U.S. GEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expires March 31, 2012

Important: Read the instructions on pages 1-9.

National Flood Insurance Program Important: Read the instructions on pages 1-9.						
SECTION A - PROPERTY INFORMATION	For Insurance Company Use:					
A1. Building Owner's Name GARDNER, KELLY JOB #10569	Policy Number					
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 217 100 TH STREET REAR BUILDING	Company NAIC Number					
City STONE HARBOR State NJ ZIP Code 08247						
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOTS: 84.02, 86 BLOCK: 100.03						
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A5. Latitude/Longitude: Lat. 39° 3′ 3″ Long74° 45′ 40″ Horizontal Datum: A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 1 A8. For a building with a crawlspace or enclosure(s): A9. For a building with an attach a) Square footage of crawlspace or enclosure(s) 450 sq ft a) Square footage of attach	ned garage <u>N/A</u> sq ft					
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 4 within 1.0 foot above adjacent grade c) Total net area of flood openings in A8.b sect D sq in c) Total net area of flood openings?	penings in A9.b 0 sq in					
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION	· 					
	33. State					
Di. Hi ii Collinging regine a Collinging regine i DE. County regine	NEW JERSEY					
B4. Map/Panel Number B5. Suffix C Date Effective/Revised Date Zone(s) 7/15/92 7/15/92 A7	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 10'					
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 (Describe)						
B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) 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 INFORMATION (SURVEY REQUIRE	(D)					
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. Use the same datum as the BFE.						
Benchmark Utilized CMCMUA DISK SH-43 Vertical Datum 7.34' Conversion/Comments N/A						
Check the measurement						
a) Top of bottom floor (including basement, crawlspace, or enclosure floor) <u>8.5</u>						
b) Top of the next higher floor 15.8 ☑ feet ☐ meters (Puerto c) Bottom of the lowest horizontal structural member (V Zones only) N/A. ☐ feet ☐ meters (Puerto						
d) Attached garage (top of slab) 8.5 🛮 feet 🗀 meters (Puerto Rico only)						
e) Lowest elevation of machinery or equipment servicing the building 10.0 🔀 feet 🔲 meters (Puerto Rico only) (Describe type of equipment and location in Comments)						
f) Lowest adjacent (finished) grade next to building (LAG) 8.3						
g) Highest adjacent (finished) grade next to building (HAG) 8.7 🖾 feet 🗌 meters (Puerto h) Lowest adjacent grade at lowest elevation of deck or stairs, including N/A. 🔀 feet 🗋 meters (Puerto						
structural support						
SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation						
information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.						
☐ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☐ No	- Nomas D. Darel					
Certifier's Name THOMAS R DENEKA License Number 35828	- 1 " Dr.					
Title NJPLS Company Name STONE HARBOR SURVEYORS						
Address PO BOX 511 City STONE HARBOR State NJ ZIP Code 08247	- Vrame					
Signature (7) Date 6/16/10 Telephone 609-368-7451						

