

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION

Effective December 1, 2011

RV-51

*The following product has been evaluated for compliance with the wind loads specified in **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **November 2015**.*

*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.*

**Downblast Steel Roof Exhauster, Models SRSH-B and SRSH-D, manufactured by**

**Loren Cook Company**  
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**Springfield, Missouri 65803**  
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will be acceptable for use in designated catastrophe zones along the Texas Gulf Coast when installed in accordance to manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

The Model SRSH-B and SRSH-D roof vent is a roof mounted, belt driven, downblast steel exhaust ventilator. The ventilator has an all galvanized steel housing with a hinged galvanized steel access hood with a restraining bar. Refer to Figure 1 for an illustration of the downblast steel roof exhauster. The downblast steel roof exhauster is available in sizes 60-270. The downblast steel roof exhauster has a maximum dimension of 60" wide by 60" long by 40" high. The base has a maximum dimension of 36  $\frac{1}{4}$ " x 36  $\frac{1}{4}$ ".

**Ventilator Construction:** The downblast roof exhauster is manufactured from galvanized steel. The ventilator consists of a 16 gauge galvanized curb. The curb is attached to the galvanized base and the baffle skirt with  $\frac{1}{4}$ " x 2" head screws. The 18 gauge galvanized motor hood is a three (3) piece assembly and it is attached together with  $\frac{3}{8}$ " stainless steel pop rivets. The 16 gauge galvanized steel baffle skirt is a four (4) piece assembly and is attached together with  $\frac{3}{8}$ " stainless steel pop rivets. The hood is attached to the skirt with one (1) full length  $\frac{1}{4}$ " diameter stainless steel pin hood hinge with  $\frac{1}{4}$ "-20 x  $\frac{1}{2}$ " stainless steel hex bolts and  $\frac{1}{4}$ " diameter washers. The skirt is attached to the motor mount with four (4)  $\frac{1}{4}$ "-20 x  $\frac{1}{2}$ " stainless steel hex bolts and  $\frac{1}{4}$ " diameter washers. The hood has a locking hasp attached to the front panel with two (2) lock pins and lock pin collars. The hasp locks into a slot in the baffle skirt.

## LIMITATIONS

**Design Wind Pressure:**  $\pm 60$  psf

**Roof Framing:** The roof framing required to secure the vent shall be minimum nominal 2 inch wide Southern Yellow Pine dimension lumber with a minimum nominal  $1\frac{5}{32}$ " plywood deck.

**Roof Slope:** The vent shall be installed on a flat roof. Positive drainage of the roof is required.

**Impact Resistance:** These vent assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I** and the **Seaward zone**. The vent assemblies passed Missile Level D specified in ASTM E 1996-04. The vent assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

### INSTALLATION INSTRUCTIONS

**General Installation Requirements:**

All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC). All IRC/IBC requirements must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

**Installation:**

The aluminum curbing of the vent set is secured to the nominal 2" wide Southern Yellow Pine roof framing with minimum  $\frac{1}{4}$ " x  $1\frac{1}{2}$ " Tapcons. The fasteners shall be located approximately  $4\frac{1}{2}$  inches from each end and 20 inches on center. The fastener shall be long enough to penetrate a minimum of  $1\frac{1}{2}$  inches into the wood wall framing.



Figure 1. Downblast steel exhaust ventilator, Models SRSH-B and SRSH-D

**Note:** The manufacturer's installation instructions shall be on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC); the International Building Code (IBC); and the Texas Revisions.