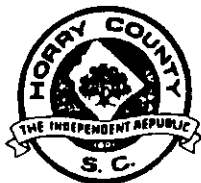


**Horry County Code Enforcement**

1301 2<sup>nd</sup> Ave Suite 1D09  
Conway, SC 29526



Phone: (843) 915-5090  
(843) 205-5090

Fax: (843) 915-6090

*Permit 144743*

**MEMO OF REVIEW FOR CORRECTNESS AND COMPLETION**

In accordance with this community's participation in the National Flood Insurance Program's Community Rating System, all FEMA Elevation Certificates must be correct and complete. The attached Certificate has some incorrect items which are noted here.

SECTION A - PROPERTY INFORMATION		For Insurance Company U
A1. Building Owner's Name <i>Tab Chapman</i>	Policy Number	
A2. Building Street Address (including Apt, Unit, Suite, and/or Bldg No.) or P.O. Route and Box No. <i>1903 Riverside Dr</i>	Company NAIC Number	
City <i>Conway</i> State <i>SC</i> ZIP Code <i>29526</i>		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <i>TMS 1390002065</i>		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) _____		
A5. Latitude/Longitude: Lat. _____ Long. _____		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number _____		
A8. For a building with a crawl space or enclosure(s), provide: a) Square footage of crawl space or enclosure(s) _____ sq ft b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade _____ c) Total net area of flood openings in A8 b <i>900</i> sq in d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		A9. For a building with an attached garage, provide: a) Square footage of attached garage _____ b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade _____ c) Total net area of flood openings in A9 b _____ d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No

**SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION**

B1. NFIP Community Name & Community Number <i>Horry County 45010A</i>		B2. County Name		B3. State	
B4. Map/Panel Number <i>45051C0509</i>	B5. Suffix <i>H</i>	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation (use base flood de

- B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.  
 FIS Profile  FIRM  Community Determined  Other (Describe) \_\_\_\_\_
- B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_
- B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  
 Yes  No  
 Designation Date \_\_\_\_\_  CBRS  OPA

**SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)**

- C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
 \*A new Elevation Certificate will be required when construction of the building is complete.
- C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO.  
 Complete Items C2 a-h below according to the building diagram specified in Item A7.  
 Benchmark Utilized \_\_\_\_\_ Vertical Datum \_\_\_\_\_
- Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_

**COMMENTS:**

*1900 sq inches of vent space = 500 sq ft of coverage 25 vents  
3 vents in garage 600 sq ft coverage  
See attached information*

Date of Review: *2-26-15* Community Official: *Michael U...*

*All elevation certificates shall be maintained by the community and copies with the attached memo made available upon request.*

# ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

II 144173  
OMB No. 1660-0008  
Expires March 31, 2012

2-3-10 4366

## SECTION A - PROPERTY INFORMATION

For Insurance Company Use

A1. Building Owner's Name **TAB CHAPMAN**

Policy Number

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.  
**1903 RIVERSIDE DRIVE**

Company Name/Number

City **CONWAY** State **SC** ZIP Code **29526**

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)  
**CHAPMAN TRACT PARCEL A-TAX#138-00-02-065**

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) **RESIDENTIAL**

A5. Latitude/Longitude: Lat. **N-33-49-43** Long. **W-79-00-50**

Horizontal Datum:  NAD 1927  NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number **g**

A8. For a building with a crawlspace or enclosure(s):

- a) Square footage of crawlspace or enclosure(s) **3032 FUFIT**
- b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade **25 FUFIT**
- c) Total net area of flood openings in A8.b **2.883\*** sq in
- d) Engineered flood openings?  Yes  No

A9. For a building with an attached garage:

- a) Square footage of attached garage **564** sq ft
- b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade **3**
- c) Total net area of flood openings in A9.b **393\*** sq in
- d) Engineered flood openings?  Yes  No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number  
**HORRY COUNTY 450051C0509 H**

B2. County Name  
**HORRY**

B3. State  
**SC**

B4. Map/Panel Number  
**450104-0509**

B5. Suffix  
**H**

B6. FIRM Index Date  
**09/17/2003**

B7. FIRM Panel Effective/Revised Date  
**08/23/1999**

B8. Flood Zone(s)  
**AE**

B9. Base Flood Elevation(s) (Zone AO, use base flood depth)  
**13**

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

- FIS Profile  FIRM  Community Determined  Other (Describe) \_\_\_\_\_

B11. Indicate elevation datum used for BFE in Item B9:  NGVD 1929  NAVD 1988  Other (Describe) \_\_\_\_\_

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?  Yes  No  
Designation Date \_\_\_\_\_  CBRS  OPA

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.

