

SECTION 105300 – METAL CANOPIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Aluminum, cantilevered overhead canopy.

1.3 ACTION SUBMITTALS

- A. Product Data: For each canopy type.
- B. Shop Drawings:
 - 1. Include plans, elevations, sections, details, and attachments to other work.
 - 2. Indicate sizes of metal sections, thickness of metals, profiles, holes, and field joints.
 - 3. Indicate locations of anchors, weld plates, and blocking for attachment of wall-mounted handrails.
- C. Delegated-Design Submittal: For canopies, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- D. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available.
- E. Samples for Verification: For each color required, provide Samples no less than 6 inches by 6 inches in size.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For professional engineer's experience with providing delegated-design engineering services of the kind indicated, including documentation that engineer is licensed in the State in which Project is located.
- B. Sample Warranties: For special warranties.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.6 FIELD CONDITIONS

- A. Field Measurements: Confirm field dimensions prior to preparation of shop drawings when possible.
- B. Deliver and store all canopy components in dry, protected areas.

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of canopies that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including, but not limited to, excessive deflection.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use; rust through.
 - c. Delamination of exterior or interior facing materials.
 - 2. Warranty Period: Five years from date of Substantial Completion.
- B. Special Finish Warranty: Manufacturer agrees to repair or replace components that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 1 - PRODUCTS

2.1 METAL CANOPIES

- A. Products: Basis of Design: Subject to compliance with requirements, provide a cantilevered canopy from Mapes Industries, Inc., or a comparable product from another manufacturer.
- B. Materials:
 - 1. Decking shall consist of a 2 3/4" extruded .078" decking.
 - 2. Intermediate framing members shall be extruded aluminum, alloy 6063-T6, in profile and thickness standard with manufacturer.

3. Hanger rods and attachment hardware shall be a standard finish.
4. Fascia shall be manufacturer's standard extruded fascia.
5. Finish: Two-coat fluoropolymer (Kynar) finish.
 - a. Colors: As selected by Architect from manufacturer's full range

C. Fabrication:

1. Extruded aluminum canopies are shipped with the materials precut to size for field assembly.
2. All connections shall be mechanically assembled utilizing 3/16 inch fasteners with a minimum shear stress of 350 lb. Pre-welded or factory-welded connections are not acceptable.
3. Concealed drainage. Water shall drain from covered surfaces into intermediate trough and be directed to scuppers or downspouts.

PART 2 - EXECUTION

3.1 EXAMINATION

- A. Examine surrounding areas and substrates where canopy is to be installed with Installer present, for compliance with requirements for installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF METAL CANOPIES

- A. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection.

3.3 CLEANING AND PROTECTION

- A. Touch up damaged finishes immediately upon completion of installation. Replace components that cannot be restored to their original finish.
- B. After installation, clean entire canopy and protect from damage until Substantial Completion.

END OF SECTION 105300