U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008

Expiration Date: July 31, 2015

		SEC	TION A - PROF	PERTY INFORM	MATION	FOR INS	URANCE CO	MPANY USE
A1. Building Owner's Name JOHN RALSTON Policy Number:								
A2. Building Street Addres 4742 EAST BAY DRIVE	ss (including Apt.	, Unit, Suite, and/or	Bldg. No.) or P.O	Route and Box	No.	Company	NAIC Numbe	r:
City PANAMA CITY			State FL	ZIP Code	32404			
A3. Property Description (LOT 5, RICHARD BAYOU				escription, etc.)				
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A5. Latitude/Longitude: Lat. 30 DEGREES 03.578' Long. 85 DEGREES 29.394' 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 7 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 8 c) Total net area of flood openings? New No A9. For a building with an attached garage: a) Square footage of attached garage N/A sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings? New No d) Engineered flood openings? Yes No								
	SECT	TION B – FLOOD	INSURANCE F	ATE MAP (FIR	M) INFORMATIO	N		
B1. NFIP Community Name BAY COUNTY 120004	e & Community N	Number	B2. County Nam BAY	е		B3. State FL		
B4. Map/Panel Number 12005C0461	B5. Suffix H	B6. FIRM Index E 6/2/09		FIRM Panel e/Revised Date 6/2/09	B8. Flood Zone(s) AE		ise Flood Elev D, use base flo 8'	
Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. FIS Profile FIRM Community Determined Other/Source: Other/Source: Other/Source: Other/Source: Other/Source: Other/Source: Other/Source: OPA Yes No								
	SECTIO	N C – BUILDING	ELEVATION IN	FORMATION (SURVEY REQUIF	RED)		
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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 7.24-(3) 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				
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED) SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED) 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 power. Comments: The TREN LISTED IN TIEGA CES IS AN ARC DODITIONER THE FLOOD VENTS ARE MANUFACTURED BY SMART-VENT, AND ARE MODEL #1540-521. SEE ATTACHED SPECIFICATION SHEET. ADDITIONAL SECTION BY SMART-VENT, AND ARE MANUFACTURED BY SMART-VENT, AND ARE SECTION BY SMART-VENT, AND ARE MANUFACTURED BY SMART-VENT, AND ARE MANUFACTURED BY SMART-VENT, AND ARE SECTION BY SMART-VENT, AND ARE MANUFACTURED BY SMART-VENT, AND ARE MANU				
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 THE FLOX USED IN ITEM 252 (6) Alt and CRODITONER. THE FLOOD VENTS ARE MANUFACTURED BY SMART-VENT, AND ARE MODEL # 1540-521, SEE ATTACHED SPECIFICATION SHEET. Date 7/22/2015 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 5 1-65, if the Certificate is intended to support a LOMA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOMA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOMA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOMA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOMA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOWA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOWA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOWA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOWA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOWA or LOWA? Frequest, complete Sections A, B, and Certificate is intended to support a LOWA or LOWA? Frequest, complete Sections A, B, and Certificate Lower or Lower below the HAG. 1) Too of bottom floor (including basement, crawsbapec, or enclosure) is complete Sections A, B, and Certificate		o.) or P.O. Route and Box No).·	Policy Number:
Copy both sides of this Elevation Certificate for (1) community official. (2) Insurance agent/company, and (3) building corner. Comments THE ITEM LISTED IN TEM CZE IS AN AIR CONDITIONER. THE FLOOD VENTS ARE MANUFACTURED BY SMART-VENT. AND ARE MODEL # 1540-652. SEE ATTACHED SPECIFICATION SHEET. Section E - Building SPECIFICATION SHEET. Section E - Building SPECIFICATION SHEET. Section E - Building SPECIFICATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE). For Zones AO and A (without BFE), complete learn 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 Roco 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), a) Top of bottom floor (including basement, crawbispace, or enclosure) is called the section of the section of the section floor (including basement, crawbispace, or enclosure) is called the section of the section floor (including basement) is called the section of the section floor (including basement) is called the section of the section of the section of the section floor (including basement) is called the section of the se	City PANAMA CITY	State FL ZIP Cod	de 32404	Company NAIC Number:
Comments THET LISTED IN ITEM CZE IS AN AIR CONDITIONER. THE FLOOD VENTS ARE MANUFACTURED BY SMART-VENT. AND ARE MODEL IN 1540-543. SEE ATTACHED SPECIFICATION SHEET. **Display** Control of the Control	SECTION D – SURVEYOR, ENGI	NEER, OR ARCHITECT (CERTIFICATION (C	ONTINUED)
Signature Date 7/22/2015 SECTION E - BUILDING ÉLEVATION 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 Cardificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C1 for disease in the control of the present and the	Copy both sides of this Elevation Certificate for (1) community office	cial, (2) insurance agent/comp	pany, and (3) building	owner.
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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. 1. Provide deviation 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 grade (HAG) an	Signature	Date 7/22/20	15	
