

# ELEVATION CERTIFICATE

IMPORTANT: Follow the instructions on pages 1-9.

OMB No. 1660-0008  
 Expiration Date: July 31, 2015

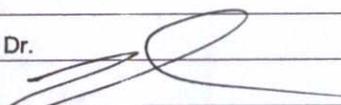
P.# 54301 #30 5-9-16

| SECTION A - PROPERTY INFORMATION  |                 | FOR INSURANCE COMPANY USE  |
|---|-----------------|--|
| A1. Building Owner's Name <b>Monty D. Taylor</b>  |                 | Policy Number:   |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.<br>421 Bay Dr.  |                 | Company NAIC Number:   |
| City <b>Murrells Inlet</b>  | State <b>SC</b> | ZIP Code <b>29576</b>  |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)<br><b>TMS # 195-22-02-015</b>  |                 |  |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <b>Residential</b>   |                 |  |
| A5. Latitude/Longitude: Lat. <b>33 deg. 35 min. 17.5 sec.</b> Long. <b>78 deg. 59 min. 52.3 sec.</b> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> 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 <b>6</b>  |                 |  |
| A8. For a building with a crawlspace or enclosure(s):   |                 | A9. For a building with an attached garage:  |
| a) Square footage of crawlspace or enclosure(s) <b>199</b> sq ft  |                 | a) Square footage of attached garage <b>N/A</b> sq ft  |
| b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <b>3</b>   |                 | b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <b>N/A</b> |
| c) Total net area of flood openings in A8.b <b>200</b> sq in  |                 | c) Total net area of flood openings in A9.b <b>N/A</b> sq in   |
| d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |                 | d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No            |

OK  
 MDT  
 5-10-16

| SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION  |                        |   |   |                                |  |
|--|------------------------|---|---|--------------------------------|--|
| B1. NFIP Community Name & Community Number<br><b>County of Horrv 450104</b>  |                        | B2. County Name<br><b>Horrv</b>         |   | B3. State<br><b>SC</b>         |  |
| B4. Map/Panel Number<br><b>45051C0753</b>  | B5. Suffix<br><b>H</b> | B6. FIRM Index Date<br><b>9/17/2003</b> | B7. FIRM Panel Effective/Revised Date<br><b>8/23/1999</b> | B8. Flood Zone(s)<br><b>AE</b> | B9. Base Flood Elevation(s) (Zone A0, use base flood depth)<br><b>12</b> |
| B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:<br><input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____  |                        |   |   |                                |  |
| B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____   |                        |   |   |                                |  |
| B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Designation Date: ____/____/____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA |                        |   |   |                                |  |

| SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)   |  |  |
|--|--|--|
| C1. Building elevations are based on: <input type="checkbox"/> Construction Drawings* <input type="checkbox"/> Building Under Construction* <input checked="" type="checkbox"/> Finished Construction<br>*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. In Puerto Rico only, enter meters.<br>Benchmark Utilized: <b>GPS SCVRS Network</b> Vertical Datum: <b>1988 convert to 1929 through Vertcon</b><br>Indicate elevation datum used for the elevations in items a) through h) below. <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____<br>Datum used for building elevations must be the same as that used for the BFE. |  |  |
|  |  | Check the measurement used.  |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) <b>7.9</b>   |  | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| b) Top of the next higher floor <b>16.8</b>  |  | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) <b>N/A</b>   |  | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| d) Attached garage (top of slab) <b>N/A</b>  |  | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) <b>16.4</b>   |  | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| f) Lowest adjacent (finished) grade next to building (LAG) <b>7.3</b>  |  | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| g) Highest adjacent (finished) grade next to building (HAG) <b>7.8</b>   |  | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support <b>7.9</b>  |  | <input checked="" type="checkbox"/> feet <input type="checkbox"/> meters |

| 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. |   |  |   |                          |
| <input type="checkbox"/> Check here if comments are provided on back of form.   |   | Were latitude and longitude in Section A provided by a licensed land surveyor? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |                          |
| <input type="checkbox"/> Check here if attachments.   |   |  |   |                          |
| Certifier's Name<br><b>Barry Suggs</b>  | License Number<br><b>25438</b>                            |  |  |                          |
| Title<br><b>PLS</b>   | Company Name<br><b>Crescent Moon Land Surveying, Inc.</b> |  |   |                          |
| Address<br><b>3099 Ino Dr.</b>  | City<br><b>Loris</b>                                      | State<br><b>SC</b>   |   | ZIP Code<br><b>29569</b> |
| Signature<br>  | Date<br><b>4/13/2016</b>                                  | Telephone<br><b>843-716-6021</b>   |   |                          |

