

**SECTION 10 7327
ALUMINUM WALKWAY COVERINGS**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes aluminum walkway canopy system.

1.2 SUBMITTALS

A. Shop Drawings:

1. Include plans and elevations at not less than 1 inch to 1-foot scale and details of sections and connections at not less than 3 inches to 1-foot scale.
2. Show anchorage and accessory items. Show all expansion joint locations and details. Provide templates for anchor and bolt installation by others.
3. Detail all anticipated field welds and mechanical joints and show locations on plans.
4. Shop Drawing for pre-engineered walkway cover shall bear the seal and signature of Structural Engineer registered in the State of Florida.
5. Submit structural calculations, signed and sealed by a Professional Engineer in the State of Florida verifying compliance with ASCE 7-10.

- B. Installer's Certification from manufacturer.

1.3 QUALITY ASSURANCE

- A. Design canopy system to meet wind-loading requirements for the FBC. Refer to Structural Drawings for wind and design pressures.
- B. Installers shall be certified by the manufacturer.
- C. Complete system shall be rigid frame with a water-tight internal drainage system.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

~~A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to:~~

~~A. Manufacturers; subject to conformance with plans and material specified are:~~

1. Alcan Building Products
2. Dittmer Architectural Aluminum
3. E.L. Burns Co., Inc
4. Mason-Florida, LLC
5. Peachtree Protective Covers
6. Perfection Architectural Systems
7. American Walkway Covers L.L.C.

2.2 MATERIALS

- A. Extruded Aluminum: 6063-T6
- B. Deck: 3-inch high by 6-inch wide profile (nominal), extruded.
- C. Beams and columns to be welded rigid aluminum bents with downspouts, flanges, anchors, sleeves, as required for a complete installation.

2.3 CONSTRUCTION

- A. Work shall include the structural tubular aluminum beams, columns,

canopy downspouts, and their placement within the boardwalk.

- B. Concealed Drainage: Water shall drain internally from the deck into the beams into pre-determined columns for discharge at ground level.
 - 1. Drainage openings to be factory cut with internal diverters to direct the flow of water
- C. Bent Construction: Beams and columns shall be welded into one piece rigid bents in the factory. Extruded structural ties shall be installed rigidly on top of all beam sections and shall also serve as closures between draining deck sections.
 - 1. Mechanical slip joints may be used for shipping purposes. Field weld seams after erection.
- D. Roof Deck: Extruded roof deck sections shall be composed of interlocking and self-flashing sections. Self-flashing and interlocking joints shall be fastened rigidly with fastenings as shown on shop drawings.
 - 1. Expansion Joints: Structure shall be designed for temperature changes of 120 degrees F with expansion joints provided if required. Expansion joints shall have no metal-to-metal contact.

2.4 FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- C. Class I, Clear Anodic Finish: AA-M12C22A41 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class I, clear coating 0.018 mm or thicker) complying with AAMA 611.

PART 3 - EXECUTION

3.1 INSPECTION, PREPARATION, AND INSTALLATION

- A. Examine conditions prior to the start of installation. Do not proceed until unsatisfactory conditions are corrected.
- B. Erection: In accordance with manufacturer's approved shop drawings. All bents shall be straight and true prior to placing concrete. Aluminum columns embedded in concrete shall be protected with 2 coats clear acrylic. Protect components from damage during installation and subsequent Work.
- C. Protect aluminum surfaces that come in contact with dissimilar materials with one coat of asphaltic emulsion paint in addition to factory protection.
- D. Canopy column drains will not be permitted to drain across concrete walkways.

END OF SECTION 10 7327