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## **ELEVATION CERTIFICATE**

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

| SECTION A – PROPERTY INFORMATION  | FOR INSURANCE COMPANY USE   |
|---|---|
| A1. Building Owner's Name Wirthwhile Properties LLC   | Policy Number:  |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 106 Melrose Avenue  | Company NAIC Number:  |
| City Neptune State NJ ZIP Code 07753  |   |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)<br>Lot 17 Block 470  |   |
| <ul> <li>A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u></li> <li>A5. Latitude/Longitude: Lat. <u>40.1918</u> Long. <u>-74.0401</u> Horizontal Datum: □ NAD 1927 ⊠ NAD 1983</li> <li>A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.</li> <li>A7. Building Diagram Number <u>6</u></li> <li>A8. For a building with a crawlspace or enclosure(s): A9. For a building with an atta a) Square footage of crawlspace or enclosure(s) <u>439</u> sq ft a) Square footage of att b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>3</u> within 1.0 foot above adjacent grade <u>3</u> c) Total net area of flood openings? ⊠ Yes □ No</li> </ul>  | ached garage:<br>ached garage <u>467</u> sq ft<br>t flood openings in the attached garage<br>adjacent grade <u>3</u><br>I openings in A9.b <u>600</u> sq in<br>nings? X Yes I No  |
| SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATIO  | )N /  |
| B1. NFIP Community Name & Community Number     B2. County Name       Township of Neptune/340317     Monmouth  | B3. State<br>NJ   |
| B4. Map/Panel Number<br>34025C0334/0333         B5. Suffix<br>F         B6. FIRM Index Date<br>09/25/2009         B7. FIRM Panel<br>Effective/Revised Date<br>09/25/2009         B8. Flood<br>Zone(s)<br>AE   | B9. Base Flood Elevation(s) (Zone<br>AO, use base flood depth)<br>9   |
| 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)?       □       CBRS       □       OPA  | Yes 🖾 No  |
| SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQU   | RED)  |
| <ul> <li>C1. Building elevations are based on: Construction Drawings* Building Under Construction*         *A new Elevation Certificate will be required when construction of the building is complete.     </li> <li>C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AF, below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.         Benchmark Utilized: <u>GPS</u>         Vertical Datum: <u>NAVD 88</u> </li> <li>Indicate elevation datum used for the elevations in items a) through h) below. DIAVD 1929 XIAVD 1988 C     </li> </ul>  | Finished Construction /AH, AR/AO. Complete Items C2.a-h Other/Source:   |
| Chec  | k the measurement used.   |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor)       6.3         b) Top of the next higher floor       15.4         c) Bottom of the lowest horizontal structural member (V Zones only)       N/A  | ☑ feet       □ meters         ☑ feet       □ meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 6.0  | ⊠ feet ⊔ meters   |
| SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATI  | ON  |
| This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify eleval 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.         Image: State of 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.         Image: Check here if comments are provided on back of form.       Were latitude and longitude in Section A provided by licensed land surveyor?         Image: Check here if attachments.       Iicensed land surveyor?         Image: Certifier's Name Robert H. Morris       License Number 30090         Ittle Land Surveyor       Company Name R H Morris Land Surveying         Address 1123 Morris Avenue       City Point Pleasant       State NJ       ZIP Code 08742         Signature       Date 9/04/15       Telephone       732-899-4387 | a   |

| MPORTANT' In these spaces con   | v the corresponding information from Section A  | FOR INSURANCE COMPANY USE   |
|---|---|---|
| Building Street Address (including Ant  | Init Suite and/or Bldg, No.) or P.O. Route and Box No.  | Policy Number   |
| 06 Melrose Avenue   |   |   |
| ity Neptune   | State NJ ZIP Code 07753   | Company NAIC Number:  |
| SECTION D   | - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFIC   | ATION (CONTINUED)   |
| opy both sides of this Elevation Certification  | ate for (1) community official, (2) insurance agent/company, and (3   | 3) building owner.  |
| comments C2.e) = Furnace. Flood vent<br>he Preliminary Flood Zone is AE. The P  | s are SmartVent Model Nos. 1540-570 & 1540-510.<br>reliminary Base Flood Elevation is 10'. per Preliminary FIRM 3402  | 25C0333G released 1/31/14.  |
| Antit KE  | $ \rightarrow $   | ,<br>,  |
| ignature  | Date 9/04/15  |   |
| SECTION E - BUILDING ELEVA  | TION INFORMATION (SURVEY NOT REQUIRED) FOR  | ZONE AO AND ZONE A (WITHOUT BFE)  |
| <ul> <li>or Zones AO and A (without BFE), com<br/>nd C. For Items E1-E4, use natural gra</li> <li>Provide elevation information for th<br/>grade (HAG) and the lowest adjace<br/>a) Top of bottom floor (including ba<br/>b) Top of bottom floor (including ba</li> <li>For Building Diagrams 6–9 with per<br/>(elevation C2.b in the diagrams) of</li> </ul>   | plete Items E1–E5. If the Certificate is intended to support a LOM de, if available. Check the measurement used. In Puerto Rico onle following and check the appropriate boxes to show whether the ent grade (LAG).<br>Isement, crawlspace, or enclosure) is feet [<br>Isement, crawlspace, or enclosure] is feet [<br>Isement, crawlspace, or enclosur | A or LOMR-F request, complete Sections A, B,<br>y, enter meters.<br>elevation is above or below the highest adjacent<br>meters above or below the HAG.<br>meters above or below the LAG.<br>e pages 8–9 of Instructions), the next higher floc<br>below the HAG.  |
| <ol> <li>Attached garage (top of slab) is</li> <li>Top of platform of machinery and/o</li> <li>Zone AO only: If no flood depth nu ordinance? </li> <li>Yes </li> <li>No </li> </ol>   | det det meters det above or determined below the lor equipment servicing the building is det det metermined for elevated in accord unknown. The local official must certify this information in Section   | HAG.<br>neters  above or below the HAG. ance with the community's floodplain manageme G.  |
| SECTION E   |   | n dat en se <mark>n en statue</mark> n en en en stat 1971 en sen en e  |
| he property owner or owner's authorized   | - PROPERTY OWNER (OR OWNER'S REPRESENTATI<br>representative who completes Sections A, B, and E for Zone A (   | VE) CERTIFICATION<br>without a FEMA-issued or community-issued BFI  |
| the property owner or owner's authorized<br>r Zone AO must sign here. The stateme<br>roperty Owner's or Owner's Authorized  | - PROPERTY OWNER (OR OWNER'S REPRESENTATI<br>d representative who completes Sections A, B, and E for Zone A (<br>nts in Sections A, B, and E are correct to the best of my knowledg<br>Representative's Name  | VE) CERTIFICATION<br>without a FEMA-issued or community-issued BFI<br>le.   |
| The property owner or owner's authorized<br>Zone AO must sign here. The stateme<br>roperty Owner's or Owner's Authorized<br>ddress  | - PROPERTY OWNER (OR OWNER'S REPRESENTATI<br>d representative who completes Sections A, B, and E for Zone A (<br>nts in Sections A, B, and E are correct to the best of my knowledg<br>Representative's Name<br>City  | VE) CERTIFICATION without a FEMA-issued or community-issued BF le. State ZIP Code   |
| The property owner or owner's authorized<br>Zone AO must sign here. The stateme<br>roperty Owner's or Owner's Authorized<br>ddress  | - PROPERTY OWNER (OR OWNER'S REPRESENTATI<br>d representative who completes Sections A, B, and E for Zone A (<br>nts in Sections A, B, and E are correct to the best of my knowledg<br>Representative's Name<br>City<br>Date  | VE) CERTIFICATION without a FEMA-issued or community-issued BF le. State ZIP Code Telephone   |
| The property owner or owner's authorized<br>Zone AO must sign here. The stateme<br>roperty Owner's or Owner's Authorized<br>ddress<br>ignature<br>omments   | PROPERTY OWNER (OR OWNER'S REPRESENTATIOn<br>d representative who completes Sections A, B, and E for Zone A (<br>nts in Sections A, B, and E are correct to the best of my knowledg<br>Representative's Name<br>City<br>Date  | VE) CERTIFICATION without a FEMA-issued or community-issued BF le. State ZIP Code Telephone   |
| the property owner or owner's authorized<br><sup>•</sup> Zone AO must sign here. The stateme<br>roperty Owner's or Owner's Authorized<br>ddress<br>ignature<br>omments  | - PROPERTY OWNER (OR OWNER'S REPRESENTATI<br>d representative who completes Sections A, B, and E for Zone A (<br>nts in Sections A, B, and E are correct to the best of my knowledg<br>Representative's Name<br>City<br>Date  | VE) CERTIFICATION without a FEMA-issued or community-issued BF le. State ZIP Code Telephone Check here if attachm   |
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| to a property owner or owner's authorized<br>Zone AO must sign here. The stateme<br>roperty Owner's or Owner's Authorized<br>ddress<br>ignature<br>omments  | PROPERTY OWNER (OR OWNER'S REPRESENTATIOn<br>d representative who completes Sections A, B, and E for Zone A (<br>nts in Sections A, B, and E are correct to the best of my knowledg<br>Representative's Name<br>City<br>Date  SECTION G – COMMUNITY INFORMATION (OPTIO<br>ordinance to administer the community's floodplain management of<br>oplicable item(s) and sign below. Check the measurement used in It<br>s taken from other documentation that has been signed and seale   | VE) CERTIFICATION without a FEMA-issued or community-issued BF le.  State ZIP Code Telephone  C Check here if attachm NAL) rdinance can complete Sections A, B, C (or E), an ems G8–G10. In Puerto Rico only, enter meters. d by a licensed surveyor, engineer, or architect v  |
| A community official completed S  | PROPERTY OWNER (OR OWNER'S REPRESENTATION<br>d representative who completes Sections A, B, and E for Zone A (<br>nts in Sections A, B, and E are correct to the best of my knowledg<br>Representative's Name<br>City<br>Date<br>SECTION G – COMMUNITY INFORMATION (OPTION<br>rordinance to administer the community's floodplain management of<br>oplicable item(s) and sign below. Check the measurement used in It<br>s taken from other documentation that has been signed and seale<br>evation information. (Indicate the source and date of the elevation<br>Section E for a building located in Zone A (without a EEMA issued)  | VE) CERTIFICATION without a FEMA-issued or community-issued BF le.  State ZIP Code Telephone  C Check here if attachm NAL) rdinance can complete Sections A, B, C (or E), an ems G8–G10. In Puerto Rico only, enter meters. d by a licensed surveyor, engineer, or architect v data in the Comments area below.) or community-issued BFE or Zone AO   |
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| A community official completed S<br>The following information (Items<br>A community official completed S<br>Community's design flood elevation:<br>Community's design flood elevation:<br>Decal Official's Name<br>Community Name   | PROPERTY OWNER (OR OWNER'S REPRESENTATION     drepresentative who completes Sections A, B, and E for Zone A (     nts in Sections A, B, and E are correct to the best of my knowledg     Representative's Name         City         Date         SECTION G – COMMUNITY INFORMATION (OPTIO         ordinance to administer the community's floodplain management o         oplicable item(s) and sign below. Check the measurement used in It         s taken from other documentation that has been signed and seale         evation information. (Indicate the source and date of the elevation         Section E for a building located in Zone A (without a FEMA-issued         G4–G10) is provided for community floodplain management purp     G5. Date Permit Issued         G6. Date Certifi         I New Construction         Substantial Improvement         uding basement) of the building:         feet         feet         feet         feet         feet         feet         feet         Title         Title         Telephone  | VE) CERTIFICATION without a FEMA-issued or community-issued BF le.  State ZIP Code Telephone  Telephone  MAL) rdinance can complete Sections A, B, C (or E), an ems G8–G10. In Puerto Rico only, enter meters. d by a licensed surveyor, engineer, or architect v data in the Comments area below.) or community-issued BFE) or Zone AO. oses. cate Of Compliance/Occupancy Issued  meters Datum meters Datum meters Datum            |
| BECTION      SECTION  | PROPERTY OWNER (OR OWNER'S REPRESENTATION     drepresentative who completes Sections A, B, and E for Zone A (     nts in Sections A, B, and E are correct to the best of my knowledg     Representative's Name         City         Date         SECTION G – COMMUNITY INFORMATION (OPTIO         ordinance to administer the community's floodplain management of         opplicable item(s) and sign below. Check the measurement used in It         s taken from other documentation that has been signed and seale         evation information. (Indicate the source and date of the elevation         Section E for a building located in Zone A (without a FEMA-issued         G4–G10) is provided for community floodplain management purp     G5. Date Permit Issued         G6. Date Certifi         new Construction         Substantial Improvement         uding basement) of the building:         feet         g at the building site:         feet         Title         Telephone         Date  | VE) CERTIFICATION without a FEMA-issued or community-issued BF le.  State ZIP Code Telephone  Code Complete Sections A, B, C (or E), an ems G8–G10. In Puerto Rico only, enter meters. d by a licensed surveyor, engineer, or architect v data in the Comments area below.) or community-issued BFE) or Zone AO. oses. cate Of Compliance/Occupancy Issued  meters Datum meters Datum meters Datum                                    |
| SECTION F         The property owner or owner's authorized         r Zone AO must sign here. The stateme         Property Owner's or Owner's Authorized         address         Signature         Comments  | PROPERTY OWNER (OR OWNER'S REPRESENTATION     drepresentative who completes Sections A, B, and E for Zone A (     nts in Sections A, B, and E are correct to the best of my knowledg     Representative's Name     City     Date     SECTION G - COMMUNITY INFORMATION (OPTIO     ordinance to administer the community's floodplain management o     oplicable item(s) and sign below. Check the measurement used in It     s taken from other documentation that has been signed and seale     vation information. (Indicate the source and date of the elevation     Section E for a building located in Zone A (without a FEMA-issued     G4–G10) is provided for community floodplain management purp     G5. Date Permit Issued   | VE) CERTIFICATION without a FEMA-issued or community-issued BF le.  State ZIP Code Telephone  Check here if attachm NAL) rdinance can complete Sections A, B, C (or E), an ems G8–G10. In Puerto Rico only, enter meters. d by a licensed surveyor, engineer, or architect v data in the Comments area below.) or community-issued BFE) or Zone AO. oses. cate Of Compliance/Occupancy Issued  meters Datum meters Datum meters Datum |

