

SECTION 07724

ROOF HATCHES

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section describes the requirements for furnishing and installing the following:

1. Roof hatches.
2. Safety posts.

B. Related Sections:

1. Metal ladders are specified in Section 05515.
2. Polyvinyl-chloride roofing is specified in Section 07542.
3. Flashing and sheet metal work is specified in Section 07 62 00.

1.02 SUBMITTALS

A. Product Data: Manufacturer's technical data, rough-in diagrams, details, and installation instructions.

1.03 QUALITY ASSURANCE

A. Standards: Comply with SMACNA "Architectural Sheet Metal Manual" for fabrication, including flanges and cap-flashing. Comply with NRCA "Roofing and Waterproofing Manual" details for installation of units.

1.04 WARRANTY

A. Warrant roof hatches to be free from defects in materials and workmanship for a period of 5-years. This warranty shall be in addition to and not a limitation of other rights the Owner may have against the Contractor.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

A. Babcock-Davis Hatchways, Inc., Bilco Co., Bristolite Skylights, Dur-Red Products, Milcor, Inc., O'Keefee's, Inc., Wasco Products, Inc. or approved equal.

2.02 MATERIALS AND FABRICATION

A. Hatch Size: 2'-6" x 3'-0" unless otherwise indicated.

B. Cover: 14-gauge paint bond galvanized steel or 11-gauge aluminum with a 3-inch beaded flange, neatly welded. Insulation shall be glass fiber 1-inch in thickness, fully covered and protected by a 22-gauge paint bond steel or 18-gauge aluminum liner.

C. Curb: 12-inches high, 14-gauge paint bond galvanized steel or 11-gauge aluminum, formed with a 3-1/2-inch flange with holes provided for securing to the roof deck. Equip with an integral metal capflashing of the same gauge and material as the curb, full welded at the corners for weathertightness. Insulation on the exterior of the curb shall be rigid fiberboard 1-inch thick.

D. Fabrication: Roof hatch shall be completely assembled with heavy pintle hinges, compression spring operators enclosed in telescopic tubes, positive snap latch with turn handles and padlock hasps inside and outside, and thermoplastic rubber gasket. Equip cover with an automatic hold-open arm complete with red vinyl grip handle to permit easy release and one-hand control of the cover to its closed and latched position.

E. Hardware: Zinc plated and chromate sealed.

F. Finish: Red oxide primer on steel or mill finish aluminum.

- G. Safety Post: Bilco "Model 2 LadderUP Safety Post" or approved equal. Install on fixed ladders below hatch covers. Device shall be manufactured of high strength steel with telescoping tubular section that locks automatically when fully extended. Upward and downward movement shall be controlled by a stainless steel spring balancing mechanism. Finish shall be hot dip galvanized. Unit shall be completely assembled with fasteners for securing to the ladder rungs in accordance with the manufacturer's instructions.

### PART 3 - EXECUTION

#### 3.01 INSTALLATION

##### A. General:

1. Comply with manufacturer's instructions and recommendations.
2. Coordinate with installation of roof deck and roofing and flashing, as required to ensure that each element of the work performs properly, and that combined elements are waterproof and weathertight.
3. Anchor units securely to supporting substrates, adequate to withstand lateral and thermal stresses and inward and outward loading pressures.
4. Install accessories according to construction details of NRCA "Roofing and Waterproofing Manual".

B. Isolation: Where metal surfaces of units are to be installed in contact with incompatible metal or corrosive substrates, including wood, apply bituminous coating on concealed metal surfaces, or provide other permanent separation.

C. Flange Seals: Set flanges of accessory units in a thick bed of roofing cement to form a seal.

D. Operational Units: Test operate units with operable components. Clean and lubricate joints and hardware. Adjust for proper operation.

#### 3.02 CLEANING AND PROTECTION

A. Clean exposed metal surfaces in accordance with manufacturer's instructions. Touch up damaged metal coatings.

END OF SECTION