

ARCHITECTURE

SECTION 07720

ROOF ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. SUMMARY: Work Includes:
 - 1. Roof hatches with OSHA Safety pipe rail top.
 - 2. Premanufactured alternating tread stairs for roof access.
 - 3. Roof curb and equipment supports.
- B. Submittals: Product Data, Shop Drawings, and color Samples.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Aluminum Sheet: **ASTM B 209 (ASTM B 209M)**, alclad alloy 3005H25, or alloy and temper required to suit forming operations, with mill finish, unless otherwise indicated.
- B. Extruded Aluminum: **ASTM B 221 (ASTM B 221M)**, alloy 6063-T52, or alloy and temper required to suit structural and finish requirements, with mill finish, unless otherwise indicated.
- C. Galvanized Steel Sheet: ASTM A 653/A 653M, **G90 (Z275)**.

2.2 ROOF ACCESSORIES

- A. Roof Hatches: Fabricate from steel sheet or extrusions with **12-inch (304.8-mm-)** high, integral-curb, double-wall construction with **1-inch (25- mm)** insulation, formed cants and cap flashing, with welded or sealed mechanical corner joints. Provide double-wall cover (lid) construction with **1- inch- (25-mm-)** thick insulation core. Provide gaskets and corrosion-resistant hardware including pintle hinges, hold-open devices, interior padlock hasps, and both interior and exterior latch handles.
 - 1. Design Standard: Type NB, 30" x 54", steel as manufactured by Bilco Co., New Haven, CT.
 - 2. Fabricate units to withstand **40-lbf/sq. ft. (1.9- kPa)** external and **20-lbf/sq. ft. (0.95-kPa)** internal loading pressure.
 - 3. Finish: Red Oxide Primer for field painting.
 - 4. Provide OSHA approved pipe rail safety railing system at each roof hatch.
 - 5. For ladders, refer to Section 05500.
- B. Premanufactured Alternating Tread Stairways: Provide standard unit from one of the manufacturers listed below, or Architect approved equal. Unit to meet all configuration, structural loading and safety requirements of the 2003 IBC.
 - 1. F.S.Industries, Providence, RI.
 - 2. Lapeyre Stair, Inc., New Orleans, LA
 - 3. Vestil Manufacturing, Angola, IN.
 - 4. Architect approved equal.
 - 5. Secure at top and bottom per manufacturers written instructions.
- C. Roof Curbs and Equipment Supports: Fabricate from **0.0747-inch- (1.9-mm-)** thick, galvanized structural steel; factory primed and prepared for painting with welded or sealed mechanical corner joints.
 - 1. Provide units with cant strips and base profile coordinated with roof insulation thickness and roof deck slope.
 - 2. Provide preservative-treated wood nailers at tops of curbs.

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3. Provide manufacturer's standard rigid or semi-rigid insulation.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Installation: Unless otherwise indicated, install roof accessory items according to construction details of NRCA's "Roofing and Waterproofing Manual." Coordinate with installation of roof deck, vapor barriers, roof insulation, roofing, and flashing to ensure combined elements are secure, waterproof, and weather-tight.

END OF SECTION