and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puetro 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 HAG. E2. For Building Biagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or (ge sepages 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: I'ven flood opening provided in Section 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's or Owner's Authorized Representative's Name Address	SECTION E - BUILDING ELEVATION INFORMATION	(SURVEY NOT REQUIR	ED) FOR ZONE AC	AND ZONE A (WITHOUT BFE)
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's 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 fair 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 7.24-0.7 G7. This permit has been issued for: New Construction Substantial Improvement G8. Elevation of as-built lowest floor (including basement) of the building:	and C. For Items E1–E4, use natural grade, if available. Check the E1. Provide elevation information for the following and check the grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement, crawlspace, or e b) Top of bottom floor (including basement, crawlspace, or e celevation C2.b in the diagrams) of the building is E3. Attached garage (top of slab) is feet E4. Top of platform of machinery and/or equipment servicing the E5. Zone AO only: If no flood depth number is available, is the top grade (top of slab) and the platform of the building is feet E5. Zone AO only: If no flood depth number is available, is the top grade (top of slab) and the platform of flood depth number is available, is the top grade (top of slab) and the platform of flood depth number is available, is the top grade (top of slab) and the platform of flood depth number is available, is the top grade (tag).	e measurement used. In Puer appropriate boxes to show we inclosure) is nclosure) is rovided in Section A Items 8 : feet meters above or building is op of the bottom floor elevate	to Rico only, enter me whether the elevation is feet meters meters and/or 9 (see pages 8 above or below the HAG. feet meters a d in accordance with technical meters mete	eters. s above or below the highest adjacent above or below the HAG. above or below the LAG. 9 of Instructions), the next higher floor the HAG. above or below the HAG.
or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. Property Owner's or Owner's Authorized Representative's Name Address City State Telephone Comments Check here if attachments. Check	SECTION F - PROPERTY OWNER	R (OR OWNER'S REPRE	SENTATIVE) CER	TIFICATION
Address City State ZIP Code Telephone Comments Comments Check here if attachments.				EMA-issued or community-issued BFE)
Signature Date Telephone Comments Check here if attachments.	Property Owner's or Owner's Authorized Representative's Name		-	
Comments Check here if attachments.	Address	City	State	ZIP Code .
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.	Signature	Date	Telep	hone
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 GB—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 7.24(2) G7. This permit has been issued for: New Construction Substantial Improvement G8. Elevation of as-built lowest floor (including basement) of the building: Heet Meters Datum G9. BFE or (in Zone AO) depth of flooding at the building site: Heet Meters Datum G10. Community's design flood elevation: Local Official's Name Title Community Name Telephone Signature Date The one of this Elevation A, B, C (or E), and G Check here if attachments, the data of the community A of the St. According to the community A of the Community A	Comments		-	☐ Check here if attachments.
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 7.24-(2) 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: Title Community Name Telephone Signature Community Name Telephone Signature Date Title Community Name Telephone Title Community Name Telephone Signature The official's Name Telephone Title Community Name Telephone Signature The official's Name Telephone The official's Name Telephone Signature The official's Name Telephone The official's Name Telephone The official's Name Telephone Signature Telep	SECTION G – CO	MMUNITY INFORMATION	N (OPTIONAL)	
G9. BFE or (in Zone AO) depth of flooding at the building site: G10. Community's design flood elevation: Local Official's Name Title Community Name Telephone Signature Comments The original permit was issued a last of the diagram of the d	of this Elevation Certificate. Complete the applicable item(s) and sign to G1. The information in Section C was taken from other docume is authorized by law to certify elevation information. (Indic G2. A community official completed Section E for a building loc G3. The following information (Items G4–G10) is provided for G4. Permit Number G5. Date Permit Issued G7. This permit has been issued for: New Construction	pelow. Check the measurement that has been signed ate the source and date of the cated in Zone A (without a FE community floodplain manage G6.	In tused in Items G8–G If and sealed by a licer e elevation data in the EMA-issued or commu- ement purposes. Date Certificate Of Co	10. In Puerto Rico only, enter meters. nsed surveyor, engineer, or architect who comments area below.) nity-issued BFE) or Zone AO. mpliance/Occupancy Issued
Community's design flood elevation: Local Official's Name Title Community Name Signature Comments The one in permit was issued blazlot. It expired and was experimental improvement 11/2/11. Appeals Check here if attachments. to be diagram #8. However #7 + #8 are samel for elevations. Smart vent #1540-521 good for 400 sq. in. N 8 x 400 = 3200 S.S.				1000-01000000
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Smart VCM 77 13 90 5 4 1 90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Repennitled as a substantial im to be diagram It 8. However	provenent 11 #7 + 778 and	12/11. Appe	Check here if attachments.
	Smart VCM 77 13 90-521 god	a TOR 400	Sq. 11. FL	Replaces all previous editions.

