

This section includes shop fabricated roof hatches (sometimes referred to as "scuttles") with integral support curb; operating hardware.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Part 1 General

1.1 SECTION INCLUDES

- .1 Prefabricated roof hatches with integral support curbs, operable hardware, and counterflashings.
- .2 [Ladders] [Ladder safety posts] [Safety grab bars].

1.2 RELATED SECTIONS

- .1 Section [____]: Roof system.

Include the following reference only if ladders are specified in Section 05 50 00, and not in this Section.

- .2 [Section 05 50 00 – Miscellaneous Metals: Steel stair.]
- .3 Section [07 51 13 - Built-up Asphalt Roofing - Conventional]: Tie-in to roofing system.
- .4 Section 07 62 00 - Sheet Metal Flashing and Trim: Flashing to roof system.
- .5 Section 09 91 10 - Painting: Field painting.

List sections which specify products for installation in this section and indicate specific items.

- .6 Section [____]: Supply of counter flashing for placement by this Section.

1.3 REFERENCES

Edit this article after editing the rest of this section. Only list reference standards below, that are included within the text of this section, when edited for a project specification.

- .1 ASTM A653/A653M-11 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

1.4 SUBMITTALS FOR REVIEW

Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations to drawings, thereby increasing the Specifier's liability. The following submittals are intended for review and approval or other action by the Consultant.

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Provide data on unit construction, sizes, configuration, jointing methods and locations when applicable, and attachment method.

1.5 SUBMITTALS FOR INFORMATION

The following submittals are informational; responsive action by the Consultant is not required.

- .1 Section 01 33 00: Submission procedures.

When manufacturer's instructions for specific installation requirements are referenced in Part 3 Execution, include the following request for submittal of those instructions. Edit the Part 3 statements to avoid conflict with manufacturer's instructions.

- .2 Manufacturer's Installation Instructions: Indicate special installation criteria, interface with adjacent components.

Include the following ONLY if specifying for a LEED project. Specify only the technical requirements necessary to achieve the credits desired for this project.

- .3 Sustainable Design:
 - .1 Section 01 35 18: LEED documentation procedures.
 - .2 Provide required LEED documentation for Product [regional materials] [recycled content] .
 - .3 Manufacturer's Certificate: Certify that Products meet or exceed [specified requirements].

1.6 QUALITY ASSURANCE

- .1 Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum [three (3)] [_____] years [documented] experience.
- .2 Installer Qualifications: Company specializing in performing the work of this section with minimum [three (3)] [_____] years documented experience [and approved by the manufacturer].
- .3 Source Quality Control: All products specified in this Section from a single manufacturer.

1.7 DELIVERY, STORAGE, AND PROTECTION

- .1 Section 01 61 00: Transport, handle, store, and protect products.
- .2 Store materials off the ground in a dry, clean, protected area.
- .3 Protect products from damage before, during, and after installation.

Part 2 Products

2.1 MANUFACTURERS

In the following paragraph, list the manufacturers acceptable for this project. Edit the subsequent descriptive specifications to identify project requirements and to eliminate any conflict with specified manufacturer's products.

- .1 Maxam Metal Products Limited.
 - Toll Free Phone: 866-446-2926
 - Toll Free Fax: 866-436-2926
 - Direct Phone: 604-433-4243
 - Direct Fax: 604-433-4148
 - E-mail: info@maxammetal.com
 - Internet: www.maxammetal.com
- .1 [_____].

- .2 Substitutions: [Refer to Section 01 61 00.] [Not permitted.]

2.2 ROOF HATCHES

Edit the following paragraph to suit the project. Carefully coordinate the model number paragraphs below to the requirements cited.

- .1 Size and Configuration:
- .1 Model MAX-14: 900 x 750 mm (36 x 30 inch) size, single leaf type, steel curb and cover.
 - .2 Model RHS-2: 900 x 900 mm (36 x 36 inch) size, single leaf type, steel curb and cover.
 - .3 Model RHS-5: 750 x 1350 mm (30 x 54 inch) size, single leaf type, steel curb and cover.
 - .4 Model RSA-1: 900 x 750 mm (36 x 30 inch) size, single leaf type, steel curb and aluminum cover.
 - .5 Model RHA-15: 900 x 750 mm (36 x 30 inch) size, single leaf type, aluminum curb and cover.
- .2 Integral Steel Curb: ASTM A653/A653M, galvanized coated steel, 2 mm (14 ga), ZF120 (A40) zinc coating designation, prime painted; with [25 mm (1 inch)] [50 mm (2 inch) rigid high-density oil-impregnated fibreboard insulation; integral cap flashing to receive roof flashing; 300 mm (12 inch) high; 89 mm (3-1/2 inch) wide, with 8 mm (5/16 inch) predrilled holes.
- [OR]**
- .3 Integral Aluminum Curb: 2.6 mm (10 ga) mill finished aluminum; with 25 mm (1 inch) rigid high-density oil-impregnated fibreboard insulation; integral cap flashing to receive roof flashings; 300 mm (12 inch) high; 89 mm (3-1/2 inch) wide, with 8 mm (5/16 inch) predrilled holes.
- .4 Flush Steel Cover: ASTM A653/A653M, galvanized coated steel, ZF120 (A40) zinc coating designation; prime painted, with 25 mm (1 inch) rigid fiberglass insulation, continuous extruded santoprene gasket to provide weatherproof seal.
- .1 Exterior Cover: 2 mm (14 ga).
 - .2 Interior Liner: 0.8 mm (22 ga).
- [OR]**
- .5 Flush Aluminum Cover: 2 mm (12 ga) mill finish aluminum exterior cover and interior liner, with 25 mm (1 inch) rigid fiberglass insulation; continuous extruded santoprene gasket to provide weatherproof seal.

