



Peachtree Protective Covers, Inc.
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SPECIFICATION 10530 – Walkway Covers and Canopies

PART 1 - GENERAL

1.01 Related Documents

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-I Specification Sections, shall apply to work specified in this Section.

1.02 General Description of Work

A. Work in this section shall include design, fabrication and installation of complete welded, extruded aluminum (and acrylic) protective cover system. All work shall be in complete accordance with the drawings and this specification.

1.03 References

- A. Specifications for Aluminum Structures, Sixth Edition, 1994.
- B. ASCE 7-95, Minimum Design Loads for Buildings and Other Structures, December 1995.
- C. American Architectural Manufacturers Association (AAMA)
- D. American Society for Testing and Materials (ASTM)

1.04 Related Sections

A. Concrete Work	Section 03300
B. Masonry Work	Section 04200
C. Miscellaneous Metals	Section 05500
D. Flashing and Sheet Metal	Section 07600
E. Sealants	Section 07900

1.05 Submittals

A. Product Data: Submit manufacturer's product information, specifications and installation instructions for building components and accessories.

B. Shop Drawings: Submit complete shop drawings including all necessary plan dimensions, elevations and details. General Contractor shall verify all dimensions and provide elevations at each column, finish floor, and related soffit before releasing to manufacturer for fabrication.

C. Certification: Submit design calculations signed by a Registered Professional Engineer, licensed in the project state. Design calculations shall state that the protective cover system design complies with the wind requirements of ASCE 7-95, the stability criteria of applicable building code, and all other governing criteria.

1.06 Quality Assurance

A. Protective Cover shall be wholly produced by a recognized manufacturer with at least five years experience in the design and fabrication of extruded aluminum walkway cover systems. Components shall be assembled in shop to greatest extent possible to minimize field assembly. Protective cover shall be installed by manufacturer. Third party installation is not acceptable. Protective cover system, including material and workmanship, shall be warranted from defects for a period of one year from substantial completion of installation.

PART 2 - PRODUCT

2.01 Manufacturers

A. Contract documents are based on products manufactured by:

**Peachtree Protective Covers, Inc.,
1477 Rosedale Drive, Hiram, GA 30141
770/439-2120, fax 770/439-2122
800/341-3325, ppc@peachtreecovers.com, <http://www.peachtreecovers.com>**

B. Other manufacturers will be considered for substitution only when the following conditions are met:

- Other manufacturers must qualify to bid not less than 10 days prior to bid closing date.
- Complete details, including sizes of all members and structural calculations showing loads applied in accordance with the specification must be submitted to the architect for review.

2.02 Design

A. Protective cover shall be all welded extruded aluminum system complete with internal drainage. Non-welded systems are not acceptable. Roll formed deck is not acceptable. Expansion joints shall be included to accommodate temperature changes of 120°F. Expansion joints shall have no metal to metal contact.

2.03 Materials

A. Aluminum Members: All sections shall be extruded aluminum 6063 alloy, heat treated to T-6 temper.

B. Acrylic: Sheet acrylic shall be equal to Rohm & Haas Plexiglas7 extruded acrylic per ASTM D1547.

C. Polycarbonate: Polycarbonate glazing shall be equal to G.E. Lexan7.

D. Fasteners: Fasteners shall be aluminum, 18-8 stainless steel or 300 series stainless steel.

E. Protective Coating: Aluminum columns embedded in concrete shall be protected by clear acrylic.

F. Grout: Grout shall be 2000 p.s.i. compressive strength, 1 part Portland cement and 3 parts masonry sand. Add water to produce pouring consistency.

G. Gaskets: Gaskets shall be dry seal santoprene pressure type.

2.04 Components

A. Columns: Columns shall be radius-cornered tubular extrusion of size shown on drawings with cutout and internal diverter for drainage where indicated. Circular downspout opening in column not acceptable.

B. Beams: Beams shall be open-top tubular extrusion of size and shape shown on drawings, top edges thickened for strength and designed to receive deck members in self-flashing manner. Structural ties shall be installed in tops of all beams.

C. Deck: Deck shall be extruded self-flashing sections interlocking into a composite unit. Closures at deck ends shall be welded plates.

D. Fascia: Fascia shall be manufacturer's standard shape. Size as indicated on drawings.

E. Flashing: Flashing shall be .040 aluminum (min.). All thru-wall flashing by others.

F. Arches: Arches for barrel vault protective covers shall be sharp-cornered tubular extrusions of size shown in drawings.

2.05 Fabrication

A. Bent Construction: Beams and columns shall be factory welded with neatly mitered corners into one-piece rigid bents. All welds shall be smooth and uniform using an inert gas shielded arc. Suitable edge preparation shall be performed to assure 100% penetration. Grind welds only where interfering with adjoining structure to allow for flush connection. Field welding is not permitted. Rigid mechanical joints shall be used when shipping limitations prohibit the shipment of fully welded bents.

B. Deck Construction: Deck shall be manufactured of extruded modules that interlock in a self-flashing manner. Interlocking joints shall be positively fastened at 8" O.C. creating a monolithic structural unit capable of developing the full strength of the sections. The fastenings must have minimum shear strength of 350 pounds each. Deck shall be assembled with sufficient camber to offset dead load deflection.

2.06 Factory Finishing

A. Finish shall be selected by architect.

- For factory baked enamel finish, specify AAMA 603.8, standard or custom color
- For flouropolymer (Kynar) finish, specify AAMA 605.2, two or three coat
- For clear anodized finish, specify AA-M-10 C-22 A-31 (AAMA 607.1)
- For bronze or black anodized finish, specify AA-M-10 C-22 A-44 (AAMA 606.1)

PART 3 - EXECUTION

3.01 Preparation

A. Erection shall be performed after all concrete, masonry, and roofing work in the vicinity is complete and cleaned.

3.02 Installation

A. Column Sleeves: Column sleeves (styrofoam blockouts) or anchor bolts (if required) shall be furnished by Peachtree Protective Covers, Inc. and installed by the General Contractor.

B. Erection: Protective cover shall be erected true to line, level and plumb. Aluminum columns embedded in concrete shall be protected by clear acrylic. Downspout columns shall be filled with grout to the discharge level to prevent standing water. Non-draining columns shall have weep holes installed at top of concrete to remove condensation.

3.03 Cleaning

A. All protective cover components shall be cleaned promptly after installation.

3.04 Protection

A. Extreme care shall be taken to protect materials during and after installation.