

SECTION 07 70 01
ROOF SPECIALTIES AND ACCESSORIES

PART 1 GENERAL

1.01 REFERENCES

A. The following is a list of standards which may be referenced in this section:

1. Air Movement and Control Association International (AMCA).
2. American Architectural Manufacturers Association (AAMA).
3. ASTM International (ASTM):
 - a. D1187, Standard Specification for Asphalt-Base Emulsions for Use as Protective Coatings for Metal.
 - b. D4586, Standard Specification for Asphalt Roof Cement, Asbestos-Free.
4. FM (Factory Mutual) Global (FM).
5. UL.

1.02 SUBMITTALS

A. Action Submittals:

1. Shop Drawings of each item specified showing materials, details, flashing, anchorage, and relation to adjacent structure.
2. Catalog cuts of each item specified item.

B. Informational Submittals:

1. Manufacturer's Certificate of Compliance per Section 01 67 00, Product Requirements, (or alternately, test results or calculations) that assure item's and its anchorage's design criteria meets requirements of Section 01 88 15, Anchorage and Bracing, for loads provided in General Structural Notes.
2. Sustainable Design: In accordance with Section 01 81 13, Sustainable Design Requirements for Non-LEED™ Projects, document sustainability performance for items listed below.
 - a. Product Data for Low Emitting Materials-Adhesives, and Sealants:
 - 1) A complete list of adhesives and sealants used inside the building envelope during construction.
 - 2) Manufacturer's literature documenting VOC content of each product, and compliance with requirements of South Coast Air Quality Management District (SCAQMD) Rule No. 1168.

- b. Product Data for Low Emitting Materials-Paints and Coatings:
 - 1) A complete list of paints and coatings used inside the building envelope during construction.
 - 2) Manufacturer's literature documenting VOC content of each product and compliance with requirements of Green Seal Standard GS-11, Green Seal Standard GC-03, and South Coast Air Quality Management District (SCAQMD) Rule No. 1113.

1.03 SEQUENCING AND SCHEDULING

- A. Coordination: Schedule and coordinate work of this section with work of Section 07 54 23, Thermoplastic Membrane (TPO) Roofing, Section 07 62 00, Sheet Metal Flashing and Trim, Section 22 40 00, Plumbing Fixtures, and Section 23 77 00, Air Handling Units.

PART 2 PRODUCTS

2.01 ROOF CURBS

- A. Manufacturers and Products:
 - 1. Pate Co.; PC 2.
 - 2. Or equal.
- B. Physical Characteristics: Prefabricated Galvanized Steel: Minimum 12-inch high curb with treated wood nailer, liner panel, and factory installed insulation as required for conditions shown on the Drawings.
- C. Functional Characteristics: Fabricate curbs to fit roof slope.
- D. Performance Characteristics: Metal Gauge and Reinforcement: To suit imposed loads of equipment to be supported.

2.02 FLEXIBLE BASE PIPE SEALS

- A. Manufacturers and Products:
 - 1. Pate Co.; Dektite.
 - 2. Or equal.
- B. Physical Characteristics: Prefabricated one-piece aluminum flanged base with stepped, graduated EPDM cap (gray or black color) and adjustable Type 304 stainless steel clamps.

C. Functional Characteristics:

1. Pipe Seal: Size to fit each pipe (or conduit) and provide weathertight seal.
2. Aluminum base shall be capable of bending to match profile of sheet metal roofing panels.

D. Performance Characteristics: Temperature range of negative 30 degrees F to 265 degrees F.

2.03 SNOW RAILS

A. Manufacturers and Products:

1. SnoBlox; SnoBar.
2. Or equal.

B. Physical Characteristics: 16-gauge coated galvanized bar in color to match roofing with ice stoppers and Type 304 stainless steel seam clamps for attachment.

C. Functional Characteristics: Snow retention system for standing seam roofing.

D. Performance Characteristics: Minimum capacity of 500 pound per linear foot.

2.04 ANCILLARY MATERIALS

A. Physical Characteristics:

1. Sealing Tape: Polyisobutylene sealing tape.
2. Isolation Paint: As specified in Section 09 90 00, Painting and Coating.
3. Coat aluminum surfaces in contact with concrete or dissimilar metals as specified in Section 09 90 00, Painting and Coating.
4. Isolation Tape: Butyl or polyisobutylene, internally reinforced, or 20-mil-thick minimum polyester.
5. Plastic Roof Cement: ASTM D4586, Type II.
6. Fasteners: Stainless steel of type required.

B. Functional Characteristics: None.

C. Performance Characteristics: None.

PART 3 EXECUTION

3.01 PREPARATION

- A. Examine surfaces and structures to receive the Work of this section.
- B. Take measurements at Site and fabricate work to suit. No changes shall be made in supporting structure to accommodate this Work.

3.02 INSTALLATION

- A. General:
 - 1. Install roof specialties and accessories as detailed in approved Shop Drawings and in conformance with manufacturer's instructions, recommendations, and standards.
 - 2. Use appropriate flexible base pipe seal where pipe, conduit, or cable, etc., penetrate roofing membrane.
 - 3. Factory Finished Units: Place color variations in pieces so no extremes are next to each other.
 - 4. Make Work weathertight and free of expansion and contraction noise.
 - 5. Maintain separation between aluminum surfaces and concrete or dissimilar metals as specified in Section 09 90 00, Painting and Coating.
- B. Snow Rail: Install in strict accordance with manufacturer's written instructions, including recommended spacing for roof type, slope, and location, and attachment method. Recommended spacing may require more than one row of rail.

END OF SECTION