



SECTION 10 73 16.13 – METAL CANOPIES G&J AWNINGS METAL CANOPIES

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GUIDE SPECIFICATIONS:

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CAREFULLY REVIEW AND EDIT THIS SECTION TO MEET THE REQUIREMENTS OF THE PROJECT, LOCAL BUILDING CODE AND AUTHORITIES HAVING JURISDICTION. COORDINATE THIS SECTION WITH OTHER SPECIFICATION SECTIONS AND DRAWINGS.

DELETE ALL "SPECIFIER NOTES" WHEN EDITING THIS SECTION.

PART 1 - GENERAL

1.1 CONDITIONS AND REQUIREMENTS

- A. The General Conditions, Supplementary Conditions, and Division 01 – General Requirements apply.

1.2 SECTION INCLUDES

- A. Metal Canopy GJ-MC.
- B. Metal Canopy with Pans GJ-MCP.
- C. Cantilevered Metal Canopy with Pans GJ-CMCP.
- D. Louvered Sunshade GJ-LVS.

1.3 RELATED SECTIONS

- A. Section 10 71 13 – Exterior Sun Control Devices.
- B. Section 10 73 13 – Awnings.
- C. Section 10 73 16 – Canopies.
- D. Section 10 73 26 – Walkway Coverings.

1.4 REFERENCES

- A. American Architectural Manufacturer's Association (AAMA):

- 1. AAMA 2604: Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
- B. American Society for Testing and Materials (ASTM):
 - 1. ASTM B209/B209M: Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 - 2. ASTM B221/B221M: Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- C. American Society of Civil Engineers (ASCE) / Structural Engineering Institute (SEI):
 - 1. ASCE/SEI 7: Minimum Design Loads and Associated Criteria for Buildings and Other Structures.
- D. Consumer Product Safety Commission (CPSC):
 - 1. 16 CFT 1201: Safety Standard for Architectural Glazing Materials.

1.5 SUBMITTALS

- A. Action Submittals:
 - 1. Product Data: For each type of product include:
 - a. Technical data for metals used.
 - b. Technical data for attachment devices for the framing system.
 - c. Full range of color and finish selection.
 - 2. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work including anchor-bolt plans and templates.
 - a. Canopy shall conform to local building codes and authorities having jurisdiction.
 - b. Conform specific load requirements for canopies and provide stamped engineering calculations for location of canopy installation.
 - c. Confirm wall construction assumptions at support locations with the Architect prior to the preparation of shop drawings. Make recommendations to the Architect for additional internal wall support or wall construction modifications necessary to support canopies.
 - 3. Samples: For each type of exposed finish.
- B. Informational Submittals:
 - 1. Evaluation Reports: For anchors, from International Code Council Evaluation Service (ICC-ES).
 - 2. Sample warranty.
- C. Closeout Submittals:
 - 1. Maintenance data.

1.6 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair finish or replace canopies that fail in materials or workmanship within the specified warranty period.
 - 1. Warranty Period: [Five] or [other] years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Specified Manufacturer: G&J Awnings, Sauk Rapids, Minnesota. Telephone: 320-255-1733. Email: info@gjawning.com. Web: www.gjawning.com.

SPECIFIER NOTES: DELETE ONE OF THE FOLLOWING TWO PARAGRAPHS.

- B. Substitutions: Not Permitted.
- C. Requests for approved substitutions will be considered in accordance with provisions specified in Section 01 62 00 – Product Options.

2.2 METAL CANOPIES DESCRIPTION

- A. Metal Canopies are made of rectangular shaped aluminum tubing. They may be powder coated in a wide range of color options. G&J Awnings’ Metal Canopies are durable and energy efficient. They are low maintenance and require only an occasional hosing off to remove dust.

2.3 METAL CANOPIES PERFORMANCE CRITERIA

SPECIFIER NOTES: OPTIONS ARE INDICATED WITH SQUARE BRACKETS. DELETE OPTIONS NOT REQUIRED FOR THIS PROJECT.

SPECIFIER NOTES: INSERT PERFORMANCE REQUIREMENTS FOR THIS PROJECT WHERE INDICATED.

- A. Structural Performance: Shelters shall withstand the following loads and stresses within limits and under conditions according to [ASCE/SEI 7] or <Insert requirement>.
 - 1. Design Loads: As indicated on drawings <Insert design load requirement>.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes. Base the calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss. Temperature Change (Range): [Ambient: 120 degrees Fahrenheit (67 degrees Celsius); Material Surfaces: 180 degrees Fahrenheit (100 degrees Celsius)] <Insert temperature range>.
- C. Safety Glazing Products: Category II materials complying with testing requirements in 16 CFR 1201 permanently marked with a certification label acceptable to authorities having jurisdiction.
- D. Fabrication: Fabricate canopies as an integrated set of welded components ready for installation on the Project site.

2.4 METAL CANOPIES MATERIALS

SPECIFIER NOTES: OPTIONS ARE INDICATED WITH SQUARE BRACKETS. DELETE OPTIONS NOT REQUIRED FOR THIS PROJECT AND EDIT “AND/OR” STATEMENTS TO “AND” OR “OR” FOR CLARITY. CONTACT THE MANUFACTURER TO DISCUSS CUSTOM OPTIONS.

SPECIFIER NOTES: INSERT PROJECT REQUIREMENTS WHERE INDICATED. USE DIMENSIONS INDICATED ON PROJECT DRAWINGS.

