U.S. 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.

SECTION A - PROPERTY INFORMATION FOR INSURANCE COMPANY USE							JSE		
A1. Building Owner's Name SPENCER Policy Number:									
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Number: 105 S. WOODCREST AVENUE									
City LONGPORT				State New Jersey		ZIP Code 08403			
A3. Property De: BLOCK 70 LOT		and Block Numbers, T	ax Paro	cel Number, Legal [Description, etc.)				
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL									
A5. Latitude/Long	gitude: Lat. 3	39 18'55.7"	Long.	74 31'12.6"	Horizontal Datum	n: NAD	1927	R Gos	IVE
A6. Attach at lea	st 2 photogra	phs of the building if th	e Certit	ficate is being used	to obtain flood insura	ance.		Щ	
A7. Building Diag	ram Number	8						JUN 2	2 0047
A8. For a building	with a crawl	space or enclosure(s):					1	VUN L	4 4017
		Ispace or enclosure(s)						BOROUGH OF	i 01 0000=
		ood openings in the cr			within 1.0 foot above	adjacent g	rade L	CONSTRUCTION	ON OFFICE
c) Total net area of flood openings in A8.b 1,800 sq in									
d) Engineered flood openings? X Yes No									
A9. For a building with an attached garage:									
a) Square footage of attached garage363 sq ft									
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 2									
c) Total net area of flood openings in A9.b 400 sq in								-	
d) Engineered flood openings? Yes No									
B1. NFIP Commun		CTION B - FLOOD IN	NSUR/	T		ION -	Γ		
LONGPORT		ommunity Number		B2. County Name ATLANTIC			B3. S New s	State Jersey	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	E	IRM Panel ffective/ evised Date	B8. Flood Zone(s)	(Zor	ne AO,	d Elevation(s) use Base	
345302/0001	В	08/12/1970	08/15		A-8	10.00	od Dept	n)	
		Base Flood Elevation (B			pth entered in Item E	39:			
B11. Indicate eleva	tion datum us	ed for BFE in Item B9:	× NO	 GVD 1929 □ NA	VD 1988	r/Source:			
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes X 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 USE		
105 S. WOODCREST AVENUE					Policy Number:			
	State New Jersey	ZIP Code 08403		Company	NAIC	Number		
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)								
*A new Elevation Certificate will be required when C2. Elevations – Zones A1–A30, AE, AH, A (with BFI Complete Items C2.a–h below according to the benchmark Utilized: RM-1 Indicate elevation datum used for the elevations i	n construction of the E), VE, V1–V30, V (working diagram spectors) Vertical Day In items a) through his	vith BFE), AR, vitilied in Item A7 atum: NGVD 19 below.	plete. AR/A, AR. '. In Puerl	/AE. AR/A1-	-A30, A	hed Construction AR/AH, AR/AO. meters.		
Datum used for building elevations must be the s	ame as that used for	the BFE.		Check	the me	easurement used.		
a) Top of bottom floor (including basement, craw	Ispace, or enclosure	floor)	<u>9</u> . <u>76</u>	X	feet	meters		
b) Top of the next higher floor		-	14. 43	X	feet	meters		
c) Bottom of the lowest horizontal structural mem	nber (V Zones only)		<u>/A</u>	X	feet	meters		
d) Attached garage (top of slab)			<u>9</u> . <u>76</u>	X	feet	meters		
 e) Lowest elevation of machinery or equipment s (Describe type of equipment and location in C 	ervicing the building omments)	1/2/4/2014/10/14/2014/14/2014	12. 80	X	feet	meters		
f) Lowest adjacent (finished) grade next to build	ng (LAG)	-	<u>9</u> . <u>43</u>	X	feet	meters		
g) Highest adjacent (finished) grade next to build	ing (HAG)		<u>9</u> . <u>81</u>	X	feet	meters		
 h) Lowest adjacent grade at lowest elevation of c structural support 	leck or stairs, includi	ng	9. 43		feet	meters		
SECTION D - SURVEYO	R, ENGINEER, OR	ARCHITECT	CERTIFI	CATION				
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.								
Were latitude and longitude in Section A provided by a	licensed land surve	yor? ⊠Yes	∐ No	⊠ Che	ck here	e if attachments.		
Certifier's Name ARTHUR W. PONZIO, JR.	License Number GS28314							
Title LAND SURVEYOR								
Company Name ARTHUR W. PONZIO CO. & ASSOC., INC.					Place Seal Here			
Address 400 NORTH DOVER AVENUE								
ATLANTIC CITY	State New Jersey	ZIP Code 08401	•					
Signature/	Date 06/22/2017	Telephor (609) 344	1-8194					
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.								
Comments (including type of equipment and location, per C2(e), if applicable) PROJECT # 32816 - FINAL DUCT ELEVATION = 12.80' HEATER = 16.96' GENERATOR = 14.73' A/C UNIT = 20.55' SMART VENT MODEL # 1540-520 TO CONVERT 1929 DATUM TO 1988 DATUM SUBTRACT 1.30'								

