U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

MR No. 1660 000

OMB No. 1660-0008

Expiration Date: July 31, 2015

A2. Building Street Address (including Apt., Unit, Suite, and/or Bidg, No.) or P.O. Route and Box No. City BORDUGH OF LONGPORT A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) BLOCK 13 LOT 8 BLIGHING Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A5. Leathded-Inequative: Lat. N.93.2077. Long, W074.5319 Printizonal Datum. MAD 1987. MAD 1983. A6. Attach at least 22 photographs of the building of the Certificate is being used to obtain fload maurance. A7. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A6. Leathded-Inequative: Lat. N.93.2077. Long, W074.5319 Printizonal Datum. MAD 1987. MAD 1983. A6. Attach at least 22 photographs of the building of the Certificate is being used to obtain fload maurance. A7. Building Dagram Number 8 A8. For a building Nagram Number 8 By Number of permanent fload openings in the translated garage. a) Square footage of etasyspace or enclosure(s). 1722. sq. ft. b) Number of permanent fload openings in AB 5. 900." sq. in c) Total read area of fload openings in AB 5. 900." sq. in c) Total read area of fload openings in AB 5. 900." sq. in c) Total read area of fload openings in AB 5. 900." sq. in c) Total read area of fload openings in AB 5. 900." sq. in c) Total read area of fload openings in AB 5. 900." sq. in c) Total read area of fload openings in AB 5. 900." sq. in c) Total read area of fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in c) Engineered fload openings in AB 5. 900." sq. in	SECTION A - PROPERTY INFORMATION PARTIES AND ENGINEERING AND						with the property of the party of the property of the party of the part	
109 S 17P Åve. Cry BORNOUGH OF LONGPORT	A1. Building Owner's Name Don & Susan Wenger							
A3. Property Description (Lut and Block Numbers, Tax Parcel Number, Legal Description, etc.) BLOCK 13. LOT 8 A5. LatthureLengtude: Lat, N33.3077. Long W074.5319 Horizontal Datum:							7/11/11 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	yara tendanikan 1. Maja Maja
## BLOCK 13 LOTS ## A Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) ## RESIDENTIAL ## A5 Latitude Longitude. Lat. N. 39.3077 Long. W 974.5319 Horizontal Detum: NAD 1927 NAD 1983 ## A6 Manufa at Joseph 2	City BOROUGH OF L	ONGPORT		State NJ	ZIP Code	9 08403		
A5. Latta hu least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number § A8. For a building with a crawspace or enclosure(s): a) Square footage of crawspace or enclosure(s): b) Number of permanent flood openings in the brawspace or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service or enclosure(s) within 1.0 floot above adjacent grade service grade serv		Lot and Block Nu	ımbers, Tax Parcel N	Number, Legal Des	cription, etc.)		4.7	10 - 6 2015
B1. NFIP Community Name & Community Number B0ROUGH OF LONGPORT 345302 B4. Map/Panel Number 345302 0001 B5. Suffix B6. FIRM Index Date No Index Printed 2015 183. State NJ 10** B7. FIRM Panel Effective/Revised Date 2016 183. State NJ 10** B8. Flood Elevation(s) (Zone A5302 0001 B9. Base Flood Elevation(s) (Zone A60, use base flood elevation(s) (Zone A60, use base flood depth) 10** B7. FIRM Panel Effective/Revised Date A61* B8. Flood B8. Flood Elevation(s) (Zone A60, use base flood depth entered in Item B9. Community Determined Community Communit	A5. Latitude/Longitude: La A6. Attach at least 2 photo A7. Building Diagram Num A8. For a building with a ci a) Square footage of b) Number of perman or enclosure(s) with c) Total net area of flo	A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A5. Latitude/Longitude: Lat. N 39.3077 Long. W 074.5319 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 8 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 8+* c) Total net area of flood openings in A8.b Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A7. PAT NAD 1983 A9. For a building with an attached garage: a) Square footage of attached garage 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 A8.b						
B1. NFIP Community Name & Community Number B0ROUGH OF LONGPORT 345302 B4. Map/Panel Number 345302 (0001				INSURANCE RA				
Section B			lumber					3
Stop				Effective/	Revised Date			AO, use base flood depth)
Building elevations are based on:	☐ FIS Profile ☐ FIRM ☐ Community Determined ☐ Other/Source: 11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: 12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☐ No							
*A new Elevation Certificate will be required when construction of the building is complete. 22. 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: private Vertical Datum: NGVD 1929 NAVD 1988 Other/Source:								
A) Top of bottom floor (including basement, crawlspace, or enclosure floor) B.2***	*A new Elevation Certificate will be required when construction of the building is complete. 22. 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: private Vertical Datum: NGVD 1929 Indicate elevation datum used for the elevations in items a) through h) below. NGVD 1929 NAVD 1988 Other/Source:							
b) Top of the next higher floor c) Bottom of the lowest horizontal structural member (V Zones only) N/A. Geet meters d) Attached garage (top of slab) e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including 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 Check here if attachments. Centificate represents my best efforts to interpret the data available. Certifier's Name Paul M. Koelling, PLS, CFM License Number NJ24GS 04328800 ECHICATION License Number NJ24GS 04328800 EXAMPLE Licensed Land Surveyor Company Name Paul H. Koelling & Associates, LLC Code 08221	Datum used for building	elevations must	be the same as that	. used for the BFE.		Check	the meas	surement used.
