

CALCULATING VENTS REQUIRED FOR STANDARD AND FIRE & ICE® ATTIC VENTS

Step 1

Validate Local Building Code Requirements

Most local building codes require compliance with either the 1/150 method or 1/300 method exception (refer to local code). These methods dictate that one (1) square foot of ventilation is provided for every 150 or 300 square feet of attic floor space. Compliance with attic ventilation code requirements should always be verified at the local governing level.

Step 2

Determine Total Square Feet of Attic Floor Space

Length of Attic _____ 60
X

Width of Attic _____ 20
(repeat process for all attic areas)

= (a) _____ (a) 1200
square feet of attic space

Step 3

Calculating Ventilation Requirements

(a) _____ / 300 (exception method) (a) 1200/300

= (b) _____ (b) 4
square feet of code required ventilation

Step 4

Convert Square Feet to Square Inches

(b) _____ x 144 (b) 4 x 144

= (c) _____ (c) 576
square inches of code-required ventilation

Step 5

Determine Adequate Number of O'Hagin's Vents

(c) _____ / NFVA* for selected vent (see chart below) (c) 576/72.0

= (c) _____ (number of vents required) = 8 vents

*Net Free Ventilation Area
(Figures based on independent evaluation reports)

Manufacturer's Recommendations:

O'Hagin patented Balanced Ventilation System utilizes O'Hagin vents placed strategically within the field of roofing material both high (near the ridge for exhaust) and low (near the eave for intake). This strategic high and low placement of O'Hagin vents allows the balanced system to fully optimize both wind and thermal effects to provide superior passive ventilation throughout the attic. Additionally, placement of O'Hagin vents both high and low should provide an equal, balanced rate of ventilation performance in each area. The calculations above do not include any potential NFVA value provided by alternative ventilation methods that may be present in any specific structural design.

Example

(utilizing the 1/300 method and installing the TAPERED LOW-PROFILE style vent (72.0 sq. in. of NFVA*)

(a) 1200/300

(b) 4

(b) 4 x 144

(c) 576

(c) 576/72.0

= 8 vents
(4 intake and 4 exhaust)

*NET FREE VENTILATION AREA

(Figures based on independent evaluation reports)

Vents for Tile Roofs	MODEL: FLAT NFVA: 98.75 sq. in. (637.1 sq. cm.)	MODEL: S NFVA: 97.50 sq. in. (629.0 sq. cm.)	MODEL: M NFVA: 86.25 sq. in. (556.5 sq. cm.)
Vents for Slate, Shake or Composition Roofs	MODEL: TAPERED LOW-PROFILE NFVA: 72.0 sq. in. (464.5 sq. cm.)		

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FREE TECHNICAL SUPPORT SERVICES

For your planning, design, installation, post-installation and customer education needs, O'Hagin offers a range of free services:

Free Architectural/Design Support Services

- Prompt analysis of provided roof plans, or other architectural drawings in electronic or other format. This analysis calculates the number of vents needed based on known local building codes and offers specific recommendations for placement – AutoCAD, PDF or other format.
- Consultation services on an individual or group basis.

Free Custom Product Design

- Custom ventilation system designs to match unique roofing or architectural challenges.
- One-on-one assistance to discuss your needs and create the right solution for your job.

Free Installation Instruction

- Training for your field crews on how to install our products.
- Instruction in English or Spanish to ensure a high degree of knowledge for all your employees.

Free Pre- and Post-Installation Support

- Meetings with builders, consultants, building code officials, or other members of your design and construction team.
- Support regarding any aspect of our products before or after installation.

ADDITIONAL INFORMATION

Approvals

- O'Hagin Mfg. is a recognized leader in attic ventilation testing and design. The Company holds local and national approvals including:
 - ICC-ES Legacy Report, 9650-A (for tile vents only)
 - Class A fire rated
 - Accepted for use by many local fire officials for installation in Wildland Urban Interface (WUI) zones
 - Miami-Dade County Product Control Approved

For complete testing information, call our Customer Service Team toll free at (877) 324-0444.

Instructions

- Complete step-by-step installation instructions in English and Spanish are available on our website at www.ohagin.com, or by calling our Customer Service Team toll free at (877) 324-0444.

