

# ATTIC VENTILATION INSPECTION

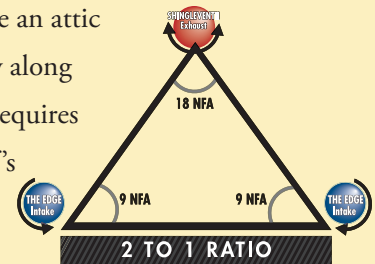
## ATTIC VENTILATION IS ESSENTIAL

*A Properly Designed Attic Ventilation System Must be Installed with New Shingles To:*

- Validate new shingle warranty.
- Help protect the attic from damage caused by excess heat in the summer and moisture in the winter.
- Help shingles and roofing materials last longer.
- Help prevent the formation of ice dams.
- Help reduce the risk of mold.

## THE BALANCED SYSTEM® FOR ATTIC VENTILATION

Research has shown that the best way to ventilate an attic is with a system that provides continuous airflow along the entire underside of the roof sheathing. This requires a balanced system of intake vents low at the roof's edge or in the soffit/eaves and exhaust vents at the ridge.



Use this attic inspection form to identify potential problems with the attic ventilation system.

STYLE OF ROOF	EXTERIOR INSPECTION	
Basic gable <input type="checkbox"/> Basic hip <input type="checkbox"/> Lots of gables <input type="checkbox"/> Lots of hips <input type="checkbox"/> Cut-up <input type="checkbox"/>	Total Length of Horizontal Ridge: _____ Total Length of Diagonal Hips: _____	
<b>EXISTING EXHAUST VENTS</b> <small>Note: Avoid mixing two different types of exhaust vents on the same roof of a common attic.</small> Ridge Vents _____ and/or Hip Ridge Vents _____ Roof Louvers _____ Power Fan(s) _____ Wind Turbines _____ Gable Louvers _____	<ul style="list-style-type: none"> <li>• Signs of damage from inadequate ventilation                             <ul style="list-style-type: none"> <li>• Heat, moisture damage to shingles; curling, cracking, fish mouting <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Soffits; peeling paint, signs of leaking from roof <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Problems with ice dams in the winter months <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Icicles at edge of roof in winter <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Uneven snow melt on roof <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Gutter damage from ice dams <input type="checkbox"/> Yes <input type="checkbox"/> No</li> </ul> </li> </ul>	
<b>SIZE &amp; NUMBER OF INTAKE VENTS</b> The Edge™ Vent _____ Vented Drip Edge _____ Continuous Soffit _____ 8" x 16" undereave _____ 6" x 16" undereave _____ 4" x 16" undereave _____	<b>INTERIOR INSPECTION</b> Square footage of attic: _____	
	<ul style="list-style-type: none"> <li>• Blockage of intake vents (insulation, etc.) <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Signs of leaks on attic ceiling <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Signs of damage from inadequate ventilation                             <ul style="list-style-type: none"> <li>• Moisture damage <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Rust, dirt on exposed nails <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Compacted attic insulation <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Mold, mildew in the attic <input type="checkbox"/> Yes <input type="checkbox"/> No</li> <li>• Blackened plywood <input type="checkbox"/> Yes <input type="checkbox"/> No</li> </ul> </li> </ul>	

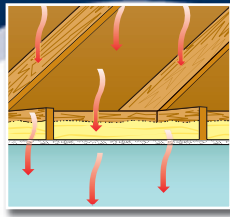
### ATTIC VENTILATION GUIDELINES

For optimum attic ventilation for today's tighter built, tighter remodeled homes that have more efficient building materials, Air Vent recommends exceeding minimum building codes.\* Air Vent recommends 1 square foot of ventilation for every 150 square feet of attic floor space with:

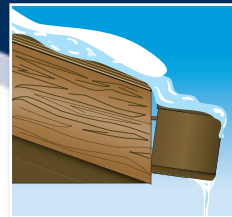
- half of the openings at the ridge for exhaust
- half of the openings low at the roof's edge or in the soffit for intake

\*Note: For minimum building code requirements you may be able to use the 1/300 ratio but Air Vent recommends the 1/150 ratio.

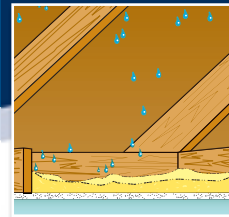
# THE BENEFITS OF A BALANCED ATTIC VENTILATION SYSTEM



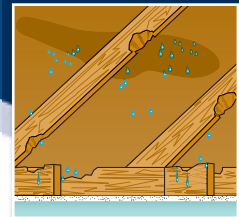
In the summer, heat buildup is minimized so living areas stay cooler and air conditioners run less.



In the winter, balanced ventilation helps keep the roof deck uniformly cool, reducing the likelihood of ice dams and water damage.



Balanced ventilation helps reduce moisture which can reduce the R-value of some insulation.



Moisture-laden air is removed from the attic before condensation can cause structural damage.



## RIDGE VENTS = OPTIMUM EXHAUST

Air Vent's ShingleVent® II and Multi-Pitch FilterVent® ridge vents are designed to provide exceptional **weather protection** and **airflow performance**. Airflow is enhanced by the use of an external baffle that deflects wind over the vent and creates low pressure above the vent openings to "pull" air from the attic, resulting in increased airflow rates. The external baffle also deflects weather up and over the vent protecting the attic. ShingleVent II and Multi-Pitch FilterVent feature an internal weather filter to provide further protection from the elements.

For roofs with very little or no horizontal ridge (commonly called hip roofs) Air Vent's Hip Ridge™ Vent is an option. Designed with an integrated gasket, external baffle and internal weather filter, the Hip Ridge Vent can be installed on diagonal hips with confidence in all climates.

## THE EDGE™ VENT = OPTIMUM INTAKE

Air Vent's new shingle-over, roof-top installed intake vent The Edge™ perfectly balances with Air Vent ridge vents. It combines continuous airflow and three levels of weather protection: patented internal baffles, an internal weather filter and a patented drainage system.

Use the chart below to balance your ridge vents with intake vents.

## BALANCING YOUR RIDGE VENT SYSTEM WITH INTAKE VENTS

Length of Horizontal Ridge	Linear Feet of The Edge™ Vent	Number of Undereave Vents			Combined Length of Diagonal Hip Ridges*	Linear Feet of The Edge™ Vent	Number of Undereave Vents		
		16" x 8"	16" x 6"	16" x 4"			16" x 8"	16" x 6"	16" x 4"
15	30	5	6	10	20	14	3	3	5
20	40	6	9	13	30	20	4	5	7
30	60	10	13	19	40	27	5	6	9
40	80	13	17	26	50	34	6	8	11
50	100	16	21	32	60	40	7	9	13
60	120	19	26	39	80	54	9	12	18
70	140	23	30	45	100	67	11	15	22
80	160	26	34	51	120	80	13	18	26
90	180	29	39	58	140	94	16	21	31

\* This assumes using Air Vent's Hip Ridge Vent @ 12 square inches of Net Free Area per linear foot. Additionally, per the Installation Instructions the slots cut into the diagonal hip will not go beyond the halfway point. The product may be installed along the entire diagonal for best appearance but the lower sections of the Hip Ridge Vent will not be vented.



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