



TECHNICAL BULLETIN

POSI-VENT P-101

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TYPE OF PRODUCT

Open weave ridge ventilation material

TYPE OF MATERIAL

Posi-Vent is a pure polyurethane foam with vinyl coating. The material is weather and mold resistant.

RECOMMENDED USAGE

Posi-Vent can be used in any application where passive building ventilation is desired at the ridge. Posi-Vent is a passive ventilation system and should not be utilized in applications where powered ventilation is incorporated in the buildings design.

PERFORMANCE TESTS

Property	Test Description	Results
Net Free Area	1" Nominal Thickness	8 Sq.In. Per Lineal Foot-Slope 16 Sq.In. Per Lineal Foot-Ridge
Air Permeability	ASTM D737	>760 Cu. Ft. Per Minute
Cold Crack	F87260 Sec. 4-C14	- 55 Centigrade
Snow Infiltration	CRL 5704	0
Tear Strength	ASTM D3574	3.5 PPI
Tensile Strength	ASTM D3574	16 PSI – Elongation 175%
Compressive Strength	ASTM D3574	1.8 PSI @ 75%
Abrasion	ASTM D1175	No Damage
100 MPH Wind	CRL 6875	No Leakage

Formula for Calculating Ventilation for a 25' x 40' Facility

- First: Determine square footage of the attic by multiplying width and length of building.
 $25' \times 40' = 1000$ square feet
- Second: Determine the net free area for the minimum ventilation requirements as established by the FHA guideline of one square foot of ventilation per 300 square foot of space. The formula is to divide the buildings square footage by 300.
 $1000 \text{ sq. feet} / 300 = 3.3$ square feet
- Third: Determine the net free area in square inches from previous calculation of square feet, since Posi-Vent net free area is rated in square inches. This calculation is performed by multiplying the net free area times 144.
 $3.3 \text{ sq. feet} \times 144 = 475$ square inches
- Forth: Determine the net free area needed for minimum ventilation by dividing the total net free area by two. This calculation is performed to determine the net free area for intake and exhaust vents.
 $475 \text{ sq. inches} / 2 = 238$ square inches for exhaust
- Fifth: Determine the length of Posi-Vent needed along the ridge for minimum ventilation. This is calculated by dividing the exhaust net free area by the tested rating of Posi-Vent at 16 square inches per lineal foot of material.
 $238 \text{ sq. inches} / 16 = 15$ feet per each side of the ridge cap

Note: The above formula is based on the minimum ventilation as established by the Federal Housing Authority guidelines. More ventilation may be desired by the building owner or architect. All ventilation systems must contain a balanced flow of air between the intake and exhaust. Calculations based on the manufacturer's guidelines should be performed to insure that adequate flow will be established on the intake air as well as the exhaust air.

The test results shown are believed to be reliable. However, variances in testing and actual field conditions may alter the results. There is no expressed or implied warranty on the test data.