

SECTION 077233
ROOF HATCHES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. PS Industries Incorporated; Slidewise™ Roof Hatch: Model(s) SRH-3030M, SRH-3630M, & SRH-3636M.

1.2 SUMMARY

- A. Provide pre-fabricated, fully assembled, mild steel sliding roof hatch for ladder access.
- B. The Slidewise™ Roof Hatch is a low profile, mild steel hatch for ladder access to roofs. Unlike traditional tip-up hatches, the Slidewise™ Roof Hatch opens horizontally, eliminating the effects of wind. It provides a safer access point for personnel and reduces maintenance costs from wind damage. For more information, please visit our website www.psaccesssolutions.com or call 877-446-1519.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's data sheet, including:
 - 1. Storage and handling requirements and recommendations.
 - 2. Installation instructions.
- B. Shop Drawings: Provide shop drawings showing layout, profiles, and product components, including anchorage, hardware, and finishes. Include dimensional plans, applicable material specifications, elevations and sections detailing mounting and connections.
- C. Closeout Submittals: Provide Operation and Maintenance data to include methods for maintaining installed products, precautions against cleaning materials and methods detrimental to finishes and performance.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer must demonstrate a minimum of five years successful experience in design and manufacture of similar related closures.
- B. Manufacturer's Quality System: Registered to ISO 9001:2008 QMS
- C. Welder Qualifications: Welders Certified in accordance with American Welding Society Procedures for applicable material used in production of specified product.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging container with identification labels intact until ready for installation.

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- B. Store materials in a dry, warm, ventilated, weather-tight location. If outdoor storage is required, block materials to store at an incline, to prevent pooling of any moisture and promote runoff. Tarp materials in a tent-like arrangement, elevated above the product with open sides to allow airflow. Store all other hardware in a dry controlled environment.
- C. Use caution when unloading and handling product to avoid bending, denting, crushing, or other damage to the product.

1.6 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard warranty. Materials and workmanship shall be warranted for a period of five (5) years from date of shipment.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Approved Manufacturer: PS Access Solutions™, 1150 48th Street, Grand Forks, ND 58201. Toll Free Tel: 877-446-1519. Email: 4psinfo@psindustries.com. Website: www.psaccesssolutions.com or www.psindustries.com
- B. Substitutions: Not permitted.
- C. Obtain all Slidewise™ Roof Hatch assemblies from single manufacturer.

2.2 ROOF HATCH

- A. Furnish pre-fabricated Slidewise™ Roof Hatch where indicated on plans.
- B. Design/Performance Requirements:
 - 1. Design roof hatch to perform under positive and negative wind/draft pressures and snow loads.
 - 2. Loading Criteria: (Roof Live Loads)
 - a. Snow (service) downward load rating: 50 PSF
 - b. Wind (service) upward load rating: 25 PSF

2.3 MATERIALS

- A. Hatch Panel: Nominal 2" thickness, fabricated from an internal welded mild steel framework. Sheeting to be mild steel, factory bonded in place. Integrated, full length pull handle, interior and exterior. Panel to be constructed as one (1) piece.
- B. Hatch Panel Insulation: Rigid polystyrene between internal framing members, full depth of panel cavity. Nominal R-Value = 10.

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- C. Track and Frame: Unitized track mounting frame. Hatch operates on four (4) aluminum rollers with double sealed stainless steel ball bearings.
- D. Weatherseals: To be EPDM bulb seal full perimeter for draft and weather control.
- E. Lock/Latch: Deadbolt, keyed exterior and keyed interior. Provided with small format construction core.
- F. Hardware/Fasteners: Corrosion resistant, zinc coated and/or Stainless Steel type 18-8.
- G. Finish: All exposed surfaces to be mild steel, powder coat gray.
- H. OPTIONS;
 - 1. Curb: Four-sided 16-gauge formed galvanealed steel, 12" in height. Curb to have formed flange for securing to roof structure. Insulation shall be 1" polystyrene, R-Value = 5.
 - 2. OSHA Compliant Safety Railing System: Four-sided railing system providing permanent protection for guarding roof hatch opening. Includes self-closing safety gate at entry, to ensure no openings are left unprotected, and integrated horizontal grab bars.
 - 3. Deadbolt: keyed exterior with interior thumb turn. Provided with small format construction core.

2.4 FABRICATION

- A. Fit and shop assemble items in largest practical sections, for delivery to site.
- B. Fabricate items with joints tightly fitted and secured.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's installations instructions, approved shop drawings, shipping, handling and storage instructions, and product carton instructions.

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- B. Product shall be installed level, square, plumb, and rigid.
- C. Tolerances: All dimensional requirements must be in accordance with manufacturer's installation instructions and shop drawings.

3.4 FIELD QUALITY CONTROL

- A. Products to be operated and field verified including the sealing surfaces to assure that they maintain contact at the correct sealing points.
- B. Verify that rollers and locking assemblies operate freely and correctly.
- C. Verify all anchorage is in accordance with manufacture's installation instructions and applicable data sheets.

3.5 CLEANING

- A. Repair or replace damaged installed products or components.

3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

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