

Installation Instructions



VentSure® Rigid Strip Ridge Vent

**Owens Corning High-Performance
Ventilation System**

What are the advantages of VentSure rigid strip ridge vents?

- Externally baffled for added protection against wind-driven rain and snow.
- Only .945" vent profile.
- Flexible hinge accommodates a 3/12 to 12/12 pitch.
- Unique interlocking tabs for self alignment.
- Fastener location marks serve as guidelines for ease of installation.
- Insect infiltration protection system
- Allows uniform escape of warm, moist air from attic space.

What materials are required to install a VentSure rigid strip ridge vent ventilation system?

- VentSure rigid strip
- Roofing nails
- Caulk

What tools are required to install a VentSure rigid strip ridge vent ventilation system?

- Safety goggles
- Tape measure
- Utility knife
- Hammer
- Power saw

What installation precautions should I follow?

- Read all instructions before proceeding.
- Always wear safety goggles.
- Follow all standard safety precautions.

What general ventilation tips should I know?

- Do not allow insulation to block undereave vents.
- For proper ventilation, adequate intake is necessary to prevent back drafts and assure effectiveness of ridge vent system.
- Close off all gable and other roof vent openings.
- Do not allow air from home appliances (dryers, range hoods, bathroom fans, etc.) to exhaust into attic – exhaust directly to outdoors.

How much ridge/undereave ventilation is required?

In order for your ventilation system to operate properly, a system must be designed to create an airflow that draws air out of the attic at the roof peak and brings air into the attic along the underside of the roof. This can be accomplished by using *VentSure* rigid strip ridge vent, which allows air to be drawn out of the attic (exhaust), and soffit vents, which allow air into the attic (intake).

For maximum efficiency, and to create what is considered a balanced system, ventilation should be equal at the soffit and ridge. It is critical to provide proper distribution of ridge and soffit vents. In cases where a balanced system cannot be achieved, always provide more than 50% of the total required ventilation at the soffit and the remainder at the ridge. Again, the desired system is to equalize ventilation at both the soffit and ridge areas.



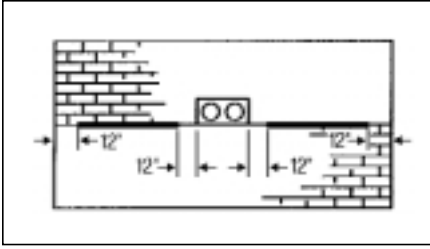
To calculate the minimum amount of total ventilation required, use either the 1/300 or 1/150 ratio. On the third page, the actual calculations have been made for your convenience. Use the 1/300 ratio if you have proper distribution of soffit and ridge vents or if a vapor retarder is present. Use the 1/150 ratio if proper distribution of soffit and ridge vents cannot be achieved and a vapor retarder is not present.

See the chart on the third page to identify the minimum amount of ridge and soffit ventilation required. Always remember that proper distribution will result in exhaust (ridge vent) and intake (soffit vent). For the best results, run the *VentSure* rigid strip ridge vent along the entire peak of the roof in accordance with these application instructions.

The Net Free Vent Area (NFVA) of soffit ventilation should always be at least equal to or more than the net free vent area of the ridge ventilation.

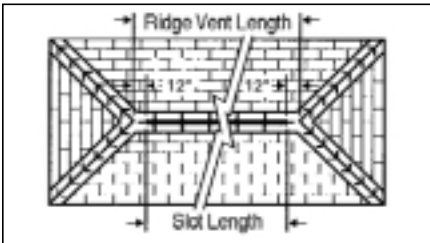
Where can VentSure rigid strip ridge vents can be installed?

Chimney on Roof



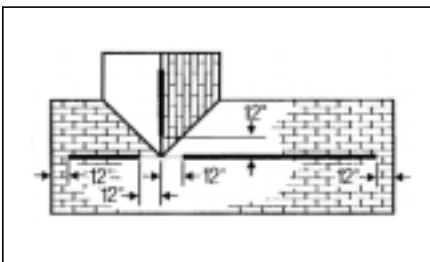
- Saw slots to within 12" of any chimney located on ridge as shown and butt ridge vent flush against chimney.

Hip Roof



- Saw slot on center of ridge to within 12" of each end as shown.
- Run ridge vent across complete length of ridge.

