



Product Evaluation

RH01 | 1115

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RH-01

Effective Date: October 1, 2015

Revised: November 1, 2015

Re-evaluation Date: August 2019

Product Name: High Tide Escape Hatch, Impact Resistant

Manufacturer: Hatch Systems, LLC
717 Central Drive
Port Neches, Texas 77651
409-729-5558

General Description:

This evaluation report is for an escape hatch for a roof. The escape hatch is to be used in residential construction. The device is approximately 25.5" square with an opening of 22.5" x 24". The device is constructed of a metal angle frame and a hinged section in the middle of the frame constructed with a metal angle and plywood insert. The hatch has two locking pins to prevent the hatch from opening and a cranking device to lower the hatch. The hatch is designed to be placed directly on the roof sheathing and the roof underlayment and shingles are placed over the hatch. The plywood center provides a nailing surface.

Limitations:

- **Roof Framing:** The roof framing must meet or exceed the uplift requirements of the IRC or IBC. Install the roof framing as required for resistance to wind loads.
- **The High Tide Escape Hatch:** Designed to fit between rafters and trusses 24" on center. If the rafter or truss spacing is less than 24" on center contact an appointed engineer.
- **Design Wind Pressures:** +100 / -100 psf.
- **Roof Slope:** No limitations.
- **Test Standards:** ASTM E 330, ASTM E 1886, ASTM E 1996, Missile Level D

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the assemblies' design pressure rating.

Table 1

Design Pressure (psf)	Fastener Type (Roofing Nails)	Fastener Spacing (inches)
+/-100.00	Head: 0.281"; Shank: 0.131"; Length: 2-3/4"	1/2, 7-3/16, 13-1/2, 19-7/8, and 26-1/2

Product Identification: The roof hatch will bear a label from the manufacturer that indicates the following: HIGH TIDE ESCAPE HATCH. Deployment instructions are also located on the roof hatch.

Installation:

- **Drawing:** Roof Escape Hatch is to be installed in accordance with the manufacturer's recommended installation instructions, the drawing "Roof Hatch 01 through Roof Hatch 04" with an issued for construction date of May 1, 2011, and this evaluation report.
- **Framing Members:** Minimum Spruce Pine Fir (SPF).
- **Attachment of Roof Escape Hatch to Framing Members:** The outer frame of the roof escape hatch is to be anchored to the framing members as follows:
 - Minimum installation of the Roof Escape Hatch is to install a total of ten (10), 2-3/4" long roofing nails with a shank diameter of 0.131" and head diameter of 0.281", (five on each side), through pre-drilled holes in the outer frame. The nails are to penetrate through the sheathing into the rafters. The manufacturer also recommends that blocking be installed at the top and bottom of the roof escape hatch and the unit be secured to the blocking using the same type of fasteners.
 - The spacing of the fasteners is as follows: From bottom: 1/2", 7-3/16", 13-1/2", 19-7/8", and 26-1/2".

Note: Keep the manufacturer's installation instructions at the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.