DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

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

	SEC	ION A - PROPERTY	INFORI	MATION		FOR INSUI	RANCE COMPANY USE
A1. Building Owner's Name D.L. Miner Construction - Morris					Policy Num	ber:	
A2. Building Street Box No. 247 110th Street							
City Stone Harbor	-			State New Jers	sey	ZIP Code 08247	
A3. Property Desc Block: 110.31 Lots	-	nd Block Numbers, Ta	x Parcel	Number, Leg	gal Description, e	etc.)	
A4. Building Use (e.g., Residen	tial, Non-Residential,	Addition,	Accessory,	etc.) Resident	tial	
A5. Latitude/Longi	tude: Lat. <u>3</u> 9	9° 02' 39"	Long. 74	4° 46' 01"	Horizont	al Datum: 🔲 NAD	1927 🗵 NAD 1983
A6. Attach at least	2 photograp	hs of the building if the	e Certific	ate is being ι	ised to obtain flo	od insurance.	
A7. Building Diagra	am Number	88					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square foo	tage of crawl	space or enclosure(s)			813.00 sq ft		
b) Number of p	permanent flo	ood openings in the cra	awlspace	e or enclosure	e(s) within 1.0 foo	ot above adjacent gra	ade 5
c) Total net ar	ea of flood op	penings in A8.b	1	000.00 sq in	1		
d) Engineered	I flood openin	gs? 🗵 Yes 🗌 N	lo				
A9. For a building v	vith an attach	ed garage:					
ļ		ed garage		sq ft			·
1		ood openings in the at				djacent grade	
· ·		penings in A9.b					
'		gs? Yes N		•			
u) Engineered	nood openin	ac. [] 100 [] .					
	SE	CTION B - FLOOD I	NSURA	NCE RATE	MAP (FIRM) IN	FORMATION	
B1. NFIP Commun Borough of Stone I		community Number 3		B2. County Cape May	Name		B3. State New Jersey
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Flood Zone(s)	B9. Base Flood E (Zone AO, us	levation(s) e Base Flood Depth)
34009C0242F	F	10-05-2017	10-05-2		AE	8'	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:							
1		used for BFE in Item B				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							

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY US
Building Street Address (including Apt., Unit, 9 247 110th Street	Suite, and/or Bldg. No.) or P.O). Route and Box No.	Policy Number:
City Stone Harbor	State New Jersey	ZIP Code 08247	Company NAIC Number
SECTION C - BU	ILDING ELEVATION INFOR	RMATION (SURVEY RI	EQUIRED)
C1. Building elevations are based on:	Construction Drawings*	Building Under Constru	uction* X Finished Construction
*A new Elevation Certificate will be requ			_
C2. Elevations – Zones A1–A30, AE, AH, A Complete Items C2.a–h below according	g to the building diagram speci	ified in Item A7. In Puert	AE, AR/A1-A30, AR/AH, AR/AO. o Rico only, enter meters.
Benchmark Utilized:	Vertical Da		
Indicate elevation datum used for the ele ☐ NGVD 1929 ※ NAVD 1988		below.	
Datum used for building elevations must		the BFE.	
			Check the measurement used.
a) Top of bottom floor (including baseme	ent, crawispace, or enclosure t	floor)	6.7 X feet meters
b) Top of the next higher floor			12.0 🗵 feet 🗌 meters
 c) Bottom of the lowest horizontal struct 	ural member (V Zones only)		N/A X feet meters
d) Attached garage (top of slab)			N/A X feet meters
 e) Lowest elevation of machinery or equ (Describe type of equipment and loca 	tion in Comments)		11.4 X feet meters
 f) Lowest adjacent (finished) grade next 	t to building (LAG)	<u></u>	6.6 X feet meters
g) Highest adjacent (finished) grade nex	t to building (HAG)		7.2 X feet meters
h) Lowest adjacent grade at lowest eleval structural support	ation of deck or stairs, includin	g 	6.8 X feet meters
SECTION D - SU	RVEYOR, ENGINEER, OR A	ARCHITECT CERTIFIC	CATION
This certification is to be signed and sealed by I certify that the information on this Certificate statement may be punishable by fine or impris	represents my best efforts to i	interpret the data availab	aw to certify elevation information. le. I understand that any false
Were latitude and longitude in Section A provi		or? Yes No	Check here if attachments.
Certifier's Name Gary Lee Thomas	License Number 23921		297 1
Title	20921		25 23971
Professional Land Surveyor			The Block
Company Name Thomas*Amey*Shaw, Inc.			Sol
Address	· · · · · · · · · · · · · · · · · · ·) Justina
2900 Dune Drive, Ste. 8			Here is
City Avalon	State New Jersey	ZIP Code 08202	1000
Signature	Date 10-16-2019	Telephone (609) 967-3999	Ext.
Copy all pages of this Elevation Certificate and al	ll attachments for (1) community	official, (2) insurance ag	ent/company, and (3) building owner.
Comments (including type of equipment and loc A8(c) 5 smartvents (model #1540-510) C2(e) Outlet	cation, per C2(e), if applicable))	

