

CONTRACT NO. 21-540

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 077113 – ALUMINUM COPINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

- 1. Aluminum copings and related construction.

B. Related Work Specified Elsewhere

- 1. Division 07 Section "THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING" for installing sheet metal flashing and trim integral with membrane roofing.
- 2. Division 07 Section "Joint Sealants".
- 3. Division 06 Section "Rough Carpentry" for treated wood nailer plates on top of parapets.

1.3 SUBMITTALS

- A. Product Data: Each type of product specified. Submit manufacturer's detailed technical product data, installation instructions and recommendations, dimensions of individual components, profiles, and finishes
- B. Shop Drawings: Show fabrication and installation of parapet copings including fully dimensioned roof plans, expansion joint locations, sections and details of components and other related trims.
- C. Finish & Color Selection: Furnish manufacturer's technical data for specified finish and color chart showing full range of colors available.

1.4 QUALITY ASSURANCE

- A. Where pre-engineered manufactured products are specified, other field fabricated or shop/field fabricated substitutions will not be accepted. However, where shop/field fabrications are indicated pre-engineered systems will be considered with Architect approval.
- B. Obtain all components and related accessories from one single source manufacturer.

CONTRACT NO. 21-540

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

- C. Follow manufacturer's printed instructions for installing parapet copings. If copings join a roof system, then follow primary roofing manufacturer's printed instructions for installing associated roof material for flashing parapets and coping.

CONTRACT NO. 21-540

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

1.5 DELIVERY, STORAGE & HANDLING

- A. All products delivered shall be stored in a clean dry location prior to installation.
- B. Products furnished with strippable protective masking shall not be exposed to direct sunlight for more than 30 minutes without removing masking.
- C. Do not install finished materials with scars or abrasions.

1.6 PROJECT CONDITIONS

- A. Coordinate work of this Section with adjoining work for proper sequencing to ensure protection from inclement weather and to protect materials and their finish against damage.
- B. Do not install copings during inclement weather. When installing in cold climates, warm adhesives, caulks, and primers to at least 50 degrees Fahrenheit prior to application.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Johns Manville Roofing Systems Presto Lock Coping System, or a pre-approved equal.

2.3 MATERIALS & FABRICATION

- A. Parapet copings shall be manufactured from 0.050" mill finished aluminum in 12'-0" lengths. Coping to have be formed with a ½" wash slope to divert water to roof side of parapet
- A. Anchor clip base 12" wide, 20 gauge (0.91 mm) base; concealed splice plate 8" aluminum with finish to match cover
- B. Compression cleats shall be manufactured from 16 gauge galvanized steel, 12" widths with factory mounted stainless steel spring clips.

2.4 ACCESSORIES

- A. Mitered Corners: Provide factory mitered corners. Coping profiles shall be precision saw cut with a continuous welded seam to produce a watertight joint.

- B. Sculptured End Caps: Provide factory mitered end caps for copings. Coping profiles shall be precision saw cut with a continuous weld to produce a watertight joint.

2.5 FINISHES

- A. General: Apply coatings to exposed aluminum components after fabrication for maximum coating performance and to prevent crazing, abrasion, and damage to finished surfaces.
- B. Pretreatment: Aluminum components shall be pretreated with solutions to remove organic and inorganic surface soils, remove residual oxides, followed by a chrome phosphate conversion coating to which organic coatings will firmly adhere.
- C. Coating Type: High Performance Coating. Kynar 500 meeting AAMA 2605 specification. **Color to match existing wall metal panel system.**

PART 3 EXECUTION

3.1 EXAMINATION

- A. The installer must examine substrates and conditions under which copings will be installed. All wood plates shall be installed true, straight, and free of splits, cracks, or other irregularities. Do not proceed with installation until unsatisfactory conditions are corrected.

3.2 INSTALLATION

- A. General: The parapet coping system shall be installed in strict accordance with manufacturer's printed instructions. Deviations from the instructions are not allowed.
- B. Fastening: Coping shall be snapped onto compression cleats spaced according to manufacturer's instructions. A cleat shall be located at the coping's splice joint and in the middle of each coping section. Cleat shall be fastened with (4) #12 x 1 ½" stainless steel wood screw.
- C. Install coping concealed splice plates at all coping joints. Splice plate shall be sealed with a non-hardening, low modulus, sealant as recommended by coping manufacturer.