### U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency

## **ELEVATION CERTIFICATE**

OMB No. 1660-0008 Expires February 28, 2009

Important: Read the instructions on pages 1-8.

National Flood Insurance Pro	gram		Read the in				
			TION A - PRO	PERTY IN	FORMAT	TON	For Insurance Company Use: Policy Number
A1. Building Owner's Name			and the second of the second	dispublican			
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O 134 $87^{TH}$ STREET				. Route an	d Box No.		Company NAIC Number
City STONE HARBO		ZIP Code 08247	S Marie J	1 1 1 1 1			
A3. Property Description (LOTS: 43, 45 BLOCK: 8		mbers, Tax Parcel N	lumber, Legal D	escription, o	etc.)		
<ul> <li>A4. Building Use (e.g., Res</li> <li>A5. Latitude/Longitude: La</li> <li>A6. Attach at least 2 photo</li> <li>A7. Building Diagram Num</li> <li>A8. For a building with a cr</li> <li>a) Square footage of</li> <li>b) No. of permanent fenclosure(s) walls</li> <li>c) Total net area of flo</li> </ul>	t. 39° 3' 31.5" Ligraphs of the builder 8 rawl space or enderawl s	ong. <u>-74° 45' 8.3"</u> Ilding if the Certificat closure(s), provide nclosure(s) the crawl space or ove adjacent grade	te is being used	to obtain flo	For a bui a) Squa b) No. o walls	ce.  ding with an attaine footage of attaine footage of attaine footage of attaine footage within 1.0 foot a	Datum: NAD 1927 NAD 1983  ached garage, provide: cached garage N/A sq ft od openings in the attached garage above adjacent grade N/A d openings in A9.b N/A sq ir
c) Total liet area of in		TION B - FLOOD		RATE MA			
B1. NFIP Community Name BOROUGH OF STONE HA	& Community N		B2. County Nat CAPE MAY				B3. State NJ
B4. Map/Panel Number 345323-0001	B5. Suffix	B6. FIRM Index Date 7/15/92	Effective	FIRM Pane e/Revised I 7/15/92	Maria Company	B8. Flood Zone(s) A7	B9. Base Flood Elevation(s) (Zon AO, use base flood depth) 10'
below according to the	based on: cate will be requi A30, AE, AH, A ( building diagram	with BFE), VE, V1-V specified in Item A7	awings* on of the building /30, V (with BFE	☐ Building is complete	g Under C	onstruction*	RED)  ☑ Finished Construction  AH, AR/AO. Complete Items C2.a-g
Benchmark Utilized LO Conversion/Comments		tum <u>NGVD29</u>					PEC.
					Ch	eck the measur	ement used.  erto Rico only)  AUG 2 6 2008
d) Attached garage (t	her floor st horizontal stru op of slab)	crawl space, or end ctural member (V Zo quipment servicing t	ones only)	9.4 12.3 N/A N/A 11.7	☐ feet☐ ☐ fee	meters (Pue	erto Rico only) erto Rico only) CONSTRUCTION OFFI con Rico only)
(Describe type of e f) Lowest adjacent (fi			के अध्यक्ष के बं	<u>9.1</u>		meters (Pue	
g) Highest adjacent (f	inished) grade (H	HAG)	ong kalandariyasi. Magaziri Magaziri	9.3	⊠ feet	meters (Pue	erto Rico only)
	SECTION	ON D - SURVEYO	R, ENGINEER	R, OR ARC	CHITECT	CERTIFICATI	ION
This certification is to be signiformation. I certify that the I understand that any false  Check here if comment	e information on statement may b s are provided o	this Certificate repre- be punishable by fine	esents my best e	fforts to into	erpret the o U.S. Code	data available. , Section 1001.	Marcs & Den
Certifier's Name THOMAS	R. DENEKA	30,000		License N	10	/ / /	/hower & year
Title NJPLS		1,1,1,1	me STONE HA	RBOR SU			
Address PO 10X 511	Λ	City STONE	HARBOR	State NJ	ZIP Cod	le 08247	
Signature / horus &	Lemb	Date 8/20/08	Telephor	e 609-368	-7451		