Benchmark Utilized **SEE NOTES** Vertical Datum **NGVD 1929**

Conversion/Comments **N/A**

Check the measurement used.

- a) Top of bottom floor (including basement, crawlspace, or enclosure floor) **14.0**  feet  meters (Puerto Rico only)
- b) Top of the next higher floor **18.4**  feet  meters (Puerto Rico only)
- c) Bottom of the lowest horizontal structural member (V Zones only) **N/A**  feet  meters (Puerto Rico only)
- d) Attached garage (top of slab) **14.2**  feet  meters (Puerto Rico only)
- e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) **13.8**  feet  meters (Puerto Rico only)
- f) Lowest adjacent (finished) grade next to building (LAG) **12.8**  feet  meters (Puerto Rico only)
- g) Highest adjacent (finished) grade next to building (HAG) **12.9**  feet  meters (Puerto Rico only)
- h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support **14.0**  feet  meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No

Certifier's Name **F. WILLIAM FAIREY, IV**

License Number **27446**

Title **S.C. P.L.S.**

Company Name **SPARTINA LAND SURVEYING**

Address **3100 DICK POND ROAD**

City **MYRTLE BEACH**

State **SC**

ZIP Code **29588**

Signature **F. William Fairey, IV**

Date **01/29/2010**

Telephone **843-340-0285**

*F. William Fairey, IV*  
1205 #27446

# Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1903 RIVERSIDE DRIVE	For Insurance Company Use:
City CONWAY State SC ZIP Code 29526	Policy Number
	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.



FRONT VIEW



REAR VIEW

#144743  
2-3-10  
#366



Most Widely Accepted and Trusted

# ICC-ES Evaluation Report

## ESR-2074

Reissued February 1, 2009

This report is subject to re-examination in two years.

[www.icc-es.org](http://www.icc-es.org) | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 10—SPECIALTIES  
Section: 10230—Vents

### REPORT HOLDER:

SMART VENT®, INC.  
480 ANDBRO DRIVE, SUITE 2B  
PITMAN, NEW JERSEY 08071  
(856) 307-1466  
[www.smartvent.com](http://www.smartvent.com)  
[eval@smartvent.com](mailto:eval@smartvent.com)

unlock, allowing the plate to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel, and each opening provides 78 square inches (49 032 mm<sup>2</sup>) of net free area for flood mitigation in the open position. The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units each contain two vertically arranged openings per unit, providing 152 square inches (98 064 mm<sup>2</sup>) of net free area for flood mitigation in the open position.

### 3.2 Engineered Opening:

The AFFVs comply with the design principle noted in Section 2.6.2.2 of ASCE/SEI 24 for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent AFFVs must be installed in accordance with Section 4.0.

### 3.3 Model Sizes:

The FloodVENT™ Model #1540-520, SmartVENT™ Model #1540-510, FloodVENT™ Overhead Door Model #1540-524, and SmartVENT™ Overhead Door Model #1540-514 units measure 15<sup>3</sup>/<sub>4</sub> inches wide by 7<sup>3</sup>/<sub>4</sub> inches high (400 by 196.9 mm). The Wood Wall Flood Model #1540-570 and Wood Wall Flood Overhead Door Model #1540-574 units measure 14 inches wide by 8<sup>3</sup>/<sub>4</sub> inches high (355.6 by 222.25 mm). The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units measure 16 inches wide by 16 inches high (406.4 by 406.4 mm).

### 3.4 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with 1/4-inch-by-1/4-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT™ Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm<sup>2</sup>) of net free area to supply natural ventilation. Other AFFVs recognized in this report do not offer natural ventilation.

### EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: FLOODVENT™ MODEL #1540-520; FLOODVENT™ STACKING MODEL #1540-521; SMARTVENT™ MODEL #1540-510; SMARTVENT™ STACKING MODEL #1540-511; WOOD WALL FLOOD MODEL #1540-570; WOOD WALL FLOOD OVERHEAD DOOR MODEL #1540-574; FLOODVENT™ OVERHEAD DOOR MODEL #1540-524; SMARTVENT™ OVERHEAD DOOR MODEL #1540-514

### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 International Building Code® (IBC)
- 2006 International Residential Code® (IRC)

Properties evaluated:

- Physical operation
- Water flow

### 2.0 USES

The Smart Vent® units are automatic foundation flood vents (AFFVs) employed to equalize hydrostatic pressure on nonfire-resistance-rated foundation walls, rolling-type overhead doors and building walls subject to rising or falling flood waters. Certain models also allow natural ventilation in accordance with Section 1203 of the IBC or Section 408.1 of the IRC.