ELEVATION CERTIFICATE

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

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 105 S. WOODCREST AVENUE City State New Jersey 08403 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–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, crawlspace, or enclosure) is feetmeters above or below the HAC feetmeters above or below the LAC. E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in feet feet above or below the HAC. E3. Attached garage (top of slab) is feet meters above or below the HAC. E4. Top of platform of machinery and/or equipment	.G.				
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–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, crawlspace, or enclosure) is feetmeters above or below the HAC. b) Top of bottom floor (including basement, crawlspace, or enclosure) is feetmeters above or below the LAC. E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is feetmeters above or below the HAC. E3. Attached garage (top of slab) is feetmeters above or below the HAC.	.G.				
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–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, crawlspace, or enclosure) is feetmeters above or below the HAC. b) Top of bottom floor (including basement, crawlspace, or enclosure) is feetmeters above or below the LAC. E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is feetmeters above or below the HAC. E3. Attached garage (top of slab) is feetmeters above or below the HAC.	.G.				
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, crawlspace, or enclosure) is	.G.				
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, crawlspace, or enclosure) is feetmeters above or below the HAC. b) Top of bottom floor (including basement, crawlspace, or enclosure) is feetmeters above or below the LAC. E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is feetmeters above or below the HAC. E3. Attached garage (top of slab) is feetmeters above or below the HAC.	.G.				
the highest adjacent grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement, crawlspace, or enclosure) is	.G.				
crawlspace, or enclosure) is feetmetersabove orbelow the HA b) Top of bottom floor (including basement, crawlspace, or enclosure) is feetmetersabove orbelow the LAC E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is feetmetersabove orbelow the HAC E3. Attached garage (top of slab) is feetmetersabove orbelow the HAC	.G.				
crawlspace, or enclosure) is					
the next higher floor (elevation C2.b in the diagrams) of the building is feetmetersabove orbelow the HAC feetmeters above or below the HAC feetmeters above or feet feet feet feet feet feet feet feet feet					
the diagrams) of the building is feet meters above or below the HAC feet	G.				
T4. Tan of platform of machinary and/or aguinment	G.				
servicing the building is feet meters above or below the HAC	G.				
E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in 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 or Owner's Authorized Representative's Name					
Address City State ZIP Code					
Signature Date Telephone					
Comments					
	3				
·					

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the co	FOR INSURANCE COMPANY USE						
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Policy Number:							
City LONGPORT	State New Jersey	ZIP Code 08403	Company NAIC Number				
SEC	TION G - COMMUNITY IN	FORMATION (OPTIONAL)					
The local official who is authorized by law or Sections A, B, C (or E), and G of this Elevati used in Items G8–G10. In Puerto Rico only,	ion Certificate. Complete the enter meters.	e applicable item(s) and sig	n below. Check the measurement				
data in the Comments area below.	orized by law to certify eleva)	ation information. (Indicate the	he source and date of the elevation				
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		Date Certificate of Compliance/Occupancy Issued				
G7. This permit has been issued for:	_	Substantial Improvement					
G8. Elevation of as-built lowest floor (including basement) of the building:							
G9. BFE or (in Zone AO) depth of flooding a	at the building site:						
G10. Community's design flood elevation:		feet	t meters Datum				
Local Official's Name	7	Title					
Community Name	1	Telephone					
Signature		Date					
Comments (including type of equipment and le	ocation, per C2(e), if applica	able)					
			4				
			8				
8							
			Check here if attachments.				

