Fiberglass Columns

SECTION 06 61 00
&
SECTION 04 72 00

RoyalCast™ Fiberglass Columns

Composite Fiberglass Columns
Architectural Specifications

1.1 General

1.2 Description:

A. Columns shall be Royal Corinthian RoyalCast™ fiberglass columns or column covers.
B. Column Style (Select One): Round Tapered, Round Non-Tapered, Square Tapered, Square Non-Tapered, Round Non-Tapered Rope, Barrel, Greek Doric, or Custom.
C. Column Style continued (Select One): Plain, Fluted or Recessed Panel.
D. If selected columns are fluted, flutes will terminate " above the base (not all alterations are possible).
E. Square columns are to be (Select One): RoyalCast or RoyaLite (see additional specs for RoyaLite)
F. Select Cap style: Tuscan, Round Tuscan, Doric, Round Doric, Roman Corinthian, Roman Ionic, Temple of the Winds, Scamozzi, Box, Craftsman, or Other (Depending on shaft not all styles are available).
G. Select Base Style: Tuscan, Round Tuscan, Doric, Round Doric, Attic, Round Attic, Box, Craftsman, or other. (Depending on shaft not all styles are available).
H. Filler material (Select One): General purpose or ASTM E 84-01 Class A rated.
I. Column Bottom Shaft Diameter or Width: As drawn.
J. Column Overall Height: As drawn.

1.3 Submittals

A. Submit Royal Corinthian literature and shop drawings if required.
B. Submit sample of column shaft cross-section if required.
C. Field samples shall be capable of being incorporated into the actual construction.

1.4 Warranty

A. The columns shall be guaranteed in writing against defects of materials or workmanship for the lifetime of the original owner.
B. Columns must be installed following Royal Corinthian guidelines.

1.5 Verification of Design

A. The components incorporated into the drawings show dimensions and styles chosen to accomplish the Architect's intended aesthetic result and to conform to the building's configuration in both form and function. The contractor shall verify that all components to be provided by Royal Corinthian for the work of this section will fit the building's structural elements and meet the visual design criteria on the drawings without materially altering profiles and alignments.
B. Any additional support or backing components shall be provided by the installation contractor as part of the work of this section.

2.1 Products

2.2 Acceptable Manufacturer

A. Royal Corinthian
603 Fenton Lane
West Chicago, IL 60185
T. 888-265-8661 F. 888-344-2937
royalcor@royalcorinthian.com

www.royalcorinthian.com

B. Substitutions: Not permitted.

2.3 Fiberglass, Resin, and Filler Materials

A. Glass chop shall be equal to the products of PPG-Owens Corning.
B. Polyester resins shall be general purpose. The resin will be flame retardant polyester resin designed for use in the roto-cast method.
C. Filler material shall be General Purpose or ASTM E 84-01 Class A rated.
D. Final ratio of materials shall consist of fiberglass chop, polyester resin, and filler.
E. Shaft thickness shall be 3/8" to 1" depending on size.
F. Allowable Tolerances
    1. Wind Load Resistance:
        a. Fiberglass components when installed shall resist wind loading.
        b. Minimum wind loading requirements as per standard building code.
    2. Dimensional Tolerances of Finished Units
        a. (1) Dimensions 10' or under: +/- 1/4".
        (2) Dimensions 10' to 20': +/- 1/4".
        b. Out of Square: 1/8" per 6.'
        c. Shaft height: up to 1" taller than nominal unless cut to OAH is specified.
        d. Column diameters and widths are nominal

3.1 Execution

3.2 Delivery

A. Deliver materials in original packages, containers, or bundles bearing brand name & identification of manufacturer or supplier. Customer to unload and store materials onsite under cover and in manner to keep them dry, protected from weather, direct sunlight, surface contamination, corrosion, and damage from construction traffic and other causes. Split Columns shouldn't be stored for longer than 7 days.
B. Handle materials and products to prevent damages to edges, ends, or surfaces

3.3 Installation

A. Follow manufacturers detailed installation guidelines. They are available online or by request.
B. Recommend Caulk for all joints is a high end construction adhesive that is paintable and flexible.
C. Fiberglass Columns are recommended to be sanded, primed, and painted.