# Building Photographs See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the corresponding inf  | ormation fro    | m Section A.   | FOR INSURANCE COMPANY USE |
|---|-----------------|----------------|---------------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) of 106 Melrose Avenue | or P.O. Route a | nd Box No.     | Policy Number:            |
| City Neptune  | State NJ        | ZIP Code 07753 | Company NAIC Number:      |

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.





Most Widely Accepted and Trusted

# **ICC-ES** Report

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

## ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

## DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENT5/FOUNDATION FLOOD VENTS

**REPORT HOLDER:** 

## **SMARTVENT PRODUCTS, INC.**

430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071

## **EVALUATION SUBJECT:**

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"

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## **ICC-ES Evaluation Report**

Most Widely Accepted and Trusted

ESR-2074\*

Reissued February 2015

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

A Subsidiary of the International Code Council®

This report is subject to renewal February 2017.

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<sup>®</sup> AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

### **1.0 EVALUATION SCOPE**

Compliance with the following codes:

- 2012, 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^{\rm T} \rm The ~ADIBC$  is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

### Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent<sup>®</sup> units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

### 3.0 DESCRIPTION

### 3.1 General:

When subjected to rising water, the Smart Vent<sup>®</sup> FVs internal floats are activated, 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 FV 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 door to rotate out of the way and allow flow.

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent<sup>®</sup> Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT<sup>®</sup>Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

### 3.2 Engineered Opening:

The FVs 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 FVs must be installed in accordance with Section 4.0.

### 3.3 Ventilation:

The SmartVENT<sup>®</sup> Model #1540-510 and SmartVENT<sup>®</sup> 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 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>®</sup> 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 FVs recognized in this report do not offer natural ventilation.

### 4.0 DESIGN AND INSTALLATION

SmartVENT<sup>®</sup> and FloodVENT<sup>®</sup> 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 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<sup>®</sup> FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m<sup>2</sup>) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final

\*Revised July 2015

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### ESR-2074 | Most Widely Accepted and Trusted

grade or floor and finished exterior grade immediately under each opening.

### 5.0 CONDITIONS OF USE

The Smart Vent<sup>®</sup> FVs 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<sup>®</sup> FVs 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<sup>®</sup> FVs 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 Mechanically Operated Flood Vents (AC364), dated October 2013 (editorially revised May 2014).

### 7.0 IDENTIFICATION

The Smart VENT<sup>®</sup> 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).

#### MODEL NAME MODEL NUMBER MODEL SIZE (in.) COVERAGE (sq. ft.) 15<sup>3</sup>/4" X 7<sup>3</sup>/4" FloodVENT<sup>®</sup> 1540-520 200 SmartVENT<sup>®</sup> 1540-510 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 200 FloodVENT<sup>®</sup> Overhead Door 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 1540-524 200 SmartVENT<sup>®</sup> Overhead Door 1540-514 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 200 Wood Wall FloodVENT<sup>®</sup> 14" X 8<sup>3</sup>/4" 200 1540-570 Wood Wall FloodVENT® Overhead Door 14" X 8<sup>3</sup>/4" 1540-574 200 SmartVENT® Stacker 400 1540-511 16" X 16" 16" X 16" 400 FloodVent® Stacker 1540-521

#### TABLE 1-MODEL SIZES

For SI:  $1 \ln ch = 25.4 \text{ mm}$ ;  $1 \text{ square foot} = \text{m}^2$ 

## **ELEVATION CERTIFICATE**

**IMPORTANT:** Follow the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

|  | <u></u>   | <u> </u>   | SECT  | ION A -  | PROPERTY I  | FORMAT   | 10N   | FC  | R INSURANC   | E COMPANY LISE  |
|--|---|--|---|--|---|--|---|---|--|---|
| A1.  | Building Owner's Nar  | <sup>me</sup> Lambert, .   | John H JR. & N  | lewland,   | Lee Ann   |  |   | Po  | licy Number:   |   |
| A2.  | Building Street Addre<br>108 Hillcrest  | ess (including Ap<br>Avenue  | t., Unit, Suite, and,   | /or Bldg. N  | o.) or P.O. Route   | e and Box N  | 0.  | Co  | mpany NAIC N   | umber:  |
|  | City Township of  | Neptune  |   |  | Stat  | <sup>e</sup> NJ  |   | ZIP   | <sup>Code</sup> 0775   | 3   |
| АЗ.  | Property Description<br>Tax Lots 11, 12, 1  | (Lot and Block N<br>13 & 14; Block   | lumbers, Tax Parce<br>471   | I Number, I  | Legal Description   | on, etc.)  |   |   |  | ·   |
| A4.<br>A5.<br>A6.<br>A7.<br>A8.<br>B1.<br>B1.<br>B1.<br>B1.0<br>B1.1 | Building Use (e.g., Re<br>Latitude/Longitude: I<br>Attach at least 2 pho<br>Building Diagram Nur<br>For a building with a<br>a) Square footage o<br>b) No. of permanent<br>enclosure(s) withi<br>c) Total net area of f<br>d) Engineered flood<br>NEIP Community Nam<br>Neptune, Townshi<br>Map/Panel Number<br>34025C0333<br>.Indicate the source o<br>☐ FIS Profile 	 FI                                  | esidential, Non-R<br>Lat. <u>40°11'33.2</u><br>otographs of the<br>mber <u>8</u><br>crawlspace or er<br>f crawlspace or er<br>flood openings<br>in 1.0 foot above<br>flood openings in<br>openings? X<br>SEC<br>e & Community I<br>p of 340317<br>B5. Suffix<br>F<br>f the Base Flood<br>RM Comm<br>tum used for BFE | tesidential, Addition "N building if the Cert closure(s): enclosure(s) in the crawlspace of adjacent grade a8.b 3 Yes □ No TION B - FLOOI Number B6. FIRM index I 09/25/200 Elevation (BFE) da bunity Determined. In Item B9: []  | n, Accesso<br>Long<br>ificate is be<br>or9<br>D INSUR/<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6<br>Date6 | ry, etc.) <u>Resid</u><br><u>N 74°02'25.4"</u><br>eing used to ob<br><u>63</u> sq ft<br><u>9</u><br><u>250</u> sq in<br><u>ANCE RATE I</u><br><u>12</u> . County Nam<br><u>Monmouth co</u><br><u>17</u> . FIRM Panel<br>Revised Dat<br><u>09/25/2</u><br>flood depth en<br>r/Source:<br><u>29</u> XNA | A9. For a<br>a) So<br>b) Nu<br>c) To<br>d) En<br>MAP (FIRI<br>e<br>unty<br>Effective/<br>e<br>2009<br>tered in Iter  | Horizont<br>Isurance.<br>building with an<br>quare footage of<br>umber of permar<br>thin 1.0 foot abc<br>tal net area of fl<br>gineered flood of<br><b>M) INFORMAT</b><br>B8. Flood Zone<br>B8. Flood Zone<br>AE<br>n B9: | al Dat<br>attach<br>attach<br>nent fil<br>bod op<br>ppenin<br>(ION<br>e(s)          | um: NAD<br>hed garage:<br>hed garage<br>bood openings<br>jacent grade<br>benings in AS<br>gs? Ye<br>B9. Base FI<br>A0, use<br>9.0                                  | n/a sq ft<br>in the attached garage<br>b.b sq in<br>s □ No<br>S State<br>New Jersey<br>ood Elevation(s) (Zone<br>base flood depth)<br>Y NAVD 1988 |
| B1.1   | Indicate elevation dat  | tum used for BFE<br>d in a Coastal Ba  | IN ITEM B9: L   | _INGVD 19  | 929 🔀 IVA<br>29 area or Oth   | /U 1988<br>Arwise Prote  |   | ce:<br>>  |  |   |
| 512  | Designation Date:   |  |   | s П  | OPA   |  |   | • ∟   |  |   |
|  |   |  |   |  |   |  |   |   |  |   |
| C1.<br>C2.   | Building elevations an<br>*A new Elevation Cert<br>Elevations – Zones A1<br>C2.a–h below accordi<br>Benchmark Utilized:<br>Indicate elevation dat<br>Datum used for buildi<br>a) Top of bottom floor<br>b) Top of the next hig<br>c) Bottom of the lowe<br>d) Attached garage (tr<br>e) Lowest elevation o<br>(Describe type of e<br>f) Lowest adjacent (fi<br>g) Highest adjacent gr<br>structural support | e based on:<br>tificate will be re<br>L-A30, AE, AH, A<br>ng to the buildin,<br><u>NJNT CORS</u><br>um used for the<br>ng elevations mu-<br>r (including based<br>ther floor<br>est horizontal stri-<br>op of slab)<br>f machinery or en-<br>quipment and lo<br>nished) grade ne-<br>tinished) grade ne-             | Construction<br>quired when constr<br>(with BFE), VE, VI:<br>g diagram specifie<br>elevations in items<br>ust be the same as<br>ment, crawlspace,<br>uctural member (V<br>quipment servicing<br>cation in Commen-<br>ext to building (LAG<br>ext to building (HAG<br>evation of deck or | Drawings*<br>ruction of t<br>V30, V (w<br>d in Item A<br>s a) throug<br>s that used<br>or enclosur<br>Zones only<br>( the buildir<br>ts)<br>()<br>G)<br>stairs, incli  | Buildi     Buildi     be building is c     ith BFE), AR, AF     T. In Puerto Ric     Vertical I     h) below.      for the BFE.     re floor)      ng      uding  | ng Under Co<br>omplete.<br>/A, AR/AE,<br>o only, ente<br>Datum: <u>NA</u><br>NGVD 1929<br><u>7 . 1</u><br><u>13 . 6</u><br><u>n . /a</u><br><u>n . /a</u><br><u>12 . 9</u><br><u>6 . 2</u><br><u>7 . 2</u><br><u>6 . 1</u> | AR/A1-A30, AR,<br>r meters.<br>VD 1988<br>Check the<br>Check the<br>Check the<br>Green fee<br>fee<br>fee<br>fee<br>fee<br>fee<br>fee<br>fee<br>fee<br>fee   | ⊠  <br>/АҢ, АА, А<br>3 □  <br>meass<br>et  <br>et  <br>et  <br>et  <br>et [<br>et [ | R/AO. Comp<br>Other/Source<br>urement user<br>meters<br>meters<br>meters<br>meters<br>meters<br>meters<br>meters<br>meters<br>meters<br>meters<br>meters<br>meters | struction<br>lete Items<br><br>e:<br>d.   |
|  |   | SECT   | ION D - SURVE   | YOR, ENG   | INEER, OR A   | RCHITEC  | T CERTIFICAT  | TION  |  |   |
| his co<br>form<br>unde<br>Che  | ertification is to be sig<br>ation. <i>I certify that the</i><br>rstand that any false si<br>eck here if comments a<br>ick here if attachment   | ned and sealed i<br>information on t<br>tatement may be<br>are provided on b   | by a land surveyor,<br>his Certificate repro<br>punishable by fine<br>pack of form.   | engineer, o<br>esents my l<br>or impriso<br>Were latitu<br>licensed la   | or architect aut<br>best efforts to in<br>nment under 18<br>de and longitud<br>nd surveyor?   | norized by la<br>aterpret the<br>3 U.S. Code,<br>le in Section<br>X Yes  | w to certify elevent data available.<br>Section 1001.   | ation   |  |   |
| Certifi  | er's Name   |  | <u> </u>  |  |   | License Nu   | mber  |   |  | PLACE   |
| Fran   | k J. Barlowski, NJPL  | _S   |   | 0  |   | 24GS039  | 973500  |   |  | SEAL  |
| ritie<br>Prof.   | Land Surveyor   | · · · · · · · · · · · · · · · · · · ·  |   | Matrix Ne  | ew World Eng  | lineering, l   | nc.   |   |  | HERE  |
| Addre  | ss<br>State Rö <b>iste</b> 35, 2nd  | Flr  |   | City<br>Eatontow   | νń  | State<br>N.J   | Code<br>07724   |   | []   |   |

