

SECTION 10 73 16 - METAL CANOPIES
SECTION 10 73 24 - [CAR SHELTERS] [WALKWAY COVERS]

PART 1 GENERAL

1.1 SUBMITTALS

- A. Action Submittals:
 - 1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
 - 2. Product Data: Manufacturer's descriptive data and product attributes.
 - 3. Samples: [Selection samples.] [Verification samples.]
- B. Informational Submittals:
 - 1. Certificate of Compliance: Certification that installed products meet specified design and performance requirements.

1.2 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Firm specializing in work of this section with minimum [2] [] years' experience.
 - 2. Utilize manufacturers trained installer.
- B. Mockup: Minimum [4] [6] [] feet long. Approved mockup [may] [may not] remain as part of the Work.

1.3 SYSTEM DESCRIPTION

- A. Provide [wall-supported cantilevered] [wall and post supported] [fully post-supported] [tie-back (hanger rod) supported] exterior metal canopies.
- B. Employ qualified professional engineer licensed in State in which project is located.
- C. Design Requirements: Design canopy system to withstand:
 - 1. Live and dead loads in accordance with Building Code.
 - 2. Movement caused by an ambient temperature range of [120] [] degrees F and a surface temperature range of [160] [] degrees F.
- D. Design canopies to AA ADM-2020 Aluminum Design Manual, 2020 Edition.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by D8 Products (715) 327-4660 www.d8products.com
- B. Substitutions: [Refer to Division 01.] [Not permitted.]

2.2 MATERIALS

- A. Aluminum Extrusions: ASTM B221.
- B. Aluminum Sheet: ASTM B209.
- C. Fasteners:
 - 1. Rivets: Size 3/16 inch x 1/2 inch grip range high-strength aluminum rivets with aluminum mandrel.
 - 2. Bolts, Nuts and Washers: 18-8 non-magnetic stainless steel.

- D. **Isolation**: Isolate aluminum from cementitious materials and dissimilar metals by use of zinc rich paint, bituminous coating, or non-absorptive gaskets.
- E. Exposed Sealant: ASTM C920 polyurethane type in color to adjacent material.
- F. Concealed Sealant: ASTM C1311.

2.3 FABRICATION

- A. Fabricate in accordance with AA ADM-2020.
- B. Decking: Form from 5052 H32 aluminum sheet.
- C. Fascia Channel and Gutter Frame: Extruded aluminum, minimum 8 inches high x 2-inches wide x 0.125 inch thick.
- D. **Cantilever Supports**: Single piece, non-welded wall support brackets with slip-on outrigger beams, minimum 8 x 2 x 0.125 inch.

*** OR ***

- E. Post Support Columns: Minimum 6 by 6 by 0.25 inch extruded aluminum shapes.

*** OR ***

- F. Wall Tie-Back Supports: 6061 aluminum, 1-inch round overhead support rods or tubes with adjustable clevis and eye at each end.
 - 1. Wall Bracket: Aluminum 5052 square plate with means to capture and support tie-back rod eye using bolt, nut, and washers.
 - 2. Canopy Bracket: Aluminum 5052 saddle bracket secured to top of canopy frame to capture and support tie-back rod eye using bolt, nut, and washers.

- G. Drainage:
 - 1. Drain canopies from decking away from building to internal gutter and discharge through drain scupper.
 - 2. Slope drain pans.

- H. **Flashings**: Aluminum sheet finished to match canopy, minimum [0.050] [] inch thick.

2.4 FINISHES

- A. **Aluminum**: AAMA 611, Architectural Class I anodized, [clear.] [dark bronze.] [black.] [].
- B. **Aluminum**: AAMA 2604, powder coating, [white.] [sierra tan.] [charcoal gray.] [black.] [] color [to be selected from manufacturer's full color range].

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved Shop Drawings.

END OF SECTION