- A. Materials:
 - 1. Aluminum Sheet:
 - a. Conforms to ASTM B209/B209M: 6063-T6 alloy and temper.
 - 2. Aluminum Extruded Shapes:
 - a. Conforms to ASTM B221/B221M: 6063-T6 alloy and temper.
 - 3. Hanger Rods and Attachments:
 - a. Clevis: 5-inch (12.7-centimeter) steel forged clevis rod ends.
 - b. Wall Plate: Manufacturer’s standard aluminum plate with receiver.
 - c. Threaded Rod: #10 galvanized steel threaded rod.

- d. Sleeve: Aluminum tubing, 6005-T5 alloy and temper.
- B. Finishes:
 - 1. Powder-Coat Finish:
 - a. Conforms to AAMA 2604 dependent upon the color, with a minimum dry film thickness of 2.5 millimeters.
 - b. Color and Gloss: [Match Architect's sample], or [As selected by Architect from Tiger Drylac Standard or Series 38 Powder Coat Colors]
- C. Structural Framework: Fabricated from manufacturer's standard aluminum tubing, channel, angle, or tee extrusions. Connect framework with exposed mechanical fasteners.
- D. Canopy Size: As indicated on drawings <Insert dimensions>.
- E. Metal Canopy GJ-MC
 - 1. Fascia: [6 inches (15 centimeters)], [8 inches (20 centimeters)], [10 inches (25 centimeters)], [12 inches (30 centimeters)], or [custom].
 - 2. Tie backs for projections over 30 inches (76 centimeters).
 - 3. Finish: [Powder-coat] or [Custom].
- F. Metal Canopy with Pans GJ-MCP
 - 1. Fascia: [8 inches (20 centimeters)], [10 inches (25 centimeters)], [12 inches (30 centimeters)], or [custom].
 - 2. Water Diversion: 8-inch (20 centimeter) interlocking pans.
 - 3. Upper extension is required for fascia over 8 inches (20 centimeters).
 - 4. Support: Upper support rod assembly.
 - 5. Internal gutter system with [single] or [multiple] scuppers located at [front], [rear], [left], and/or [right].
 - 6. Finish: Powder-coat.
- G. Cantilevered Metal Canopy with Pans GJ-CMCP.
 - 1. Fascia: [8 inches (20 centimeters)], [10 inches (25 centimeters)], [12 inches (30 centimeters)], or [custom].
 - 2. Water Diversion: 8-inch (20 centimeter) interlocking pans.
 - 3. Upper extension is required for fascia over 8 inches (20 centimeters).
 - 4. Support: Built-in beam.
 - 5. Internal gutter system with [single] or [multiple] scuppers located at [front], [rear], [left], and/or [right].
 - 6. Finish: [Powder-coat] or [Custom].
- H. Louvered Sunshade GJ-LVS
 - 1. Louver Spacing: [As required] or [As indicated on drawings].
 - 2. Louver Style: [Z-blade], [Airfoil], or [Rectangular].
 - 3. Aluminum channel or tubing perimeter: [6 inches (15 centimeters)], [8 inches (20 centimeters)], [10 inches (25 centimeters)], [12 inches (30 centimeters)], or [custom height].
 - 4. Tie backs for projections over 30 inches (76 centimeters).
 - 5. Finish: [Powder-coat] or [Custom].

2.5 FABRICATION

- A. See drawings for size and configurations. Fabricate the system in accordance with shop drawings. Accurately form components to suit each other and the building structure.
- B. Fit and weld all joints and components in the largest practical sizes for delivery to the Project site.
- C. Fabricate Fascia gutter systems with welded joints and bolt together at frame splits if necessary.

- D. Exposed Fastenings: Unobtrusively locate, consistent with design of component except where specifically noted otherwise.
- E. Supply components required for anchorage of framing. Fabricate anchors and related components of the same material and finish as framing, except where specifically noted otherwise.
- F. Systems with internal gutters and concealed drainage: Water shall drain from covered surfaces into integral fascia gutter and be directed to either the front for drainage or the rear for ground level discharge via one or more designated downspouts.
- G. Hanger rods and attachment hardware shall be finished to match the canopy.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Erection shall be performed by the manufacturer's approved installer and scheduled after concrete, masonry, and roofing work in the area is complete.
- B. Examine Project conditions and completed Work and verify that the surface area where the canopy is to be installed is complete in construction and workmanship. Verify that the wall substrate anchors are acceptable and ready to receive work. Confirm the dimensions and locations of attachment points are as shown on approved shop drawings. Discrepancies must be reviewed with the Architect prior to installation.
- C. Immediately correct all deficiencies and conditions which would cause improper execution of Work specified in this Section and subsequent Work.
- D. Proceeding with Work specified in this Section shall be interpreted to mean that all conditions were determined to be acceptable prior to start of Work.

3.2 PREPARATION

- A. Surface Preparation: Prepare surfaces using the methods recommended by the manufacturer for achieving the best results for the substrate under the project conditions.

3.3 ERECTION

- A. Install in accordance with the manufacturer's approved shop drawings and written instructions.
- B. Set canopy plumb and level, accurately fitted, free from distortions or defects.
- C. Provide required anchors for connecting framing to the structure.
- D. Conceal bolts and screws wherever possible. Where not concealed, use flush countersunk fasteners.

3.4 ADJUSTING

- A. Maximum Variation from Plumb: 1/4 inch per story, non-cumulative.
- B. Maximum Misalignment from True Position: 1/4 inch.

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- C. After completing installation, inspect exposed finishes and repair damaged finishes according to the manufacturer's instructions.

END OF SECTION