

#### DEPARTMENT OF HOMELAND SECURITY

# Federal Emergency Management Agency ELEVATION CERTIFICATE

**IMPORTANT: FOLLOW THE INSTRUCTIONS ON PAGES 9-16** 

OMB Control Number: 1660-0008 Expiration: 11/30/2018

Copy all pages of this E		ificate and all attachmen			ty official, (2	) insura		IPANCE CON		er.
A1. Building Owner's		NA-PROPERTY INFO	JKMA	TION					PANT USE	= T
The Madden-Christopher's					Policy Numb	ere .				
A2. Building Street Ad Box No.	ddress (includ	ding Apt., Unit, Suite, ar	nd/or E	Bldg. No.) o	P.O. Route	and	Company N			
2939 Longport Drive							Number;	THE A	- 1 201	6
City BOROUGH OF L	ONGPORT				State	NJ		Žip Code		
A3. Property Descripti Block 56 lot 1	on (Lot and i	Block Numbers, Tax Pa	rcel N	umber, Leg	al Description	on, etc.)	Charles and Charles	BOROUG		
A4. Building Use (e.g.,	Residential,	, Non-Residential, Addit	ion, A	ccessory, et	tc.) RESIDE	NTIAL		CONSTR	OC LONG	
A5. Latitude/Longitude	: Lat. N 39.	3168 Long. W	/ 074.5	5238 Hori	izontal Datu	ım:	NAD 1927	● NAD 19	83	
A6. Attach at least 2 pl	notographs o	of the building if the Cert	ificate	is being us	ed to obtain			(2.10.00)		
A7. Building Diagram N	Number 7									
A8. For a building with		e or enclosure(s):			A9. For a	buildin	g with an attac	hed garage:		
a) Square footage of	of crawlspace	e or enclosure(s) 1280	sa, ft,	sa ft	a) Square	footag	e of attached	garage 326		ca f
b) Number of perma crawlspace or en above adjacent g	anent flood o closure(s) wi	penings in the 7*		= = = = = = = = = = = = = = = = = =	b) Numbe	r of per ttached	manent flood garage within	openings		sq fi
c) Total net area of	flood opening	gs in A8.b 1400*		sq in	c) Total ne	et area	of flood openir	ngs in A9.b 40	0	sq ir
d) Engineered flood	openings?			_	d) Engine	ered flo	od openings?	€ Yes		- 1
	S	ECTION B - FLOOD IN	SURA	NCE RATE	MAP (FIR	M) INFO	ORMATION			
B1. NFIP Community N		munity Number 345302		B2. Count					B3. State	J
34. Map/Panel Number 845302 / 0001	B5. Suffix B	B6. FIRM Index Date No Index Printed		FIRM Pane Revised Da 5/1983		B8. F	flood Zone(s)	B9. Base Flo (Zone A0 depth	od Elevation ), use base f	
11. Indicate elevation da	atum used fo	tal Barrier Resources Sy	NGVD /stem	1929 (CBRS) are				OPA)? CY	es ( No	_
esignation Date:	2525	23. <del></del> 2 (23.5-2-20.0) 23.	) OPA	325						
1. Building elevations ar		ON C - BUILDING ELE			ing Under C			Finished Cons	struction	
Elevations - Zones A     mplete Items C2.a -h b     new Elevation Certifica     enchmark Utilized: priva	elow accordi ate will be red	ing to the building diagra	am sp	ecified in Ite e building is	m A7. In P	uerto Ri	R/AE, AR/A1	- A30, AR/AH,		
dicate elevation datum u		elevations in items a) the	rough							
	Other/S		g							
itum used for building el	evations mu	st be the same as that u	used fo	or the BFE.				Check the me	asurement u	sed.
Top of bottom floor (including basement, crawlspace, or enclosure floor)				e floor)	7.0			( feet	C meters	
Top of the next higher floor					13.4			(e) feet	C meters	
Bottom of the lowest horizontal structural member (V Zones only)					N/A			(e) feet	○ meters	
Attached garage (top of slab)					7.1			• feet	meters	
Lowest elevation of ma (Describe type of equip			ouilding	3	11.1****			( feet	C meters	
Lowest adjacent (finished) grade next to building (LAG)					6.4		-	• feet	C meters	
Highest adjacent (finished) grade next to building (HAG)					7.1			( feet	C meters	
Lowest adjacent grade structural support	at lowest ele	vation of deck or stairs,	includ	ling	6.2			• feet	C meters	
										- 1

