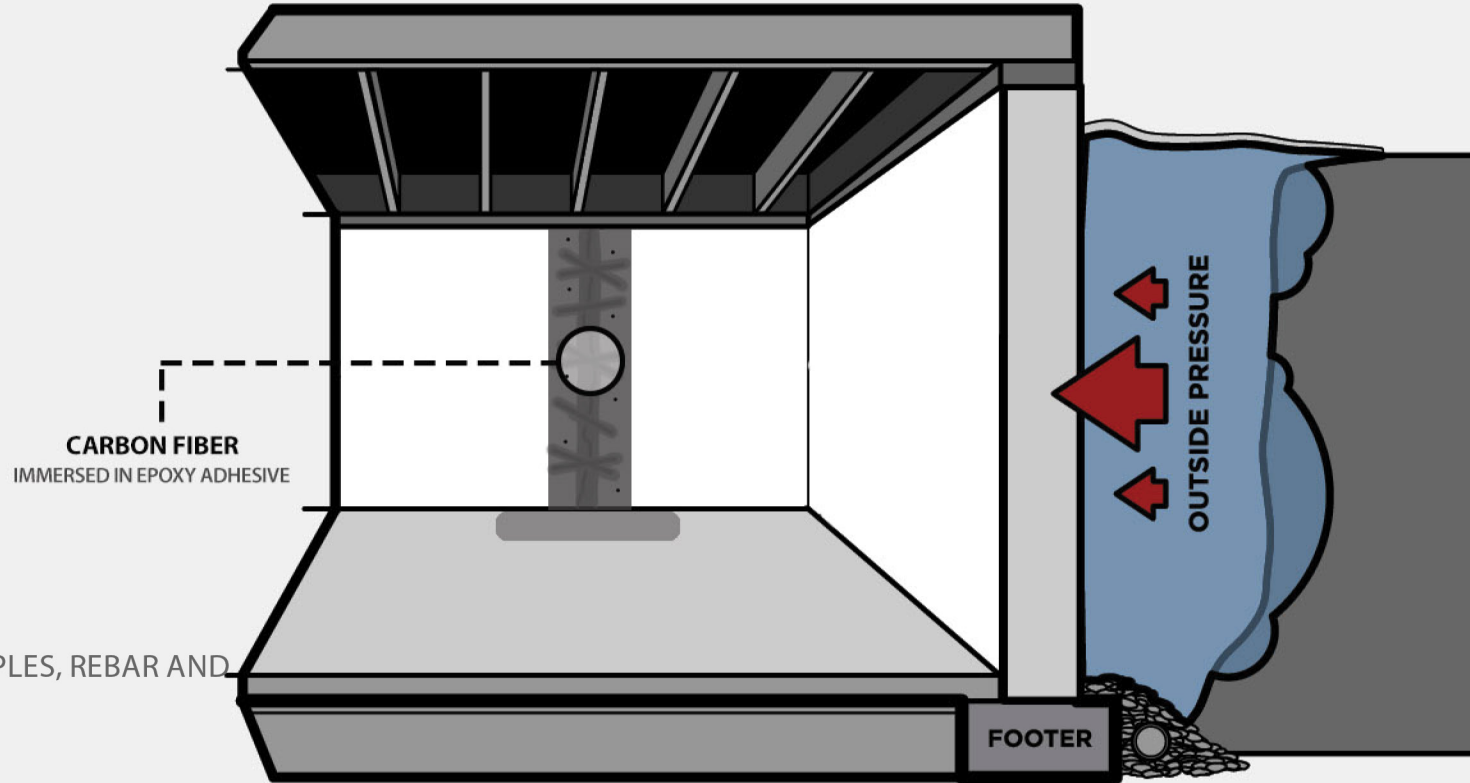
CARBON FIBER

CARBON FIBER REBAR

EVERYTHING

OTHER USES

EXAMPLE



CRACK INJECTION WITH STAPLES, REBAR AND CARBON FIBER STRAP

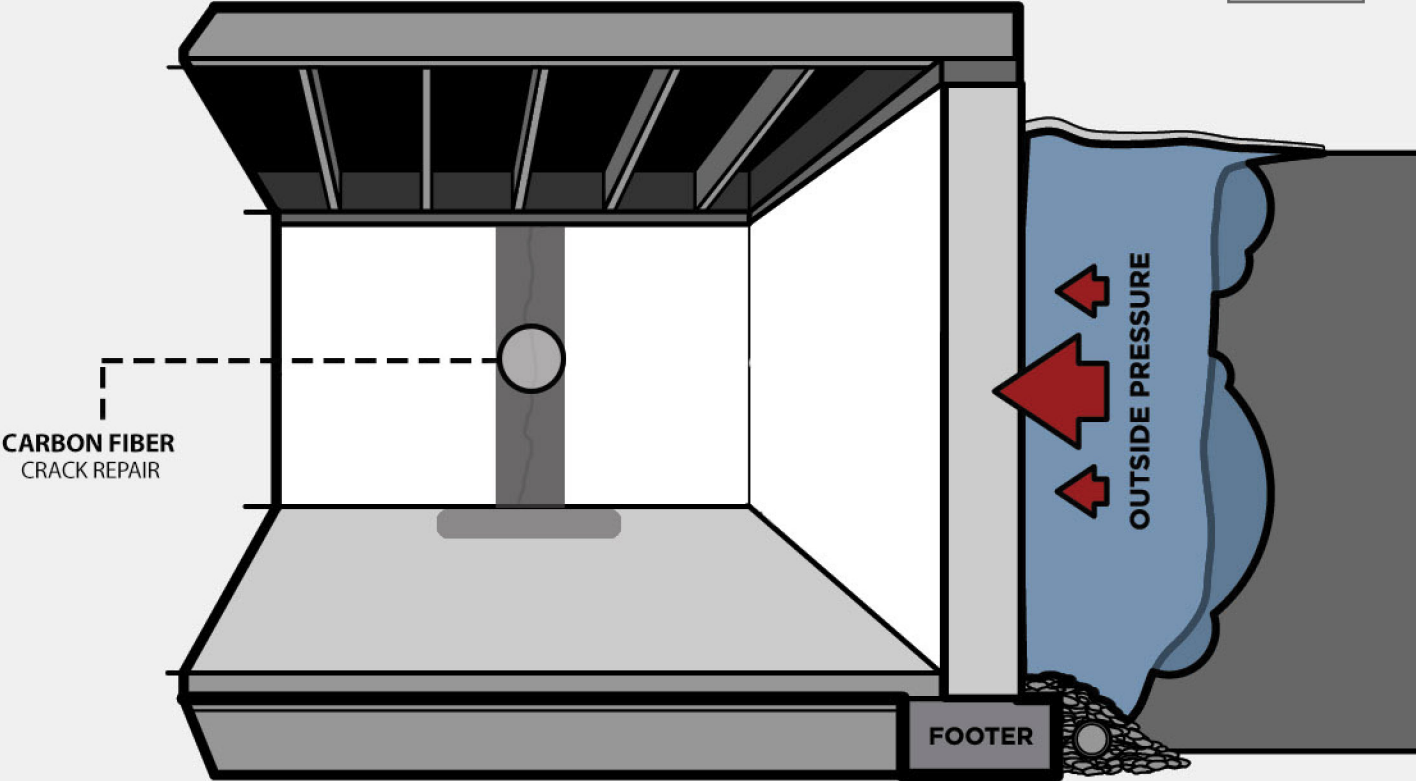
- Additional support for severe cracks
- adding carbon fiber ties the work together

CRACK REPAIR OPTIONS

- WALL CRACK
- CRACK INJECTION
- CARBON FIBER STAPLES
- CARBON FIBER
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EXAMPLE



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Other Products



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Other Rhino Product Uses

With wall tie back and piercing systems, cracked walls, broken corners, crawlspaces, egress windows and strengthening headers





WALL TIE BACK SOLUTION

Rhino® Carbon Fiber Wall Supports
