



Columbus Awning Canopy Post Supported Specifications – Walkway, Carport, Entrance Way.

Part 1: General

1.1 Description of Work

1. Work in this section includes design, manufacturing and installation of extruded aluminum canopies or extruded aluminum wall-supported canopies as designed and manufactured by Columbus Awning Company, LLC.
2. Related Items and Considerations
 1. Concrete for canopy footings required by local requirements/ordinance and provided by GC or others.
 2. Flashing of various designs may be required. Generic flashing and specialty flashing to be supplied by Columbus Awning Company, LLC.
 3. Determine wall construction, make-up, and thickness if applicable. Shop drawings provided by Columbus Awning will detail components, brackets, and pre-installation requirements.
 4. Ensure adequate posts, frame, and decking to carry canopy loads where required.
 5. Consider water drainage away from canopy where necessary.
 6. Any necessary removal or relocation of existing structures, obstructions, or materials.

1.2 Quality Assurance

1. Codes and standards: Comply with provisions of the standard building codes, AWS (American Welding Society) standards for structural aluminum or steel welding.
2. Manufacturer: Products meeting these specifications established standard of quality required as manufactured by Columbus Awning Company, LLC.
3. Installer Qualifications: Firm with not less than ten years' experience in installation of aluminum walkway covers of type, quantity, and installation methods similar to work of this section.

1.3 Submittals

1. Shop Drawings – Submit complete shop drawings for canopy layout and dimensions. Elevation, Plan view, cross sections, bent layout dimensions, connection details and wall connection details.
2. Concrete footing plans and depths, and/or wall connection details.
3. Product Data and Sample Color Chips for review and approval.
4. Certification – Provide PPE certification for wind load, rain live load, dead load, snow load for city/state of installation.

1.4 Field Measurement

1. Confirm dimensions prior to preparation of shop drawings when possible.
2. If requested, supply manufacturer standard literature and specifications for canopies.
3. Submit shop drawings showing structural component locations/positions, material dimensions and details of construction and assembly.
4. Site preparation, concrete footers and/or wood blocking will be detailed and specified in the shop drawings to be completed by others, unless specified.

1.5 Performance Requirements

1. Canopy must conform to local building codes.
2. Determine if PE Stamped calculations are required and must be signed and sealed by an engineer licensed within the state canopy is installed.

1.6 Deliver, Storage, Handling

1. Deliver and store all canopy components in protected areas.

Part 2: Products

2.1 Design, Engineering, Manufacturer and Installation

1. Columbus Awning Company, LLC
297 Old County Line Road
Westerville, OH 43081 (614) 426-4206
www.columbusawningcompany.com

2.2 Materials

1. Decking will be detailed in shop drawings based on design and function. Options include but not limited to:
 - A. Extruded interlocking aluminum flat decking pans, alloy 6063-T6, .081” gauge

- B. Roll Formed extruded interlocking 12" x 2.5" W-Pans, gauge .025 - .040, aluminum and steel options.
 - C. Steel 7.2 Panel (WP72), 22-gauge or thicker, 2 Coat DynaClad Kynar 500 finish standard top primer white underneath, DMI.
 - D. 3" cap and 6" pan extruded interlocking decking, alloy 6063-T6, .076" gauge
 - E. Selection determined in the shop drawing.
2. Gutter Beams
- A. 4" x 6", 4" x 8", 6" x 8", 6"x10" or 6" x 12". Thickness .125", Aluminum 6063 T-6 R1, .125". Selection determined in the shop drawing.
3. Posts
- A. 6"x6" or 4"x4". Aluminum 6063 T-6, .125". Selection determined in the shop drawing.
4. Fascia/Gutter shall be standard extruded aluminum
- A. 6", 8", 10" or 12" J style with Fascia Extension determined in the shop drawing, alloy 6063-T6, .125" thickness.
5. Optional Steel Beams/Posts based on span and requirements – ASTM A500 Grade B, 14 GA thickness or as required.
6. Flashing will be made of aluminum sheet painted to match the color of the canopy system. Minimum flashing thickness shall be 0.040" thick.
7. Fasteners will be 300 series steel with neoprene washers.
8. Downspouts are 24 GA Aluminum, 2" x 3" smooth finish, specified in shop drawing.
9. Anchors 5/16", 5" to 8" in length, determined in shop drawing.

2.3 Finishes

- 1. Finish type – Standard Series 49 Exterior Tiger Drylac Poly Resin Powder Coating.
- 2. Finish type – Series 38 Super Durable Tiger Drylac Poly Resin Powder Coating.
- 3. Decking Options – Kynar DynaClad finishes or Baked Enamel finish options.

2.4 Fabrication

- 1. Support columns and gutter beams shall be designed such that the columns will be notched to create a "saddle" that will receive and secure the gutter beams.
- 2. Steel Welds conform to AWS D1.1
- 3. Aluminum Welds conform to AWS D1.2
- 4. Post and beams shall be welded in field or mechanically assembled utilizing 3/16" fasteners with a minimum shear stress of 350 lb.
- 5. Frames will provide seamless gutters and optionally internal water drainage to support beams and standard post drain.

6. Concealed drainage. Water shall drain from covered surfaces into intermediate trough and be directed to Standard Post Drain. Curved shaped water outlet holes are to be cut at the bottom of all draining columns with deflector plates installed internally.
7. Decking shall be designed with interlocking extruded aluminum or steel members with mechanical fasteners field applied to provide structural integrity for the completed assembly.

Part 3: Execution

3.1 Inspection

1. Confirm that surrounding area is ready for the canopy installation.
2. Shop drawings may require concrete post/pad footings for General Contractor or others prior to installation.
3. Columbus Awning will confirm dimensions and elevations to be as shown on drawings provided.
4. Erection shall be performed by Columbus Awning Company, LLC and scheduled after all concrete, masonry and roofing in the area is completed

3.2 Installation – Column Footings

1. Styrofoam blockouts shall be provided by the canopy manufacturer and installed by the General Contractor.
2. General Contractor shall pour the specified concrete foundation size around the blockouts.
3. Installer will fill with minimum 2000 psi grout to finished level.
4. Columns/Posts are to be locked into the concrete foundation using a single piece of ½" x 7" rebar connected through the column/post.
5. Slab mounting is permitted upon architects' approval. 5" x ½" Stainless steel wedge anchors into welded base plate attached to the column base.

3.3 Installation - Erection

1. Installation shall be in strict accordance with shop drawings. Particular attention should be given to protecting the finish during handling and erection.
2. The entire structure shall be installed straight, true, and plumb according to standard construction procedures.
3. Canopies shall be installed with minimal slope to allow water flow from top of the canopy to draining columns and eliminate ponding.
4. All joints, corners and connections shall be tight, sealed, and clean.
5. All exposed fasteners are to be painted to match the canopy color.
6. After installation, entire system shall be left in a clean condition.