**SECTION 07 72 33**

**ROOF HATCHES**

**PART 1 GENERAL**

1. RELATED DOCUMENTS
   1. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work in this section.
   2. Modified Bitumen Membrane Roofing – Section 07 52 00
2. DESCRIPTION OF WORK
   1. Prefabricated roof hatches with integral support curbs, operable hardware, counter-flashings, and OSHA compliant hatch rail system.
3. REFERENCES
   1. OSHA – Occupational Safety and Health Administration
   2. FM – Roof Assembly Classifications
   3. UL – Fire Hazard Classifications
   4. Florida Building Code
4. QUALITY ASSURANCE
   1. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum 5-years documented experience.
   2. The same manufacturer shall provide roof hatches and hatch railing system.
5. SUBMITTALS
   1. Product Data: Provide data on unit construction, size and configuration, jointing methods, attachment method, and manufacturer’s installation instructions.
6. REGULATORY REQUIREMENTS
   1. Conform to applicable Code for UL and FM requirements for fire rated roof hatches.
   2. Provide certificate of compliance from the manufacturer indicating testing lab approval of fire or smoke rated units.

**PART 2 PRODUCTS**

1. MANUFACTURERS
   1. 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. ROOF HATCH SYSTEM
   1. 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.
   2. 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.
   3. Gaskets: Provide Manufacturer’s standard design of neoprene or EDPM.
   4. 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.
      5. Hinges use manufacturer’s standard type.
3. HATCH RAIL SYSTEM
   1. 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
   2. 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.
   3. Posts and Rails: Shall be round hot dipped galvanized steel, stainless steel, or aluminum. Fiberglass is not acceptable.
4. FABRICATION
   1. 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.
   2. Fully weld all joints and corners.
   3. Provide for removal of condensation occurring within components or assembly.
   4. Fit components for weather-tight assembly.

**PART 3 EXECUTION**

1. INSTALLATION
   1. Install in accordance with manufacturer’s instructions.
   2. Coordinate with installation of the roofing system and related flashings for a weather-tight installation.
2. PROTECTION OF FINISHED WORK
   1. Protect adjacent surfaces from damage by material installation.
   2. Protect installation during construction activities.
   3. Adjust hinges for a smooth operation.

END OF SECTION