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding	g information from	Section A.	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and/o			Policy Number:			
247 110th Street						
City		ZIP Code	Company NAIC Number			
0.01.0 1.0.20		08247	BEUIIBEU)			
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–complete Sections A, B,and C. For Items E1–E4, use na enter meters.	tural grade, if availat	ble. Check the measure	ement used. In Puerto Rico only,			
E1. Provide elevation information for the following and of the highest adjacent grade (HAG) and the lowest act a) Top of bottom floor (including basement,	check the appropriate dijacent grade (LAG).					
crawlspace, or enclosure) is b) Top of bottom floor (including basement,		feet meter	<u> </u>			
crawlspace, or enclosure) is		feet _ meter				
E2. For Building Diagrams 6–9 with permanent flood op the next higher floor (elevation C2.b in the diagrams) of the building is	enings provided in S	ection A Items 8 and/or 				
E3. Attached garage (top of slab) is						
E4. Top of platform of machinery and/or equipment servicing the building is		feet meter	rs 🔲 above or 🔲 below the HAG.			
E5. Zone AO only: If no flood depth number is available floodplain management ordinance? Yes	, is the top of the bot No	tom floor elevated in ac The local official must	ccordance with the community's certify this information in Section G.			
SECTION F.— PROPERTY OWN	ER (OR OWNER'S I	REPRESENTATIVE) CI	ERTIFICATION			
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	who completes Sec	etions A. B. and F for 70	one A (without a FEMA-issued or			
Property Owner or Owner's Authorized Representative's						
Address	City	SI	tate ZIP Code			
Signature	Date	Τε	elephone			
Comments						
			Check here if attachments.			

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corr	esponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 247 110th Street	uite, and/or Bldg. No.) or	P.O. Route and Box No.	Policy Number:
City Stone Harbor	State New Jersey	ZIP Code 08247	Company NAIC Number
SECTION	ON G - COMMUNITY IN	FORMATION (OPTIONAL)
The local official who is authorized by law or o Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, er	rdinance to administer the Certificate. Complete the	e community's floodplain m	nanagement ordinance can complete
G1. The information in Section C was tal engineer, or architect who is authorized data in the Comments area below.)	zed by law to certify eleva	ation information. (Indicate	the source and date of the elevation
G2. A community official completed Sector Zone AO.	tion E for a building locate	ed in Zone A (without a FE	MA-issued or community-issued BFE)
G3. The following information (Items G4-	-G10) is provided for con	nmunity floodplain manage	ment purposes.
G4. Permit Number	G5. Date Permit Issue	.~	Date Certificate of Compliance/Occupancy Issued
19-13169	2/8/19	7	10/29/19
G7. This permit has been issued for:	New Construction □	Substantial Improvement	
G8. Elevation of as-built lowest floor (includin of the building:	g basement)	. O A fe	et 🗌 meters Datum NAND 1986
G9. BFE or (in Zone AO) depth of flooding at	the building site:	₹. ○ ¥ .fe	et meters Datum Navo 1986
G10. Community's design flood elevation:	<u> </u>	1.0 X fe	et meters Datum NAVOPE
Local Official's Name		Title	NON DEFECTAL
Community Name		Telephone	CON DIFICIAL
BOROUGH OF STONE	e HARBAR	0.09 · 3	68. 68KT
Signature		10/29/19	
Comments (including type of equipment and lo	ocation, per C2(e), if appli	cable)	
			Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

FFFAVIOR OFICE			
IMPORTANT: In these spaces, copy	the corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt. 247 110th Street			Policy Number:
City	State	ZIP Code	Company NAIC Number
Stone Harbor	New Jersey	08247	

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.

