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.

	SEC	TION A - PROPERTY	INFOR	RMATION		FOR INSU	RANCE COMPANY USE	
A1. Building Owner's Name 8 S. 36th LLC							nber:	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.  8 S. 36th Ave.							NAIC Number:	
City BOROUGH OF LONGPORT			State New Jersey	•	ZIP Code 08403			
A3. Property Desc Block 108 Lot 13	cription (Lot a	nd Block Numbers, Tax	x Parce	el Number, Legal De	escription, etc.)			
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL								
A5. Latitude/Longi	tude: Lat. N	39.3190	Long. V	V 074.5179	Horizontal Datum	: NAD	1927 × NAD 1983	
A6. Attach at least	2 photograpi	ns of the building if the	Certific	cate is being used t	o obtain flood insura	nce.		
A7. Building Diagra	am Number	8						
A8. For a building	A8. For a building with a crawlspace or enclosure(s):							
a) Square foo	tage of crawls	space or enclosure(s)		1,470 sq ft				
b) Number of	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.b1,600 sq in								
d) Engineered flood openings?   Yes  No								
A9. For a building with an attached garage:								
a) Square footage of attached garage 0 sq ft								
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade  0								
c) Total net area of flood openings in A9.b sq in								
d) Engineered flood openings?   Yes   No								
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION								
B1. NFIP Community Name & Community Number BOROUGH OF LONGPORT & 345302			B2. County Name ATLANTIC COUNTY			B3. State New Jersey		
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	E	IRM Panel ffective/ evised Date	B8. Flood Zone(s)	(Zo	se Flood Elevation(s) ne AO, use Base od Depth)	
345302/0001	В	08/15/1983		5/1983	A8**	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/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								

# **ELEVATION CERTIFICATE**

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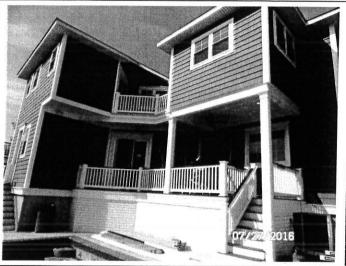
IMPORTANT: In these spaces, copy the corresponding i	FOR INSURANCE COMPANY USE							
Building Street Address (including Apt., Unit, Suite, and/or I	Policy Number:							
8 S. 36th Ave.								
City State	ZIP (	Code	Company NAIC Number					
BOROUGH OF LONGPORT New	Jersey 0840	3						
SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)								
D 111 - Under Construction* V Finished Construction								
<ul><li>C1. Building elevations are based on: Construction</li><li>*A new Elevation Certificate will be required when control</li></ul>			51678600					
A A A A A A A A A A A A (with DEE) \	E 1/1_1/30 1/ (with BE	F) AR AR/A AR/	AE, AR/A1-A30, AR/AH, AR/AO.					
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. Repchmark Utilized: private Vertical Datum: NGVD29								
Benchmark Utilized: private								
Indicate elevation datum used for the elevations in ite		v.						
⋉ NGVD 1929	ource:	FF.						
Datum used for building elevations must be the same	as that used for the bi	· L.	Check the measurement used.					
a) Top of bottom floor (including basement, crawlspa	ce, or enclosure floor)	<u>7</u> . 8						
		12. 6	X feet meters					
b) Top of the next higher floor	(V Zanas anly)	N/A	x feet meters					
c) Bottom of the lowest horizontal structural member	(V Zones only)	 N/A	X feet meters					
d) Attached garage (top of slab)		12, 5	The same of the sa					
<ul> <li>e) Lowest elevation of machinery or equipment servi (Describe type of equipment and location in Common commo</li></ul>	cing the building nents)		X feet meters					
f) Lowest adjacent (finished) grade next to building (	LAG)	<u>6</u> , <u>6</u>	x feet meters					
g) Highest adjacent (finished) grade next to building	(HAG)	<u>7</u> . 0	x feet meters					
h) Lowest adjacent grade at lowest elevation of deck structural support		6. 4	x feet meters					
SECTION D – SURVEYOR,	ENGINEER OR ARC	HITECT CERTIF	ICATION					
SECTION D = SURVETOR,	ENGINEER, OR ARO	itest sutherized by	Jaw to certify elevation information.					
This certification is to be signed and sealed by a land survice of the certification of this Certificate represents statement may be punishable by fine or imprisonment under the certification.			ble. I understand that any false					
Were latitude and longitude in Section A provided by a lice	ensed land surveyor?	⊠ Yes □ No	○ Check here if attachments.					
Certifier's Name	License Number							
Paul M. Koelling, PLS, CFM	NJ24GS 04328800		_					
Title								
Licensed Land Surveyor			Place					
Company Name Paul Koelling & Associates, LLC NJ C.O.A. No. 24GA28	Seal Here							
Address			— Hele					
2161 Shore Road								
City	State	ZIP Code						
Linwood	New Jersey	08221						
Signature	Date	Telephone	gentral distriction of the State of the Control of					
a Helling	08/08/2016	(609) 927-0279						
Copy all pages of this Elevation Certificate and all attachmen	nts for (1) community of	ficial, (2) insurance	agent/company, and (3) building owner.					
Comments (including type of equipment and location, per								
*A8b.) Smart Vents Model #1540-510 engineered for 200 **B8 & B9.) FEMA Pre-FIRM Zone "AE"Base Flood Ele ***C2a.) crawlspace enclosure ****C2e.) Ductwork elev. 12.5, electrical outlet elev. 12.5	square inches of net a	rea each ) converted = 11.3	ft. (NGVD29)					
-								

