

## SECTION 07 72 33

### ROOF HATCHES

#### PART 1 GENERAL

##### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work in this section.
- B. Modified Bitumen Membrane Roofing – Section 07 52 00

##### 1.2 DESCRIPTION OF WORK

- A. Prefabricated roof hatches with integral support curbs, operable hardware, counter-flashings, and OSHA compliant hatch rail system.

##### 1.3 REFERENCES

- A. OSHA – Occupational Safety and Health Administration
- B. FM – Roof Assembly Classifications
- C. UL – Fire Hazard Classifications
- D. Florida Building Code

##### 1.4 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum 5-years documented experience.
- B. The same manufacturer shall provide roof hatches and hatch railing system.

##### 1.5 SUBMITTALS

- A. Product Data: Provide data on unit construction, size and configuration, jointing methods, attachment method, and manufacturer's installation instructions.

##### 1.6 REGULATORY REQUIREMENTS

- A. Conform to applicable Code for UL and FM requirements for fire rated roof hatches.
- B. Provide certificate of compliance from the manufacturer indicating testing lab approval of fire or smoke rated units.

#### PART 2 PRODUCTS

##### 2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide products by one of the following:
  - 1. Bilco Company, Type "S-20"
  - 2. Milcor, Inc., Type "RB-1"
  - 3. Babcock-Davis Hatchways, Inc., Type "B-RHG3630"

##### 2.2 ROOF HATCH SYSTEM

- A. Integral Steel Cover: 14-gauge galvanized, prime painted steel, ASTM A653/A653M, with rigid foam insulation; integral cap flashing to receive roof flashing; extended flange for mounting.
  - 1. Cover to be double wall construction with 1-inch thick insulation core.
- B. Flush Steel Cover: 14-gauge galvanized, prime painted steel with foam insulation, 22-gauge steel interior liner, and continuous neoprene gasket to provide weatherproof seal.
- C. Gaskets: Provide Manufacturer's standard design of neoprene or EDPM.
- D. Hardware:
  - 1. Provide compression spring operators and shock absorbers.
  - 2. Steel manual pull handle for interior and exterior operation.
  - 3. Steel hold-open arm with vinyl covered grip handle.
  - 4. Padlock hasp.

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5. Hinges use manufacturer's standard type.

### 2.3 HATCH RAIL SYSTEM

- A. Furnish and install as indicated on plans hatch rail system with self-closing gate.
  - 1. HSF series by Fall Protection USA.com
  - 2. KHML series by Keehatch Roof Hatch Railing System
  - 3. RHSR series by Keehatch Roof Hatch Railing System
  - 4. Milcor safety rail system
  - 5. SRCG series by Babcock-Davis
  - 6. Approved equal
- B. Performance characteristics:
  - 1. Hatch rail system shall satisfy the requirements of OSHA 29 CFR 1910.23 and shall meet OSHA strength requirements with a factor of safety of two.
- C. Posts and Rails: Shall be round hot dipped galvanized steel, stainless steel, or aluminum. Fiberglass is not acceptable.

### 2.4 FABRICATION

- A. Fabricate units to withstand 40-lb/SF (external) and 20-lb/SF (internal) loading pressure.
  - 1. Curb to be min. 12" high, integral with double wall construction and insulation.
- B. Fully weld all joints and corners.
- C. Provide for removal of condensation occurring within components or assembly.
- D. Fit components for weather-tight assembly.

## **PART 3 EXECUTION**

### 3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Coordinate with installation of the roofing system and related flashings for a weather-tight installation.

### 3.2 PROTECTION OF FINISHED WORK

- A. Protect adjacent surfaces from damage by material installation.
- B. Protect installation during construction activities.
- C. Adjust hinges for a smooth operation.

END OF SECTION