U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

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

SEP 28 2016

ELEVATION CERTIFICATEImportant: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate	e and all attachments for	(1) community official	, (2) insurance agent/	ompany, a	and (3) building owner.	
SECTION A	A - PROPERTY INFORM	MATION	FOR	INSURA	NCE COMPANT USE	
A1. Building Owner's Name			Polic	y Number	:	
Piraino Builders	Ant Unit Suito and/or	Bida No Lor P.O. R	oute and	ναρν ΝΔΙ	C Number:	
A2. Building Street Address (including Box No.	Apt., Offit, Suite, and/or	Blag. No., of 1 for the	Con	ipany NAN	o (Marridor)	
501 N. Clermont Ave.		State	ZIP	Code		
City CITY OF MARGATE		New Jersey	084			
A3. Property Description (Lot and Blo Block 804.01 Lot 1	ock Numbers, Tax Parcel	Number, Legal Desc	cription, etc.)			
A4. Building Use (e.g., Residential, N	Ion-Residential, Addition	, Accessory, etc.)	RESIDENTIAL			
A5. Latitude/Longitude: Lat. N 39.33			Horizontal Datum:] NAD 192	27 ⊠ NAD 1983	
A6. Attach at least 2 photographs of	the building if the Certific	cate is being used to	obtain flood insurance	•		
	8					
A8. For a building with a crawlspace	or enclosure(s):				,	
a) Square footage of crawlspace		1,542 sq ft			*	
b) Number of permanent flood o	penings in the crawlspac	ce or enclosure(s) wit	hin 1.0 foot above adj	acent grac	le8	
c) Total net area of flood opening		sq in			•	
d) Engineered flood openings?						
A9. For a building with an attached g		sq ft				
a) Square footage of attached g	arage	3.5	t above adjacent grad	le	3	
b) Number of permanent flood of			t above adjacom grac		30	
c) Total net area of flood opening	ngs in A9.b600	sq in				
d) Engineered flood openings?				*1		
SECTION	ON B - FLOOD INSUR	ANCE RATE MAP	FIRM) INFORMATION	ON		
B1. NFIP Community Name & Comm		B2. County Name			B3. State	
CITY OF MARGATE & 345304		ATLANTIC COUN	TY		New Jersey	
B4. Map/Panel B5. Suffix B6	6. FIRM Index B7.	FIRM Panel	B8. Flood Zone(s)	B9. Bas	e Flood Elevation(s) ne AO, use Base	
Number Set Set Map 1	Date	Effective/ Revised Date		Floo	d Depth)	
345304/0001 C 10	0/18/1983 10/1	18/1983	A8**	10**		
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:						
FIS PIONE A PIKW COMMINING BOOM						
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source: NOVD 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

OMB No. 1660-0008

	November	

IMPORTANT: In these spaces, copy the corresp	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, 501 N. Clermont Ave.	and/or Bldg. No.) or P.O. Route	and Box No.	Policy Number:	
City	State ZIP Co	ode	Company NAIC Number	
HTY OF MARGATE New Jersey 08402				
	NG ELEVATION INFORMATION			
C1. Building elevations are based on: Cor *A new Elevation Certificate will be required	nstruction Drawings*		ıction* ⊠ Finished Construction	
	DEEN VE VA VOO V (with BEE	AR AR/A AR/	/AE. AR/A1-A30, AR/AH, AR/AO.	
C2. Elevations – Zones A1–A30, AE, AH, A (With Complete Items C2.a–h below according to Benchmark Utilized: private	the building diagram specified in Vertical Datum: N	Remiral min serv	o Rico only, enter meters.	
Indicate elevation datum used for the elevati	ons in items a) through h) below.			
□ NGVD 1929 □ NAVD 1988 □	Other/Source:			
Datum used for building elevations must be	the same as that used for the BF	E.	Check the measurement used.	
a) Top of bottom floor (including basement,	crawlspace, or enclosure floor)	<u>8</u> . <u>7</u>	X feet meters	
b) Top of the next higher floor		12, 3	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)		<u> </u>	x feet meters	
e) Lowest elevation of machinery or equipm (Describe type of equipment and location)	nent servicing the building n in Comments)	10.0	X feet meters	
f) Lowest adjacent (finished) grade next to		8. <u>4</u>	x feet meters	
g) Highest adjacent (finished) grade next to		9.0	x feet meters	
h) Lowest adjacent grade at lowest elevation		<u> </u>	x feet meters	
structural support	VEYOR, ENGINEER, OR ARC	HITECT CERTIF	FICATION	
This certification is to be signed and sealed by a I certify that the information on this Certificate re statement may be punishable by fine or imprisor	land surveyor, engineer, or arch	itect authorized b	y law to certify elevation information.	
Were latitude and longitude in Section A provide	ed by a licensed land surveyor?	⊠Yes □ No	○ Check here if attachments.	
Certifier's Name Paul M. Koelling, PLS, CFM	License Number NJ24GS 04328800			
Title				
Licensed Land Surveyor			Place	
Company Name Paul Koelling & Associates, LLC NJ C.O.A. No	Seal —— Here			
Address 2161 Shore Road				
City Linwood	State New Jersey	ZIP Code 08221		
Signature	Date 09/28/2016	Telephone (609) 927-0279		
Copy all pages of this Elevation Certificate and all	attachments for (1) community of	ficial, (2) insuranc	e agent/company, and (3) building owner	
Comments (including type of equipment and location *A8b.) Smart Vents Model #1540-510 engineers **B8 & B9.) FEMA Pre-FIRM Zone "AE"Base ****C2a.) crawlspace enclosure ****C2e.) exterior air unit elev. 12.5, ductwork e	cation, per C2(e), if applicable) ed for 200 square inches of net a e Flood Elevation 8 ft. (NAVD88)	rea each converted = 9.3 t		

