CALCULATING VENTS REQUIRED

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.

Example (utilizing the 1/300 method and installing O'Hagin's WEATHER-MASTER™ vents for the "S" style tile (97.5 sq. in. of NFVA*)

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

Step 3
Calculating Ventilation Requirements

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

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

Step 4
Convert Square Feet to Square Inches

(b) _____ x 144 — (b) 4 x 144

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

Step 5
Determine Adequate Number of O'Hagin's Vents

(c) _____ / NFVA* for selected vent (see chart below) — (c) 576/97.5

= (c) _____ (number of vents required) — **= 6 vents** (3 intake and 3 exhaust)

*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.

***NET FREE VENTILATION AREA FOR STANDARD, WEATHERMASTER™ AND *FIRE & ICE*® VENTS**
(Figures based on independent evaluation reports)

Vents for Slate, Shake or Composition Roofs	**MODEL:** O'HAGIN'S WEATHERMASTER™ **NFVA:** 72.0 sq. in. (464.5 sq. cm.)		
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.)

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 Miami-Dade County Product Control Approved.
- For complete testing information, call our Customer Service Team toll free at **(877) 324-0444**.

Installation Instructions
- Complete step-by-step installation instructions in English and Spanish, technical bulletins and updates 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

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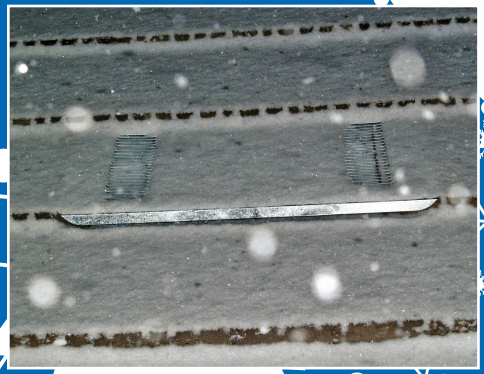
www.ohagin.com

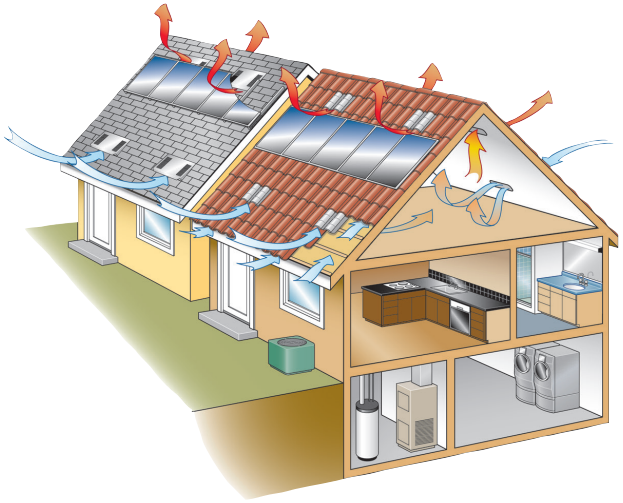
O'HAGIN MFG, LLC
Superior Attic Ventilation Products

O'HAGIN'S WEATHERMASTER™ ATTIC VENTS

RAIN AND SNOW RESISTANT ATTIC VENTS FOR CLAY AND CONCRETE TILE ROOFS



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.

O'HAGIN MFG, LLC
Superior Attic Ventilation Products

Phone (877) 324-0444 • Fax (707) 872-3630
www.ohagin.com

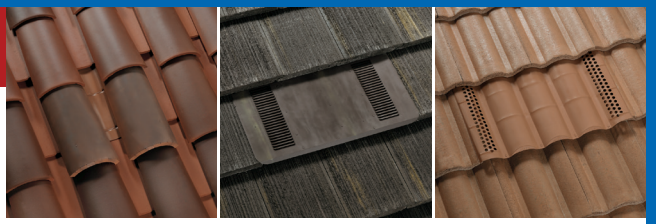
FEATURES

Expanding its popular line of attic vents designed for tile roof applications, O'Hagin Mfg. now introduces WEATHERMASTER™ Attic Vents. This line not only retains all the unique design features of its standard line, but is specially designed to resist the intrusion of wind-driven rain and snow.

- Patent-pending internal stainless steel, corrosion-resistant interior matrix blocks rain and snow intrusion into interior attic space
- Advanced internal construction includes water diverters and splashguards
- Offers superior airflow
- Easy retrofit for existing O'Hagin or other applications
- Miami-Dade County Product Control Approved
- Fully compatible with energy-saving roof designs using Above Sheathing Ventilation (ASV)

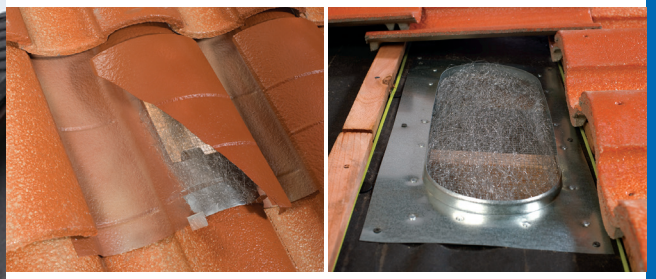
BALANCED VENTILATION SYSTEM

O'Hagin patented Balanced Ventilation System utilizes O'Hagin's WEATHERMASTER™ attic vents placed strategically within the field of roofing material both high (near the ridgeline) for exhaust and low (near the eave) for intake. This strategic placement not only allows the system to fully optimize both wind and thermal effects to provide superior passive ventilation throughout the attic, but additionally provides an equal, balanced rate of ventilation performance in each area.



O'Hagin's WEATHERMASTER™ attic vents are designed as a two-piece system consisting of a primary vent (subflashing) and a secondary vent (cover). The cover is designed specifically to mimic tiles produced by most manufacturers from around the world, including flat, Spanish "S," two-piece cap and pan and interlocking styles, as well as custom and antique tiles. Available finishes include mill finish 26 gauge, G-90 galvanized steel, .032-inch aluminum and 16 oz. copper. All finishes may be contractor-painted to match the surrounding roofing material. In addition, a selection of vents are available in several pre-painted galvanized colors*.

*Pre-painted raw material may vary between lots.



Installed O'Hagin's WEATHERMASTER™ secondary vent cover and primary vent (subflashing) with portions exposed to show rain and snow-resistant interior stainless-steel matrix.