Signature

Telephone (732) 588-2999

Date 6-(-(5

Replaces all previous editions.

| ELEVATION CERTIFICATE, page 2  |  |   |                                      |  |  | AT5                     |
|--|--|---|--------------------------------------|--|--|-------------------------|
| IMPORTANT: In these spaces, copy the co  | responding information from S  | ection A.   |                                      | 6  | OR INSURANC  | E COMPANY USE           |
| Building Street Address (Including Apt., Unit<br>108 Hillcrest Avenue  | Suite, and/or Bldg. No.} or PO   | Route and Box   | No.                                  |  | olicy Number:  |                         |
| City<br>Township of Neptune  | State<br>NJ  | ZIP Code<br>07753   |                                      | C  | Company NAIC Nu                                      | mber:                   |
| SECTION D -  | SURVEYOR, ENGINEER, O  | R ARCHITEC  | T CERTIF                             | CATION (COI                                  | TINUED)  |                         |
| Copy both sides of this Elevation Certificate  | for (1) community official, (2) in   | surance agent,  | company, a                           | nd (3) building o                            | wner.  |                         |
| **NOTE: On Page One, the sq. ft. abs<br>**NOTE: On Page One, the sq. ft. abs<br>sq. ft.: A8b 9 x 250 = A8c=2250 sq. ft. (ba<br>Signature | 3402500336 Map Rev., Preliminary Di<br>oposed AC condenser unit, Elev. 12.9' (k<br>sting conditions as of May 29, 2015. No<br>nown for ASc is actually the maximal tota<br>and on USA Flood Air Vents) | Ale: 1731/2015 prope<br>VAVD88)<br>machinery or equipm<br>of enclosed area th | ent was observed<br>al can be served | d below Elev. 12.9' (<br>by the total number | Flood Elevation = 1<br>NAVD88)<br>of engineered open | ings in                 |
| Fac 1+   | <u> </u>   |   |                                      | . •  |  |                         |
| SECTION E – BUILDING ELEVATION   | ON INFORMATION (SURVE  | Y NOT REQU  | IRED) FOI                            | ZONE AO A                                    | ND ZONE A  | (WITHOUT BFE)           |
| For Zones AO and A (without BFE), complete<br>For Items E1-E4, use natural grade, if availa  | Items E1–E5. If the Certificate<br>ble. Check the measurement us   | is Intended to s<br>sed. In Puerto F  | support a LO<br>Rico only, ent       | VIA or LOMR-F re<br>er meters.               | equest, comple                                       | te Sections A, B,and C. |
| E1. Provide elevation information for the follo<br>grade (HAG) and the lowest adjacent gra   | wing and check the appropriate<br>de (LAG).  | e boxes to show   | whether the                          | elevation is ab                              | ove or below th                                      | ne highest adjacent     |
| a) Top of bottom floor (including baseme   | nt, crawlspace, or enclosure) is   | ·   | f                                    | eet 🗌 meters                                 | 🗌 above or   | below the HAG.          |
| b) Top of bottom floor (including baseme   | nt, crawlspace, or enclosure) is   | ······································  | D f                                  | eet 🛛 meters                                 | 🗌 above or   | below the LAG.          |
| E2. For Building Diagrams 6-9 with permane   | nt flood openings provided in Se   | ection A Items 8  | 3 and/or 9 (                         | see pages 8~9 c                              | of Instructions)                                     | ,                       |
| the next higher floor (elevation C2.b in th  | e diagrams) of the building is   | ·   | [] f                                 | eet 🗌 meters                                 | above or   | below the HAG.          |
| E3. Attached garage (top of slab) is   |  | ·   | f                                    | eet 🗌 meters                                 | 🗌 abo <b>v</b> e or                                  | below the HAG.          |
| E4. Top of platform of machinery and/or equ  | pment servicing the building is  | ······································  | f                                    | eet 🗆 meters                                 | above or   | D below the HAG.        |
| E5. Zone AO only: If no flood depth number is ordinance? Yes No Unknow   | s available, is the top of the bot<br>vn. The local official must certif   | tom floor elevat<br>y this Informatio   | ted in accord                        | ance with the c<br>G.                        | ommunity's floc                                      | odplain management      |

### 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

AddressCityStateZIP CodeSignatureDateTelephone

Comments

Check here if attachments.

### SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

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–G9) is provided for community floodplain management purposes.

| G4. Permit Number   | G5. Date Permit Issued   | (                | 6. Date Cert               | ificate Of Cor              | mpliance/Occupancy Issued |      |
|---|--|------------------|----------------------------|-----------------------------|---------------------------|------|
| <ul> <li>G7. This permit has been issued for:</li> <li>G8. Elevation of as built lowest floor (includ</li> <li>G9. BFE or (in Zone AO) depth of flooding a</li> <li>G10. Community's design flood elevation:</li> </ul> | New Construction Substar<br>ing basement) of the building:<br>t the building site: | itial Improvemer | nt<br>feet<br>feet<br>feet | meters meters meters meters | Datum<br>Datum<br>Datum   | <br> |
| Local Official's Name   |  | Title            |                            |                             |                           |      |
| Community Name  |  | Telephone        |                            |                             |                           |      |
| Signature   |  | Date             |                            |                             |                           |      |
| Comments  |  |                  |                            |                             |                           |      |

### **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the cor                            | esponding information from Section A.             | FOR INSURANCE COMPANY USE |
|---|---|---------------------------|
| Building Street Address (including Apt., Unit, 108 Hillcrest Avenue | Suite, and/or Bldg. No.) or PO. Route and Box No. | Policy Number:            |
| City<br>Township of Neptune   | State ZIP Code<br>NJ 07753                        | Company NAIC Number:      |

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.



Front View of House (Looking Southerly)



Front and East Side View of House (Looking Southerly)

AT5

## BUILDING PHOTOGRAPHS

Continuation Page

| IMPORTANT: In these spaces, copy the con                               | esponding information from Section A.             | FOR INSURANCE COMPANY USE |
|--|---|---------------------------|
| Building Street Address (including Apt., Unit,<br>108 Hillcrest Avenue | Suite, and/or Bldg. No.) or PO. Route and Box No. | Policy Number:            |
| City<br>Township of Neptune  | State ZIP Code<br>NJ 07753                        | Company NAIC Number:      |

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.



Front and West Side View of House (Looking Southerly)



Rear Side View of House (Looking Northeasterly)

AT5

### BUILDING PHOTOGRAPHS

**Continuation Page** 

| IMPORTANT: In these spaces, copy the cor                               | responding information from Section A.             | FOR INSURANCE COMPANY USE |
|--|--|---------------------------|
| Building Street Address (including Apt., Unit,<br>108 Hillcrest Avenue | Suite, and/or Bldg. No.) or P.O. Route and Box No. | Policy Number:            |
| City<br>Township of Neptune  | State ZIP Code<br>NJ 07753                         | Company NAIC Number:      |

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.



