

## SMART VENT AIR VENTILATION REQUIREMENTS

In our ICC-ES Evaluation Report (ESR-2074) section 3.4, you will see that one SMART VENT unit provides 51 net square inches of natural air ventilation.

The 2003, 2006, and 2009 International Residential Codes and International Building Codes explains that if an approved vapor retarder material is used the total area of ventilation openings may be reduced to 1 sq. ft. for every 1,500 sq. ft. of the under floor area (1/1,500).

For your home this translates as follows:

Home DOES have an approved vapor retarder (Ventilation specification: 1 sq. ft. / 1,500 sq. ft. enclosed area)

Square footage of enclosed area = 2,400 ft.

Flood protection: 2,400 sq. ft. / 200 ft. (SMART VENT FLOOD COVERAGE) = 12 SMART VENTS needed

2,400 sq. ft. / 1,500 sq. ft. = 1.6 sq. ft. of ventilation NEEDED

51 sq. in. (SMART VENT ventilation) / 144 inches (square foot) = .354 sq. ft. of ventilation per SMART VENT

1.6 sq. ft. (ventilation needed) / .354 = 4.52 SMART VENTS required for air ventilation. (12 will be used)

Home DOES NOT have an approved vapor retarder (Ventilation specification: 1 sq. ft. / 150 sq. ft. enclosed area)

Square footage of enclosed area = 2,400 ft.

Flood protection: 2,400 sq. ft. / 200 ft. (SMART VENT FLOOD COVERAGE) = 12 SMART VENTS needed

2,400 sq. ft. / 150 sq. ft. = 16 sq. ft. of ventilation NEEDED

51 sq. in. (SMART VENT ventilation) / 144 inches (square foot) = .354 sq. ft. of ventilation per SMART VENT

16 sq. ft. (ventilation needed) / .354 = 46 SMART VENTS required for air ventilation. (12 will be used; 34 must be added)

Questions? Call SMART VENT at 877-441-8368 or email us at [info@smartvent.com](mailto:info@smartvent.com)

[www.smartvent.com](http://www.smartvent.com)

FEMA Accepted, ICC-ES Certified, Code Compliant Foundation Flood Vents