## **RHINO CARBON FIBER™ BOWED WALL INSTRUCTIONS** U.S. Patent No. 8,584,431 | Canadian Patent No. 2,738,005

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### WHAT COMES IN THE BOWED WALL REPAIR KIT?





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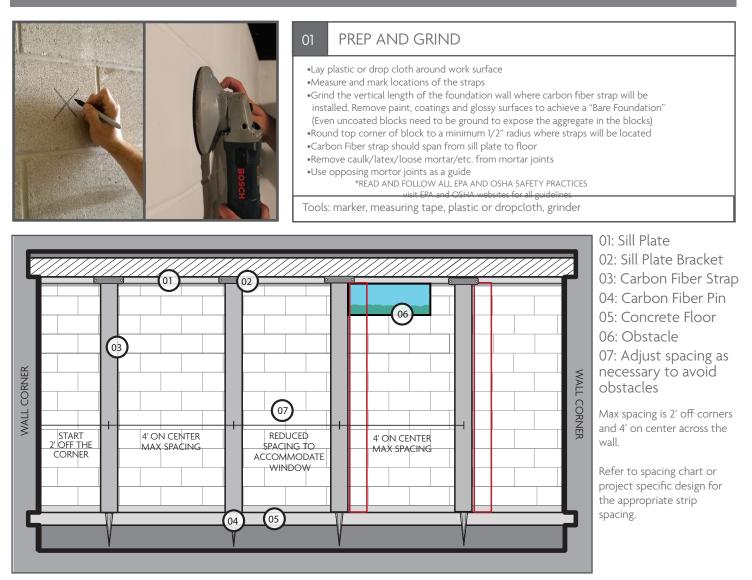
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### PLEASE READ ALL DIRECTIONS CAREFULLY & WEAR SAFETY GOGGLES DURING INSTALLATION





### 02 REPAIR CRACKS

•Repair all cracks by using hydraulic cement or High Strengh Anchoring Epoxy Paste before installing carbon fiber

\*Wall must be completely bare and clean with cracks/deep morter joints filled before applying carbon fiber

\*Check our Rhino tuck point instruction video on YouTube for reference

Tools: hammer drill, hydraulic cement or High Strengh Anchoring Epoxy Paste



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## SILL PLATE PREP

- •Mark drill holes with pencil or pen for the sill plate bracket
- •Make sure the sill plate bracket is level with the top of the foundation wall and centered over the area where the strap will be installed
- \*An uneven Bracket could cause splitting and damage to the sill plate
- •Pre-drill holes using a 1/4" drill bit

•Pre-drilled holes will ensure a secure connection between the carbon fiber, sill plate bracket and the sill plate

Tools: pencil/pen, power drill with 1/4" Bit

#### DRILL FOOTING 04

- •Using a hammer drill, pre-drill a 3/4" hole at the center of the prepped carbon fiber location
- •Drill hole as close to vertical as possible against the base of the wall.
- •If the floor is sound, pinning to the floor is sufficient.
- •If the floor is being removed or is deteriorated, remove floor and pin directly to the footer

Tools: hammer drill,

#### 05 ATTACH SILL PLATE

- TIP: Lay carbon fiber on piece of cardboard
- •Apply epoxy to the top 8" of the carbon fiber, spread epoxy so that the strap is saturated
- •Lay bracket flush with the top of carbon fiber
- •Roll bracket and carbon fiber twice and ensure the wrap is tight

Tools: tape measure, latex gloves and epoxy gun



#### 06 MOUNT

•Mount the saturated carbon fiber wrapped sill plate bracket unit

- •Check for level of sill plate bracket to ensure a secure fit to sill plate
- •Fasten sill plate bracket to the sill plate using the supplied (2) 3/8" x 2" lag bolts and (2) washers

Tools: drill, level, lag bolts and flat washers



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## EPOXY

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- TIP: Roll carbon fiber and sit on sill plate ledge so that it is out of the way
- •Apply an even coat of epoxy to the wall over the entire area where the strap will meet the wall •Once a sufficient coating of epoxy is applied to foundation wall, lay the carbon fiber strap over the applied epoxy making sure that the carbon fiber strap is straight and tight
- •Work the carbon fiber into the epoxy with trowel, spatula, roller, or gloved hands.
- •Apply a second layer of epoxy on top of the carbon fiber and lightly spread the epoxy with a putty knife to provide an even finish

Tools: putty knife, gloves, epoxy adhesive, epoxy gun, static nozzle





01: Lift carbon fiber strap & 02: Spread epoxy on apply epoxy to wall

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03: Apply carbon fiber strap & coat with epoxy

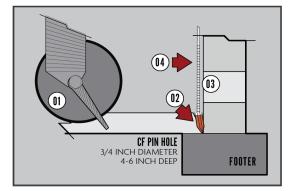


#### 08 ANCHOR

- •Secure bottom of the carbon fiber strap as per the diagram below
- If there is extra carbon fiber, cut the excess at this time (leave 6" to 8" of carbon fiber beyond the bottom of the wall for the sheer pin)

foundation wall

- Fill the hole with epoxy and saturate the remainder of the strap
- •Fold bottom of strap to make a point (triangle tip) then twist to create the pin
- Insert pin into hole and top off with epoxy
- FINAL STEP
- •Use light strokes with putty knife to spread epoxy evenly, focusing on the edges for a clean and secure installation
- •Make sure the strap is tightly adheared to the wall all the way to the floor
- Tools: gloves, epoxy gun, putty knife





Apply epoxy to hole



Twist carbon fiber and insert into hole

01: Fold and twist end of carbon fiber strap to make pin 02: Fill hole with epoxy and place carbon fiber twisted pin inside hole

03: After pin is inserted, make sure strap is tightly adheared to wall

04: Top off hole with epoxy

\*\* When waterproofing, or if floor is deteriorated, the strap can be pinned to the footer.



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