SECTION 07720

ROOF ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Roof hatches.

B. Ladder safety post provided at each roof hatch.

1.02 RELATED REQUIREMENTS

A. Section 05310 - Steel Deck.

1.03 REFERENCE STANDARDS

A. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

B. ASTM A 792/A 792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.

C. FM P7825 - Approval Guide; Factory Mutual Research Corporation.

D. UL (BMD) - Building Materials Directory.

1.04 SUBMITTALS

A. See Section 01350 - Submittals, for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.
   4. Maintenance requirements.
   5. For smoke hatches, submit evidence of approval by evaluation agency specified.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store products under cover and elevated above grade.

PART 2 PRODUCTS

2.01 ROOF HATCHES

A. Manufacturers:
   1. Bilco Co.Type S Roof Hatch: www.bilco.com.
   2. Substitutions: See Section 01640 - Product Requirements.

B. Other Acceptable Manufacturers - Roof Hatches:
   1. Acudor Products Inc: www.acudor.com.
   2. Dur-Red Products: www.dur-red.com.
   3. Substitutions: See Section 01640 - Product Requirements.

C. Roof Hatches: Factory-assembled steel frame and cover, complete with operating and release hardware.
   1. Style: Provide flat metal covers unless otherwise indicated.
   2. Mounting: Provide frames and curbs suitable for mounting on flat roof deck and metal roof deck.
   3. Mounting: Provide frames and curbs suitable for mounting conditions indicated on the drawings.

D. Frames/Curbs: One-piece curb and frame with integral cap flashing to receive roof flashings; extended bottom flange to suit mounting.
   1. Material: Galvanized steel, 14 gage thick.
   2. Finish: Factory prime paint.
   3. Insulation: 1 inch rigid wood fiber board, located on outside face of curb.
   4. Curb Height: 12 inches from surface of roof deck, minimum.

E. Metal Covers: Flush, insulated, hollow metal construction.
   1. Capable of supporting 40 psf live load.
   2. Material: Galvanized steel, outer cover 14 gage thick.
   3. Finish: Factory prime paint.
   4. Insulation: 1 inch rigid glass fiber.
   5. Gasket: EPDM, continuous around cover perimeter.

F. Hardware: Steel, zinc coated and chromate sealed, unless otherwise indicated or required by manufacturer.
   1. Lifting Mechanisms: Compression spring operator that automatically opens upon release of latch; capable of lifting covers despite 10 psf load.
   2. Hinges: Manufacturer's recommended type.
   3. Hold open arm with vinyl-coated handle for manual release.
   4. Latch: Upon closing, engage latch automatically and reset manual release.
   5. Locking: Padlock hasp on interior.

2.02 LADDER SAFETY POST

A. Bilco LU-1 or equal.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Alexander + Hibbs AIA, Inc. of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions, in manner that maintains roofing weather integrity.

3.04 CLEANING

A. Clean installed work to like-new condition.

3.05 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION