FOLDING ALUMINUM GUARD RAIL SYSTEM FOR ROOF HATCH

• When the Roof Hatch Cover is opened, the Folding Aluminum Guard Rail System rises upright keeping you in compliance with OSHA 1910.23 for Guarding Floor and Wall Openings and Holes.
• Aluminum Guard Rail System withstands a load of at least 200 pounds applied in any direction at any point on the top rail
• Self-Closing Aluminum Gate
• Aluminum Guard Rail System is mounted to the Roof Hatch, so no roof penetration is required
• Guard Rail System is made from Aluminum (6005-T5) which provides a rust free surface, no painting required (powder coat or anodize finish – optional)

• When the Roof Hatch Cover is closed, the Folding Aluminum Guard Rail System collapses to within 6” above the Roof Hatch Cover. This keeps your OSHA 1910.23 compliant Aluminum Guard Rail System hidden from the viewing public.
• The entire system is shipped as one unit, ready for installation. Must be ordered as complete unit. Cannot be added to existing Roof Hatch.
• 100% Made in the USA
• LEED Benefits

Precision Ladders, LLC
1-800-225-7814
www.PrecisionLadders.com
SECTION 07 72 33
ROOF HATCH with FOLDING ALUMINUM GUARD RAIL SYSTEM

PART 1: GENERAL
1.01 SUMMARY
Metal Roof Hatch with attached Folding Aluminum Guard Rail System.

1.02 SYSTEM DESCRIPTION
The roof hatch shall have a clear opening as shown on the drawings, and shall consist of an insulated cover and frame. Material shall be G-90 galvanized steel and have a factory applied coat of primer (.090 Aluminum H-14 3003, mill finish on aluminum models). Corners shall be fully welded and ground smooth. A gasket between cover and frame shall create a weather tight seal.

The Folding Aluminum Guard Rail System will be attached to the outside of the roof hatch curb. While the roof hatch cover is closed, the Folding Aluminum Guard Rail System will be horizontal to the roof deck. While the roof hatch cover is opened, the Folding Aluminum Guard Rail System will be vertical to the roof deck protecting the exposed opening. Material shall be aluminum (6005-T5) 1-1/4" Schedule 40 Pipe with a 1-5/8" OD (mill finish is standard; powder coat finish is optional except on pivot parts).

1.03 DELIVERY, STORAGE AND HANDLING
A. Examine entire unit upon arrival at jobsite. Notify the carrier and manufacturer of any damage immediately.
B. Store entire unit until installation under roof, if possible; or, if stored outside, under a tarp or suitable cover.

1.04 WARRANTY
The entire unit carries a limited warranty of 5 years against defective material and workmanship, covering parts only, no labor or freight. Defective parts, if deemed so by the manufacturer, will be replaced at no charge, freight excluded, upon inspection at manufacturer's plant which warrants same.

1.05 MAINTENANCE
A. Under normal usage, the hatch with folding aluminum guard rail system shall require no preventive maintenance.
B. No "Spare Parts" shall be required.

1.06 PRICING
Unit pricing is available from Precision Ladders, LLC representatives or by calling (800)225-7814.

PART 2: PRODUCTS
2.01 MANUFACTURER
Precision Ladders, LLC - P.O. Box 2279 - Morristown, Tennessee 37814. Phone: (800)225-7814. FAX: (423)586-2091.

2.02 MATERIALS
A. CURB
1. Formed from 14 gauge galvanized steel of lock forming quality per ASTM A-525 with G90 coating (.090 Aluminum H-14 3003 on aluminum models).
2. Sheathed with 1" of rigid fiber board insulation.
3. Height of 12" unless indicated otherwise on drawings.
4. 4" integral flange for securing to roof.
5. Hinges connecting curb to door shall be 1/8", 2 piece formed steel with 3/8" pivot pin.
6. Extruded rubber gasket within a 20 gauge extruded aluminum track shall be securely attached to the frame to make the unit weather tight.

B. COVER
1. Formed from 14 gauge galvanized steel of lock forming quality per ASTM A-525 with G90 coating (.090 Aluminum H-14 3003 on aluminum models).
2. Liner shall be 22 gauge galvanized steel with G90 coating (.040 Aluminum H-14 3003 on aluminum models).
3. Insulation between cover and liner to be 1" thick U.L. plain fiberglass 0.75# density.
4. Lid shall be reinforced as required with 11 ga. steel channel.
5. A one point cab lock is to be provided with a built-in inside handle.
6. Exterior of cover shall be devoid of hardware with the exception of the outside handle and folding aluminum guard rail system attachment point(s).
7. Outside handle shall be vinyl coated, steel T-handle.
8. Automatic hold-open device shall be formed from 3/16" steel flat bar and 1/2" diameter steel round stock with a vinyl grip.
9. Padlock provisions provided on both interior and exterior of unit.

C. PRESSURE CONTROL
Opening/closing assistance/resistance on all models shall be provided with pressure intensifiers consisting of a telescoping tube; the top (outer) tube shall be 1 5/16", bottom (inner) tube shall be 1 1/2". Tubes shall be zinc coated with clear chromate.

D. FOLDING ALUMINUM GUARD RAIL SYSTEM
1. Rails shall be all Aluminum (6005-T5) 1-1/4" Schedule 40 Pipe.
2. Roof Hatch Application – Mounting Bracket 1-1/4" Square Tubing attached to hatch at front (39-1/8"), back (39-5/8"), and sides (6-1/4").
3. Self-Closing Aluminum Pipe Rail Gate (On Open Side Only)

E. HARDWARE
1. Roof Hatch
Corrosion resistant hardware and fasteners are standard
Optional Stainless Steel hardware is available
2. Folding Aluminum Guard Rail System
Corrosion resistant hardware and fasteners are standard

F. MANUFACTURED UNITS
The roof hatch is a Model PH-G 2’6” x 3’0”(for galvanized steel) or PH-A 2’6” x 3’0”(for aluminum).
The Folding Aluminum Guard Rail System is a Model AGFRS-X 2’6” x 3’0”(for folding).

G. FABRICATION
The hatch with attached Folding Aluminum Guard Rail System is completely fabricated ready for installation before shipment to the site.

H. FINISH
1. Roof Hatch
Mill Finish (aluminum)
Red oxide primer (galvanized)
Powder Coat Finish (optional)
2. Folding Aluminum Guard Rail System
Mill Finish (aluminum)
Anodized
Powder Coat Finish (optional –except on pivot parts)

I. SOURCE QUALITY CONTROL
1. All products inspected at factory.
2. All products tested in factory for proper operation before shipment.

PART 3: EXECUTION
3.01 EXAMINATION
Examine rough opening in roof for opening size and squareness.

3.02 INSTALLATION
Install per the manufacturer’s installation instructions.

3.03 FIELD QUALITY CONTROL
The manufacturer has representatives in all areas of the United States and Canada. For the name of the closest representative, call (800)225-7814.

Note: Choices in the above specification are presented in bold print, please choose one only.