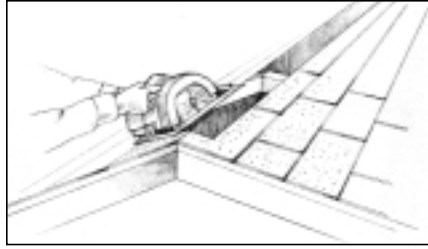
"T" & "L" Roof



- Saw slots to within 12" of ridge intersection points as shown.
- Install ridge vent completely across ridge on long side and butt ridge vent on the short run against the side of the long run.

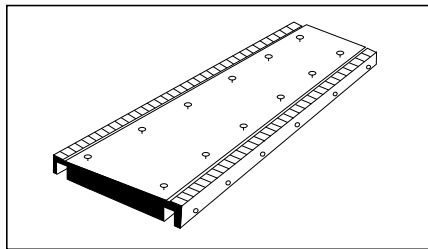
Installation Instructions for VentSure® Rigid Strip Ridge Vents

Step One



- Cut slot in roof ridge (not through ridge vent). Slot should be 12" shorter at each end than the total length of ridge vent used. Slot must not be cut into gable overhang. Slot width is 1-1/2" for truss construction or 3/4" on each side of center ridge pole.

Step Three

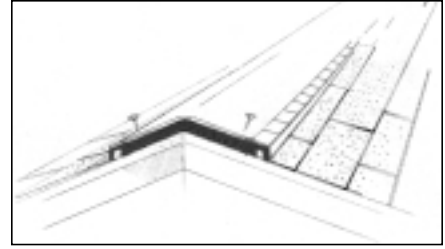


- Fasten vent to roof at pre-marked locations starting at end of vent.

Step Five

- Install balanced undereave venting. **When installing, a minimum 60 square inches of undereave venting must be provided for each 4-foot rigid strip section used.** (Pitch range: 3/12 to 12/12. Net free area: 60 square inches per 4-foot section.)

Step Two



- Snap vent sections together. Center ridge vent over the slot and the uncut section of the ridge using a chalk line.

Step Four



- Install Hip & Ridge shingles directly over rigid strip using a hammer. (Do not use a nail gun.) Fasteners must penetrate 3/4" into decking. On decking less than 3/4" thick, fasteners must penetrate through decking a minimum of 1/8". Typically, a 2" minimum roofing fastener will meet this requirement. Caulk ends of vent.

Note

To prevent leakage and preserve roof line aesthetics, always leave at least 12" between ridge slot and end of the ridge. See above illustrations.

Specifications

Product:	<i>VentSure</i> rigid strip ridge vents
Material:	High density polypropylene
Color:	Black
Widths:	13-3/8"
Length:	4-foot strip
Net Free Area:	60 square inches per 4-foot section

Applicable Standards & Codes

Laboratory Test Data

Test:	Net Free Vent Area HVI Certified
Result:	60 square inches per 4-foot section
Test:	ASTM G 53 UV Accelerated Weathering
Result:	Pass
Test:	Dade County PA-100 Wind-Driven Rain Test at 110 mph
Result:	Pass
Test:	Wind-Driven Snow Test
Result:	No Infiltration
Test:	ASTM D 3746 Impact Resistance
Result:	Pass
Test:	ASTM E 330 Static Pressure
Result:	Pass

All tests conducted by independent test laboratories.

Ventilation Table: 1/150 Ratio

Attic Square Footage	Square Inches NFVA at Ridge	Min. Feet of Rigid Strip Ridge Vent	Min. Square Inches NFVA at Soffits
1000	480	32	480
1100	528	36	528
1200	576	39	576
1300	624	42	624
1400	672	45	672
1500	720	48	720
1600	768	52	768
1700	816	55	816
1800	864	58	864
1900	912	61	912
2000	960	64	960
2100	1008	68	1008
2200	1056	72	1056
2300	1104	74	1104
2400	1152	77	1152

Use this table if proper distribution of soffit and ridge vents cannot be achieved and/or a vapor retarder is not present.

Ventilation Table: 1/300 Ratio

Attic Square Footage	Square Inches NFVA at Ridge	Min. Feet of Rigid Strip Ridge Vent	Min. Square Inches NFVA at Soffits
1000	240	16	240
1100	264	18	264
1200	288	19.5	288
1300	312	21	312
1400	336	22.5	336
1500	360	24	360
1600	384	26	384
1700	408	27.5	408
1800	432	29	432
1900	456	30.5	456
2000	480	32	480
2100	504	34	504
2200	528	36	528
2300	552	37	552
2400	576	38.5	576

Use this table if you have proper distribution of soffit and ridge vents, or a vapor retarder is present.

Note: The above tables are based on minimum FHA vent requirements to meet building codes.



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