



SPECIFICATIONS

Section 10530 – Aluminum Walkway Covers

OVERHEAD SUPPORTED C-BEAM CANOPIES

Part 1: General

1.01 Related Documents

- A. The requirements of Division 1 specifications shall apply to work specified in the section.

1.02 References

- A. International Building Code 2006
- B. ASCE 7-05, Minimum Design Loads for Buildings and Other Structures
- C. Aluminum Design Manual 2005
- D. Local governing codes and standards for site location

1.03 General Description of Work

- A. Work in this section shall include design, fabrication, and installation of aluminum protective covers. All work shall be in accordance with the shop drawings and this specification section.

1.04 Submittals

- A. Shop Drawings – Submit complete shop drawings including:
 - 1) Overall canopy layout dimensions
 - 2) Cut section details including elevation, wall attachment details, and connection details
 - 3) Flashing details pertaining to aluminum canopy
 - 4) Canopy anchorage details
- B. Product Data – Submit manufacturer’s product information, specifications, and installation instructions for the aluminum canopy.
- C. Samples – Submit color selection samples of actual coated aluminum material or actual anodized aluminum material.
- D. Certification – Provide letter of compliance certifying that the proposed canopy design and layout meets or exceeds all applicable loadings (ex: wind load, rain live load, dead load, snow load) for the job location (city & state) in accordance with IBC 2006 and ASCE 7-05.

1.05 Quality Assurance

- A. Manufacturer Qualifications: Minimum five years experience in design, fabrication, and production of aluminum protective covers.
- B. Components shall be assembled in shop to greatest extent possible to minimize field assembly.
- C. Aluminum protective cover, including material and workmanship, shall be warranted from defects for a period of one year from date of completion of aluminum protective cover installation.

Part 2: Products and Materials

2.01 Acceptable Manufacturers

- A. **Mitchell Metals, LLC**
1761 McCoba Drive, Suite A
Smyrna, GA 30080
Phone 770.431.7300
Fax 770.431.7305
www.mitchellmetals.net
- B. Equivalent systems by other manufacturers will be approved for substitution by addendum if the following conditions are met:
 - 1) Other manufacturers must have submitted requested information and have been qualified to bid no less than 10 days prior to bid closing date.
 - 2) Manufacturer must submit complete company literature and information to the architect for review
 - 3) Manufacturer must submit complete proposed canopy system details, including sizes and strength values of all members to be used.

2.02 Design & Assembly

- A. Canopy shall use perimeter extruded gutter and extruded decking running perpendicular to wall being attached to. Extruded Decking shall be a roll-locked design where the extruded cap and pan shall interlock to make a rigid structure. Crimped decking is not allowed. Roll formed decking shall be allowed upon approval by the architect.

- B. Canopy gutter frame shall be welded into a single frame unless shipping does not allow. If shipping does not allow, canopy frame shall be riveted together at the corners and caulked inside to make a water-tight frame.
- C. Canopy gutter frame shall have a 10" C-Beam decorative frame attached to it using connector bolts at a minimum of 2'-0" on center. The 10" C-Beam frame shall encase only three sides of the canopy gutter frame. The 10" C-Beam frame shall be welded together into a single frame unless shipping does not allow. All connections between the canopy frame and the 10" C-Beam frame shall be caulked.
- D. Canopy shall be secured to the wall using a custom support rod system which uses 1" diameter galvanized round overhead support rods. The 1" diameter support rods shall have an eye bolt welded to each end. The canopy wall bracket shall be an eye bolt welded to the center of a 6"x6" galvanized plate. The 1" diameter support rod shall be connected to the wall bracket using a 7/8" galvanized Bolt, Nut, and Washers. The canopy frame shall have a galvanized saddle bracket with an eye bolt welded to the top of it. The 1" diameter support rod shall be connected to the saddle bracket using a 7/8" galvanized Bolt, Nut, and Washers.
- E. Canopies shall drain from the decking to the perimeter gutter, and discharge from the bottom of the gutter out of a drain scupper. Downspouts can be used to drain the water from the overhead supported canopy to the ground upon the architect's request.
- F. Canopy shall be pitched toward the scupper/downspout to allow proper drainage out of the canopy frame.

2.03 Materials

- A. Support Rods
 - 1) Support rods shall be fabricated from 1" diameter galvanized round rod.
 - 2) Round rod shall have an eye bolt welded to each end to emulate a turnbuckle design.
- B. Decking
 - 1) Decking shall be a rigid roll-locked design that is self flashing and utilizes interlocking sections.
 - 2) Extruded decking is to be of size indicated on architect's drawings.
 - 3) Roll Formed is allowed upon the architect's approval
 - 4) Where decking is run parallel to walkway, the ends of the pans shall be welded closed where decking does not terminate into a drain beam.
- C. Gutter
 - 1) Gutter shall be radius cornered aluminum extrusion of size indicated on architect's drawings. Minimum gutter size shall be 4"x 6" at 0.093" thick.
- D. C-Beam
 - 1) C-Beam shall be 10" x 2 1/2" x 0.125".

E. Flashing

- 1) Flashing shall be made of aluminum sheet painted to match the color of the canopy. Minimum flashing thickness shall be 0.040" thick.

2.04 Fasteners

- A. All fasteners shall be stainless steel with neoprene washers and rivets are 3/16" aluminum.
- B. All connecting bolts shall be hot dipped galvanized.

2.05 Finishes

- A. Factory applied baked enamel
 - 1) Enamel is to comply with AAMA 2603.
 - 2) Color is to be as selected by architect from manufacturer's standard color chart.
 - 3) Custom colors can be used upon the architect's request.

Part 3: Installation and Execution

3.01 Erection

- A. Canopies are to be installed according to approved shop drawings and plans.
- B. The entire structure shall be installed straight, true, and plumb according to standard construction procedures.
- C. All fasteners penetrating the building's face shall be caulked.
- D. Any blocking necessary to install the overhead supported canopy shall be installed by the General Contractor according to the approved shop drawings prior to canopy installation.
- E. Canopies shall be installed with positive and negative slope of 1/8" per foot to allow water drainage from top of canopy to draining scuppers/downspouts and eliminate ponding.
- F. All joints, corners, and connections shall be tight and clean.
- G. All exposed fasteners and galvanized members are to be painted to match the canopy color.
- H. Decking is to be aligned and secured to aluminum frame structure.

3.02 Cleaning

- A. All canopy surfaces exposed are to be cleaned after installation is complete.



- B. Surplus materials and debris shall be removed from the jobsite after installation is complete.

3.03 Protection

- A. General Contractor shall ensure protection of installed aluminum canopies from other construction so that canopies are without damage at time of substantial completion of project.