

SECTION 07725
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 Roofing System – Section 07510.

1.2 DESCRIPTION OF WORK

- A. Prefabricated roof hatches with integral support curbs, operable hardware and counter-flashings.
- B. Prefabricated hatch rail system in compliance with OSHA 29 CFR 1910.23 requirements.

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 five-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, configuration, jointing methods, and attachment method.
- B. Manufacturer's installation instructions. Indicate any special installation criteria required to interface with adjacent components.

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 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, with rigid foam insulation; integral cap flashing to receive roof flashing; extended flange for mounting. Cover to be double wall construction with 1inch 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: Manufacturer's standard design of neoprene or EDPM.
- D. Hardware:
 1. 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 to be manufacturer's standard type.

2.3 HATCH RAIL SYSTEM

- A. Furnish and install as indicated on plans hatch rail system Model RL-S as manufactured by Bilco or approved equal.
 1. The hatch rail system shall be field assembled and installed per the manufacturer's instructions.
- B. Performance characteristics:
 1. Mold in a high visibility safety yellow color.
 2. Hatch rail system shall attach to the capflashing of the roof hatch and shall not penetrate any roofing material.
 3. 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.
 4. UV and corrosion resistant construction with a twenty-five year warranty.
 5. Provide self-closing gate with hatch rail system.
- C. Posts and Rails: Shall be round pultruded reinforced fire retardant yellow fiberglass treated with a UV inhibitor.
- D. Hardware: Mounting brackets shall be ¼" thick hot dip galvanized steel. Hinges and post guides shall be 6063T5 aluminum. Fasteners shall be Type 316 stainless steel.

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