**USA Flood Air Vents** 



Top of Timber Platform for proposed AC condenser Unit Elev.= 12.9' (NAVD 1988)

FEMA Form 086-0-33 (7/12)

|           |                 | <u>CERTIFICATI</u> | ON OF COMPLIAN          | <u>CE</u>        |              |
|-----------|-----------------|--------------------|-------------------------|------------------|--------------|
| PROJECT N | AME             | Lambert, John I    | HJR. & Newland, Lee Ann | DATE             | May 29, 2015 |
| ADDRESS _ | 108 Hillcrest A | Venue              |                         | - #**** <u>*</u> | <del></del>  |
|           | Township of 1   | leptune            | STATE                   | NJ               | ZIP 07753    |

Home Land Security - FEMA - NFIP - TECH Bulletin 1-93 requirements for engineered openings in foundation walls for FEMA TB 1-93 openings in foundation walls USA FLOOD/AIR VENT will allow for the automatic equalization of hydrostatic flood forces and pressure during flooding as well for base 100 year flood or 1% chance of flooding in FEMA (F.I.R.M. - Federal Insurance Rate Map) in "A" zone type properties. Additional information to meet FEMA / NFIP requirements for flood venting in foundation walls can be found in TB 1-93. I.C.C. (International Code Council) requires a minimum 3" diameter opening to be maintained during flooding to allow passage of debris through flood vent. Additional copies of Certificate of Compliance should be made available to local code official / architect / engineer / surveyor / insurance broker / real estate agent / property owner to show compliance with FEMA/NFIP/ICC.

It is certified that USA FLOOD/AIR FOUNDATION FLOOD VENTS opening are designed for installation in buildings to meet the FEMA, NFIP, ICC code requirements for the 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 USA FLOOD/AIR VENT, with its single door and frame or double

door and frame, will provide sufficient hydrostatic pressure equalization during a flood. Each or 1 vent will cover 250 square feet of enclosed building area as per FEMA, NFIP or ICC instructions and calculations.

The Flexible Elastomeric flap attached to bottom of the bidirectional door has a 40 to 50 Durometer Shore A reading set for a 10 to 15 pound per square foot release at a temperature of -20°F to 80°F.

Thomas Barresi, Mechanical Engineer, Triangle Rubber, New York

Flood Air Stainless Steel Vent with Perforated Door



Flood Air Stainless Steel Vent with

Home > Standard Flood & Air Vents > Flood Air Stainless Steel Vent with Perforated Door



### http://www.shopusafloodairvents.com/Flood-Air-Stainless-Steel-Vent-with-Perforated-Door p 7.html

walls by allowing for the automatic entry and exit for floodwaters.

• A minimum of two bi-directional vents are required for enclosed flood expc installed on opposite or adjacent walls.

- Meets FEMA, NFIP, ICC & ASCE requirements for engineered openings.
- Water/Air/Mold (WAM) protection.