EVATION CERTI	FICATE				The second secon	November 30, 2018
	aces conv the corresponding	information	from Section A			ICE COMPANY USE
ilding Street Address (in	icluding Apt., Unit, Suite, and/or	Bldg. No.) or	P.O. Route and	Box No.	Policy Number	W W
1 N. Clermont Ave.					- NAIG	Nimbor
ty	Sta	te	ZIP Code		Company NAIC	Number
TY OF MARGATE		w Jersey	08402			
SI	ECTION E – BUILDING ELEV	ATION INFO	RMATION (SU IE A (WITHOU	RVEY NO	OT REQUIRED)	
omplete Sections A, B,ar oter meters.	out BFE), complete Items E1–End C. For Items E1–E4, use nation for the following and character (HAG) and the lowest adj	neck the appro	priate boxes to			
 a) Top of bottom floo crawlspace, or er 	or (including basement, aclosure) is		-	eet 🗌 m	eters 🗌 above o	r 🗌 below the HAG.
b) Top of bottom floo	or (including basement, nclosure) is			eet 🗌 m	Service of the servic	below the LAG.
For Building Diagram	ns 6–9 with permanent flood ope	enings provide	d in Section A I	ems 8 an	d/or 9 (see pages 1	–2 of Instructions),
the next higher floor the diagrams) of the	(elevation G2.b iii				eters 🗌 above o	or below the HAG.
Attached garage (top			[]f	eet 🗌 m	neters 🗌 above o	or below the HAG.
	achinery and/or equipment		[f	eet 🗌 m	neters	or below the HAG
5 Zone AO only: If no	flood depth number is available	, is the top of t	he bottom floor	elevated i	n accordance with	the community's
floodplain managem	ent ordinance? Yes	No 🗌 Unkr	nown. The loca	l official m	nust certify this infor	mation in Section G.
	ECTION F - PROPERTY OWN	FR (OR OWN	ER'S REPRESI	NTATIVE) CERTIFICATION	
community-issued BFE)	wner's authorized representative or Zone AO must sign here. The or's Authorized Representative's	e statemente i	M Sections A, D.	and E an		
Address			City		State	ZIP Code
	$ \frac{1}{2}$		Date /		Telephone	
Signature			5/15/16			
Comments		1	*			
,						
						eck here if attachmen

ELEVATION CERTIFICATE

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

PORTANT: In these spaces, copy the corres	FOR INSURANCE COMPANY USE		
MPORTANT: In these spaces, copy the correst suilding Street Address (including Apt., Unit, Suit	Policy Number:		
building Street Address (including Apt., Onit, Out.) 01 N. Clermont Ave.	-,		
	State	ZIP Code	Company NAIC Number
ity ITY OF MARGATE	New Jersey	08402	
		ORMATION (OPTIONAL)	
he local official who is authorized by law or ordi ections A, B, C (or E), and G of this Elevation C sed in Items G8–G10. In Puerto Rico only, ente	r meters.	that has been signed	and sealed by a licensed surveyor.
The information in Section C was taken engineer, or architect who is authorized data in the Comments area below.) A community official completed Section	d by law to certify elevat	ion imormation. (maioate	
or Zone AO.			
3. The following information (Items G4–G	610) is provided for com		
G4. Permit Number	G5. Date Permit Issued	G6.	Date Certificate of Compliance/Occupancy Issued
67. This permit has been issued for:	New Construction S	Substantial Improvement	ÿ
 Elevation of as-built lowest floor (including of the building: 	basement)	fe	eet meters Datum
G9. BFE or (in Zone AO) depth of flooding at the	ne building site:		eet meters Datum
G10. Community's design flood elevation:			eet meters Datum
Local Official's Name		Title	
Community Name	NGATE	Telephone	27-1875
Signature	(in the Care) if applied	6/22/	18
Comments (including type of equipment and loc	cation, per C2(e), il appli	(Cable)	
			Check here if attachmer

Building Photographs

	For Insurance Company Use: Policy Number		
Building Street Address (include 501 N. Clermont Ave.			
City	State	ZIP Code	Company NAIC Number
Margate	NJ	08402	

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)

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

Building Photographs

	For Insurance Company Use: Policy Number		
Building Street Address (inc. 501 N. Clermont Av			
City State ZIP Code			Company NAIC Number
Margate	NJ	08402	

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)

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



ICC-ES Evaluation Report

ESR-2074

Released February 1, 2009

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

www.lco-es.org | (800) 423-8587 | (562) 699-0543

A Subsidiery of the International Code Council®

DIVISION: 10—SPECIALTIES
Section: 10230—Vents

REPORT HOLDER:

SMART VENT[®], INC.
460 ANDBRO DRIVE, SUITE 2B
PITMAN, NEW JERSEY 08071
(666) 307-1468
www.smartvent.com
eval@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS:
FLOODVENT™ MODEL #1640-620; FLOODVENT™
STACKING MODEL #1640-621; SMARTVENT™ MODEL
#1640-610; SMARTVENT™ STACKING MODEL #1640-611;
WOOD WALL FLOOD MODEL #1640-670; WOOD WALL
FLOOD OVERHEAD DOOR MODEL #1640-674;
FLOODVENT™ OVERHEAD DOOR MODEL #1640-634;
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 equalize hydrostatic pressure on nonfire-resistance-rated foundation wells, rolling-type overhead doors and building wells 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 Smart/ENT™ Stacking Model #1540-511 and Flood/ENT™ 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 5³/₄ inches high (355.6 by 2222.25 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 Smart/ENT® Model #1540-510 and Smart/ENT® 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 Smart/ENT™ 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 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 strape allow mounting in wood, mazonry and concrete wells up to 12 inches (305 mm) thick. In order to