	T						
IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use;						
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 134 87 <sup>TH</sup> STREET	Policy Number						
City STONE HARBOR State NJ ZIP Code 08247	Company NAIC Number						
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CO	NTINUED)						
Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building over	vner.						
Comments BUILDING HAS 10 SMART VENTS COVERING 200 SQUARE FEET EACH, MODEL #1540- 510. C-2-E							
The second of th							
and the control of th							
Signature Company Date 8/20/08							
SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO							
The manifest of the second as the second as the second of the second							
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, crawl space, or enclosure) is							
SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTI	FICATION						
The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FE or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.	MA-issued or community-issued BFE)						
Property Owner's or Owner's Authorized Representative's Name							
	ZIP Code						
Address City State Signature Date Telepho							
Address City State Signature Date Telepho							
Address City State Signature Date Telepho							
Address City State  Signature Date Telepho  Comments  SECTION G - COMMUNITY INFORMATION (OPTIONAL)	□ Check here if attachments						
Address City State  Signature Date Telepho  Comments  SECTION G - COMMUNITY INFORMATION (OPTIONAL)  The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance	Check here if attachments						
Address  City  State  Telepho  Comments  SECTION G - COMMUNITY INFORMATION (OPTIONAL)  The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Item  The information in Section C was taken from other documentation that has been signed and sealed by a licensi	Check here if attachments  can complete Sections A, B, C (or E), ms G8. and G9. ed surveyor, engineer, or architect who						
Address  City  State  Telepho  Comments  SECTION G - COMMUNITY INFORMATION (OPTIONAL)  The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Item  The information in Section C was taken from other documentation that has been signed and sealed by a license is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Community of the	Check here if attachments  can complete Sections A, B, C (or E), ms G8. and G9. ed surveyor, engineer, or architect who  comments area below.)						
Address  City  State  Signature  Date  Telepho  Comments  SECTION G - COMMUNITY INFORMATION (OPTIONAL)  The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Item  The information in Section C was taken from other documentation that has been signed and sealed by a license is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Community official completed Section E for a building located in Zone A (without a FEMA-issued or community)	Check here if attachments  can complete Sections A, B, C (or E), ms G8. and G9. ed surveyor, engineer, or architect who  comments area below.)						
Signature  Section G - Community Information (Optional)  The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Item is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Community official completed Section E for a building located in Zone A (without a FEMA-issued or community 3.   The following information (Items G4G9.) is provided for community floodplain management purposes.  G4. Permit Number  G5. Date Permit Issued  G6. Date Certificate Of Community State  G6. Date Certificate Of Community G6.	Check here if attachments  can complete Sections A, B, C (or E), ms G8. and G9. ed surveyor, engineer, or architect who comments area below.) ty-issued BFE) or Zone AO.  pliance/Occupancy Issued						
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# **Building Photographs**Continuation Page

	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 134 87 <sup>TH</sup> STREET	Policy Number
City STONE HARBOR State NJ ZIP Code 08247	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."



Sa was in 1920

FRONT, LEFT SIDE VIEW 8/19/08



REAR, RIGHT SIDE VIEW 8/19/08

# Engineered Flood Openings Certificate To satisfy requirements of the National Flood Insurance Program

This certification must be submitted to, and kept on file by, the local jurisdiction's permit authority. A copy should be retained by the owner to demonstrate compliance in order to receive the best flood insurance rating.

The Smart VENT® and Flood VENT™ Foundation Flood Vent is certified as meeting the flood opening requirements for engineered openings as set forth in the Federal Emergency Management Agency's National Flood Insurance Program regulations (44 CFR 60.3(c)(5)) and ASCE 24-98, provided it is installed according to the those references, as summarized below. Flood openings are required in enclosures below elevated buildings, attached and detached garages, and accessory structures that meet the required limitations. For a copy of the report documenting this certification dated June 21, 2002, and a copy of the National Evaluation Service report NER 624, contact Smart VENT, Inc., at 877/441-8368 or visit:

### www.smartvent.com

I do hereby certify that the Smart VENT® Louvered Foundation Flood Vent and the FloodVENT™ Insulated Foundation Flood Vent opening (s) is designed for installation in buildings, will allow for the automatic equalizing of hydrostatic flood forces on exterior walls by allowing for the automatic entry and exit of floodwater during floods up to and including the base (100-year) flood. One Smart VENT® or one FloodVENT™ for every 200 Sq.Ft. Of enclosed area will provide sufficient hydrostatic pressure equalization during a flood provided the installation limitations and instructions are followed as listed below. To Calculate the required number of Smart VENTS® or FloodVENTS™ divide the Square Feet of enclosed area by 200.

Example: A 2000 Sq.Ft. enclosed area requires 10 vents, 2000 Sq.Ft / 200 = 10 Vents

Signature Polest	Lu	REP
Title Professione	2 Engineer	
Type of License ProFession	^ ~V	
License Number NJPE	GE26637 J	6 2 80 x 1
*Project Name		
*Project Address	-	OHEL
*Date Submitted		Minantiffe
* Required Fields*	AND THE PROPERTY OF THE PROPER	Professional Seal

#### Installation Limitations and Instructions

- The Smart VENT® or FloodVENT™ unit provides sufficient automatic equalization of hydrostatic pressure on walls and foundations of buildings located in flood hazard areas where the rate of rise is expected to be less than or approximately 5 feet per hour.
- Enclosed areas below otherwise elevated buildings, non-elevated attached and detached garages, and certain non-elevated accessory structures located in flood hazard areas are to be used solely for parking of vehicles, building access, or storage.
- Each enclosed area shall have at least two flood openings, installed on different sides of the enclosed area.
- 4. The bottom of the flood openings shall be no more than one foot above the adjacent finished ground level.
- Installation must be in accordance with manufacturer's instructions.

