

# **Square Fiberglass Columns Architectural Specifications**

## **1.0 GENERAL**

### **1.1 DESCRIPTION**

- A. Columns shall be square fiberglass columns manufactured by Worthington based on design \_\_\_\_\_
- B. Column shafts shall be non-tapered.
- C. Worthington square fiberglass columns are manufactured from highly advanced fiberglass reinforced polymers (FRP)
- D. All Worthington square fiberglass shafts shall be classified as NFPA Class A UBC Class 1, with a smoke density rating below 450 according to ASTM E84-01 testing criteria.
- E. Caps shall be Polyurethane or Fiberglass,
- G. Bases shall be Polyurethane or Fiberglass
- H. Plinths shall be Polyurethane or Fiberglass

### **1.2 SUBMITTALS**

- A. Submit Worthington product data and shop drawings clearly marked to show column requirements.

## **2.0 PRODUCTS**

### **2.1 ACCEPTABLE MANUFACTURER:**

- A. Worthington Group, Ltd.  
P.O. Box 600399  
Jacksonville, FL 32260-0399  
P. 800.872.1608/ F. 904.281.1488  
[www.WorthingtonMillwork.com](http://www.WorthingtonMillwork.com)

### **2.2 MATERIALS**

- A. All square fiberglass columns shall be manufactured from advanced extruded fiberglass reinforced polymers (FRP)

## **3.0 EXECUTION**

### **3.1 INSTALLTION**

- A. Follow manufacturer's detailed installation procedures.
  - 1. Determine the position of the plinth by dropping a plumb line from the center of the soffit beam to the floor. Mark this point on the floor with a center of the soffit beam to the floor. Mark this point on the floor with a "X". This is where you will center the plinth so that the top of the shaft will align with the soffit.
  - 2. Measure the overall height. Raise the soffit or porch slightly with brace for easy installation of the columns.

3. Trim column shaft on bottom end only. Trim with an abrasive saw. Finish both top and bottom of shaft with a rasp to ensure an even load distribution around the entire circumference.
4. Slide cap over top of column shaft. Let cap slide down to rest on neck mold temporarily until shaft is correctly positioned. (If installing a square column, slide neck mold over top of shaft to desired location. Fasten neck mold to shaft. Caulk between neck mold and shaft.)
5. Slide base/plinth onto column shaft from bottom.
6. Place column in a vertical position with load centered over column shaft with even distribution around bearing surfaces.
7. If installation requires that column be secured in place prior to bearing load, use small L brackets. Be careful to ensure L brackets do not interfere with seating of cap and base. Note: To secure bracket to column, drill hole in shaft and use through bolts. Do not use screws.
8. Remove brace to allow load to bear on column shaft.
9. Slide cap up to soffit and attach to soffit using corrosion resistant type screws. Attach base/plinth to floor using appropriate fasteners.
10. Caulk between the cap and soffit, the cap and shaft, and the base and shaft for a finished appearance.

### **3.2 PAINTING/FINISHING**

- A. Make sure all surfaces are clean prior to painting. Use mineral spirits if oil or alkyd products are used. Warm soapy water should be used if latex products are utilized.
- B. It is necessary to sand the column, caps and bases prior to priming and painting. Some filling may be required. Note: The surface on polyurethane caps and base/plinths must thoroughly scuff sanded with 120 grit sand paper and wiped clean prior to priming and painting.
- C. Alkyd or oil based primer and paint are recommended. Latex products can be used, but additional sanding is required.
- D. Use a good, high quality exterior paint. At least one coat of primer and two coats of paint should be applied.
- E. Follow paint manufacturer's instructions concerning use within temperature ranges for best results.
- F. Do not use paint or solvents containing acetone.

### **3.3 WARRANTY**

- A. All fiberglass columns and polyurethane, fiberglass components, and decorative capitals have a Limited Lifetime Warranty.