## **Related Items**



Aluminum Flood Vent with Perforated Door

### \$119.00

Buy



Retrofit Aluminum Powder Coated Vent

### \$96.00

Buy

### Flood Air Stainless Steel Vent with Perforated Door



Flood Only Aluminum Vent

### \$119.00

Buy



Retrofit Stainless Steel Flood Vent

## \$135.10

Buy



Flood Only Stainless Steel Vent

| 6/3/2015  | Flood Air Stainless Steel Vent with Perforated Do  | or  |
|---|--|---|
|   | \$149.00   |   |
|   | Виу  |   |
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|   |  |   |
|   | + MENU   |   |
|   | Thank You!   |   |
|   | Terms and Conditions   |   |
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| with the second state 110  | AGEMENT AGENC  |  | ad the instruction  |  |   | MB No. 1660-0008<br>xpiration Date: July 31, 2015   |
|--|--|--|---|--|---|---|
|  |  |  |   |  | J   |   |
| Ruilding Owner's Non   | - Ellen Megill   | SECT   | ON A-PROPERTY   | INFORMATION  |   | DR INSURANCE COMPANY US<br>Nicy Number  |
|  |  |  |   |  |   | ally included.  |
| Building Street Addres<br>106 Hillcrest Avenue   | ss (including Apt.,  | , Unit, Suite, and/or B  | ldg. No.) or P.O. Route   | and Box No.  |   | ompany NAIC Number:   |
| City Neptune Townsh  | hip  |  | State NJ Z  | CiP Code 07753   |   |   |
| 3. Property Description (<br>Block 471 Lots 15-17  | Lot and Block Nu   | mbers, Tax Parcel N  | umber, Legal Descriptio   | n, etc.)   |   |   |
| <ol> <li>Building Use (e.g., Re</li> <li>Latitude/Longitude: Latitude/Longitude: Latitude: Latitud</li></ol> | sidential, Non-Re<br>at. <u>N40 11 33.0</u><br>Lographs of the bui<br>nber <u>7</u>  | sidential, Addition, A<br>Long. <u>W740224.3</u><br>ilding if the Certificate  | <del>cces</del> sory, etc.) <u>Residen</u><br>e is being used to obtain   | <u>tial</u><br>Horizo<br>n flood insurance.  | ontal Datum: [  | ] NAD 1927 🛛 NAD 1983   |
| <ol> <li>For a building with a c         <ul> <li>a) Square footage of</li> <li>b) Number of permar<br/>or enclosure(s) wit</li> <li>c) Total net area of fi</li> <li>d) Engineered flood</li> </ul> </li> </ol>   | rawlspace or end<br>crawlspace or en<br>nent flood opening<br>thin 1.0 foot above<br>ood openings in A<br>openings?  | kosure(s):<br>closure(s)<br>gs in the crawlspace<br>e adjacent grade<br>A8.b<br>☑ Yes □ No Mo  | 1 <u>275</u> sq ft<br>1 <u>1</u><br>1 <u>738</u> sq in<br>odel 1608-C   | <ul> <li>A9. For a building v         <ul> <li>a) Square foo</li> <li>b) Number of</li> <li>within 1.0 fr</li> <li>c) Total net ar</li> <li>Engineered</li> </ul> </li> </ul>  | with an attache<br>tage of attache<br>permanent flo<br>oot above adja<br>ea of flood op<br>I flood opening  | or garage:<br>ed garage <u>0</u> sq ft<br>od openings in the attached garag<br>icent grade <u>0</u><br>enings in A9.b <u>N/A</u> sq in<br>gs? <u>0</u> Yes ⊠ No   |
|  | SECT   | ION B - FLOOD I  | NSURANCE RATE   | MAP (FIRM) INFO  | DRMATION  |   |
| 1. NFIP Community Nam<br>ownship Of Neptune 340  | e & Community N<br>317   | lumber   | <b>B2. County Name</b><br>Monmouth  |  | B:<br>N.  | 3. State<br>J   |
| B4. Map/Panel Number<br>34025C0333   | B5. Suffix<br>F  | B6. FIRM Index Da<br>Sept. 25, 2009  | te B7. FIRM F<br>Effective/Revis<br>Sept. 25, 2   | Panel B8<br>ed Date Z<br>009   | s. Flood<br>one(s)<br>AE  | B9 Base Flood Elevation(s) (Zo<br>AO, use base flood depth)<br>9  |
| ). Indicate the source of  | the Base Flood E   | evation (BFE) data d   | or base flood depth ente  | ered in Item B9.   |   |   |
| FIS Profile  | 🛛 FIRM   | Community Dete   | rmined Othe   | er/Source:   |   |   |
| I. Indicate elevation date   | um used for BFE I  |  | J1929 IXINAV  |  | er/Source.  |   |
| Is the building located<br>Designation Date:   | in a Coastal Barr  | ier Resources Syster   | n (CBRS) area or Othe   | OPA  | a (OPA)?  | Yes ⊠ No  |
| Is the building located<br>Designation Date:   | in a Coastal Barr SECTIO   | ier Resources Syster   | n (CBRS) area or Othe<br>CBRS   | Invise Protected Are<br>OPA  | a (OPA)?<br>Y REQUIRE   | Yes X No  |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requil<br>A30, AE, AH, A (<br>building diagram<br><u>PS observation</u><br>m used for the ele  | ier Resources Syster N C BUILDING E Construction Dra red when construction (with BFE), VE, V1-V specified in Item A7. vations in items a) th   | n (CBRS) area or Othe<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS<br>CBRS | MATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>RR/A, AR/AE, AR/A<br>ter meters.<br>101988<br>VD 1929 🖾 NAVD  | Y REQUIRE<br>Juction*<br>I-A30, AR/AH   | Yes X No  Yes X No  Thished Construction AR/AO. Complete Items C2.a-4  Pr/Source:   |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>A30, AE, AH, A (<br>building diagram<br><u>PS observation</u><br>m used for the ele<br>g elevations must   | ier Resources Syster N C BUILDING E Construction Dra red when construction with BFE), VE, V1-V specified in Item A7. vations in items a) th be the same as that  | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>Iding Under Constru-<br>plete.<br>R/A, AR/AE, AR/A<br>ter meters.<br>D1988<br>VD 1929 🖾 NAVD  | Y REQUIRE   | Yes No  Yes No  The second se |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>A30, AE, AH, A (<br>building diagram<br><u>PS observation</u><br>m used for the ele<br>g elevations must<br>including basement   | ier Resources Syster N C - BUILDING E Construction Dra red when construction with BFE), VE, V1-V specified in Item A7. vations in items a) th be the same as that int, crawfspace, or en   | n (CBRS) area or Othe<br>CBRS<br>CBRS<br>CEVATION INFORM<br>wings*<br>building is com<br>30, V (with BFE), AR, A<br>In Puerto Rico only, en<br>Vertical Datum: <u>NAV</u><br>rough h) below.<br>NG<br>used for the BFE.<br>closure floor)   | A TION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>IR/A, AR/AE, AR/A<br>er meters.<br>D1988<br>VD 1929 🖾 NAVD  | Y REQUIRE<br>Juction*<br>I-A30, AR/AH<br>1988 [] Othe<br>Check th   | Yes X No  Yes No  The provide the second se |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>-A30, AE, AH, A (<br>building diagram<br><u>2S observation</u><br>m used for the ele<br>g elevations must<br>including basement<br>er floor  | ier Resources System<br>N C BUILDING E<br>Construction Dra<br>red when construction<br>(with BFE), VE, V1V<br>specified in Item A7.<br>vations in items a) th<br>be the same as that<br>int, crawfspace, or en-  | n (CBRS) area or Othe<br>CBRS   | A 1966 L Oth<br>wise Protected A re<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>blete.<br>RR/A, AR/AE, AR/A<br>ter meters.<br>101988<br>VD 1929 ⊠ NAVD<br>4.7<br>12.9   | a (OPA)?<br>Y REQUIRE<br>Juction*<br>I-A30, AR/AH<br>1988 □ Othe<br>Check th<br>⊠   | Yes X No Yes No Yes A No Yes A No Yes A No Yes A No AR/AO. Complete Items C2.a-4 Ar/Source: e measurement used. feet meters feet meters feet meters feet meters   |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>A30, AE, AH, A (<br>building diagram<br><u>PS observation</u><br>m used for the ele<br>g elevations must<br>including basement<br>er floor<br>horizontal structur  | ier Resources Syster N C BUILDING E Construction Dra red when construction with BFE), VE, V1-V specified in Item A7. vations in items a) th be the same as that int, crawfspace, or en inal member (V Zones  | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>R/A, AR/AE, AR/A<br>ter meters.<br>D1988<br>VD 1929 🖾 NAVD<br>4.7<br>12.9<br>N/A   | Y REQUIRE<br>Juction*<br>I-A30, AR/AH<br>1988 [] Othe<br>Check th   | Yes X No  |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>-A30, AE, AH, A (<br>building diagram<br>-<br>2S observation<br>m used for the ele<br>g elevations must<br>including basemer<br>er floor<br>horizontal structur<br>o of slab)<br>nachinery or equir  | ier Resources System N C BUILDING E Construction Dra red when construction with BFE), VE, V1-V specified in Item A7. wations in items a) th be the same as that int, crawfspace, or en inal member (V Zones pmentservicing the b   | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>IR/A, AR/AE, AR/A<br>er meters.<br>D1988<br>VD 1929 🖾 NAVD<br>4.7<br>12.9<br>N/A<br>N/A<br>12.6  | Y REQUIRE   | Yes No      Yes No      Yes No      Yes No      Yes No      Yes      Yes      No      Yes      Ye     |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>-A30, AE, AH, A (<br>building diagram<br>2 <u>S observation</u><br>m used for the ele<br>g elevations must<br>including basement<br>er floor<br>horizontal structur<br>of slab)<br>machinery or equi<br>uipment and locat  | ier Resources Syster N C BUILDING E Construction Dra red when construction with BFE), VE, V1V specified in Item A7. vations in items a) th be the same as that nt, crawfspace, or en ral member (V Zones pmentservicing the b ion in Comments)   | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>RR/A, AR/AE, AR/A<br>ter meters.<br>D1988<br>VD 1929 🖾 NAVD<br>4.7<br>12.9<br>N/A<br>12.6  | Y REQUIRE   | Yes X No      Yes No          |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>A30, AE, AH, A (<br>building diagram<br><u>PS observation</u><br>m used for the ele<br>g elevations must<br>including basement<br>er floor<br>horizontal structur<br>o of slab)<br>machinery or equi<br>uipment and locat<br>shed) grade next  | ier Resources Syster N C BUILDING E Construction Dra red when construction with BFE), VE, V1-V specified in Item A7. vations in items a) th be the same as that int, crawfspace, or en iral member (V Zones pment servicing the b ion in Comments) to building (LAG) to building (LAG)   | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>R/A, AR/AE, AR/A<br>ter meters.<br>D1988<br>VD 1929 ⊠ NAVD<br>4.7<br>12.9<br>N/A<br>N/A<br>12.6<br>4.7<br>5.4  | Y REQUIRE   | □ Yes       ⊠ No         □)       □         ☑ Finished Construction         AR/AO. Complete Items C2.a-4         er/Source:   |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>-A30, AE, AH, A (<br>building diagram<br><u>2S observation</u><br>m used for the ele<br>g elevations must<br>including basement<br>er floor<br>horizontal structur<br>of slab)<br>machinery or equi<br>uipment and locat<br>shed) grade next<br>ished) grade next  | ier Resources Syster N C BUILDING E Construction Dra red when construction with BFE), VE, V1V specified in Item A7. vations in items a) th be the same as that nt, crawfspace, or en ral member (V Zones pment servicing the b ion in Comments) to building (LAG) to building (HAG) tion of deck or stairs,  | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>WR/A, AR/AE, AR/A<br>ter meters.<br>D1988<br>VD 1929 🖾 NAVD<br>4.7<br>12.9<br><u>N/A</u><br>12.6<br>4.7<br>5.4<br>poport 5.4   | A (OPA)?<br>Y REQUIRE<br>Juction*<br>I-A30, AR/AH<br>1988 □ Othe<br>Check th<br>⊠<br>□<br>□<br>□<br>□<br>□<br>□<br>□<br>□<br>□<br>□<br>□<br>□<br>□                          | □       Yes       ⊠ No         D)       □         ☑       Finished Construction         AR/AO. Complete Items C2.a-I         er/Source:          e measurement used.         feet       □ meters  |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>A30, AE, AH, A (<br>building diagram<br>estimation<br>mused for the ele<br>gelevations must<br>including baseme<br>er floor<br>horizontal structur<br>o of slab)<br>nachinery or equir<br>informat and locat<br>shed) grade next<br>de at lowest eleva   | ier Resources Syster NC BUILDING E Construction Dra red when construction with BFE), VE, V1-V specified in Item A7. vations in items a) th be the same as that nt, crawfspace, or en aral member (V Zones pmentservicing the b ion in Comments) to building (LAG) to building (HAG) ation of deck or stairs, DND - SURVEYOF  | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>W/A, AR/AE, AR/A<br>ter meters.<br>D1988<br>VD 1929 🖾 NAVD<br>4.7<br>12.9<br>N/A<br>N/A<br>12.6<br>4.7<br>5.4<br>oport 5.4<br>RCHITECT CER   | Y REQUIRE   | □       Yes       ⊠ No         D)       □         ☑       Finished Construction         AR/AO. Complete Items C2.a-I         er/Source:          e measurement used.         feet       meters  |
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| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>A30, AE, AH, A (<br>building diagram<br><u>PS observation</u><br>mused for the ele<br>gelevations must<br>including basemer<br>er floor<br>horizontal structur<br>o of slab)<br>machinery or equi<br>uipment and locat<br>shed) grade next<br>ished) grade next<br>de at lowest eleva<br><u>SECTIO</u><br>gned and sealed le<br><i>statement may b</i> ots are provided o<br>eents.                                | ier Resources Syster  N C BUILDING E  Construction Dra red when construction with BFE), VE, VI-V specified in Item A7.  Avations in items a) th be the same as that int, crawfspace, or en aral member (V Zones pmentservicing the b ion in Comments) to building (LAG) to building (LAG) to building (HAG) to building (HAG) to building (HAG) by a land surveyor, et <i>his Certificate repress e punishable by fine o</i> in back of form.            | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>IR/A, AR/AE, AR/A<br>ter meters.<br>D1988<br>VD 1929 🖾 NAVD<br>4.7<br>12.9<br>N/A<br>N/A<br>12.6<br>4.7<br>5.4<br>oport 5.4<br>RCHITECT CER<br>thorized by law to con<br>therpret the data aw<br>18 U.S. Code, Secti<br>tude in Section A pr   | A (OPA)?<br>Y REQUIRE<br>Juction*<br>I-A30, AR/AH<br>1988 □ Othe<br>Check th<br>I<br>Check th<br>I<br>TIFICATION<br>attable.<br>on 1001.<br>Tovided by a<br>No              | □ Yes       ⊠ No         □)       □         ☑ Finished Construction         , AR/AO. Complete Items C2.a-4         er/Source:   |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>A30, AE, AH, A (<br>building diagram<br><u>PS observation</u><br>mused for the ele<br>gelevations must<br>including basemener<br>floor<br>horizontal structur<br>of slab)<br>machinery or equi<br>uipment and locat<br>shed) grade next<br>ished) grade next<br>de at lowest eleva<br><u>SECTIO</u><br>gned and sealed le<br><i>information on t</i><br><i>statement may b</i><br>nts are provided o<br>ients.     | ier Resources Syster N C BUILDING E Construction Dra red when construction with BFE), VE, V1V specified in Item A7. vations in items a) th be the same as that in nt, crawfspace, or en ral member (V Zones pment servicing the b ion in Comments) to building (LAG) to building (LAG) to building (HAG) ation of deck or stairs, DN D - SURVEYOF by a land surveyor, en his Certificate repress e punishable by fine o in back of form.                 | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>RR/A, AR/AE, AR/A<br>ter meters.<br>D1988<br>VD 1929 🖾 NAVD<br>4.7<br>12.9<br>N/A<br>12.6<br>4.7<br>5.4<br>0port 5.4<br>RCHITECT CER<br>thorized by law to contempret the data av<br>18 U.S. Code, Secti<br>tude in Section A pr<br>P 🖾 Yes  | A (OPA)?<br>Y REQUIRE<br>Juction*<br>I-A30, AR/AH<br>1988 □ Othe<br>Check th<br>\[\]<br>Check th<br>\[\]<br>TIFICATION<br>attable.<br>or 1001.<br>ovided by a<br>] No<br>77 | □ Yes       ⊠ No         □)       □         ☑ Finished Construction         AR/AO. Complete Items C2.a-I         ar/Source:          e measurement used.         feet       meters         feet   |
| Is the building located<br>Designation Date:   | in a Coastal Barr<br>SECTIO<br>based on:<br>icate will be requir<br>A30, AE, AH, A (<br>building diagram<br><u>PS observation</u><br>mused for the ele<br>gelevations must<br>including basemer<br>er floor<br>horizontal structur<br>o of slab)<br>machinery or equi<br>uipment and locat<br>shed) grade next<br>ished) grade next<br>de at lowest eleva<br><u>SECTIO</u><br>gned and sealed le<br><i>information on to</i><br><i>statement may bo</i><br>nts are provided o<br>ents. | ier Resources Syster N C BUILDING E Construction Dra red when construction with BFE), VE, VI-V specified in Item A7. vations in items a) th be the same as that i int, crawfspace, or en iral member (V Zones pment servicing the b ion in Comments) to building (LAG) to building (LAG) to building (HAG) tion of deck or stairs, DN D - SURVEYOF by a land surveyor, et his Certificate represe e punishable by fine o in back of form. Company Name R | n (CBRS) area or Othe<br>CBRS   | ATION (SURVE<br>OPA<br>MATION (SURVE<br>Iding Under Constru-<br>plete.<br>IR/A, AR/AE, AR/A<br>er meters.<br>D1988<br>VD 1929 🖾 NAVD<br>4.7<br>12.9<br>N/A<br>N/A<br>12.6<br>4.7<br>5.4<br>oport 5.4<br>RCHITECT CER<br>thorized by law to contempret the data aw<br>18 U.S. Code, Secti<br>tude in Section A pr<br>P<br>Section A pr | a (OPA)?  Y REQUIRE Jction* I-A30, AR/AH 1988  Othe Check th Check th Check th TiFiCATION attable. on 1001. ovided by a No 77   | □ Yes       ⊠ No         D)       □         ⊠ Finished Construction         , AR/AO. Complete Items C2.a-I         er/Source:   |

FEMA Form 086-0-33 (7/12)

See reverse side for continuation.

Replaces all previous editions.