ELEVATION CERTIFICATE, page 3

Building Photographs See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, Suite, and/or Bldg. I 4742 EAST BAY DRIVE	Policy Number:		
City PANAMA CITY	State FL	ZIP Code 32404	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.



ELEVATION CERTIFICATE, page 4

Building Photographs

Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Deller N. .

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 4742 EAST BAY DRIVE

Policy Number:

City PANAMA CITY

State FL

ZIP Code 32404

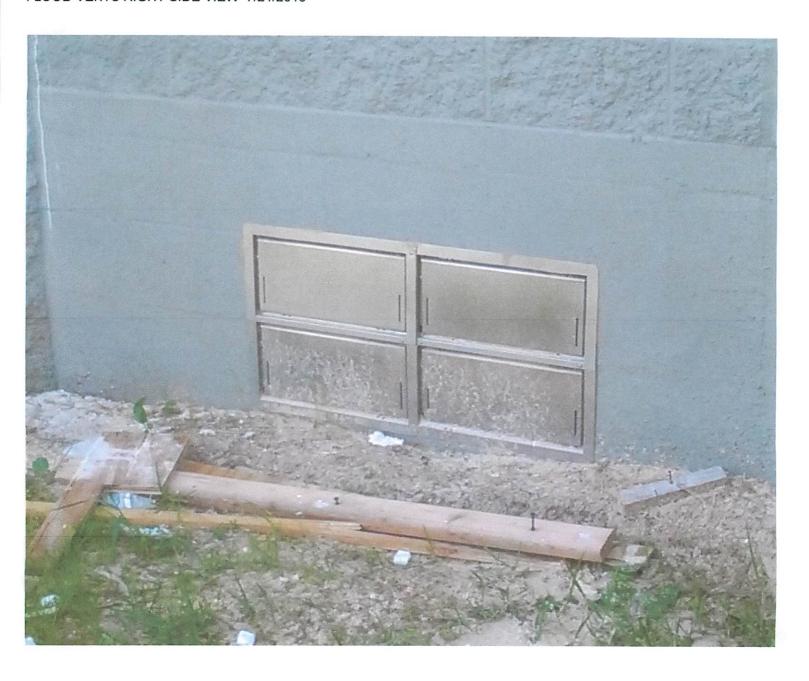
Company NAIC Number:

FOR INSURANCE COMPANY USE

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.



FLOOD VENTS RIGHT SIDE VIEW 7/21/2015







ICC-ES Evaluation Report

ESR-2074

Reissued February 2015

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 info@smartvent.com

EVALUATION SUBJECT:

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

- 2009 and 2006 International Building Code® (IBC)
- 2009 and 2006 International Residential Code® (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†] 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 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. The Smart Vent® units are intended for use where flood hazard areas have been established in accordance with IBC Section 1612.3 or IRC Section R3222.1. 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 unlatch, 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. The SmartVENT™ Stacking Model #1540-511 FloodVENT™ Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

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 Overhead Door Model #1540-510, FloodVENT™ #1540-524, and SmartVENT™ Overhead Door Model #1540-514 units measure $15^3/_4$ inches wide by $7^3/_4$ 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 83/4 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 mm²) 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 mm²) of net free area to supply natural ventilation. Other AFFVs recognized in this report do not offer natural ventilation.

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



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ESR-2074

Valid: 02/15 to 02/17

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: 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 #1540-514



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mounting straps allow mounting in wood, masonry and concrete walls up to 12 inches (305 mm) thick. In order to 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 m²) 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 AFFV for every 400 square feet (37.2 m²) 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 2013 (editorially revised May 2014).

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).



ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Issued February 2015

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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 info@smartvent.com

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 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:

- 2010 Florida Building Code—Building (FBC)
- 2010 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 structures not subject to FBC Section 2326.3.1 or FRC Section 4409.13.3.1, as applicable.

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).

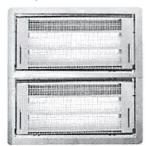
This supplement expires concurrently with the master report reissued February 2015.



SMART VENT® Combination Models

SMART VENT® Combination Models

SMART VENT® Models are certified to provide flood protection AND ventilation. These models are used for a home with a crawl space or built on a pony wall that requires seasonal ventilation of the crawl space AND protection from flooding. All stainless steel construction resists weather and pests.



Model #: 1540-511

Installation Type: Masonry

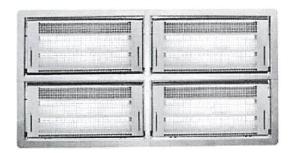
Style: Louvered

Dimensions: 16" x 16"

Rough Opening: 161/4" x 16 3/8"

(two blocks, or CMU)

One 16" x 16" vent certified for 400 sq. ft. of enclosed area for flood, and 102 sq. in. for ventilation



Model #: 1540-550

Installation Type: Masonry

Style: Louvered

Dimensions: 32" x 16"

Rough Opening: 33" x 16 3/8"

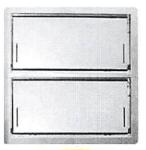
(four blocks, or CMU)

One 32" x 16" unit certified for 800 sq. ft. of enclosed area for flood, and 204 sq. in. for ventilation

*Some assembly of frames required

Flood Vent Combination Models

Flood Vent Models are certified to provide insulated flood protection only. These models are used for a garage or conditioned space, where flood protection is required but ventilation is NOT desired. The flood door is constructed of solid stainless steel wrapped around an insulating foam core.



Model #: 1540-521

Installation Type: Masonry

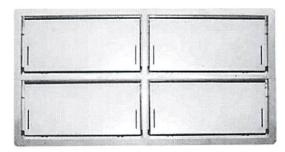
Style: Insulated

Dimensions: 16" x 16"

Rough Opening: 161/4" x 16 3/4"

(two blocks, or CMU)

One 16" × 16" vent certified for 400 sq. ft. of enclosed area for flood



Model #: 1540-560

Installation Type: Masonry

Style: Insulated

Dimensions: 32" x 16"

Rough Opening: 33" x 16 %"

(four blocks, or CMU)

One 32" x 16" unit certified for 800 sq. ft. of enclosed area for flood

Optional accessories for all models:

Fire Damper, Interior Trim Flange, Inner Sleeve and Pour in Place Buck Kits

Standard Finish:



Stainless

Available Powder Coat Colors For Special Order:



White



Wheat



Gray



Black

DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least 1 side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.

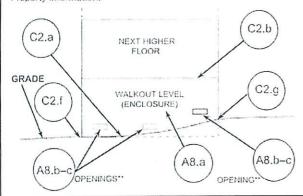


DIAGRAM 8

All buildings elevated on a crawlspace with the floor of the crawlspace at or above grade on at least 1 side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawlspace is with or without openings** present in the walls of the crawlspace. Indicate information about crawlspace size and openings in Section A – Property Information.

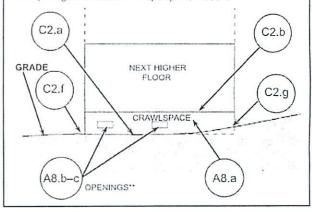
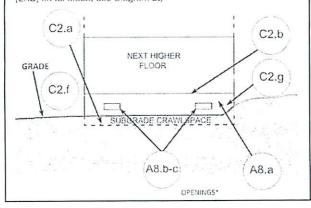


DIAGRAM 9

All buildings (other than split-level) elevated on a sub-grade crawlspace, with or without attached garage.

Distinguishing Feature – The bottom (crawlspace) floor is below ground level (grade) on all sides.* (If the distance from the crawlspace floor to the top of the next higher floor is more than 5 feet, or the crawlspace floor is more than 2 feet below the grade [LAG] on all sides, use Diagram 2.)



- A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.
- ** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of 2 openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than 1 square inch for every square foot of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES) must be submitted to document that the design of the openings will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening; openings may be installed in doors. Openings shall be on at least 2 sides of the enclosed area. If a building has more than 1 enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the openings must be no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. For more guidance on openings, see NFIP Technical Bulletin 1.