### 3.0 DESCRIPTION

#### 3.1 General:

When subjected to pressure from rising water, the Smart Vent® AFFVs disengage, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The AFFV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to

### 4.0 INSTALLATION

SmartVENT® and FloodVENT™ are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. The mounting straps allow mounting in wood, masonry and concrete walls up to 12 inches (305 mm) thick. In order to

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comply with the engineered opening design principle noted in Section 2.6.2.2 of ASCE/SEI 24, the Smart Vent® AFFVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area
- With a minimum of one AFFV for every 200 square feet (18.6 m<sup>2</sup>) of enclosed area, except that the SmartVENT™ Stacking Model #1540-S11 and FloodVENT™ Stacking Model #1540-S21 must be installed with a minimum of one AFFV for every 400 square feet (37.2 m<sup>2</sup>) of enclosed area.
- Below the base flood elevation
- With the bottom of the AFFV located a maximum of 12 inches (305.4 mm) above grade.

#### 5.0 CONDITIONS OF USE

The Smart Vent® AFFVs described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The Smart Vent® AFFVs must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.

5.2 The Smart Vent® AFFVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

#### 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Automatic Foundation Flood Vents (AC364), dated October 2007.

#### 7.0 IDENTIFICATION

The Smart VENT® models recognized in this report must be identified by a label bearing the manufacturer's name (Smart Vent, Inc.), the model number, and the evaluation report number (ESR-2074).

Register your SMART VENTS  
<http://www.smartvent.com/register>

<http://www.smartvent.com/>

# FLOOD VENT

## Product Catalog

Go Back to the Product Catalog  
<http://www.smartvent.com/products>

Download Spec Sheet  
[http://images.smartvent.com/images/uploads/product\\_catalogs/1540-520.pdf](http://images.smartvent.com/images/uploads/product_catalogs/1540-520.pdf)

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## Certification

Download our National Certification (ICC-ESR 2074)  
[http://www.smartvent.com/images/uploads/codes\\_and\\_certs/icc-esr-2074.pdf](http://www.smartvent.com/images/uploads/codes_and_certs/icc-esr-2074.pdf)

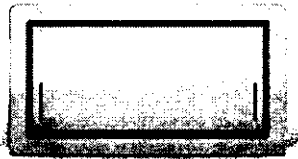
## Check out our FAQs

Go to our FAQ page  
<http://www.smartvent.com/faqs>

## Still Have a Question?

Contact our Sales and Support Office

- (877) 441-8368
- [info@smartvent.com](mailto:info@smartvent.com)
- <mailto:info@smartvent.com>



Click powder coat paint color to view:

1540-520 FLOOD VENT in Stainless Steel

Where to Buy  
<http://www.smartvent.com/locator>

Model Number	Description	Flood Coverage	Air Ventilation
1540-520	FLOOD VENT	200 sq. ft.	n/a
Vent Size		Rough Opening	
16-in. x 8-in.		16 1/4-in x 8 1/4-in.	

Features & Benefits

Installation and Features Benefits Videos

## About Insulated Flood Vents

### Application

This series is used for a garage or conditioned space where flood protection is required but air ventilation is not desired. For situations where a sealed crawlspace is being utilized in a floodplain, flood protection is still required and the Insulated FLOOD VENT series is the perfect fit for those applications.

### Flood Protection

The vent door is latched closed until it comes in contact with flood water. Entering flood water lifts the patented internal floats which unlatch and allow the door to rotate open. This allows the flood water to automatically enter and exit through the frame opening, relieving the pressure from the foundation walls. Certified flood debris clearance is demonstrated with a 3" diameter opening when the flood door is activated.

### Ventilation

The flood door contains a 2" styrofoam core that has an R-value of 8.34. There is also a felt weather stripping that lines the entire vent frame helping to keep the enclosure as insulated as possible.

- [Home](http://www.smartvent.com/)
- [FAQs](http://www.smartvent.com/faqs)
- [Where to Buy](http://www.smartvent.com/locator)
- [Green Resources](http://www.smartvent.com/green)
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