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| Building StreetAddress (including Apt  | tor an somesponding information nois secu  | on A.   | FOR INSURANCE COMPANY USE   |
|--|--|---|---|
| 106 Hillcrest Avenue   | ., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box N  | 0.  | Policy Number:  |
| City Neptune Township  | State NJ ZIP Co  | de 07753  | Company NAIC Number   |
| SECTION  | ID - SURVEYOR, ENGINEER, OR ARCHITECT  | CERTIFICATION (CO   | ONTINUED)   |
| opy both sides of this Elevation Certi   | ficate for (1) community official, (2) insurance agent/com   | pany, and (3) building o  | wner.   |
| Comments Structure is a one story fr<br>as fumace is in the attic. The air cond<br>he foundation within one foot of adjac  | ame dwelling built above a masonry basement. There is<br>ditioning unit is on a wood platform in the rear at elevatio<br>ent grade (see attached specifications). There is a 40 inc  | a gas hot water heater<br>n 12.6.There are eleven<br>ch by 72 inch access op  | on the first floor at elev. 12.9 and the<br>8 inch by 16 inch engineered vents<br>ening in the rear of the house at grad  |
| lon  |  |   |   |
| Signature  | Date 4/3/13  |   |   |
| SECTION E - BUILDING ELE   | VATION INFORMATION (SURVEY NOT REQUI   | ED) FOR ZONE AO   | AND ZONE A (WITHOUT BFE)  |
| For Zones AO and A (without BFE), c  | omplete Items E1-E5. If the Certificate is intended to sup   | port a LOMA or LOMR   | F request, complete Sections A, B,  |
| E1. Provide elevation information for  | r the following and check the appropriate boxes to show  | whether the elevation is  | above or below the highest adjacent   |
| grade (HAG) and the lowest adja  | acent grade (LAG).   | □ feet □ meters [   | $\Box$ shows of $\Box$ below the HAC  |
| b) Top of bottom floor (including  | basement, crawispace, or enclosure) is basement, crawispace, or enclosure) is  | feet meters   | above or below the LAG.   |
| E2. For Building Diagrams 6–9 with   | permanent flood openings provided in Section A Items 8   | and/or 9 (see pages 8-  | 9 of Instructions), the next higher floo  |
| (elevation U2.D in the diagrams)<br>3. Attached garage (top of slab) is  | or the building is ∐iteet ∐imeters [<br>∏feet □ meters □ above or □  | 」above or ∐ibelow th<br>below the HAG   | ie Mag.   |
| E4. Top of platform of machinery and   | d/or equipment servicing the building is   | ] feet 🔲 meters 🔲 at  | oove or 🔲 below the HAG.  |
| 5. Zone AO only: If no flood depth   | number is available, is the top of the bottom floor elevat   | ed in accordance with th  | e community's floodplain manageme   |
| ordinance? 🗌 Yes 🔲 No 🗌  | Unknown. The local official must certify this informatio   | n in Section G.   |   |
| SECTION  | IF - PROPERTY OWNER (OR OWNER'S REPR   | ESENTATIVE) CERT  | IFICATION   |
| r Zone AO must sign here. The stater<br>roperty Owner's or Owner's Authorize   | ments in Sections A, B, and E are correct to the best of n<br>ed Representative's Name   | <b>y knowledge</b> .  |   |
| _úress   | City   | State   | ZIP Code  |
| ignature   | Date   | Teleph  | one   |
| omments  |  |   |   |
|  | • .  |   | Check here if attachm   |
|  |  |   |   |
|  | SECTION G - COMMUNITY INFORMATIC   | N (OPTIONAL)  |   |
| e local official who is authorized by law<br>his Elevation Certificate. Complete the   | SECTION G – COMMUNITY INFORMATIC<br>or ordinance to administer the community's floodplain ma<br>applicable item(s) and sign below. Check the measurement   | N (OPTIONAL)<br>nagement ordinance can<br>ent used in Items G8–G1   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.   |
| e local official who is authorized by law<br>his Elevation Certificate. Complete the<br>. The information in Section C v<br>is authorized by law to certify  | SECTION G – COMMUNITY INFORMATIC<br>or ordinance to administer the community's floodplain ma<br>applicable item(s) and sign below. Check the measurement<br>was taken from other documentation that has been signe<br>elevation information. (Indicate the source and date of the  | N (OPTIONAL)<br>nagement ordinance cau<br>ent used in Items G8–G1<br>d and sealed by a licens<br>ne elevation date in the   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)  |
| e local official who is authorized by law<br>his Elevation Certificate. Complete the<br>. The information in Section C v<br>is authorized by law to certify<br>. A community official complete   | SECTION G – COMMUNITY INFORMATION<br>or or ordinance to administer the community's floodplain mate<br>applicable item(s) and sign below. Check the measurement<br>was taken from other documentation that has been signed<br>elevation information. (Indicate the source and date of the<br>ded Section E for a building located in Zone A (without a Fi   | N (OPTIONAL)<br>nagement ordinance cal<br>ent used in Items G8-G1<br>d and sealed by a licens<br>ne elevation date in the<br>EMA-issued or commun   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.   |
| e local official who is authorized by law<br>his Elevation Certificate. Complete the<br>. The information in Section C v<br>is authorized by law to certify<br>. A community official complete<br>. The following information (Iter  | SECTION G COMMUNITY INFORMATION<br>or ordinance to administer the community's floodplain mater<br>applicable item(s) and sign below. Check the measurement<br>was taken from other documentation that has been signe<br>elevation information. (Indicate the source and date of the<br>elevation E for a building located in Zone A (without a Films G4-G10) is provided for community floodplain manage   | IN (OPTIONAL)<br>nagement ordinance cal<br>ent used in Items G8–G1<br>d and sealed by a licens<br>ne elevation data in the<br>EMA-issued or commun<br>ement purposes.   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.   |
| e local official who is authorized by law<br>his Elevation Certificate. Complete the<br>. The information in Section C v<br>is authorized by law to certify<br>. A community official complete<br>. The following information (Iter<br>4. Permit Number  | SECTION G COMMUNITY INFORMATIC<br>or or ordinance to administer the community's floodplain ma<br>e applicable item(s) and sign below. Check the measurement<br>was taken from other documentation that has been signe<br>elevation information, (Indicate the source and date of the<br>elevation E for a building located in Zone A (without a F<br>ms G4-G10) is provided for community floodplain manage<br>G5. Date Permit Issued G6.  | IN (OPTIONAL)<br>nagement ordinance cal<br>ent used in Items G8–G1<br>d and sealed by a licens<br>the elevation data in the<br>EMA-issued or commun<br>ement purposes.<br>Date Certificate Of Con   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.<br>npliance/Occupancy Issued                            |
| <ul> <li>e local official who is authorized by law his Elevation Certificate. Complete the is authorized by law to certify.</li> <li>A community official complete.</li> <li>The following information (Iter 4. Permit Number</li> <li>This permit has been issued for:</li> </ul>   | SECTION G COMMUNITY INFORMATIC<br>or or ordinance to administer the community's floodplain ma<br>e applicable item(s) and sign below. Check the measurement<br>was taken from other documentation that has been signe<br>elevation information. (Indicate the source and date of the<br>elevation E for a building located in Zone A (without a F<br>ms G4-G10) is provided for community floodplain managed<br>G5. Date Permit Issued G6.   | N (OPTIONAL)<br>nagement ordinance cal<br>ent used in Items G8–G1<br>d and sealed by a licens<br>ne elevation date in the<br>EMA-issued or commun<br>ement purposes.<br>Date Certificate Of Con-<br>ent   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.<br>npliance/Occupancy Issued                            |
| <ul> <li>e local official who is authorized by law his Elevation Certificate. Complete the is authorized by law to certify</li> <li>A community official complete</li> <li>The following information (Iter</li> <li>4. Permit Number</li> <li>This permit has been issued for:</li> <li>Elevation of as-built lowest floor (in</li> </ul>  | SECTION G COMMUNITY INFORMATION<br>or or ordinance to administer the community's floodplain mater<br>applicable item(s) and sign below. Check the measurement<br>was taken from other documentation that has been signe<br>elevation information, (Indicate the source and date of the<br>elevation E for a building located in Zone A (without a F<br>ms G4G10) is provided for community floodplain manage<br>G5. Date Permit Issued G6.   | N (OPTIONAL)<br>nagement ordinance cal<br>ent used in Items G8–G1<br>d and sealed by a licens<br>the elevation data in the<br>EMA-issued or commun<br>ement purposes.<br>Date Certificate Of Con<br>ent<br>feet   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.<br>npliance/Occupancy Issued                            |
| e local official who is authorized by law<br>his Elevation Certificate. Complete the<br>. The information in Section C v<br>is authorized by law to certify<br>. A community official complete<br>. The following information (Iter<br>64. Permit Number<br>. This permit has been issued for:<br>. Elevation of as-buitt lowest floor (ir<br>. BFE or (in Zone AO) depth of flood   | SECTION G COMMUNITY INFORMATIO         or or ordinance to administer the community's floodplain mage applicable item(s) and sign below. Check the measurements was taken from other documentation that has been signerelevation information. (Indicate the source and date of the desction E for a building located in Zone A (without a Fins G4-G10) is provided for community floodplain manage         G5. Date Permit Issued       G6.         New Construction       Substantial Improvementation of the building:         including basement) of the building:   | N (OPTIONAL) nagement ordinance cal ent used in Items G8–G1 d and sealed by a licens ne elevation date in the EMA-issued or commun ement purposes. Date Certificate Of Con ent feet  feet meters feet meters feet meters  | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.<br>npliance/Occupancy Issued<br>Datum<br>Datum          |
| e local official who is authorized by law<br>this Elevation Certificate. Complete the<br>. The information in Section C v<br>is authorized by law to certify<br>. A community official complete<br>. The following information (Iter<br>. Permit Number<br>. This permit has been issued for:<br>. Elevation of as-built lowest floor (ir<br>. BFE or (in Zone AO) depth of floor<br>0. Community's design flood elevatio  | SECTION G COMMUNITY INFORMATION or or ordinance to administer the community's floodplain made applicable item(s) and sign below. Check the measurement was taken from other documentation that has been signer elevation information. (Indicate the source and date of the desction E for a building located in Zone A (without a Films G4-G10) is provided for community floodplain managed G5. Date Permit Issued G6.  | N (OPTIONAL) nagement ordinance cale the used in Items G8–G1 d and sealed by a licens the elevation date in the EMA-issued or communement purposes. Date Certificate Of Con ent feet  feet meters fee | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.<br>npliance/Occupancy Issued<br>Datum<br>Datum<br>Datum |
| e local official who is authorized by law<br>his Elevation Certificate. Complete the<br>. The information in Section C v<br>is authorized by law to certify<br>. A community official complete<br>. The following information (Iter<br>. Permit Number<br>. This permit has been issued for:<br>. Elevation of as-built lowest floor (ir<br>. BFE or (in Zone AO) depth of floor<br>0. Community's design flood elevatio<br>ocal Official's Name   | SECTION G - COMMUNITY INFORMATIC         v or ordinance to administer the community's floodplain mails applicable item(s) and sign below. Check the measurement was taken from other documentation that has been signed elevation information. (Indicate the source and date of the desction E for a building located in Zone A (without a Finns G4-G10) is provided for community floodplain manage         G5. Date Permit Issued       G6.         Image: New Construction       Substantial Improvement of the building iste:         n:   | N (OPTIONAL) nagement ordinance cal ent used in Items G8–G1 d and sealed by a licens the elevation date in the EMA-issued or commun ement purposes. Date Certificate Of Con ent feet  | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.<br>npliance/Occupancy Issued<br>Datum<br>Datum<br>Datum |
| e local official who is authorized by law<br>this Elevation Certificate. Complete the<br>. The information in Section C v<br>is authorized by law to certify<br>. A community official complete<br>. The following information (Iter<br>. Permit Number<br>. This permit has been issued for:<br>. Elevation of as-built lowest floor (in<br>. BFE or (in Zone AO) depth of floor<br>0. Community's design flood elevatio<br>ocal Official's Name  | SECTION G COMMUNITY INFORMATIO         or or ordinance to administer the community's floodplain mate applicable item(s) and sign below. Check the measurement was taken from other documentation that has been signed elevation information. (Indicate the source and date of the distribution of the for a building located in Zone A (without a Films G4-G10) is provided for community floodplain managed         G5. Date Permit Issued       G6.         Image: New Construction       Substantial Improvement of the building site:         n:       Image: Title         Title  | N (OPTIONAL) nagement ordinance cal ent used in Items G8–G1 d and sealed by a licens ne elevation date in the EMA-issued or commun ement purposes. Date Certificate Of Con ent feet   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.<br>npliance/Occupancy Issued<br>Datum<br>Datum<br>Datum |
| <ul> <li>le local official who is authorized by law this Elevation Certificate. Complete the is authorized by law to certify</li> <li>The information in Section C vis authorized by law to certify</li> <li>A community official complete</li> <li>The following information (Iter</li> <li>The following information (Iter</li> <li>Permit Number</li> <li>This permit has been issued for:</li> <li>Elevation of as-built lowest floor (ir</li> <li>BFE or (in Zone AO) depth of flood</li> <li>Community's design flood elevatio</li> <li>.ocal Official's Name</li> <li>Community Name</li> <li>nature</li> </ul> | SECTION G COMMUNITY INFORMATIO         or ordinance to administer the community's floodplain mage applicable item(s) and sign below. Check the measurement was taken from other documentation that has been signed elevation information. (Indicate the source and date of the distribution of the for a building located in Zone A (without a Fins G4-G10) is provided for community floodplain manage         G5. Date Permit Issued       G6.         New Construction       Substantial Improvement Substantial Improvement (Substantial Improvement) of the building:         n:  | N (OPTIONAL) nagement ordinance cal ent used in Items G8–G1 d and sealed by a licens te elevation data in the EMA-issued or commun ement purposes. Date Certificate Of Cor ent feet   | n complete Sections A, B, C (or E), an<br>0. In Puerto Rico only, enter meters.<br>sed surveyor, engineer, or architect w<br>Comments area below.)<br>ity-issued BFE) or Zone AO.<br>npliance/Occupancy Issued<br>Datum<br>Datum<br>Datum |
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### ELEVATION CERTIFICATE, pype &