# "REFERENCE ONLY" From FEMA TB 1.93 Guidance for Engineered Openings Openings in Foundation Walls

National Flood Insurance Program (NFIP) Technical Bulletin TB 1-93

"In situations where it is not feasible or desirable to meet the openings criteria stated previously, a design professional (registered engineer or architect) may design and certify openings. This section provides guidance for such engineered designs. For openings not meeting all four requirements for non-engineered openings listed on page 2 and 3 of TB 1-93, certification by a registered professional engineer or architect is required. Such certification must be submitted to, and kept on file by, the community. These certifications must assure community officials that the openings are designed in accordance with accepted standards of practice. A certification may be affixed to the design drawings or submitted separately. It must include appropriate certification language, and the name, title, address, signature, type of license, license number, and professional seal of the certifier." (TB 1-93 is available through Smart VENT® or online at www.fema.gov)

Form: SMRT100 Rev.A July 2002

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## ICC Evaluation Service, Inc. www.icc-es.org

Business/Regional Office ■ 5360 Workman Mill Road, Whittier, California 90601 ■ (562) 699-0543

Regional Office ■ 900 Montclair Road, Suite A, Birmingham, Alabama 35213 ■ (205) 599-9600

Regional Office ■ 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 ■ (708) 799-2305

Legacy report on the 2000 International Building Code®, the 2000 International Residential Code®, the 2002 Accumulative Supplement to the International Codes™, the BOCA® National Building Code®1999, the 1999 Standard Building Code®, the 1997 Uniform Building Code™, the 1998 International One- and Two-Family Dwelling Code®, the 1995 CABO One- and Two-Family Dwelling Code, the 1998 International Mechanical Code®, and the 1996 International Mechanical Code®

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DIVISION 10—SPECIALTIES Section 10230—Vents

SMART VENT®, INC.
450 ANDBRO DR, SUITE 2B
PITMAN, JN 08071
(877) 441-8368
eval@smartvent.com
www.smartvent.com

- 1.0 SUBJECT
- 1.1 FloodVENT™ Model #1540-520
- 1,2 Smart VENT® Model #1540-510
- 2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT
- 2.1 Floodwater Venting
- 2.2 Natural Ventilation

#### 3.0 DESCRIPTION

Smart VENT®, Inc.'s Smart VENT® Model #1540-510 and FloodVENT™ Model #1540-520 reduce hydrostatic pressures of floodwaters on foundations and buildings caused by rising and falling floodwater. They open automatically to rising floodwater pressure from any direction, quickly equalizing hydrostatic forces on both sides of the foundation wall.

The vents are designed to fit an 8 by16 lnch (203 by 406 mm) opening and provide a 76 square inches (49 020 mm 2) net free area for flood mitigation. The vents are made from Type 304 Stainless Steel or better and have a screen cover with  $^{1}/_{4}$  square inch (161 mm²) holes. The vents have been tested to show that they meet the design principle of ASCE 24-98 and FEMA Technical Bulletin 1-93 for a minimum rate of rise and fall of 5.0 feet per hour (152 mm/s).

The vents pivoting door is locked in the closed position by means of a patented floating release device, which resists the entry of rodents and other pests. In the event of a flood, the rising water causes the release device to rise, while flowing flood water immediately opens the door, quickly equalizing the water level on both sides of the wall and thus equalizing the lateral forces on the foundation walls. In the event of fast

flowing floodwater, the patented floating device instantly uses the force of the flowing floodwater to open the door. The vents are completely bi-directional and automatically allow floodwater to exit as well as enter unobstructed through the foundation walls. In order to comply with the engineered opening requirement, one vent unit is required for every 200 square feet (19 m) of enclosed area below the base flood elevation to meet flood mitigation requirements.

The Smart VENT® is also capable of providing 50 square inches (0.30 m²) of net free area to supply supplemental natural ventilation to occupiable and habitable rooms and spaces and as a supplemental opening to an under-floor space between the bottom of the floor joist and the earth under any building.

#### 4.0 INSTALLATION

Smart VENT® and FloodVENT™ are designed to be installed into foundation walls of existing and new construction without the use of tools completely from the exterior side of the wall. The installation of the vents shall be in accordance with the manufacturer's instructions dated February 21, 2003, and this evaluation report. The patented mounting straps allow mounting in wood and masonry walls up to 12 inches (305 mm) thick. One vent unit is required for every 200 square feet (19 m) of enclosed area below the base flood elevation to meet flood mitigation requirements.