# **Building Photographs**

	See Instructions for Item A6.				
Building Street Address (include <b>8 S. 36<sup>th</sup> Ave.</b>	Policy Number				
City <b>Longport</b>	State <b>NJ</b>	ZIP Code <b>08403</b>	Company NAIC Number		

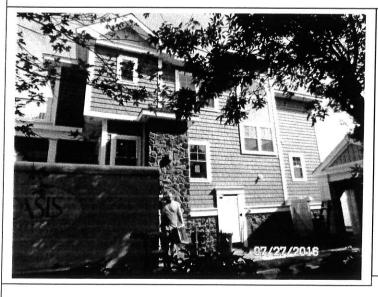
If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.





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)



# **ICC-ES Evaluation Report**

E8R-2074

Reissued February 1, 2009

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

www.icc-eq.org | (800) 423-6687 | (562) 699-0543

A Subsidiery of the International Code Council®

DIVISION: 10—SPECIALTIES
Section: 10230—Vents

REPORT HOLDER:

SMART VENT<sup>6</sup>, INC.
460 ANDBRO DRIVE, SUITE 2B
PITMAN, NEW JERSEY 08071
(666) 307-1468
www.smartvent.com
evel@smartvent.com

# EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:
FLOODVENT™ MODEL #1640-820; FLOODVENT™
STACKING MODEL #1640-821; SMARTVENT™ MODEL
#1640-810; SMARTVENT™ STACKING MODEL #1640-811;
WOOD WALL FLOOD MODEL #1640-870; WOOD WALL
FLOOD OVERHEAD DOOR MODEL #1640-874;
FLOODVENT™ OVERHEAD DOOR MODEL #1640-834;
SMARTVENT™ OVERHEAD DOOR MODEL #1640-814

#### 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<sup>®</sup> 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 poeition. The Smart/ENT<sup>TML</sup> Stacking Model \$1540-511 and Flood/ENT<sup>TML</sup> Stacking Model \$1540-521 units each contain two vertically arranged openings per unit, providing 152 square inches (96 064 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 ¹/₄Inch-by-¹/₄Inch (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 FicodVENT™ are designed to be installed into wells or overheed 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 strape allow mounting in wood, masonry and concrete wells up to 12 inches (305 mm) thick. In order to