

## SECTION 10343 CUPOLAS

### PART 1 — GENERAL

#### 1.01 DESCRIPTION

- A. Work includes: Furnish labor and materials to complete fabrication of ready-made cupolas as shown on Drawings. Work shall include but not be limited to:
  1. Wood curb (where required)
  2. Base section
  3. Middle section (louvers or windows)
  4. Roof section
  5. Weather vane
- B. Related Work Specified Elsewhere:
  1. Installation by carpenter trade
  2. Roofing material
  3. Flashing
  4. Sealants

#### 1.02 SUBMITTALS

- A. Product Data:
  1. Manufacturer's published cut sheets showing model selections, colors, and weather vane selections
- B. Shop Drawings:
  1. Submit to Architect for approval showing connections of parts and anchorage system to roof structure.
  2. Show elevations that illustrate roof slope, louver placement, and weather vane.
- C. Samples:
  1. Submit cladding samples showing available textures and colors.
- D. Project Closeout Submittals:
  1. Submit Cupola Manufacturer's installation and maintenance instructions.

#### 1.03 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
  1. Manufacturer shall have at least five (5) years' experience manufacturing cupolas equal to those specified in this section.

#### 1.04 DELIVERY, HANDLING AND STORAGE

- A. Cupola Manufacturer shall package complete cupola including all parts, anchorage materials, and weather vane in wood crate of sufficient construction to protect cupola and all its parts.
- B. Contractor shall store cupola in covered area off the ground and protected from damage.

### PART 2 — PRODUCTS

#### 2.01 APPROVED MANUFACTURER

- A. New Concept Louvers  
2940 South State Street  
P.O. Box 583  
Springville, Utah 84663  
Phone: (801) 489-0614 or (800) 635-6448  
E-mail: info@newconceptlouvers.com  
www.newconceptlouvers.com

#### 2.02 MANUFACTURED UNITS

- A. General:
  1. Three-part design for ease of installation
- B. Base Section:
  1. Wood construction with coated aluminum cladding
  2. Preinstalled 2" x 8" cleats to secure cupola to roof
- C. Louver Section:
  1. Wood framing with coated aluminum cladding
  2. Louvers: 0.019" thick coated aluminum stock with attached insect screen
  3. Screens: 9 x 9 ventmesh Fiberglas®
- D. Windows with Grids (special order)
- E. Roof section:
  1. 16-ounce copper cladding
  2. Options: Aluminum, flat sheet painted steel, shingles, or other as specified by Architect
- F. Weather Vane (optional):
  1. As selected by Architect from Cupola Manufacturer's complete list of weather vanes
- G. Models (choose one):
  1. Stansbury: Louvers, Square Base, Hip Roof
  2. Jamestown: Louvers, Square Base, Pagoda Roof
  3. Charleston: Louvers, Square Base, Bell Roof
  4. Estate: Louvers, Hexagon Base, Hip Roof
  5. Madison: Louvers, Hexagon Base, Pagoda Roof
  6. Richmond: Louvers, Hexagon Base, Bell Roof
  7. Georgetown: Louvers, Octagon Base, Hip Roof
  8. Providence: Louvers, Octagon Base, Pagoda Roof
  9. Bedford: Windows, Octagon Base, Bell Roof
  10. Windsor: Windows, Square Base, Hip Roof
  11. Trenton: Windows, Square Base, Pagoda Roof
  12. Vermont: Windows, Square Base, Bell Roof
  13. Nantucket: Windows, Hexagon Base, Hip Roof
  14. Davenport: Windows, Hexagon Base, Pagoda Roof
  15. York: Windows, Hexagon Base, Bell Roof
  16. Lexington: Windows, Octagon Base, Hip Roof
  17. Oxford: Windows, Octagon Base, Pagoda Roof
  18. Arlington: Windows, Octagon Base, Bell Roof

#### 2.03 ACCESSORIES

- A. Attachments:
  1. Base Attachments: 4-inch-long bolts with washers and nuts supplied by Cupola Manufacturer
  2. Curbing Attachments (if required): 4-inch-long bolts with washers and nuts supplied by Cupola Manufacturer
  3. 2-inch-long painted stainless-steel replacement screws supplied by Cupola Manufacturer
- B. Cupola Curb (optional, for new construction):
  1. Wood construction, sized to fit cupola being installed
- C. Lights for windowed cupolas

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## 2.04 FINISHES

- A. PVC-clad aluminum or baked enamel
- B. Color:
  - 1. As selected by Architect from manufacturers' standard 400 colors

## PART 3 — EXECUTION

### 3.01 EXAMINATION

- A. Installation on Existing Roofing Material:
  - 1. Examine condition of roofing material and slope of roof to be certain cupola can be properly installed.
  - 2. Notify Architect in writing of unacceptable existing conditions.
- B. Installation on New Construction without Applied Roofing Material:
  - 1. Examine condition and size of opening to receive curb and cupola.
  - 2. Verify that roof slope, where applicable, is correct.
  - 3. Notify Architect in writing of unacceptable existing conditions.

### 3.02 PREPARATION

- A. Removal of Existing Shingles:
  - 1. Fiberglas®/asphalt shingles: Carefully remove ridge cap (row of shingles on peak of roof) where the cupola will be installed. (Other shingles may be left in place.)
  - 2. Shingles thicker than Fiberglas®/asphalt: Remove all shingles from area where cupola will be installed.
- B. Marking and Cutting Ventilation Hole (venting louvers only):
  - 1. Mark where hole in roof will be cut, coming in at least 1 inch from cleats that are installed in the base section (or 1 inch in from the cleats of the curb) and the same total distance in from the inside walls of sides that do not have cleats.
  - 2. Being careful not to cut through or into trusses or other structural lumber, cut out ventilation hole.

### 3.03 INSTALLATION

- A. Installation of Optional Curb (new construction):
  - 1. Using 4-inch bolts furnished by Cupola Manufacturer, install and attach cupola curb in accordance with Cupola Manufacturer's written installation instructions.
- B. Install cupola in accordance with Cupola Manufacturer's written installation instructions.
  - 1. Place base section in position and adjust so it is plumb and level. Use shims if necessary.
  - 2. Attach base section to roof.
    - a. If not using optional curb: Drill a 7/16-inch-diameter hole through each cleat (total of four holes) and into the roof. Bolt base to roof through the holes using bolts, washers, and nuts provided by Manufacturer with cupola.
    - b. If using optional curb (new construction): Attach cupola to curb in accordance with Cupola Manufacturer's written installation instructions, using the four 4-inch painted carriage bolts provided by Cupola Manufacturer.

- 3. Using specified sealant, seal around bottom of base section to keep water from leaking under cupola.
- 4. Place louver (or window) section on top of base section, with lip of base fitting snugly inside bottom of louver (or window) section.
- 5. Place roof section on top of louver (or window) section, with lip of roof section fitting snugly inside top of louver (or window) section.
- 6. Replace painted 1/2-inch screws at corners of louver (or window) section with 2-inch painted stainless-steel screws included with cupola.
  - a. Replace screws one at a time, and finish replacing each screw before removing next screw.
  - b. After removing existing 1/2-inch screw, predrill 7/64-inch-diameter hole for 2-inch replacement screw.
  - c. To avoid indenting aluminum, do not "bottom out" replacement screw. Finish tightening by hand.

### 3.04 CLEANING

- A. Remove leftover materials from installation caused by work of this section from site and dispose of legally.
- B. Clean cupola to be free of dirt or smudging caused by storage, handling, or installation of cupola.

END OF SECTION