

ARCHITECTURAL CANOPIES



PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Building supported, pre-engineered metal canopies including fascia channels, decking, tension rods, and attachment hardware.

B. Related Sections:

1. Division 01: Administrative, procedural, and temporary work requirements.
2. (Section 10 71 13.53 Exterior Sun Control/ Daylighting Devices)

1.2 REFERENCES

A. Aluminum Association (AA) DAF 45 - Designation System for Aluminum Finishes.

B. American Architectural Manufacturers Association (AAMA)

1. 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Architectural Extrusions and Panels.

C. American Society of Civil Engineers (ASCE) 7 - Minimum Design Loads for Buildings and Other Structures.

D. ASTM International (ASTM)

1. B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
2. B429 - Standard Specification for Aluminum-Alloy Extruded Pipe and Tube.
3. A36 Standard Mild Steel Specification
4. A50/A53 Standards for Structural steel

1.3 SYSTEM DESCRIPTION

A. Design Requirements: Design canopy system to withstand:

1. Standards for wind pressure, snow load, and drifting snow load in accordance with current adopted form of the Uniform Construction code or accepted requirements of local municipality.

1.4 SUBMITTALS

A. Submittals for Review:

1. Shop Drawings: Indicate system components, dimensions, attachments, and accessories.
2. Samples:
 - a. 3 x 3 inch coating samples in specified color.
 - b. 6 inch long fascia profile sample showing profile and standard finish.
 - c. 6 inch decking samples showing profile and standard finish.

B. (LEED Project Submittals)

1. Product Data for Credit MR 4: documentation indicating percentages by weight of post consumer and pre consumer recycled content. Include statement indicating cost for each product having recycled content.
2. Product Data for Credit MR 5: Indicate location of product manufacturer, distance from manufacturer to project site, and mill test report for origination of materials.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Minimum 5 years' experience.

1. (Mockup: Provide mockup of canopy system including all framing members, supports, decking, hanger rods, and attachments at location selected by architect.)

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PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Manufacturers: Basis-of-Design (BOD) Manufacturer, Model/Product: Coda Canopy by Form Metal – Irving, Texas.

B. Acceptable alternates:

Other manufacturers may bid only after written approval of the architect, obtained 10 days prior to bid opening and issued by addendum. Interested manufacturers must furnish full details of proposed product, engineering calculations on all sections involved, physical samples of all shapes and finishes, a list of installations similar in size and design, and must have a minimum of ten years' experience in manufacturing and installing glazed canopy systems.

2.2 MATERIALS

A. Aluminum Extrusions:

1. ASTM B221 & ASTM B429 6063-T5 alloy and temper.

B. Hardware:

1. All fasteners shall be (stainless steel) or (zinc coated) for corrosion resistance.

2.3 COMPONENTS

A. Framing:

1. Type: (Extruded aluminum) (Mild/Structural steel A36 and A500)

2. Size: 8" x .125"

B. Canopy Supports: Post mount

C. Decking: 3" x 6" x .090" Interlocking Extruded aluminum flat soffit decking

D. Attachment; As required to meet final conditions

E. Custom Fascia Profiles: (4" Crown) (3" Crown) (8" Industrial) (12" Industrial)

F. Other Components: other components as indicated or as required for system attachment and performance.

2.4 FABRICATION

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

B. Canopies to be pre-assembled and welded.

Where pre-assembled canopies are too large for transport mechanical field assembly will be accepted.

C. Drainage system to be (360 degree concealed type.)(Open/Natural runoff NO capture)(Open natural with capture)
Covered surfaces direct water to field drilled drain, to be coordinated at site.

2.6 FINISHES (select appropriate finish) (powder coat finish)

A. Aluminum

B. Finish Options

a. AAMA 2605 Fluoropolymer coating containing minimum 70% PVDF resins or

b. AAMA 2605 Thermosetting Polyester Resin-based Powder

c. Color: (color) to be selected by architect

PART 3 - EXECUTION

3.1 FIELD DIMENSIONS

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

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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.
- B. Clean with mild, non-abrasive solution and a cotton cloth under low pressure.

END OF SECTION