#### 4.1 EXISTING BUILDING INSTALLATION

Smart VENT® and FloodVENT™ are installed into foundation walls of existing buildings located in flood prone areas. Remove existing 8 by 16 inch (203 by 406 mm) foundation vents found within 12 inches (305 mm) of the ground and clean the opening in accordance with the instructions. If there are not sufficient number of existing vents as required by code for the size of the enclosed area, cut an additional 8 by 16 (203 by 406 mm) opening in the foundation walls for each vent required. Install in accordance with the instructions.

### 4.2 NEW CONSTRUCTION INSTALLATION

For each vent required, provide a standard 8 by 16 inch (203 by 406 mm) hole in the foundation walls, 12 inches (305 mm) or less above grade. The wall face must be vertical, flat and smooth. The vent's frame is first installed into the wall using

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



the patented mounting straps. The vent's door can be installed immediately thereafter or later when construction has been completed.

#### IDENTIFICATION 5.0

Smart VENT®, Inc.'s Smart VENT® Model #1540-510 and FloodVENT™ Model #1540-520 described in this report shall be identified by a label bearing the manufacturer's name, model number, and this report number for field Identification.

#### **EVIDENCE SUBMITTED** 6.0

- Smart VENT®, Inc.'s Smart VENT® Model #1540-510 6.1 and FloodVENT™ Model #1540-520 installation instructions, dated February 21, 2003.
- Letter of analysis on "Performance of Stainless Steels 6.2 in Seacoast Environments", dated April 5, 2001, and signed by James D. Fritz, Ph.D.
- Architectural Testing Inc., Report No. 01-38957.01, 6.3 dated June 1, 2001, signed by Steven M. Urich, P.E., and Allen N. Reeves, P.E., covers the following items:
  - Installation Test
  - Floodwater Rise Test
  - Submerged Flow Test
  - Floodwater Recession Test (ASC)
  - Structural Integrity Test grity rest
  - Surge Test
  - Salt Spray Test
- Metallurgical Test Report from AK Steel, dated July 18, 6.4 2000, signed by R. A. West.
- Architectural Testing Inc., Report No. 01-42966.01, 6.5 dated November 15, 2002, signed by Steven Urich, P.E., covering the following items:
  - Installation Test
  - Floodwater Rise Test
  - Submerged Flow Test
  - Floodwater Recession Test
  - Structural Integrity Test
  - **Debris Test**
- 6.6 Certificate of Engineered Flood Openings, dated September 3, 2002, signed and sealed by Steven Urich, P.E., as set forth in the Federal Emergency Management Agengy's National Flood Insurance Program regulations (44 CFR 60.3©)(5)) and Flood Resistant Design and Construction (ASCE 24-98).
- Net free ventilation opening calculations, dated 6.7 February 20, 2003, signed and sealed by Steven Urich,

#### **CONDITIONS OF USE** 7.0

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The ICC-ES Subcommittee on the National Evaluation Service finds that Smart VENT® Inc.'s FloodVENT™ Model #1540-520 and Smart VENT® Model #1540-510 as described in this report comply with or are suitable alternates to that specified in the 2000 International Building Code®, the 2000 International Residential Code®, the 2002 Accumulative Supplement to the International Codes™, the BOCA® National Building Code/1999, the 1999 Standard Building Code®, the 1997 Uniform Building Code<sup>®</sup>, the 1998 International One-and Two-Family Dwelling Code<sup>®</sup>, the 1995 CABO One- and Two-Family Dwelling Code, the 1998 International Mechanical Code, and the 1996 International Mechanical Code subject to the following conditions:

- Installation of the Smart VENT® and FloodVENT™ 7.1 referenced herein shall be in accordance with this report and manufacturer's installation instructions referenced herein.
- To conform with supplemental ventilation requirements, Smart VENT® and FloodVENT™ shall only be used to provide 50 square inches (0.30 m²) of net free area of supplemental natural ventilation to occupiable and 16:3 habitable rooms and spaces, and as a supplemental opening to an under-floor space between the bottom of the floor joists and the earth under any building. Smart VENT® and FloodVENT™ shall only be used to provide supplemental openings, which provide ventilation air, to an under-floor space between the bottom of the floor joist and the earth under any building. Primary net free area used to provide natural ventilation to occupiable and habitable rooms and spaces, and openings, which provide ventilation air to an under-floor space between the bottom of the floor joist and the earth under any building shall comply with the applicable Codes.
- Smart VENT® and FloodVENT™ shall not be used in the 7.3 place of "Breakaway Walls" in coastal high hazard areas, but is permitted for use in conjunction with breakaway
- One Smart VENT® and/or FloodVENT™ shall vent unit 7.4 shall be installed for every 200 square feet (19 m) of enclosed area below the base flood elevation to meet flood mitigation requirements.
- This report is subject to periodic re-examination. For 7.5 information on the current status of this report, contact the ICC-ES.