

WorthingtonFRP™ Fiberglass Column Architectural Specifications

1.0 GENERAL

1.1 PRODUCT DESCRIPTION

- A. Columns shall be WorthingtonFRP™ Fiberglass Columns manufactured by Worthington Millwork, LLC. based on design _____ (Specify capital, base, and if column shaft is “plain” or “fluted”)
- B. Column design shall have the correct proportions based on Orders of Architecture, except when cut to a specific length.
- C. FRP fiberglass columns are manufactured from E-Glass Fiberglass and Polyester Resin (Fiberglass Reinforced Polymers - FRP)
- D. FRP fiberglass columns shall be sanded ready for priming/painting
- E. FRP fiberglass columns meet ASTM E84-01 testing criteria for Class A flame and smoke classifications
- F. Caps, Bases and Plinths shall be made from Fiberglass FRP only. No Polyurethane will be accepted

1.2 SUBMITTALS

- A. Submit Worthington Millwork, LLC product data and shop drawings for customer approval

2.0 PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

- A. Worthington Millwork, LLC.
17842 Ashley Drive
Panama City Beach, FL 32413
800-872-1608
www.WorthingtonMillwork.com

2.2 MATERIALS

- A. FRP fiberglass columns are manufactured from E-Glass Fiberglass and Polyester Resin (Fiberglass Reinforced Polymers - FRP)
- B. Resins shall be Class A. This resin is specifically formulated for use in applications that require ASTM-84, Class 1 flame spread rating, without the use of fillers or antimony trioxide, with an ASTM-84 flame spread rating of 10 unfilled.
- C. Shaft thickness shall be 3/16” to 3/8” depending on size
- D. FRP fiberglass columns are load bearing unless columns are split for reassembly or pilaster.

3.0 EXECUTION

3.1 INSTALLATION

- A. Follow manufactures detailed installation procedures
- B. The position of the plinth must be determined by dropping a plumb line from the center of the soffit beam to the floor. This point should be marked well on the floor.
- C. Measure the overall height. Raise the soffit or porch slightly and brace safely for later column placement.
- D. Measure shaft length and if necessary, trim the shaft on the bottom only. Trim with an abrasive saw blade and always wear protective eye guards. Finish both the top and bottom ends of shaft with a rasp or sander to ensure an even load distribution around the shaft.
- E. Slide the standard capitals (Tuscan/Roman Doric) over the neck and rest temporarily on the astragal until the shaft is in the proper position.
- F. Slide base/plinth onto shaft from the bottom.
- G. Stand column in a vertical position and slide into place where mark was made on floor.
- H. Use small L brackets to hold shaft to flooring and do not let these brackets interfere with the position of the base/plinth. (NOTE: Use through bolts on shaft, do not use screws.)
- I. Remove brace and allow load to rest on column evenly.
- J. Measure and pre-drill hole in capital and base for screws.
- K. Slide capital up to soffit and attach using corrosion resistant type screws. Attach base to floor using masonry or appropriate fasteners. Fill holes with a polyester filler.
- L. Caulk between the capital and the shaft, and the base and the shaft for a completed appearance.
(NOTE: a gap around the base and shaft is normal and a standard in the industry.)

3.2 PAINTING AND FINISHING

- A. Make sure all surfaces are clean prior to painting. The surface preparation of your columns and components is very important to assure you a lifetime of beauty.
- B. Lightly sand and remove ALL dust and or dirt before applying any paint or primer. In case of surface scratches, some filling may be required.
- C. Use a good high quality exterior paint, at least one coat of primer and two coats surface paint. Worthington strongly recommends an alkyd or oil based primer and paint.
- D. Follow the paint instructions completely, making sure that the air and material temperatures are in accordance with the manufacturer's suggested recommendations. Paint adhesion problems occur when the directions are not followed properly.

3.3 WARRANTY

- A. All fiberglass columns and components have a limited lifetime warranty
- B. Manufacturer warrants that columns are free of defects in material and workmanship and, when stored, installed and finished in accordance with Manufacturer's published installation instructions, will perform as specified in the current published

specifications for as long as the original purchaser owns the property. Manufacturer's warranty begins at date of substantial completion.