Awnex Colorado Canopy Specifications

Part 1 General

1.1 Description of work

A. Work in this section includes furnishing and installation of extruded and/or formed aluminum overhead canopies, as furnished by Awnex Inc.

B. Related Items and considerations

1) Determine the method of wall connections, using either hanging brackets and rods, cantilever style brackets, or internal outriggers.
2) Flashing of various designs as required.
3) Determine wall construction, make-up, and thickness.
4) Ensure adequate wall construction to carry canopy loads as required.
5) Consider water drainage out of and away from canopy, with front located gutter drained via scupper, or rear located gutter drained via downspout supplied by Awnex or by others, as requested.
6) Consider any necessary removal or relocation of existing structures, obstructions or materials.
7) Lighting, wiring, and electrical diagrams, as required.
8) Canopy attachment hardware to match building and application.
9) Determine construction method, and materials to best match application and desired face height.

1.2 Quality Assurance

A. Products specified herein meet the established standard of quality required, as manufactured by Awnex Inc., Ball Ground, GA, 770-704-7140.

1.3 Field Measurement

A. Confirm dimension prior to shop drawings when possible or necessary.

B. If requested, supply manufacturer's standard literature and specifications for canopies.

B. Submit shop drawings showing structural component locations/positions, material dimensions, and details of construction and assembly.

1.4 Performance Requirements

A. Canopy must conform to local building codes.

B. Determine if specific load requirements have been established for canopies and if stamped calculations and drawings are required for location in which canopy is to be installed.

1.5 Delivery, Storage, and Handling

A. Deliver and store all canopy components in protected areas until ready for installation.

1.6 References

A. American Architectural Manufacturers Association (AAMA)

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

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

C. ASTM International (ASTM)

1) B-221 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.

Part 2 Products

2.1 Manufacturer

A. Awnex Inc.
260 Valley St.
Ball Ground, Georgia
Phone: 770-704-7140
Fax: 770-704-7647

2.2 Materials

A. Rain pans shall be brake-formed sheets at 1/16" thickness (width varies), attached via #10 x 3/4" H.H. self-drilling screws.

B. Rear channel, at standard sizes of 8", 10", 12" shall be extruded aluminum alloy 6063-T5, at a nominal thickness of 1/8". If face size deviates from the standard sizes, rear channel, side and face pieces shall be brake-formed sheet at 1/8" thickness.

C. Gutter members shall be brake-formed aluminum sheets at 1/8" thickness, or extruded aluminum, alloy 6063-T6 at a nominal thickness of 1/8".

D. Intermediate framing members (compression bars) shall be extruded aluminum, alloy 6005A-T5, at a nominal thickness of 1/8".

E. Soffit support tubes shall be extruded aluminum, alloy 6036-T52, at a nominal thickness of 1/8".

F. Soffit trim angle shall be extruded aluminum, alloy 6063-T52, at a nominal thickness of 1/8".

G. Soffit shall be brake-formed aluminum sheets at 1/16" thickness.

H. Tie-back rods and exposed attachment brackets and hardware (as required) shall be powder coated.

I. Cantilever style brackets (as required) shall be welded aluminum flat bar, alloy 6061-T6511, at 1/4" thickness.

J. Internal outriggers shall consist of minimum of 2" x 3" x 1/4" THK. carbon steel tube, welded to minimum 1/4" thickness steel plate.

K. End and face members for 8" flat, 8" open, and 10" open face configurations, shall be snap channel of extruded aluminum, alloy 6063-T5, at a nominal thickness of 1/8".

L. End and face members for 10", 12", 16" flat face configurations shall be extruded aluminum tube, alloy 6063-T52, at 1/8" thickness.

M. Faces that deviate from those specified in sections "K" and "L" shall be brake formed aluminum.

N. All aluminum sheet shall be alloy 3003-H14

2.3 Fascia shall be standard 8" flat face, 8" open channel face, or 10" open channel face, extruded aluminum, alloy 6063-T5 at a nominal thickness of 1/8". Deviation from these faces will require brake-formed or extruded aluminum pieces to be attached mechanically to the canopy frame.

2.4 Finishes

A. Standard powder-coat finish shall conform with AAMA 2603 specifications. Color charts and samples are available upon request.

B. Optional finishes include standard and custom two-coat Kynar colors, wood-look "sublimated" finish, and wet paint.

2.5 Fabrication

A. All Colorado canopies are shipped in pre-assembled sections for ease of installation.

B. All connections shall be mechanically assembled, utilizing 410 stainless steel #10 and #14 size fasteners with a minimum shear stress of 350 lb.

C. Concealed drainage. Water shall drain from covered surfaces into formed gutter located at the front for front drainage via scuppers, or the rear for ground level discharge via one or more designated downspouts (as specified).

Part 3: Execution

3.1 Inspection

A. Confirm that surrounding area is ready for the canopy installation.

B. Installer shall confirm dimensions and elevations to be as shown on drawings provided by Awnex Inc.

C. Erection shall be performed by a qualified installer of similar products and scheduled after all concrete, Masonry, and roofing in the area is completed.

3.2 Installation

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

3.3 After installation, entire system shall be cleaned, inspected, sealed, and left in a clean condition.