

SECTION 10 73 16 - MANUFACTURED CANOPIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Prefabricated, prefinished metal rod-hung canopies.

1.2 SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings:

1. Include plans, elevations, sections, mounting heights, and attachment details.
2. Detail fabrication and assembly of canopy.

C. Samples: For each exposed product and for each color and texture specified.

D. Delegated-Design Submittal.

E. Sample warranty.

1.3 FIELD CONDITIONS

A. Confirm dimensions prior to preparation of Shop Drawings when possible.

B. Provide Shop Drawings showing structural component locations/positions, material dimensions and details of construction and assembly.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.

1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

B. Delegated Design: Engage a qualified professional engineer, as defined in Section 007214 "General Conditions," to design manufactured canopy system.

2.2 MANUFACTURER

A. Products:

1. Architectural Fabrication, Inc.; Helios Canopy.
2. Mapes Canopies, LLC; Super Lumideck HR Flat Soffit.

2.3 MATERIALS

- A. Decking: Interlocking flat soffit, 6063-T6 or 6063-T5 alloy extruded aluminum, minimum **0.078 inch (2 mm)** thick.
1. Height: Minimum **2 inches (51 mm)**.
 2. Width: **6 inches (152 mm)**.
- B. Intermediate Framing Members: Extruded aluminum, alloy 6063-T6, in profile as indicated on Drawings and thickness as required by manufacturer for profile indicated.
- C. Hanger Rods: Zinc-plated or galvanized schedule 40 steel tube, size as required to comply with structural performance.
- D. Wall Brackets: Manufacturer's standard.
- E. Fascia: Manufacturer's standard extruded **8 inch (203 mm)** J style.
- F. Hardware and Fasteners (Nuts, Bolts, Washers, Clevis Pins, Screws, Anchors, and Pipe Spacers): Zinc plated or galvanized steel required to suit application and comply with structural performance.
- G. Flashing: Shall be minimum **0.040 inch (1.0 mm)** aluminum, fabricated to prevent leakage.

2.4 FINISHES

- A. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of **2 mils (0.05 mm)**. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
- a. Color: As specified in Division 01 Section "Exterior Finishes and Colors."

2.5 FABRICATION

- A. Fabricate and preassemble canopies in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- B. Concealed drainage. Drain water from covered surfaces into intermediate trough and be directed to downspout from rear gutter.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Confirm that surrounding area is ready for canopy installation.
- B. Confirm dimensions and elevations to be as shown on Shop Drawings.

3.2 INSTALLATION

- A. General: Install canopies at locations and in position indicated, securely connected to supports, free of rack, and in proper relation to adjacent construction. Use mounting methods of types described and in compliance with Shop Drawings and fabricator's written instructions.
- B. Anchoring to In-Place Construction: Use anchors, fasteners, fittings, hardware, and installation accessories where necessary for securing awnings to structural support and for properly transferring load to in-place construction.
- C. Use concealed anchors where possible.
- D. Corrosion Protection: Coat concealed surfaces of aluminum that come in contact with grout, concrete, masonry, wood, or dissimilar metals with a heavy coat of bituminous paint.

3.3 CLEANING AND ADJUSTING

- A. Prevent rust staining by immediately removing from finished surfaces any filings caused by drilling or cutting.
- B. Clean entire canopy as recommended by manufacturer.
- C. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new units.

END OF SECTION 10 73 16

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