f) Lowest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (HAG) h) Lowest adjacent grade at lowest elevation of deck or stairs, including 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 Check here if attachments. licensed land surveyor? Yes No SEAL Certifier's Name Paul M. Koelling, PLS, CFM License Number NJ24GS 04328800 HERE Address 2161 Shore Road City Linwood State NJ ZIP Code 08221	b) Top of the next higherc) Bottom of the lowest Id) Attached garage (tope) Lowest elevation of m	r floor horizontal structu of slab) nachinery or equi	ural member (V Zone	es only)	13 <u>N/</u> 7.8	3. <u>3</u> /A <u>8</u>	feet feet feet feet feet	meters meters meters
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 Certifier's Name Paul M. Koelling, PLS, CFM License Number NJ24GS 04328800 Title Licensed Land Surveyor Company Name Paul H. Koelling & Associates, LLC Address 2161 Shore Road City Linwood State NJ ZIP Code 08221	f) Lowest adjacent (finisg) Highest adjacent (finis	shed) grade next	to building (LAG)				William 201 2020	(1000) A.
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 ☐ Check here if attachments. licensed land surveyor? ☐ Yes ☐ No ☐ SEAL ☐ Certifier's Name Paul M. Koelling, PLS, CFM ☐ License Number NJ24GS 04328800 ☐ Title Licensed Land Surveyor ☐ Company Name Paul H. Koelling & Associates, LLC ☐ Address 2161 Shore Road ☐ City Linwood ☐ State NJ ZIP Code 08221 ☐ Certifier's Name Paul M. Koelling & Code 08221 ☐ Code 08221 ☐ City Linwood ☐ State NJ ZIP Code 08221 ☐ City Linwood ☐ Ci							WORLD TO THE REAL PROPERTY.	meters
Address 2161 Shore Road City Linwood State NJ ZIP Code 08221			ation of deck or stairs		al support N/	<u>/A</u>	⊠ feet	☐ meters
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	IMPORTANT: In these spaces, copy the corresponding information from Section A.					
Building Street Address (including Apt., Unit, Suite, and/o	Pol	icy Number:				
City BOROUGH OF LONGPORT	State NJ	ZIP Code 084	103 G	mpany NAIC Number		
SECTION D - SURVEYOR	R, ENGINEER, OR ARCH	ITECT CERT	FICATION (CONT	rinued)		
Copy both sides of this Elevation Certificate for (1) comm	nunity official, (2) insurance a	gent/company, a	and (3) building owne	er.		
Comments *A8b.) 1443 s.f. crawlspace vented with 8 Smart Vents November vented with plastic material having spacing between slats vented **B8 & B9.) FEMA Pre-FIRM Zone "AE"Base Flood November 22a.) crawlspace ****C2a.) exterior air unit elevation is 13.4, ductwork elections.	s estimated for a total of 300 s Elevation 9 ft. (NAVD88) con vation is 11.4	sq. in. of net are	aThe interior 32 s			
Signature	Date	4/2/13				
SECTION E - BUILDING ELEVATION INFOR	MATION (SURVEY NOT	REQUIRED) F	OR ZONE AO AN	D ZONE A (WITHOUT BFE)		
For Zones AO and A (without BFE), complete Items E1–I and C. For Items E1–E4, use natural grade, if available. Cell Provide elevation information for the following and cell grade (HAG) and the lowest adjacent grade (LAG). a) Top of bottom floor (including basement, crawlsp b)	Check the measurement user check the appropriate boxes to bace, or enclosure) is because, or enclosure) is benings provided in Section A feet m feet meters abovicing the building is e, is the top of the bottom floor	d. In Puerto Ricci to show whether fe fe Items 8 and/or neters above ye or below feet or elevated in ac	oonly, enter meters. the elevation is about the elevation is about the elevation is about the elevation is about the HAG. meters above cordance with the cordance with the cordance meters.	ve or below the highest adjacent cove or below the HAG. bove or below the LAG. Instructions), the next higher floor AG.		
				ATION		
SECTION F – PROPERTY			· · · · · · · · · · · · · · · · · · ·			
The property owner or owner's authorized representative or Zone AO must sign here. The statements in Sections A				-issued or community-issued BFE)		
Property Owner's or Owner's Authorized Representative's	Name					
Address	City		State	ZIP Code		
Signature	Date		Telephone			
Comments	1					
				☐ Check here if attachmen		
SECTION	G - COMMUNITY INFOR					
	ninister the community's flood	nlain managama	nt ordinance can cor	nolete Sections A. B. C. (or E), and		
ne local official who is authorized by law or ordinance to adm this Elevation Certificate. Complete the applicable item(s) a	and sign below. Check the me	asurement used	in Items G8-G10. In	Puerto Rico only, enter meters.		
ne local official who is authorized by law or ordinance to admithis Elevation Certificate. Complete the applicable item(s) and the information in Section C was taken from othe is authorized by law to certify elevation information. A community official completed Section E for a business.	and sign below. Check the me er documentation that has bee on. (Indicate the source and c uilding located in Zone A (with	asurement used en signed and so date of the eleva nout a FEMA-iss	in Items G8–G10. In ealed by a licensed stion data in the Comunity-is	Puerto Rico only, enter meters. surveyor, engineer, or architect wh ments area below.)		
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☐ Check here if attachments.

Comments

Building Photographs

	Continuation	For Insurance Company Use:	
Building Street Address (including 109 S. 17 th Ave.	Policy Number		
City	State	ZIP Code	Company NAIC Number
Longport	NJ	08403	- management management

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 View - Date of Photograph: (See Photo Stamp)

Rear View - Date of Photograph: (See Photo Stamp)





Right Side View - Date of Photograph: (See Photo Stamp)

Vent View - Date of Photograph: (See Photo Stamp)



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

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).