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
Building Street Address (including Apt. 105 S. WOODCREST AVENUE	Policy Number:		
City	State New Jersey	ZIP Code 08403	Company NAIC Number
LONGPORT	New Jersey	08403	

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.

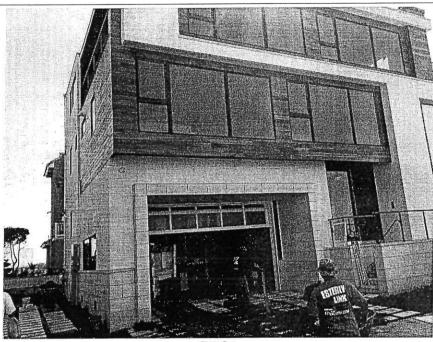


Photo One

Photo One Caption FRONT 6/20/17

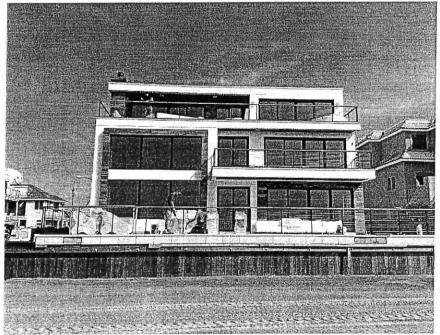


Photo Two

Photo Two Caption RIGHT SIDE 6/20/17

Form Page 5 of 6

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

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

IMPORTANT: In these spaces, c	FOR INSURANCE COMPANY USE		
Building Street Address (including 105 S. WOODCREST AVENUE	Policy Number:		
City	State	ZIP Code	Company NAIC Number
LONGPORT	New Jersey	08403	

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.

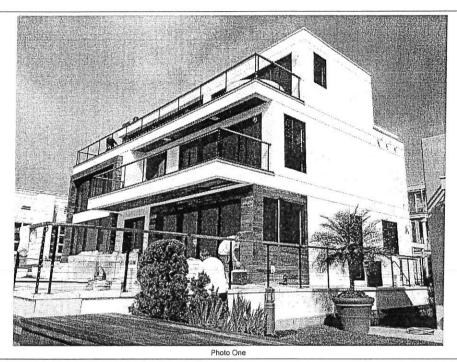


Photo One Caption RIGHT SIDE & REAR 6/20/17

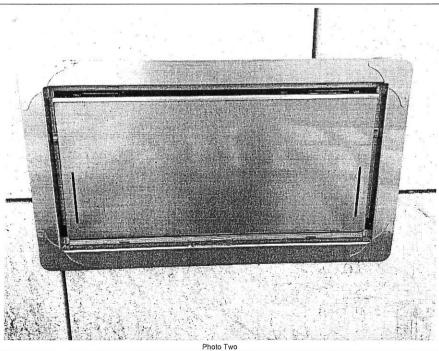


Photo Two Caption FLOOD VENT MODEL 1540-520 6/20/17



ICC-ES Evaluation Report

ESR-2074*

Reissued December 2012

This report is subject to renewal February 1, 2015.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

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 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 International Building Code® (IBC)
- 2009 and 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. 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 and 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 #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

*Revised June 2014



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).

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 rejoit.

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

Example: 12 2000 Sq.2 ti		
Signature Polest Inc	٠,	NEW
Title Professional Engineer		6 - 6 10
Type of License Professional Engineering		2 10 2
License Number NJPE GE26637 J		4 CE 45117 A
and the same		
*Project Name		The same of the sa
*Project Address		The Miles
*Date Submitted		D C :1 G1
* Required Fields*		Professional Seal
_		

Installation Limitations and Instructions

- The Smart VENT® or FloodVENT™ unit provides sufficient automatic equalization of hydrostatic pregsure 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.
 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

This form is the property of Smart VENT Inc. Modification or Duplication is Strictly Prohibited without authorization.