**ELEVATION CERTIFICATE, page 2**

|  |             |                   |                           |  |
|--|-------------|-------------------|---------------------------|--|
| <b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>                            |             |                   | FOR INSURANCE COMPANY USE |  |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.<br>421 Bay Dr. |             |                   | Policy Number:            |  |
| City<br>Murrells Inlet   | State<br>SC | ZIP Code<br>29576 | Company NAIC Number:      |  |

**SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)**

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments

A/C unit is located at 16.4' and is the lowest machinery servicing the home.

Signature

Date 4/13/2015

**SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)**

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
- a) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- b) Top of bottom floor (including basement, crawlspace, or enclosure) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the LAG.
- E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E3. Attached garage (top of slab) is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is \_\_\_\_\_ . \_\_\_\_\_  feet  meters  above or  below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance?  Yes  No  Unknown. The local official must certify this information in Section G.

**SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION**

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name

|           |      |           |          |
|-----------|------|-----------|----------|
| Address   | City | State     | ZIP Code |
| Signature | Date | Telephone |          |

Comments

\_\_\_\_\_ Check here if attachments.

**SECTION G – COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4–G10) is provided for community floodplain management purposes.

|                   |                        |   |
|-------------------|------------------------|---|
| G4. Permit Number | G5. Date Permit Issued | G6. Date Certificate Of Compliance/Occupancy Issued |
|-------------------|------------------------|---|

- G7. This permit has been issued for:  New Construction  Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: \_\_\_\_\_ . \_\_\_\_\_  feet  meters Datum \_\_\_\_\_
- G9. BFE or (in Zone AO) depth of flooding at the building site: \_\_\_\_\_ . \_\_\_\_\_  feet  meters Datum \_\_\_\_\_
- G10. Community's design flood elevation: \_\_\_\_\_ . \_\_\_\_\_  feet  meters Datum \_\_\_\_\_

|                       |           |
|-----------------------|-----------|
| Local Official's Name | Title     |
| Community Name        | Telephone |
| Signature             | Date      |

Comments

\_\_\_\_\_  Check here if attachments.

See Instructions for Item A6.

|  |             |                   |                                  |
|--|-------------|-------------------|----------------------------------|
| <b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>                              |             |                   | <b>FOR INSURANCE COMPANY USE</b> |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.<br>421 Bay Drive |             |                   | Policy Number:                   |
| City<br>Murrells Inlet   | State<br>SC | ZIP Code<br>29576 | Company NAIC Number:             |

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 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." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



|  |             |                   |                                  |  |
|--|-------------|-------------------|----------------------------------|--|
| <b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>                            |             |                   | <b>FOR INSURANCE COMPANY USE</b> |  |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.<br>421 Bay Dr. |             |                   | Policy Number:                   |  |
| City<br>Murrells Inlet   | State<br>SC | ZIP Code<br>29576 | Company NAIC Number:             |  |

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.





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# ICC-ES Report

## ESR-2074

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

Reissued 02/2015  
This report is subject to renewal 02/2017.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

**SMARTVENT PRODUCTS, INC.**

430 ANDBRO DRIVE, UNIT 1  
PITMAN, NEW JERSEY 08071

EVALUATION SUBJECT:

**SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520;  
#1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514**



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- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.

**5.0 CONDITIONS OF USE**

The Smart Vent® FVs 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® FVs 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® FVs 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 Mechanically Operated Flood Vents (AC364), dated August 2015.

