SECTION  – roof hatches and accessories

1. General
   1. SUMMARY
      1. Section Includes:
         1. Prefabricated steel roof hatch, with integral support curbs, safety railings, operable hardware, and counter flashings.
         2. Safety Bar.
      2. Related Requirements:
         1. Section 05 50 00 – Metal Fabrications.
         2. Section 06 10 00 – Rough Carpentry.
         3. Section 07 54 23 – Thermoplastic Olefin Roofing (TPO).
         4. Section 07 62 00 – Sheet Metal Flashing and Trim.
         5. Section 07 92 00 – Joint Sealants.
   2. SUBMITTALS
      1. Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.
      2. Shop Drawings:
         1. Submit shop drawings showing construction and anchorage of roof hatches and accessories including, details of all elements of assembly and construction.
         2. Related items shown on shop drawings which are not intended to be supplied as part of the Work of this Section, shall be so identified. All dimensions shall be clearly noted and methods of fastening and anchoring detailed. Show accurately and identify all adjacent materials.
      3. Maintenance:
         1. On completion of Work of this Section, supply maintenance instructions for insertion into Operating and Maintenance Manual.
   3. quality assurance
      1. Manufacturer Qualifications: Use a manufacturer that has completed roof hatch assemblies having similar extent and complexity as required for the Work of this Contract.
      2. Installers Qualifications: Use experienced installers having experience with roof hatch assemblies similar in material, design and extent as required for Work of this Contract with a record of successful in-service performance.
   4. warranty
      1. Warrant the Work of this Section in accordance with General Conditions but for a period of two (2) years and agree to repair or replace faulty materials or work which becomes evident during the warranty period without cost to the Owner and at the Owner's convenience.
2. Products
   1. manufacturers
      1. Basis of Design Products: Products named in this Section were used as the basis of design for the project; additional manufacturers offering similar products may be incorporated into the Work of this Section.
      2. Acceptable Materials Manufacturers: Subject to compliance with requirements specified in this Section, manufacturers offering products that may be incorporated into the Work include but are not limited to, the following:
         1. Bilco Canada.
         2. Lexcor.
         3. Acudor.
   2. roof hatches
      1. Manufactured Units:
         1. Size: 30" by 36".
         2. Curb: 14-gauge galvanized G90 steel; 1-inch rigid insulation; integral cap flashing to receive roof flashing system; extended flange for mounting.
         3. Cover: 14-gauge galvanized G90 steel with one inch glass fibre insulation retained by 22-gauge steel inner liner. Continuous gasket to provide weatherproof seal.
         4. Hardware: Manufacturer's standard manually operated type with compression spring operators, positive snap latch with turn handles inside and out and padlock hasp inside; automatic hold open arm with vinyl covered grip handle for easy release; cadmium plated finish.
         5. Hinges: Heavy duty pintle type.
         6. Fasteners: Corrosive resistant fasteners recommended by roof hatch manufacturer.
         7. Basis of Design Material: Type S-20 by Bilco Canada.
   3. safety post
      1. Telescoping safety post complete with adjustable mounting hardware for securing to any ladder rung size. Unit to be complete with safety bar handle and stainless-steel fasteners.
      2. Basis of Design Material: Ladderup Safety Post, Model LU-1 by Bilco Canada.
   4. ROOF HATCH LADDER
      1. Steel Wall Ladder: As specified in Section 05 50 00 – Metal Fabrications.
   5. SAFETY RAIL
      1. Posts and Rails: Round, reinforced fire-retardant yellow fiberglass treated with a UV inhibitor, complete with Self-closing gate.
      2. Hardware:
         1. Mounting brackets shall be 1/4" thick hot dip galvanized steel.
         2. Hinges and post guides: 6063T5 aluminum.
         3. Fasteners: Type 316 stainless steel.
      3. Basis of Design Material: Bil-Guard Hatch Railing System, Model RL-S by Bilco Canada.
   6. FABRICATION
      1. Fabricate free of visual distortions and defects. Weld corners and joints.
      2. Fabricate units’ weather tight with integral cap flashing, providing for removal of condensation.
      3. Prime paint; one coat.
      4. Spot weld hasp, latch, and hinges to prevent removal from interior.
3. Execution
   1. INSTALLATION
      1. Install in accordance with manufacturer's instructions. Co-ordinate with installation of roofing system and related flashings. Provide weather tight installation.
      2. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.
      3. Safety Bar: Install in strict accordance with manufacturer's published instructions.
      4. Safety Rail: Attach hatch rail system to the cap-flashing of the roof hatch, as recommended by safety rail manufacturer. No penetration of roofing material is required.

END OF SECTION