#### U.S. DEPARTMENT OF HOMELAND SECURITY FÉDERAL 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

SECTION A – PROPERTY INFORMATION			FOR INSI	RANCE COMPANY USE	
OLO HORA A TROPILITY IN CITAL PROPERTY			Policy Nur	NATIONAL PROPERTY OF THE PROPE	
A1. Building Owner's Name Bhan and Nama Nadwen			Company	NAIC Number:	
9808 Corinthian Drive					
City Stone Harbor State NJ ZIP Code 08247					
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Block 96.04, Lot 202					
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential  A5. Latitude/Longitude: Lat. N 39°03'15.69" Long. W 74°45'50.26" 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 6  A8. For a building with a crawlspace or enclosure(s):  a) Square footage of crawlspace or enclosure(s) 1550 sq ft  b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 2  c) Total net area of flood openings in A8 b  1600 sq in  A9. For a building with an attached garage:  a) Square footage of attached garage 419 sq ft  b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 1  c) Total net area of flood openings in A8 b  C) Total net area of flood openings in A9.b					
<ul><li>c) Total net area of flood openings in A8.b</li><li>d) Engineered flood openings?   Yes   No</li></ul>	<u>1600</u> sq in c)	Engineered flood oper	openings in nings?	n A9.b <u>200</u> sq in ⊠ Yes □ No	
	INSURANCE RATE MAP (F	IRM) INFORMATIO	N		
B1. NFIP Community Name & Community Number Borough of Stone Harbor, #345323	B2. County Name Cape May		B3. State NJ		
B4. Map/Panel Number B5. Suffix B6. FIRM Index 9 PRELIMINAR		B8. Flood Zone(s) AE	B9, Ba	se Flood Elevation(s) (Zone ), use base flood depth) 9.0	
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/Source:  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 INFORMATIO	N (SURVEY REQUI	RED)		
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. In Puerto Rico only, enter meters.  Benchmark Utilized: Local  Vertical Datum: NAVD 88  Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929 NAVD 1988 Other/Source:  Datum used for building elevations must be the same as that used for the BFE.  Check the measurement used.					
Benchmark Utilized: <u>Local</u> Indicate elevation datum used for the elevations in items a)	Vertical Datum: <u>NAVD 88</u> through h) below. □ NGVD 192	29 ⊠ NAVD 1988 □ (		e:	
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îMPORTANT: In these spaces, copy t	he corresponding information fr	om Section A.	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt., Unit, 9808 Corinthian Drive	Suite, and/or Bldg. No.) or P.O. Route	and Box No.	Policy Number:		
City Stone Harbor	State NJ	ZIP Code 08247	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 This property is located in Zone convert NAVD 88 to NGVD 29 add 1.3'. The Vent" Model # 1540-510. The crawl space an	lowest visible equipment at the time of	the Survey was the heater lo	cated inside the garage. There were 9 "Smart		
Signature Stun ( Noodle	Da	ate 08/28/2014	·		
SECTION E - BUILDING ELEVATION	ON INFORMATION (SURVEY NO	Γ REQUIRED) FOR ZONI	E AO AND ZONE A (WITHOUT BFE)		
For Zones AO and A (without BFE), complet and C. For Items E1–E4, use natural grade, E1. Provide elevation information for the fo grade (HAG) and the lowest adjacent ga) Top of bottom floor (including basen b) Top of bottom floor (including basen E2. For Building Diagrams 6–9 with permai (elevation C2.b in the diagrams) of the E3. Attached garage (top of slab) is E4. Top of platform of machinery and/or eq E5. Zone AO only: If no flood depth number ordinance?  \( \square\$ Yes \square\$ No \square\$ Unk	if available. Check the measurement usuallowing and check the appropriate boxed rade (LAG).  ment, crawlspace, or enclosure) is ment, crawlspace, or enclosure) is ment flood openings provided in Sectior building is feet meters abstraction at a dispersion of the bottom feet savailable, is the top of the bottom feet.	sed. In Puerto Rico only, enters to show whether the elevations of the state of the	tion is above or below the highest adjacent ters  above or below the HAG.  ters above or below the HAG.  ters above or below the LAG.  ters 8-9 of Instructions), the next higher floor below the HAG.		
	ROPERTY OWNER (OR OWNER		CERTIFICATION		
The property owner or owner's authorized report Zone AO must sign here. The statements  Property Owner's or Owner's Authorized Rep	in Sections A, B, and E are correct to the	a, B, and E for Zone A (withoune best of my knowledge.	ut a FEMA-issued or community-issued BFE)		
Address	City	8	State ZIP Code		
Signature	Date	7	Felephone		
Comments			☐ Check here if attachments.		
	SECTION G - COMMUNITY INFO	ORMATION (OPTIONAL)			
The local official who is authorized by law or orcof this Elevation Certificate. Complete the applic	linance to administer the community's flocable item(s) and sign below. Check the	oodplain management ordinar measurement used in Items (	nce can complete Sections A, B, C (or E), and G 38–G10. In Puerto Rico only, enter meters.		
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 Sec	tion E for a building located in Zone A (	without a FEMA-issued or co			
	-G10) is provided for community floodp		Of Compliance/Occupancy Issued		
G4. Permit Number G5.	Date Permit Issued	Go. Date Certificate (	Of Compliance/Occupancy Issued		
G7. This permit has been issued for:  G8. Elevation of as-built lowest floor (including G9. BFE or (in Zone AO) depth of flooding at G10. Community's design flood elevation:	ng basement) of the building: (O). the building site:	I Improvement    X feet	s Datum NGVD 29		
Local Official's Name M. ULAEL	COOCHEU BIEDE	Title CONSTRUC	TION OFFICIAL		
Community Name	428 0 C	Telephone	6814		
Signature	Je.	Date 8 29	4		
Comments			☐ Check here if attachments		

