

SECTION 105020 - CANOPIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes building supported, pre-engineered metal canopies including fascia channels, decking, tension rods, and attachment hardware.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings:
 - 1. Include plans, elevations, sections, attachment details, and accessories.
- C. Samples: For each exposed product and for each color and texture specified.
- D. Delegated-Design Submittal: For canopy framing and support system.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 5 year experience in installation of similar canopy products and systems.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide MASA Architectural Canopies; Extrudeck or a comparable product by one of the following:
 - 1. Mitchell Metals.
 - 2. Perfection Architectural Systems.
 - 3. Rusco Custom Canopies.
 - 4. Equal products must be approved by Architect prior to receipt of bids.

2.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Division 01 Section "Quality Requirements," to design entire canopy system to withstand design loads indicated on the Drawings for wind pressure, snow load, and drifting snow load in addition to canopy dead load.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
 - 1. Temperature Change: 120 deg F, ambient; 180 deg F.

2.3 MATERIALS

- A. Aluminum Extrusions:
 - 1. ASTM B221& ASTM B429 6061-T6 alloy and temper.
- B. Hardware:
 - 1. All fasteners shall be stainless steel or hot dip galvanized for corrosion resistance.

2.4 COMPONENTS

- A. Framing:
 - 1. Type: Extruded aluminum "J" channel fascia.
 - 2. Size: 8 inches by 0.125 inches.
- B. Canopy Supports: 3 inch by 3 inch by 0.25 inch Extruded Aluminum Canopy Support "I" Beam.
- C. Decking: 3 inch by 6 inch by 0.078 inch interlocking, Extruded Aluminum Flat soffit decking as selected from manufacturer's standard decking options.
- D. Attachment: 1 inch diameter steel hanger rod finished to match canopy.
- E. Fascia Profile: Match MASA 8 inch Industrial profile.
- F. Other Components: Other components as indicated or as required for system attachment and performance.

2.5 ACCESSORIES

- A. Anchors and Fasteners: Stainless steel or hot dip galvanized and corrosion resistant.

2.6 FABRICATION

- A. Fabricate canopy system in accordance with approved Shop Drawings.

- B. All canopies to be mechanically assembled with a minimum shear stress strength of 350 pounds. Pre-welding is not acceptable.
- C. Drainage system to be concealed type. Covered surfaces direct water to field drilled drain, to be coordinated at site.

2.7 ALUMINUM FINISHES

- A. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.

PART 3 - EXECUTION

3.1 FIELD DIMENSIONS

- A. Field verify dimensions of supporting structure at site of installation prior to fabrication.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Install components plumb and level, in proper plane, free from warp and twist.
- C. Anchor system to building components; provide adequate clearance for movement caused by thermal expansion and contraction and wind loads.

3.3 ADJUSTING

- A. Touch-up minor scratches and abrasions on finished surfaces to match original finish.

END OF SECTION 105020