O'Hagin vents are manufactured and protected under one or more of the following patents (other U.S. and foreign patents are pending): D456,531; D457,234; D458,391; D458,392; D469,889; D479,885; D504,172; D512,774; D549,316; 6,050,039; 6,129,628; 6,354,051; 6,390,914; 6,447,390; 6,491,579



Phone (877) 324-0444 • Fax (707) 872-3630
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O'HAGIN MFG, LLC
Superior Attic Ventilation Products

Tapered Low-Profile Vents for Slate, Shake and Composition Shingle Roofs

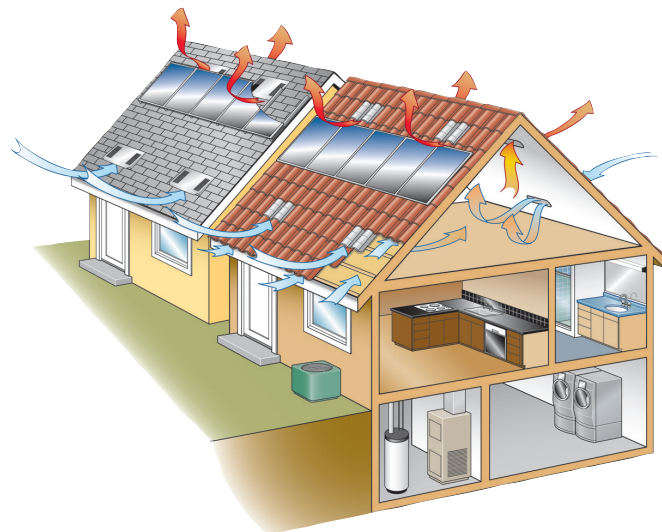


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BENEFITS OF ATTIC VENTILATION



- **VALIDATE THE WARRANTY** Most manufacturers of roofing products require adequate attic ventilation to validate their warranties.
- **FITS WITH SOLAR SYSTEMS** Low-profile design is compatible with most panel installations and fits under most rack mount systems.
- **EXTEND THE ROOF'S LIFE** Ventilation protects attic insulation and rafter cavities from moisture, thereby reducing the risk of mold and dry rot.
- **MAINTAIN CURB APPEAL** When painted to match, O'Hagin attic ventilation systems are designed to blend into surrounding roofing material.
- **ENHANCES ABOVE-SHEATHING VENTILATION (ASV)** Increases airflow and can increase energy savings in cool roof systems.
- **CONSERVE ENERGY** O'Hagin attic vents are completely passive, reducing energy costs related to heating and cooling.
- **REMOVE TRAPPED GASES** Proper attic ventilation facilitates the removal of hot, trapped gases and fumes, a major cause of indoor air pollution, allergies and related health problems.
- **REDUCE MOISTURE BUILDUP** Proper attic ventilation reduces moisture buildup from indoor water sources.

For more information, contact our Customer Service Team.



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O'HAGIN'S TAPERED LOW-PROFILE VENT SERIES

The O'Hagin Tapered Low-Profile Composition Vent designed for slate, shake or composition shingle roofs provides 72 square inches of Net Free Ventilation Area (NFVA). Designed to seamlessly blend form and function, the tapered vent provides superior airflow without detracting from the aesthetics of the roof.

This model is well constructed with 24, 3-1/2 inch louvers on each side, water diverters and splashguards. Each side has a 4-inch flange with a top flange of 6-1/2 inches. The vent opening is an 11-inch circle with a 1/4-inch screen and 1/2-inch lip.

All O'Hagin standard attic ventilation products feature the following:

- Class A fire rated
- Miami-Dade County Product Control Approved (with optional front diverter)
- All vents manufactured using standard finish 26 gauge, G90 galvanized steel; .032 aluminum; or 16 oz. copper. Also available in five pre-painted colors.
- Slate/shake base available (optional)



O'Hagin's Tapered Low-Profile Vents illustrating standard installation method and optional shingle-over installation method.

AVAILABLE PRE-PAINTED, MILL FINISH GALVANIZED, ALUMINUM OR COPPER



Actual pre-painted vent colors may differ from photos shown. Please consult dealer for samples.

FIRE & ICE® LINE – TAPERED, LOW-PROFILE VENT SERIES

FIRE & ICE® LINE

Now O'Hagin Mfg. standard line of attic vents for composition shingle and slate roof applications is available with an **optional FIRE & ICE®** feature—a patent-pending, stainless steel interior matrix—making them resistant to wind-driven flames, burning embers, rain and snow intrusion.

In addition to the standard features listed above, O'Hagin's **FIRE & ICE®** ventilation products also feature the following:

- Accepted for use by many local fire officials for installation in Wildland Urban Interface (WUI) zones
- Wildland Urban Interface compliant
- Patent-pending, corrosion-resistant, stainless-steel interior matrix
- Resists entry of wind-driven flames, burning embers, rain and snow

1. **FIRE & ICE®** vent shown cut-away to expose interior stainless steel matrix; 2. **FIRE & ICE®** vent during flame and ember test performed on all O'Hagin vents; 3. **FIRE & ICE®** vent during FBC TAS 100(A)-95 attic vent testing for wind-driven rain and snow; 4. **FIRE & ICE®** vent during wind-driven snow demonstration in the Sierra Nevada at 7,200 ft. elevation, illustrating protection of vent airway from snow intrusion or build-up.