## **ELEVATION CERTIFICATE**, page 3

# **Building Photographs**

See Instructions for Item A6

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

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 9808 Corinthian Drive

City Stone Harbor

State NJ

ZIP Code 08247

FOR INSURANCE COMPANY USE

Policy Number:

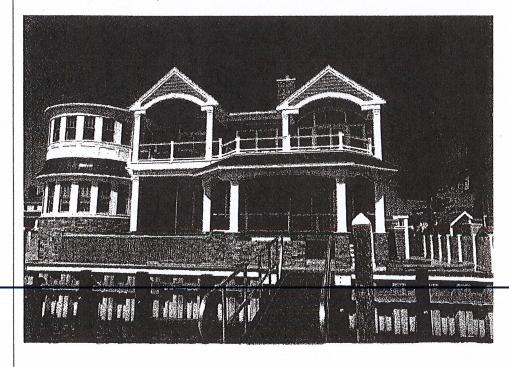
Company NAIC Number:

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.

### Front View (08/27/2014)



Rear View (08/27/2014)



# **Building Photographs**

Continuation Page

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

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

State NJ ZIP Code 08247

FOR INSURANCE COMPANY USE

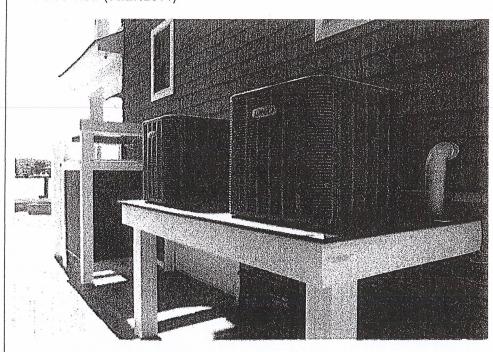
Policy Number:

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.

Left Side View (08/27/2014)

9808 Corinthian Drive
City Stone Harbor



Right Side View (08/27/2014)





# **ICC-ES Evaluation Report**

ESR-2074

Reissued February 1, 2009

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

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.
450 ANDBRO DRIVE, SUITE 2B
PITMAN, NEW JERSEY 08071
(856) 307-1468
www.smartvent.com
eval@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 #1540-524; SMARTVENT™ OVERHEAD DOOR MODEL #1540-514

#### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 International Building Code<sup>®</sup> (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

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, and each opening provides 76 square inches (49 032 mm²) 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 mm²) 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 15³/₄ inches wide by 7³/₄ 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 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 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).