



# CHADSWORTH COLUMNS

## POLYSTONE® CAPITALS WITH LOAD-BEARING PLUG – INSTALLATION

### A. PARTS AND SUPPLIES NEEDED FOR INSTALLATION

#### Hardware not included:

The following will need to be purchased before beginning installation.

- Standard construction adhesive
- Mineral spirits - for cleaning
- High quality primer and topcoat paint

### B. PREPARATION

1. General – Good industrial/construction safety practices demand that when grinding, cutting, or sanding our products, you must work in a well-ventilated area and wear protective safety equipment, such as safety gloves, safety glasses and a MSHA/NIOSH approved respirator.
2. Installation - It is recommended that safety gloves, hard hats and safety glasses, as well as other specified safety equipment be used during installation.

**NOTE: Decorative Capitals are load bearing to meet the level of load bearing capacity of the column.**

### C. INSTALLATION OF DECORATIVE CAPITALS WITH LOAD-BEARING PLUG

1. Before installing the decorative capital, cut the column at the top of the shaft just above the neck ring within 1/8” from the neck ring and belt sand flush to finish (see Fig. A). This step does not apply for fiberwound columns that are without a neck ring or where the ring is at the top of the column shaft.
2. ***Before cutting the bottom of the column shaft*** – measure the opening where the column will be installed. When calculating the overall height required, be sure to include the height of the capital and plug. The plug will be 1/8” to 3/16” higher than the capital. Trim the column shaft bottom to fit the height of the opening AFTER cutting the top of the shaft at the neck ring.

**NOTE: Column may be trimmed using an abrasive saw blade or a fine-toothed hand saw. The capital may be trimmed using a Sawzall® with an 8” or 10” / 14 teeth per inch saw blade.**

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3. To attach the plug to the capital: Turn the capital over with the base facing up.
4. Cut two '2x6's – 1 foot in length and place halfway across the base of capital at opposite ends.
5. Trace the capital radius on the '2x6's and cut.
6. Put adhesive on the base of the capital, turn over and center over the metal plug.
7. Using a steel drill, drill three 5/32" holes in each radius piece through the steel plate.
8. Screw a #10 sheet metal screw into each of the six holes. On the outside of the capital, countersink and pilot drill a 7/64" hole through the base of the capital into each radius '2x6' and secure with a screw.
9. Apply a good grade of construction adhesive between the top of the column shaft and the bottom of the capital (see Fig. B).
10. USE CARE when positioning the capital on top of the column. Large capitals may require a forklift.
11. PICK UP THE CAPITAL FROM THE BOTTOM OF THE STEEL PLATE ONLY. It is important to center the capital on top of the column. Remove any excess adhesive.
12. Countersink and pilot drill four 7/32" screw holes into the top of the neck ring through the 3/4" plywood on the plug bottom. These holes should be level with the plywood. Screws should be long enough to penetrate the base of the capital (see Fig. B).
13. Secure the capital with #10 or #12 rustproof screws. Do not over tighten. Length of the screws will depend on the size of the capital and neck ring.
14. Lower the soffit onto the plug. Since the plug will be 1/8" to 3/16" higher than the capital, you should add shims to fill the gap between the soffit and capital.
15. To install the shims, countersink and pilot drill a 7/32" hole through the capital, shims and soffit and secure with a screw. Follow the column manufacturer's installation instructions.

## **D. INSTALLATION INSTRUCTIONS TO COVER THE CAVITY OF THE CAPITAL**

1. Using 3/8" or 1/2" Marine grade plywood, place the plywood on the top of the capital and trace an outline of the capital.
2. Over cut the tracing by 1/4".
3. Apply a premium grade of silicone between the plywood and the capital top.
4. Screw the plywood to the capital using stainless steel screws.

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5. Caulk the back edge of the plywood where it meets the soffit with silicone adhesive.
6. You may also use flashing, or a combination of both flashing and plywood. There is no need to bend the flashing over the edge of the capital. This product is rot proof and impervious to water.

## E. FINISHING

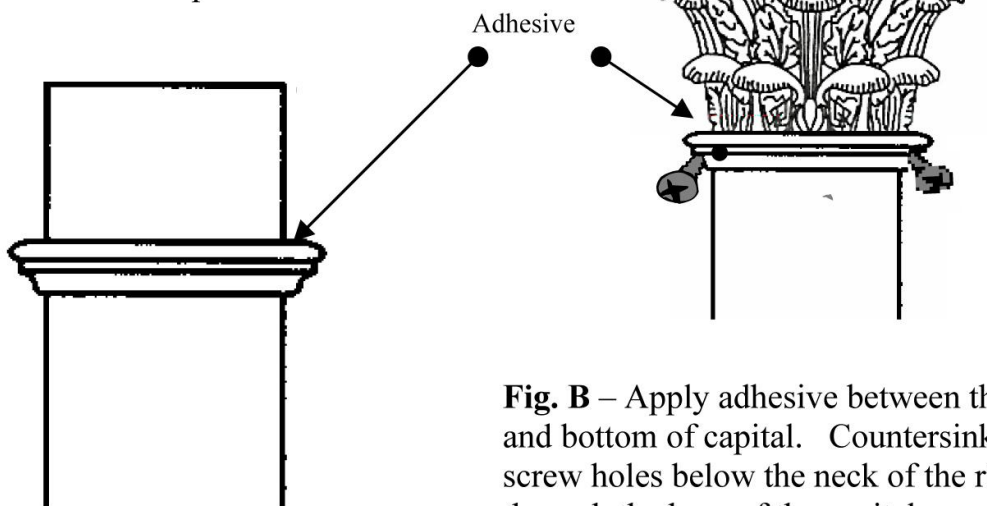
1. Finish by caulking all seams and drill holes.
2. Repairs to the capital may be made using automotive adhesive such as Bondo®.
3. Apply a high quality primer to both the column and capital.
4. Finish with a premium grade of topcoat paint (see Fig. C).

## ADDITIONAL INFORMATION

It is always advisable to check your local building codes before starting construction. If you have any questions regarding these installation instructions, please contact the manufacturer before starting installation.

Manufacturer shall not be responsible if any failure to comply with these instructions results in the product failing to perform the purpose intended. Failure to comply with the above instructions shall result in voiding the terms and conditions as stated in the warranty.

**Fig. A** – Cut Column at neck ring when installing decorative capitals.



**Fig. B** – Apply adhesive between the top and bottom of capital. Countersink 3 screw holes below the neck of the ring through the base of the capital.

**Fig. C** – Apply a high quality primer before painting.