## **Building Photographs**

See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the correspo                                    | FOR INSURANCE COMPANY USE   |                      |  |  |  |
|--|---|----------------------|--|--|--|
| Building Street Address (including Apt., Unit, Suite, and/or<br>Hillcrest Avenue | Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.<br>Hillcrest Avenue |                      |  |  |  |
| City Neptune Township  | State NJ ZIP Code 07753   | Company NAIC Number: |  |  |  |

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.



- · ·

**Building Photographs** 

Continuation Page

| IMPORTANT: In these spaces, copy the corresponding inf  | FOR INSURANCE COMPANY USE |                |                      |
|---|---------------------------|----------------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) of<br>***6 Hillcrest Avenue | or P.O. Route a           | and Box No.    | Policy Number:       |
| ity Neptune Township  | State NJ                  | ZIP Code 07753 | Company NAIC Number. |

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.



FEMA Form 086-0-33 (7/12)

Replaces all previous editions.

## **CERTIFICATION OF ENGINEERED FLOOD OPENINGS (FEMA TB-1 August 2008)**

I do hereby certify that the **FLOOD SOLUTIONS LLC** Flood Vent properly installed and sized in accordance with Federal Emergency Management Agency's (FEMA's) National Flood Program regulations is designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for entry and exit of floodwater during floods up to and including the base 100-year flood.

I also do hereby certify that I calculated the Non Engineered Net Free Air and Engineered Opening size for each model and size of FLOOD SOLUTIONS LLC flood vents. The results of the calculations are recorded in the table below. The Engineered size opening calculation was performed using the formula in FEMA Technical Bulletin 1 – August 2008, Openings in Foundation Walls for Buildings Located in Special Flood Hazard Areas in accordance with the National Flood Insurance Program (NFIP) and ASCE/SEI 24-05, Flood Resistance Design and Construction. I measured the Non Engineered Net Free Air by calculating the minimum distance between the top blade and the top of the vent times the clear opening width of the vent; plus the minimum distance between the bottom blade and the bottom of the vent the clear opening width of the vent; plus the minimum distance between the bottom blade in vent times the clear opening width of the vent.

I used the formula in TB 1 – August 2008 ( $A^{\circ}$  = 0.033 [1/C] RAê) to determine the Engineered Opening size for each model listed below. I used the following assumptions:  $A^{\circ}$  = total net area of openings required (in<sup>2</sup>); 0.033 = coefficient corresponding to a factor of safety of 5.0 (in<sup>2</sup> hr/ft<sup>3</sup>); c = 0.40 opening coefficient (ASCE 24 Table 2-3 "rectangular, long axis horizontal, short axis vertical unobstructed during design flood") or C = 0.35 (square unobstructed during design flood); R = 5 ft/hr worst case rate of rise and fall; and Aê = 1 ft<sup>2</sup> total enclosed area.

Note: When the horizontal dimension is twice or more the vertical dimension, use 0.4; as the dimensions approach a square, interpolate from 0,4 to 0.35.

## $A^{0} / A\hat{e} = 0.033 [1/C] R = 0.033 [1/0.40 for rectangle, long axis horizontal] 5 = 0.4125 in^{2} per ft^{2}$ or $A^{0} / A\hat{e} = 0.033 [1/C] R = 0.033 [1 / 0.35 for square] 5 = .4719 in^{2} per ft^{2}$

Each individual opening, and any louvers, screens, or other covers, shall be designed to allow automatic entry and exit of floodwaters during design flood or lesser flood conditions; there shall be a minimum of two openings on different sides of each enclosed area; if a structure has more than one enclosed area below the DFE, each area shall have openings; openings shall not be less than 3 inches in any direction in the plane of the wall; the bottom of each required opening shall be no more than 1 ft. above the adjacent grade; the difference between the exterior and interior floodwater levels shall not exceed 1 ft. during base flood conditions; in the absence of reliable data on the rates of rise and fall, assume a rate of rise and fall of 5ft/hr; where data or analysis indicated more rapid rates of rise and fall, the total net area of the required openings shall be increased to account for the higher rates of rise and fall.

|                  |                  |                                  | ENGINEERED<br>OPENING |
|------------------|------------------|----------------------------------|-----------------------|
| Flood Solutions: | SIZE OF OPENING: | Net Free Air<br>(square inches): | Each vent covers:     |
|                  |                  |                                  | (square ft.)          |
| 1412-F           | 14" x 12"        | 67                               | . <b>145</b>          |
| 1608-F           | 16" x 8"         | 51                               | 124                   |
| 160 <u>8-D</u>   | 16" x 8"         | 51                               | 124                   |
| (1608-Ç.)        | 16" x 8"         | 65                               | 158                   |
| 1616-F           | 16" x 16"        | 104                              | 221                   |
| 1616-D           | 16" x 16"        | 102                              | 216                   |
| 2412-F           | 24" x 12"        | 113                              | 274                   |
| 2412-D           | 24" x 12"        | 110                              | .267                  |
| 2416-F           | 24" x 16"        | 156                              | 362                   |
| 2416-D           | 24" x 16"        | 154                              | 357                   |
| 3208-F           | 32" x 8"         | 104                              | 252                   |
| 3208-D           | 32" x 8"         | 104                              | 252                   |

SIGNATURE:

NAME: <u>DANIEL G. FARABAUGH</u>

TYPE OF LICENSE: \_PROFESSIONAL ENGINEER\_\_\_

STATE : NEW JERSEY\_ LICENSE NUMBER: \_24GE03649900

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

## **ELEVATION CERTIFICATE**

T

| EDERAL EMERGENCY MANAGEMENT AGENCY<br>National Flood Insurance Program Important: Read the instructions on pages 1–9.  | OMB No. 1660-0008<br>Expiration Date: July 31, 2015   |
|--|---|
| SECTION A – PROPERTY INFORMATION   | FOR INSURANCE COMPANY USE   |
| A1. Building Owner's Name ANGELA D'AGOSTINO  | Policy Number:  |
| <ul> <li>Puilding Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No.</li> <li>2 BEVERLY WAY</li> </ul>   | Company NAIC Number:  |
| City NEPTUNE State NJ ZIP Code 07753   | Elevated  |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)<br>LOT 19.02, BLOCK 475   | Compliant   |
| <ul> <li>A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>RESIDENTIAL</u></li> <li>A5. Latitude/Longitude: Lat. <u>N 40deg11.639min</u> Long. <u>W74deg02.390min</u> Horizonta</li> <li>A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.</li> <li>A7. Building Diagram Number <u>7</u></li> <li>A8. For a building with a crawlspace or enclosure(s):</li> <li>A9. For a building with a crawlspace or enclosure(s)</li> <li>A9. For a building with a) Square footage of crawlspace or enclosure(s)</li> <li>A9. For a building with a) Square footage of crawlspace or enclosure(s)</li> <li>A9. Number of permanent flood openings in the crawlspace or enclosure b) Number of per within 1.0 foot above adjacent grade <u>5</u></li> <li>C) Total net area of flood openings in Abb</li> </ul> | al Datum: NAD 1927 NAD 1983<br>e an attached garage:<br>e of attached garage <u>235</u> sq ft<br>manent flood openings in the attached garage<br>above adjacent grade <u>2</u><br>of flood openings in A9.b 400 sq in |
| d) Engineered flood openings? 🛛 Yes 🗌 No d) Engineered flo   | ood openings? Xes No  |
| SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFOR  | MATION  |
| B1. NFIP Community Name & Community<br>Number NEPTUNE TWP. 340317 B2. County Name<br>MONMOUTH  | B3. State<br>NJ   |
| B4. Map/Panel Number<br>34025C0333         B5. Suffix<br>F         B6. FIRM Index Date<br>9/25/09         B7. FIRM Panel<br>Effective/Revised Date<br>9/25/09         B8. F  | Flood B9. Base Flood Elevation(s) (Zone<br>e(s) AO, use base flood depth)<br>E 9  |
| 10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.   | I   |
| ☐ FIS Profile  |   |
| 1. Indicate elevation datum used for BFE in Item B9: □ NGVD 1929       ☑ NAVD 1988       □ Other/         2. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (<br>Designation Date: □ CBRS □ OPA   | Source:<br>OPA)?  |
| SECTION C – BUILDING ELEVATION INFORMATION (SURVEY I   | REQUIRED)   |
| Building elevations are based on:     Construction Drawings*     Building Under Construction     A new Elevation Contificate will be required when construction of the building in complete  | ion* 🛛 Finished Construction  |
| <ol> <li>Elevation Certificate will be required when construction of the building is complete.</li> <li>Elevations – Zones A 1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-4<br/>below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.</li> </ol>   | 30, AR/AH, AR/AO. Complete Items C2.a-h   |
| Indicate elevation datum used for the elevations in items a) through h) below. UNIVERSE NAVD 1988  | 88 Other/Source:  |
| Datum used for building elevations must be the same as that used for the BFE.  | Check the measurement used  |
| a) Tap of bettern floor (including becoment grauleness, or appleaure floor)  |   |
| b) Top of the next higher floor 15.1   | ⊠ feet □ meters   |
| c) Bottom of the lowest horizontal structural member (V Zones only)  | feet meters   |
| d) Attached garage (top of slab) <u>6.2</u>  | ⊠ feet □ meters   |
| e) Lowest elevation of machinery or equipment servicing the building <u>15.9</u><br>(Describe type of equipment and location in Comments)  | ⊠ feet □ meters   |
| f) Lowest adjacent (finished) grade next to building (LAG) <u>5.8</u>  | ⊠ feet ⊔ meters   |
| b) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support $5.8$   | feet meters   |
| SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTI   | FICATION  |
| This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certi<br>information. I certify that the information on this Certificate represents my best efforts to interpret the data avail<br>I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section<br>Check here if comments are provided on back of form. Were latitude and longitude in Section A prov   | fy elevation<br>able.<br>1001.<br>ided by a   |
|  |   |
|  |   |
| Address 100 JACK MARTIN BLVD. City BRICK State N.I. ZIP Code 0872.   | 4   |
|  |   |
| Signature Many m Date Jin 14 Telephone 732-450-0005  |   |

