

**HVI TESTED/CERTIFIED**

**STATIC PRODUCTS**

**PRODUCT CATEGORIES**

Duct Termination Fittings  
Soffit Ventilators



**USE OF HVI LABEL**

Companies whose products have been certified by HVI shall affix appropriate Labels to those products

## HOW ATTIC VENTILATION WORKS

The principle of attic ventilation is simple: placing air vents as near the roof peak as possible to allow warm air to escape — and intake vents in the soffit or under eaves to allow air to enter the attic area.

Various forms of exhaust vents are available — powered fans, ridge vents, roof vents, turbines, and gable end vents. The intake vents that balance the system are cornice vents and soffit or under eave vents.

The important consideration is that both intake and exhaust vents must be in the system to promote air movement, and they must be in balance. HVI recommends that 60% of the net free area of the required ventilation be placed at the under-eave location and 40% at the roof or gable location. HVI guidelines recommend one square foot of ventilator net free area for each 300 square feet of attic floor space. If no vapor barrier is used, the net free area of ventilation should be doubled.

## TO CALCULATE NET FREE AREA

To determine your static ventilator needs, first multiply attic length by attic width to find square feet, then divide that number by 300 to find required net free area.

Because most vents are marked in square *inches* of net free area, multiply the above number by 144. The total of static vents you install should equal that number in total square inches. If no vapor barrier is used, multiply the total square inches by 2.

Static ventilators are non-powered products that serve as part of the overall ventilation system. Any device in the ventilation airflow path that directs or restricts the airflow has an effect on the actual ventilation rate. For example, if an outlet damper is blocked, or sized too small, the desired exhaust airflow will not be achieved.

## STATIC VENTILATION TERMS

**Duct Termination Fittings:** The outlet of an exhaust duct, with a damper or other means of preventing excess back draft. The term also applies to inlet grilles and fittings. Only the outlet Duct Termination Fittings may be certified at this time.

**Soffit Ventilators:** The inlet for attic ventilation located under the eaves of the roof.