2 34.04	7 4 7 4 7 1				
IMPORTANT: In these spaces, co	opy the corresponding	information from	Section A.	(2000)	r Insurance Company Use:
	3 marin in the second second	A Flore Mines	1 × × × ×		licy Number
City STONE HARBORState NJ ZIP C		eletter of the second s		Co	mpany NAIC Number
SECTION	D - SURVEYOR, ENGIN	EER, OR ARCHITE	CT CERTIFICA	ATION (CONTIN	UED)
Copy both sides of this Elevation Certific	CONTRACTOR DESCRIPTION OF THE PERSON NAMED IN CONTRACTOR OF THE PERSON NAM	Participation of the second se	The state of the s		
Comments BUILDING HAS 4 SMART	VENTS COVERING 200 SC	QUARE FEET EACH.	MODEL 1540-520	0. C-2-E IS EXTER	RIOR HVAC AND POOL
EQUIPMENT					
\sim 1	A				
Thomas L. Denes	h_	D-1- 4	1/3/11		
Signature		Date 1			☐ Check here if attachments
SECTION E - BUILDING ELEV	ATION INFORMATION (SURVEY NOT RE	QUIRED) FOR	ZONE AO AND	ZONE A (WITHOUT BFE)
The property owner or owner's authorize	rade, if available. Check the she following and check the acent grade (LAG): basement, crawlspace, or entermanent, crawlspace, or entermanent flood openings proof the building is.	closure) is closure) is closure) is closure) is closure) is vided in Section A Ite feet met above building is p of the bottom floor of the Company of the bottom floor of the company of the bottom floor of the company of the bottom floor of the bo	freet feet feet feet feet feet feet feet	elevation is above meters above meters above epages 8-9 of Ins below the HAG heters above of ance with the com or G. VE) CERTIFICA (without a FEMA-is	or below the highest adjacent re or below the HAG. re or below the LAG. tructions), the next higher floor c. r below the HAG. munity's floodplain management
or Zone AO must sign here. The staten	nents in Sections A, B, and I	etes Sections A, B, a E are correct to the be	and it for Zone A (est of my knowled	ge.	sucu oi community-issued of E/
Property Owner's or Owner's Authorize					
Address		City		State	ZIP Code
Signature		Date	32	Telephone	
Comments					
in the second second					Check here if attachments
	SECTION G - CON	MUNITY INFORM	ATION (OPTIO	NAL)	
The local official who is authorized by lavand G of this Elevation Certificate. CompG1. The information in Section C wis authorized by law to certify eG2. A community official completed G3. The following information (Item	plete the applicable item(s) as taken from other docume elevation information. (Indica d Section E for a building loc as G4-G9) is provided for con	and sign below. Checon entation that has been ate the source and da ated in Zone A (witho	is the measurement signed and sealed to of the elevation out a FEMA-issued anagement purpos	ed by a licensed su data in the Comm d or community-iss ses.	rveyor, engineer, or architect who lents area below.) ued BFE) or Zone AO.
G4. Permit Number	G5. Date Permit Issued		G6. Date Certif	icate Of Complian	ce/Occupancy Issued
G7. This permit has been issued for:	☑ New Construction	☐ Substantial Imp	rovement		
G8. Elevation of as-built lowest floor (in	-	ilding: 15 . 8	/	ers (P.R) Datum	
G9. BFE or (in Zone AO) depth of flood	ing at the building site:	10.0	/	ers (PR) Datum	-
G10. Community's design flood elevation	1	10.0	reet ☐ mete	ers (PR) Datum	NO IN ZY
Local Official's Name Michael	EL KOOCHEMBS		CONSIE	O KOTTON O	FFICIAL
Community Name			ephone 604.	368.681	4
Signature	u Jean	Dat		HU	
Comments					
Post see, is	e despôtit		garagaran K		
	711		•		Check here if attachments

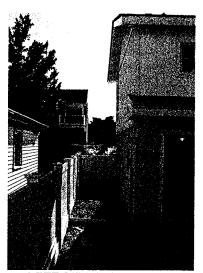
Building PhotographsContinuation Page

	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Policy Number
217 100 TH STREET REAR BUILDING	
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."



FRONT, RIGHT SIDE VIEW 11/3/11



LEFT SIDE VIEW 11/3/11

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 eaclosures 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	we want	NEW MAN
Title	ProFessional Engineer		
Type of License_	Professional Engineering		
License Number_	NJPE GE26637 J	The second second second	CF 45447
*Project Name _	e in the state of		
*Project Address_	ત્તર લાગ હોય, કિંગલ દેવ થો છે. જેવા છે તે કે પ્રોથમી હોય હોય, જેવા લેવ કે પ્રાથમિક		OHEL ENTER
*Date Submitted			Winamille.
* Required Fields*	the state of the s	· · · · · · · · · · · · · · · · · · ·	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.
- 3. Each enclosed area shall have at least two flood openings, installed on different sides of the enclosed area.
- The bottom of the flood openings shall be no more than one foot above the adjacent finished ground level.
- 5. 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 mamber, 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-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® (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

Strong of March

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

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