## **ELEVATION CERTIFICATE**

2939 Longport Drive

BOROUGH OF LONGPORT

OMB Control Number: 1660-0008 Expiration: 11/30/2018 08403

Check here if attachme

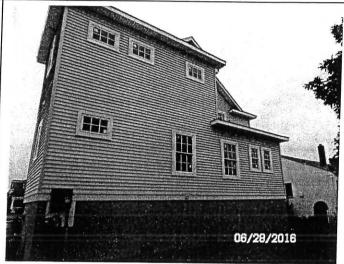
SECTION D	SURVEYOR, ENGIN	IEER, OR ARCHITECT CE	RTIFICATION		
This certification is to be signed and sealed by that the information on this Certificate represen- punishable by fine or imprisonment under 18 U	a land surveyor, engir	neer, or architect authorized	d by law to cortify elevation info		
☑ Check here if attachments.	Were latitude and lo provided by a licens Yes ON				
Certifier's Name Paul M. Koelling, PLS, CFM		cense Number J24GS 04328800			
Title Licensed Land Surveyor	Company Name Paul Koelling&Assoc	CLLC-COA24GA28256300	PLACE SEAL		
Address 2161 Shore Road	City Linwood	State Zip Code NJ 08221	HERE		
Signature	Date 6/30/2016	Telephone +1 (609) 927-0279			
Copy both sides of this Elevation Certificate for (	1) community official,	(2) insurance agent/compa	ny, and (3) building owner.		
A8b.) Smart Vents Model #1540-510 engineere *B8 & B9.) FEMA Pre-FIRM Zone "AE"Base **C2a.) enclosure ***C2e.) exterior air unit elev. 14.7, ductwork el eet) elev. 6.4	Flood Elevation 9 ft.	(NAVD88) converted = 10			
	9				
ignature			Date 6/30/2016		
actions A, B,and C. For Items E1 -E4, use natural.  Provide elevation information for the following highest adjacent grade (HAG) and the lowest at a) Top of bottom floor (including basement, craor enclosure) is  b) Top of bottom floor (including basement, cra	and check the approp djacent grade (LAG). wlspace,	riate hoves to show whether	er the elevation is above or below the		
or enclosure) is		C feet C mete			
For Building Diagrams 6 -9 with permanent floo ner floor (elevation C2.b in the diagrams) of the	d openings provided i building is	n Section A Items 8 and/or	9 (see pages 8 -9 of Instructions), the next neters above or below the HAG.		
Attached garage (top of slab) is		C feet C mete	ers above or below the HAG.		
Top of platform of machinery and /or equipment ricing the building is		Cfeet C mete	Delow the FIAG.		
Zone AO only: If no flood depth number is availated agement ordinance?	able, is the top of the t	oottom floor elevated in acc	cordance with the community's floodplain		
(_, res (_, No (_, on		cial must certify this informa	The state of the s		
Property owner or owner's authorized represent munity-issued BFE) or Zone AO must sign here.	ative who completes	Sections A B and E for Zo	no A faith and a FFIAA i		
perty Owner or Owner's Authorized Representat	ive's Name:	ections A, B, and E are con	rect to the best of my knowledge.		
ress	City	State	ZIP Code		
ature	Date	Telephone			
ments					

## **Building Photographs**

<u></u>	For Insurance Company Use:		
Building Street Address (include 2939 Longport Drive	ling Apt., Unit, Suite, and/or Bldg.) No. o	or P.O. Route and Box No.	Policy Number
City Longport	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)







### ICC-ES Evaluation Report

ESR-2074

Reissued February 1, 2009

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

www.lcc-eg.org | (800) 423-6567 | (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 28 PITMAN, NEW JERSEY 01071 (856) 307-1468 www.amartvent.com evalgementvent.com

#### **EVALUATION SUBJECT:**

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: FLOODVENT™ MODEL #1640-620; FLOODVENTIN STACKING MODEL #1640-521; SMARTVENT MODEL #1640-810; SMARTVENT" STACKING MODEL #1640-811; WOOD WALL FLOOD MODEL \$1640-670; WOOD WALL FLOOD OVERHEAD DOOR MODEL #1540-574; FLOODVENT" OVERHEAD DOOR MODEL #1840-834; SMARTVENT™ OVERHEAD DOOR MODEL #1640-614

#### 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 equatize 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 75 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 2.8.2.2 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 Bizes:

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 mm<sup>2</sup>) 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 wells 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 wells up to 12 inches (305 mm) thick. In order to