

**10 73 00 SECTION (10530)**  
**OVERHEAD SUPPORTED ALUMINUM CANOPY**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Pre-engineered, pre-finished Suspended extruded aluminum canopies.

**1.2 REFERENCES**

- A. American Architectural Manufacturers Association (AAMA):
  - 1. AAMA 603 - Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum.
  - 2. AAMA 605 - Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels.
  - 3. AAMA 607.1 - Voluntary Guide Specification and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum.
  - 4. AAMA 608.1 - Voluntary Guide Specification and Inspection Methods for Electrolytically Deposited Color Anodic Finishes for Architectural Aluminum.

**1.3 DESIGN REQUIREMENTS**

- A. Struts, Gutter Beams, Deck, and Trim: Aluminum extrusions.
- B. Structural Framing: Interlocking deck sections secured by screws.
- C. Canopy: Self-draining from deck into perimeter gutter frame through scuppers to discharge point at ground level or as otherwise shown.
- D. Building Code: \_\_\_\_\_
- E. Design Loads:
  - 1. Comply with Building Code for site location.
- F. Structural Design: Prepare complete structural design calculations for canopy.
- G. Structural Design: Prepare complete structural design calculations for canopy members.

**1.4 SUBMITTALS**

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's catalog data, detail sheets, and specifications.
- C. Shop Drawings: Layout and erection drawings showing roof framing, deck panels, cross sections, and trim details, clearly indicating proper assembly.
- D. Samples: Color selection samples consisting of actual coating material or anodizing process on aluminum extrusions.
- E. Quality Assurance/Control Submittals:
  - 1. Qualifications: Letter certifying manufacturer's required qualifications.

2. Structural Design Calculations.
3. Manufacturer's Installation Instructions.

## **1.5 QUALITY ASSURANCE**

- A. Overall Standard: Structural engineering design documents stamped by a structural engineer registered to practice in the State of Florida.
- B. Manufacturer Qualifications: Minimum five years experience in producing covers/canopies of the type specified.
- C. Installer Qualifications: Minimum two years experience in erecting covers/canopies of the type specified.

## **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Conform to Section 01660 - Product Storage and Handling Requirements.
- B. Follow manufacturer's instructions.

# **PART 2 PRODUCTS**

## **2.1 MANUFACTURERS**

- A. Acceptable Manufacturer:
  - B. Perfection Architectural Systems, Inc., or EQUAL.
  - C. 2310 Mercator Drive Orlando, FL 32807; ASD.
  - D. Tel: (800) 238-7207, Fax: (407) 671-8252.
- E. Provide all overhead supported canopy components from a single manufacturer.

## **2.2 MATERIALS**

- A. Aluminum Extrusions: 6063 alloy, T-6 temper.
- B.

## **2.3 COMPONENTS**

- A. Struts:
  1. Aluminum tubular extrusion of size shown on shop drawings.
- B. Gutter Beam:
  1. Size: As shown on shop drawings.
- C. Deck: Rigid-Roll-Lock extruded aluminum, self-flashing, interlocking sections.
  1. Size and Profile: As shown on shop drawings.
  2. Size and Profile: As required by structural engineering design.
- D. Flashing: Aluminum sheet, thickness as recommended by manufacturer for specific condition.

## **2.4 ACCESSORIES**

- A. Fasteners:
1. Deck Screws: No. 14 by 1 inch (25 mm), self-tapping, Type 18-8 stainless steel with neoprene washers.
  2. Trim Screws: No. 10 by 1/2 inch (13 mm), self-tapping, Type 18-8 stainless steel.
  - 3.
  4. Other Fasteners: Type 18-8 stainless steel, type recommended by manufacturer for specific condition.

## 2.5 FABRICATION

- A. Shop Assembly: Fabricate with corners mitered and heli-arc welded to the extent that completed pieces can be shipped on local, state, and federal highways without special permit. Provide bolted connections for elements required to be shipped unassembled.

## 2.6 FINISHES

- A. Struts:
1. Clear Anodized: AA-M-10C-22A-31, Architectural Class II, comply with AAMA 607.1.
  2. Bronze Anodized: AA-M-10C-22A-44, Architectural Class I, comply with AAMA 608.1.
  3. Thermo-Set Enamel: AA-C-12C-42R-1, comply with AAMA 603.
    - a. Color: As selected by architect from manufacturer's standard color range.
    - b. Color: Custom color as selected by architect.
  4. Fluoropolymer Coating: 70 percent PVDF resin based fluoropolymer, AA-C-12C-42R-1, custom color as selected by architect, comply with AAMA 605.
    - a. Two coat application.
    - b. Three coat application.
- B. Deck:
1. Clear Anodized: AA-M-10C-22A-31, Architectural Class II, comply with AAMA 607.1.
  2. Bronze Anodized: AA-M-10C-22A-44, Architectural Class I, comply with AAMA 608.1.
  3. Thermo-Set Enamel: AA-C-12C-42R-1, comply with AAMA 603.
    - a. Color: As selected by architect from manufacturer's standard color range.
    - b. Color: Custom color as selected by architect.
  4. Fluoropolymer Coating: 70 percent PVDF resin based fluoropolymer, AA-C-12C-42R-1, custom color as selected by architect, comply with AAMA 605.
    - a. Two coat application.
    - b. Three coat application.
- C. Fascia/Gutter:
1. Clear Anodized: AA-M-10C-22A-31, Architectural Class II, comply with AAMA 607.1.
  2. Bronze Anodized: AA-M-10C-22A-44, Architectural Class I, comply with AAMA 608.1.
  3. Thermo-Set Enamel: AA-C-12C-42R-1, comply with AAMA 603.
    - a. Color: As selected by architect from manufacturer's standard color range.
    - b. Color: Custom color as selected by architect.
  4. Fluoropolymer Coating: 70 percent PVDF resin based fluoropolymer, AA-C-12C-42R-1, custom color as selected by architect, comply with AAMA 605.
    - a. Two coat application.
    - b. Three coat application.

5.

## PART 3 EXECUTION

### **3.1 EXAMINATION**

- A. Verify locations and elevations.
- B. Examine building surfaces to which canopy will connect.
- C. Coordinate with responsible trade to perform corrective work on unsatisfactory surfaces.
- D. Commencement of work by installer is acceptance of existing conditions.

### **3.2 ERECTION**

- A. Erect protective covers in accordance with manufacturer's installation instructions.
- B. Set plumb, straight, and true to line, adequately braced to maintain position.
- C. Keep aluminum surfaces from direct contact with ferrous metal or other incompatible materials by applying one coat of clear acrylic coating.

### **3.3 CLEANING**

- A. Clean surfaces soiled by work as recommended by manufacturer.
- B. Remove surplus materials and debris from the site.

### **3.4 PROTECTION**

- A. Protect finished aluminum surfaces from damage due to subsequent construction operations.

**END OF SECTION**