can be used with Wall Tie Backs
for added strength when fixing bowed walls.





WALL TIE BACK SOLUTION

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can be used with Wall Tie Backs
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ADDITIONAL USES
•CRAWLSPACES



ADDITIONAL USES
•COMMERCIAL PROJECTS



ADDITIONAL USES
•EGRESS WINDOWS



ADDITIONAL USES
•HEADER REINFORCEMENT



ADDITIONAL USES
•OPENING REINFORCEMENT FOR A CMU WALL

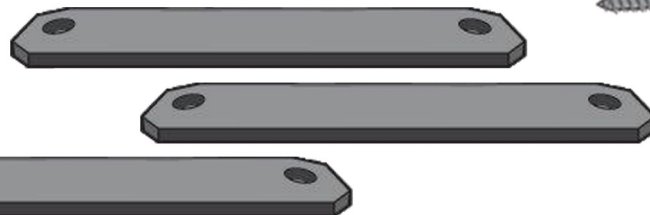
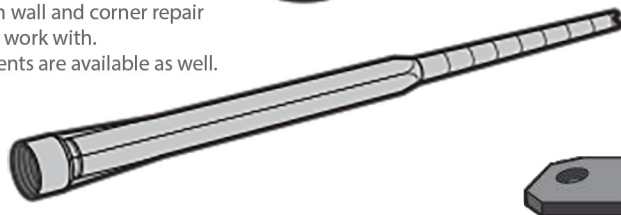


ADDITIONAL USES
•OPENING REINFORCEMENT FOR A CMU WALL



WALL REPAIR KITS

We offer foundation wall and corner repair kits that are easy to work with. Individual components are available as well.



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