

TECHNICAL DATA SHEET: TILE OFF-RIDGE VENT

Featuring Patent-Pending Perforated Panel Technology

Product Description

The Tile Off-Ridge Vent is a high-performance, ultra-low-profile roof ventilation system engineered specifically for tile roof applications. Constructed from durable, heavy-duty 26-gauge Galvalume steel, this vent boasts the lowest height in the industry, significantly reducing curbside visibility while maximizing structural integrity.

Utilizing Python's advanced Perforated Panel Technology, its completely enclosed front eliminates the need for separately purchased external baffles, saving time and money during installation. This unique design is specifically engineered to handle extreme wind-uplift pressures while allowing attics to breathe efficiently reducing utility costs, lowering air conditioning maintenance, and preventing mold, mildew, and wood rot.

Triple-Action Weather Protection Systems

- **Primary Line of Defense (Vent Hood):** Integrated mini louvers in the hood block wind-driven rain while continuously exhausting hot, stale attic air.
- **Secondary Line of Defense (Interior Louver Panel):** An internal mini-louver panel—oriented in the opposite direction of the hood louvers—captures any trace water entering the unit and safely directs it down to the vent pan away from the attic.
- **Third Line of Defense (Internal Baffle):** A precision-placed internal baffle at the top edge of the vent pan acts as a final barrier against high-velocity water intrusion.

Key Features & Benefits

- **Wind-Driven Rain Performance:** The only off-ridge vent guaranteed to allow zero water entry during extreme 120 MPH wind-driven rain tests.
- **Low-Profile Aesthetics:** Lowest vent profile on the market minimizes curbside visibility without sacrificing airflow capacity.
- **Cost-Effective Design:** Fully enclosed front design eliminates the need to purchase and install separate external front baffles.
- **Structural Integrity:** Engineered to withstand enormous wind uplift pressures common in severe weather zones.
- **Pest Control:** Securely safeguards the system to keep insects and critters out.

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**PHYSICAL PROPERTIES & PERFORMANCE**

PROPERTY	SPECIFICATION/DETAILS
MATERIAL	Heavy-duty 26-gauge Galvalume® Steel
NOMINAL LENGTHS	4 ft. and 6 ft. pieces
DIMENSIONS	Width: 23-1/2" Heights: 6" and 6-3/4" (variable by length/size)
AVAILABLE COLORS	Black, Weatherwood, Mill
ROOF PITCH COMPATIBILITY	Conforms to any pitch from 3/12 and higher
FASTENER REQUIREMENT	1-3/4" Wood-type screws for the bottom flange

Performance & Compliance Ratings

- **Codes & Standards:** Florida Building Code Compliant
- **Product Approvals:** FL # 46865 R3

Performance & Compliance Ratings

- **Per Lineal Foot:** 25 sq. in. / lineal ft.
- **4-Foot Model:** 100 sq. in. total NFVA

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Roofing Ventilation & Accessories



Installation Guidelines

1. **Layout and Alignment:** Space the calculated vent openings evenly across the roof deck below the ridge line.
2. **Deck Cutting:** Cut a opening size of 2-1/2" x 46" between rafters.
 - a. 4 ft.: Cut between 2 sets of rafters.
 - b. *Note:* Adjust the depth of the cut to ensure you **do not cut into the rafters**.
3. **Preparation (Retrofit):** For existing tile roofs, remove tiles immediately around the sides and top of the cut opening to provide adequate clearance for the vent flanges.
4. **Positioning:** Position the off-ridge vent directly over the prepared opening in the roof deck.
5. **Flange Fastening:** * Securely fasten the side and top flanges using a minimum of 1.25" standard roofing nails spaced approximately 4" on center and 1.5" from the outer edge of the flange.
 - a. Fasten the bottom flange using the required 1-3/4" wood-type screws.
6. **Flange Sealing:** Seal all flanges to the sub-roof/underlayment membrane in strict accordance with the substrate manufacturer's written recommendations.
7. **Tile Integration:** Field-cut the perimeter roof tiles cleanly to fit around the vent housing and install the surrounding tile per the tile manufacturer's specifications.

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