As an option, all hardware can be specified as stainless steel.

- .6 Hardware:
- .1 Concealed spring operator;

Specify stainless steel spring latch on aluminum units, zinc plated latch on steel units.

- .2 Latch: [Zinc plated] [Stainless steel] spring latch, with padlock hasps inside and outside; locate external padlock hasp under cover protected from weather;
- .3 Steel hold open arm with grip handle for easy release, powder coated safety red colour;

- .4 Hinges: Pintle type, with 2 mm (12 ga) [galvanized steel] [stainless steel] brackets.

2.3 ACCESSORIES

Include all accessories which may be required on the project. Indicate which hatches require accessories on the Drawings or in Part 3.

- .1 Ladder: Refer to Section 05 50 00.

[OR]
- .2 Ladder: [Galvanized] [Prime-coated] steel, welded construction, with rungs at 300 mm (12 inches) on centre.
 - .1 Rungs: 19 mm (3/4 inch) diameter steel, with raised surface to add foot grip.
 - .2 Risers: 10 x 64 mm (3/8 x 2-1/2 inch) flat steel bars.
 - .3 Brackets: 10 x 64 mm (3/8 x 2-1/2 inch) flat steel bars, with 16 mm (5/8 inch) diameter mounting holes.
- .3 Safety Grab Handle: Universal design or left or right mounting, Maxam Model SGH.
 - .1 Tubing: Steel, 35 mm (1-3/8 inch) wall.
 - .2 Mounting Brackets: Steel, 2.0 mm (12 ga) thick.
 - .3 Mounting Hardware: Zinc plated steel
 - .4 Finish: Baked on powder coating, safety red colour.
- .4 Safety Post: Spring balanced type.
 - .1 Material: [Steel, powder coated, safety red colour, Model SLP-1.] [Steel, hot-dipped galvanized, Model SLP-2.] [Aluminum, 6061-T6 alloy, mill finish, Model SLP-3.] [Stainless steel Type 316, mill finish, Model SLP-4.]
 - .2 Extension Post: Heavy wall square tubing with a lifting ring at the top end to assist in raising the post; post to lock automatically when fully extended.
 - .3 Release Lever: Yellow colour, to disengage extension post from the top side and return post to its lowered position.
 - .4 Mounting Assembly: Adjustable, to accommodate ladder rung spacing up to 300 mm (12 inches) on center, and diameters up to 45 mm (1-3/4 inch).
 - .5 Balancing spring: Stainless steel, 300 series alloy, to provide controlled operation when raising and lowering the extension safety post.
 - .6 Mounting Hardware: Stainless steel, Type 316.

2.4 FABRICATION

- .1 Fabricate components free of visual distortion or defects. Weld corners and joints.
- .2 Provide for removal of condensation occurring within components or assembly.
- .3 Fit components for weather tight assembly.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that rough openings are correctly sized and located.

- .2 Confirm that decks, curbs, roof membrane, flashing, and other items affecting work of this Section are in place and located correctly.

3.2 INSTALLATION

- .1 Install in accordance with manufacturer's instructions.
- .2 Verify that the hinge side of the roof hatch is located correctly when used in conjunction with a stationary ladder and/or in relationship to the proximity of the roof edge.
- .3 Coordinate with installation of roofing system and related flashings for weather tight installation.
- .4 Apply bituminous paint on surfaces of units in contact with cementitious materials or dissimilar metals.
- .5 Adjust hinges for smooth operation; replace defective parts.
- .6 Equip [hatch] [all hatches] with [ladder] [ship's ladder] [safety grab handle] [safety post].

Include the following paragraph only if prefabricated ladders are supplied with the roof hatch.

- .7 Ladders: Mount [to [wall] [floor] [wall and floor]] [as indicated on Drawings]. Position bracket angles [inward] [outward].

Include the following paragraph only if ladder safety posts are required.

- .8 Ladder Safety Post:
 - .1 Verify that ladder rungs are of adequate strength, dry, and free of foreign matter.
 - .2 Confirm ladder location and securely fasten in place.

3.3 CLEANING

- .1 Clean exposed surfaces and touch up damaged surfaces. Remove debris caused by installation.

END OF SECTION