**7.0 IDENTIFICATION**

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

TABLE 1—MODEL SIZES

| MODEL NAME                         | MODEL NUMBER | MODEL SIZE (in.)   | COVERAGE (sq. ft.) |
|------------------------------------|--------------|--|--------------------|
| FloodVENT®                         | 1540-520     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| SmartVENT®                         | 1540-510     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| FloodVENT® Overhead Door           | 1540-524     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| SmartVENT® Overhead Door           | 1540-514     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| Wood Wall FloodVENT®               | 1540-570     | 14" X 8 <sup>3</sup> / <sub>4</sub> "                              | 200                |
| Wood Wall FloodVENT® Overhead Door | 1540-574     | 14" X 8 <sup>3</sup> / <sub>4</sub> "                              | 200                |
| SmartVENT® Stacker                 | 1540-511     | 16" X 16"  | 400                |
| FloodVent® Stacker                 | 1540-521     | 16" X 16"  | 400                |

For SI: 1 inch = 25.4 mm; 1 square foot = m<sup>2</sup>

**ICC-ES Evaluation Report****ESR-2074 FBC Supplement**

Reissued February 2015

Revised March 2016

*This report is subject to renewal February 2017.*[www.icc-es.org](http://www.icc-es.org) | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

**REPORT HOLDER:**

SMARTVENT PRODUCTS, INC.

430 ANDBRO DRIVE, UNIT 1

PITMAN, NEW JERSEY 08071

(877) 441-8368

[www.smartvent.com](http://www.smartvent.com)[info@smartvent.com](mailto:info@smartvent.com)**EVALUATION SUBJECT:****SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

**Applicable code editions:**

- 2014 *Florida Building Code—Building* (FBC)
- 2014 *Florida Building Code—Residential* (FRC)

**2.0 CONCLUSIONS**

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the FBC and the FRC, provided the design and installation are in accordance with the *International Building Code*® provisions noted in the master report.

Use of the Smart Vent® Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the FBC and the FRC.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued February 2015 and revised May 2016.