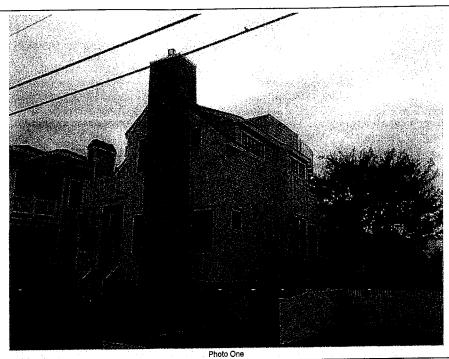


Photo One Caption 10-16-2019 front

Clear Photo One

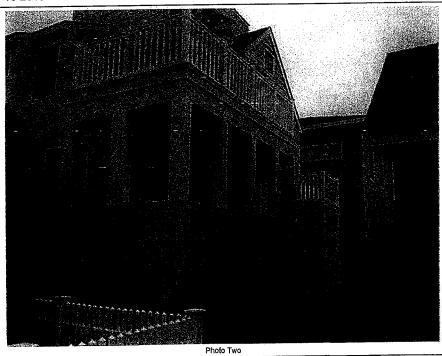


Photo Two Caption 10-16-2019 rear

Clear Photo Two

BUILDING PHOTOGRAPHS

OMB No. 1660-0008

Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Continuation Page

IMPORTANT: In these spaces, co	FOR INSURANCE COMPANY USE		
Building Street Address (including 247 110th Street	Policy Number:		
City	State	ZIP Code	Company NAIC Number
Stone Harbor	New Jersey	08247	

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.

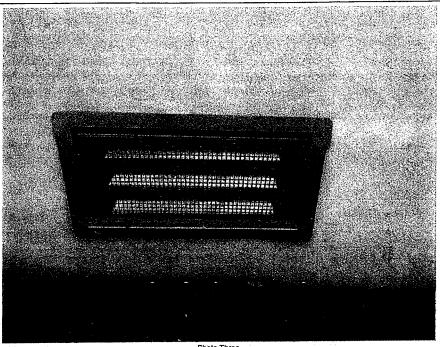


Photo Three

Photo Three Caption 10-16-2019 vent

Clear Photo Three

Photo Four

Photo Four

Photo Four Caption

Clear Photo Four Form Page 6 of 6



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ESR-2074

Reissued 02/2017
This report is subject to renewal 02/2019.

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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ICC-ES Evaluation Report

ESR-2074

Reissued February 2017

This report is subject to renewal February 2019.

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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: 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)[†]

[†]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 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 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 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 FV for every 400 square feet (37.2 m²) of enclosed area.
- 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 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT [®]	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT [®] Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
Wood Wall FloodVENT [®]	1540-570	14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	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 = m2

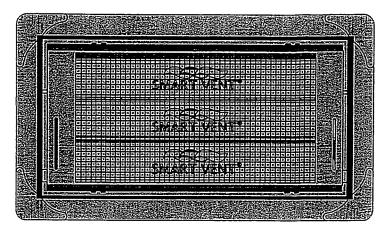


FIGURE 1-SMART VENT: MODEL 1540-510

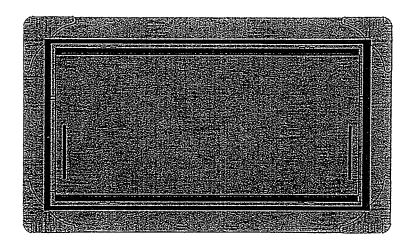


FIGURE 2—SMART VENT MODEL 1540-520

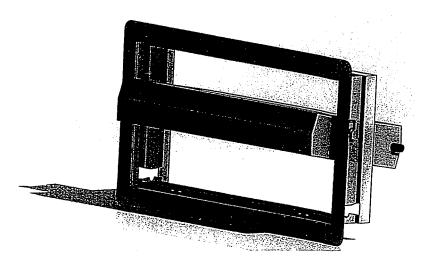


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Issued January 2017

This report is subject to renewal February 2019.

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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: 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 evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 International Building Code® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

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 2016 CRC, provided the design and installation are in accordance with the 2015 International Residential Code® (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland–Urban Interface Code®.

This supplement expires concurrently with the master report, reissued February 2017.

