

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION

Effective December 1, 2012

RV-76

*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 **December 2016**.*

*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.*

**Attic Cool 850 and 1600 Solar Powered Attic Fan**, manufactured by

**Attic Cool, LLC**  
**6220 Westpark Drive Suite 224**  
**Houston, TX 77057**  
**Telephone: (866) 803-2646**

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 Attic Cool 850 and Attic Cool 1600 is a solar powered attic fan used to provide attic ventilation. The fan can move either 850 CFM or 1600 CFM and provide ventilation for attic space up to 1215 and 2285 square feet. The fan is powered by a Polycrystalline solar panel.

**Flashing Base:** The steel non-pitch flashing is formed to create a curb with conical sides  $5\frac{5}{8}$ " high. The flashing has a square base measuring  $23\frac{1}{4}$  x  $23\frac{1}{4}$ ". Attached to the base is a  $15$ " x  $5\frac{1}{8}$ " x  $13$ " cone.

**Hood:** The hood measures  $20\frac{1}{16}$ " x  $23\frac{5}{8}$ " x  $4$ ". The hood is attached to the base with four (4) steel braces. Each brace is welded to the base and attached to the hood with one (1)  $\frac{1}{4}$ " diameter stainless steel bolt.

**Solar Panel:** The fan is powered by a 25 watt Polycrystalline solar panel measuring a maximum of  $20\frac{1}{16}$ " x  $20\frac{1}{16}$ " x  $1\frac{3}{16}$ " for the AC 1600 model and by a 10 watt Polycrystalline solar panel measuring a maximum of  $13$ " x  $14$ " x  $1\frac{3}{16}$ " for the AC 850 model. The solar panel is attached to the hood with four (4)  $\frac{1}{4}$ " diameter stainless steel bolts.

**Inner Components:** The  $12$ " diameter fan and motor is attached to the base with three (3) steel braces. There is 19 gauge wire mesh located around the opening between the hood and base.

### LIMITATIONS

**Design Wind Pressure:** +60.8 psf / -78.8 psf

**Roof Deck:** The roof sheathing shall be minimum  $\frac{7}{16}$ " OSB.

**Roof Slope:** There is no minimum or maximum roof slope.

**Impact Resistance:** N/A.

### INSTALLATION INSTRUCTIONS

**General Installation Requirements:** The attic fan shall be installed in accordance with the manufacturer's installation instructions and this evaluation report.

**Installation:** The attic fan shall be secured to the roof deck using eight (8) #10-12 x 1" Pancake Type A screws through the base flange. The screws are located 1' from the edge and spaced approximately  $10\frac{5}{8}$ " around the perimeter of the base. The fasteners shall be long enough to penetrate into and through the roof deck material a minimum of  $\frac{1}{4}$ ".

**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.