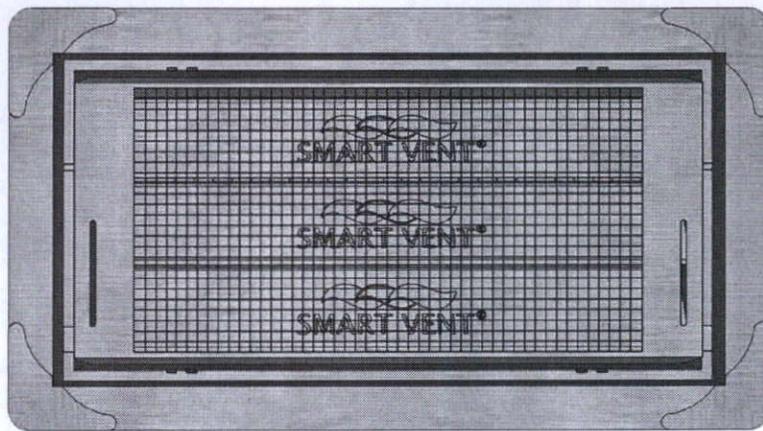


FIGURE 1—SMART VENT: MODEL 1540-510

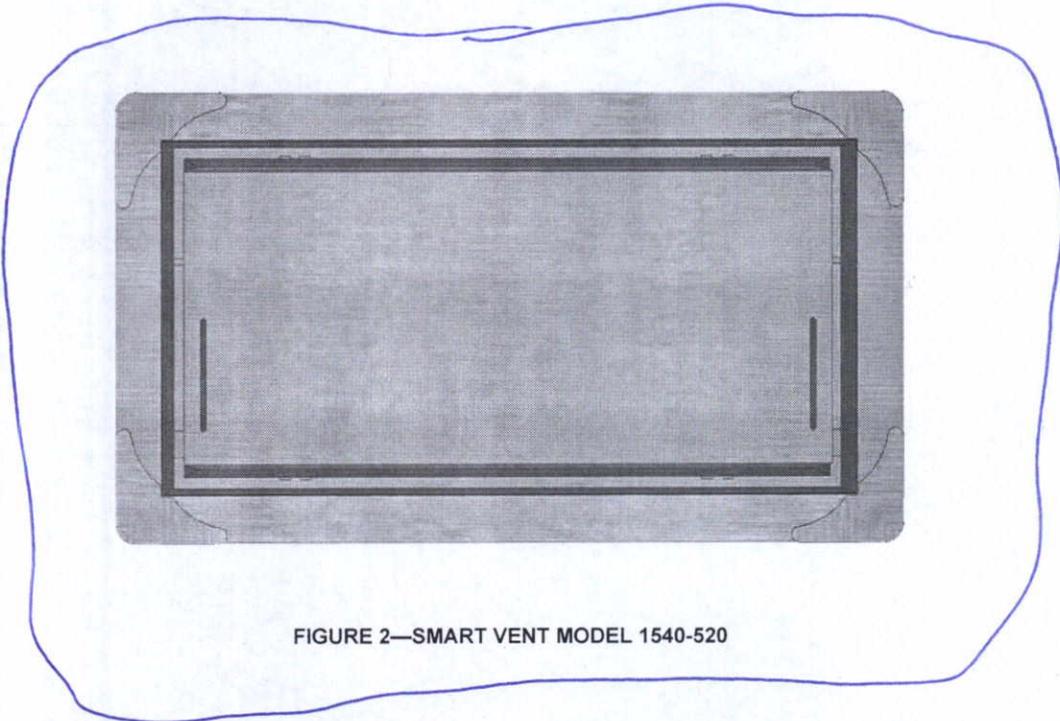


FIGURE 2—SMART VENT MODEL 1540-520

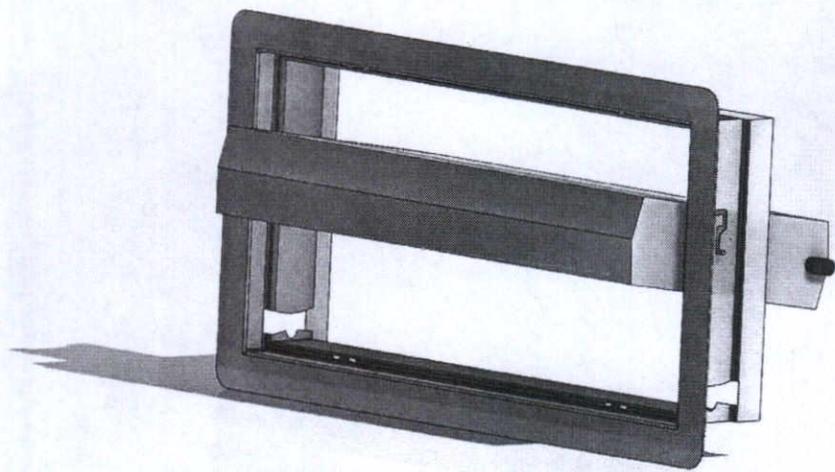


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

**ICC-ES Evaluation Report****ESR-2074**

Reissued February 2015

Revised May 2016

This report is subject to renewal February 2017.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

**SMARTVENT PRODUCTS, INC.**  
430 ANDBRO DRIVE, UNIT 1  
PITMAN, NEW JERSEY 08071  
(877) 441-8368[www.smartvent.com](http://www.smartvent.com)  
[info@smartvent.com](mailto:info@smartvent.com)

EVALUATION SUBJECT:

**SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:  
MODELS #1540-520; #1540-521; #1540-510; #1540-511;  
#1540-570; #1540-574; #1540-524; #1540-514****1.0 EVALUATION SCOPE**

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)<sup>†</sup>

<sup>†</sup>The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical operation
- Water flow

**2.0 USES**

The Smart Vent® units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

**3.0 DESCRIPTION****3.1 General:**

When subjected to rising water, the Smart Vent® FVs internal floats are activated, 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 FV 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 unlatch,

allowing the door to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

**3.2 Engineered Opening:**

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] 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 FVs must be installed in accordance with Section 4.0.

**3.3 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 FVs recognized in this report do not offer natural ventilation.

**4.0 DESIGN AND 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. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m<sup>2</sup>) of enclosed area, except that the SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m<sup>2</sup>) of enclosed area.