| Duilding Cheet Address (instruction - A-   | copy the corresponding info  | mation from 9  | ection A  | EOP  |  |
|--|--|--|---|--|--|
| Dunany Street Address (Including Ap  | pt., Unit, Suite, and/or Bldg. No.) or   | P.O. Route and I   | Box No.   | Policy   | Number:  |
|  |  | State NJ Z   | IP Code 07753   | Comp   | any NAIC Number.   |
|  |  |  |   |  |  |
| SECTIO   | N D - SURVETOR, ENGINEER   | R, UR ARCHIT   |   |  | IUED)  |
| y both sides of this Elevation Ce  | ertificate for (1) community official, (   | (2) insurance age  | ent/company, and  | (3) building owne  | ·  |
| Comments PRELIMINARY WOR   | IK MAPS PLACE THE PROPERTY   | 'IN ZONEAE10,  | SMART VENT  | MODEL 1450/51  | )  |
|  |  |  |   | •  |  |
|  |  |  |   |  |  |
| Signature Muchn  | 1 dame   | Date 3   | /4/14   |  |  |
| SECTION E - BUILDING EL  | EVATION INFORMATION (SU  | RVEY NOT RE  | QUIRED) FOR   | ZONE AO AND  | ZONE A (WITHOUT BFE)   |
| For Zones AO and A (without BFE),<br>and C. For Items E1–E4, use natural<br>E1. Provide elevation information fi<br>grade (HAG) and the lowest ac<br>a) Top of bottom floor (includin  | complete Items E1–E5. If the Certi<br>I grade, if available. Check the mea<br>or the following and check the appr<br>Ijacent grade (LAG).<br>Ig basement, crawlspace, or enclos  | ficate is intended<br>asurement used. I<br>opriate boxes to s<br>sure) is  | to support a LON<br>n Puerto Rico on<br>show whether the  | A or LOMR-F required by enter meters.  | est, complete Sections A, B,<br>or below the highest adjacent<br>ve or 🗌 below the HAG.  |
| <ul> <li>b) Top of bottom floor (including<br/>E2. For Building Diagrams 6–9 with<br/>(elevation C2.b in the diagrams)</li> </ul>  | g basement, crawlspace, or enclos<br>h permanent flood openings provide<br>s) of the building is   | ure) is<br>ed in Section A ite   | ☐ feet<br>ems 8 and/or 9 (s<br>ers ☐ above or   | ☐ meters ☐ above<br>ee pages 8–9 of In<br>☐ below the HA(  | ve or D below the LAG.<br>structions), the next higher floor<br>G.   |
| E3. Attached garage (top of slab) is   | s feet [] m  | eters 🔲 above  | or below the  | HAG.   |  |
| E5. Zone AO only: If no flood dept   | th number is available, is the top of  | the bottom floor e   | levated in accord   | dance with the com   | munity's floodplain management   |
| ordinance? 🗌 Yes 🗌 No  | Unknown. The local official mu   | st certify this info   | mation in Section   | 1 G.   |  |
| SECTIO   | N F PROPERTY OWNER (O  | ROWNER'S R   | EPRESENTAT  | IVE) CERTIFICA   | TION   |
| The property owner or owner's autho<br>or Zone AO must sign here. The state  | rized representative who complete<br>ements in Sections A, B, and E are  | s Sections A, B, a<br>correct to the be  | nd E for Zone A<br>st of my knowledg  | (without a FEMA-is<br>ge.  | sued or community-issued BFE)  |
| Property Owner's or Owner's Authori  | zed Representative's Name  |  | ······  |  |  |
| dress  |  | City   |   | State  | ZIP Code   |
| Signature  |  | Date   |   | Telephone  |  |
| Comments   | - <u>»</u>   |  |   |  |  |
|  |  |  |   |  |  |
|  |  |  |   |  |  |
|  |  | ·  |   |  | Check here if attachmen  |
| ·  | SECTION G - COMM   | JNITY INFORM   |   | NAL)   | Check here if attachmer  |
| he local official who is authorized by la<br>this Elevation Certificate. Complete th   | SECTION G – COMMU<br>w or ordinance to administer the co<br>the applicable item(s) and sign below  | JNITY INFORM<br>mmunity's floodpl<br>, Check the meas  | ATION (OPTIC<br>ain management of<br>urement used in I  | <b>DNAL)</b><br>ordinance can comp<br>terns G8–G10. In F   | Dete Sections A, B, C (or E), and ure to Rico only, enter meters.  |
| he local official who is authorized by la<br>this Elevation Certificate. Complete th<br>1 The information in Section C<br>is authorized by law to certifi  | SECTION G – COMMI<br>w or ordinance to administer the co<br>ne applicable item(s) and sign below<br>was taken from other documentat<br>y elevation information. (Indicate th   | <b>JNITY INFORM</b><br>mmunity's floodpla<br>Check the meas<br>ion that has been<br>he source and dat  | ATION (OPTIC<br>ain management of<br>urement used in I<br>signed and seale<br>e of the elevation  | DNAL)<br>ordinance can comp<br>terns G8–G10. In F<br>ed by a licensed su<br>n data in the Comm   | Check here if attachmen<br>blete Sections A, B, C (or E), and C<br>uerto Rico only, enter meters.<br>rveyor, engineer, or architect who<br>ents area below.)   |
| he local official who is authorized by la<br>f this Elevation Certificate. Complete th<br>1. The information in Section C<br>is authorized by law to certifi<br>2. A community official complet  | SECTION G – COMMI<br>w or ordinance to administer the co<br>he applicable item(s) and sign below<br>was taken from other documentat<br>y elevation information. (Indicate th<br>ted Section E for a building located   | JNITY INFORM<br>mmunity's floodpla<br>v. Check the meas<br>ion that has been<br>he source and dat<br>I in Zone A (witho  | ATION (OPTIC<br>ain management of<br>urement used in I<br>signed and seale<br>e of the elevation<br>ut a FEMA-issued  | DNAL)<br>ordinance can comp<br>terns G8–G10. In F<br>ed by a licensed su<br>data in the Comm<br>d or community-iss   | Check here if attachmen<br>blete Sections A, B, C (or E), and C<br>vuerto Rico only, enter meters.<br>rveyor, engineer, or architect who<br>ents area below.)<br>ued BFE) or Zone AO.                                  |
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| he local official who is authorized by la<br>this Elevation Certificate. Complete th<br>1 The information in Section C<br>is authorized by law to certif<br>2 A community official complet<br>3 The following information (Ite<br>G4. Permit Number  | SECTION G – COMMI<br>w or ordinance to administer the co<br>he applicable item(s) and sign below<br>was taken from other documentat<br>y elevation information. (Indicate the<br>ted Section E for a building located<br>ems G4–G10) is provided for comm<br>G5. Date Permit Issued  | JNITY INFORM<br>mmunity's floodpla<br>. Check the meas<br>ion that has been<br>he source and dat<br>I in Zone A (witho<br>nunity floodplain r                              | ATION (OPTIC<br>ain management of<br>urement used in I<br>signed and seak<br>e of the elevation<br>ut a FEMA-issued<br>nanagement purp<br>G6. Date Certif   | DNAL)<br>ordinance can comp<br>tems G8–G10. In F<br>ed by a licensed su<br>h data in the Comm<br>d or community-iss<br>poses.<br>icate Of Compliance   | Check here if attachmer<br>Dete Sections A, B, C (or E), and (<br>uerto Rico only, enter meters.<br>rveyor, engineer, or architect who<br>ents area below.)<br>ued BFE) or Zone AO.<br>Ee/Occupancy Issued             |
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| he local official who is authorized by la<br>f this Elevation Certificate. Complete th<br>authorized by law to certificate authorized by law to certific<br>authorized by law to certific<br>autho | SECTION G – COMMI<br>w or ordinance to administer the co<br>he applicable item(s) and sign below<br>was taken from other documentat<br>y elevation information. (Indicate the<br>ted Section E for a building located<br>ems G4–G10) is provided for comm<br>G5. Date Permit Issued<br>New Construction<br>(including basement) of the building<br>oding at the building site:<br>ion:   | JNITY INFORM<br>mmunity's floodpla<br>. Check the meas<br>ion that has been<br>he source and dat<br>I in Zone A (witho<br>nunity floodplain r<br>] Substantial Imp<br>g:   | ATION (OPTIC<br>ain management of<br>urement used in I<br>signed and seale<br>e of the elevation<br>ut a FEMA-issued<br>nanagement purp<br>G6. Date Certif<br>rovement<br>G6. Date Certif<br>rovement<br>G6. Date Certif<br>rovement<br>G6. Date Certif<br>rovement | DNAL)<br>profinance can completerns G8–G10. In Feed by a licensed sum<br>a data in the Community-isson<br>d or community-isson<br>cate Of Compliance<br>meters Datu<br>meters Datu<br>meters Datu                | Check here if attachmer  Dete Sections A, B, C (or E), and ( Puerto Rico only, enter meters.  rveyor, engineer, or architect who ents area below.)  ued BFE) or Zone AO.  pe/Occupancy Issued  m m m                   |

# Building Photographs See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the correspon                                    | FOR INSURANCE COMPANY USE |                |                      |
|---|---------------------------|----------------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or B<br>102 BEVERLY WAY | Policy Number:            |                |                      |
| y NEPTUNE   | State NJ                  | ZIP Code 07753 | Company NAIC Number: |

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.



## FRONT/WEST SIDE 3/4/14



RONT/EAST SIDE 3/4/14

# Building Photographs Continuation Page

| IMPORTANT: In these spaces, copy the correspondin                                     | FOR INSURANCE COMPANY USE |                |                      |
|---|---------------------------|----------------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Bldg.<br>102 BEVERLY WAY | Policy Number:            |                |                      |
| V NEPTUNE   | State NJ                  | ZIP Code 07753 | Company NAIC Number. |

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.





## **ICC-ES Evaluation Report**

MostWidely Accepted and Trusted

### ESR-2074\*

Reissued December 1, 2012 This report is subject to renewal February 1, 2015.

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

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

### EVALUATIÓN SUBJECT:

SMART VENT<sup>®</sup> AUTOMATIC FOUNDATION FLOOD VENTS: FLOODVENT<sup>™</sup> MODEL #1540-520; FLOODVENT<sup>™</sup> STACKING MODEL #1540-521; SMARTVENT<sup>™</sup> MODEL #1540-510; SMARTVENT<sup>™</sup> STACKING MODEL #1540-511; WOOD WALL FLOOD MODEL #1540-570; WOOD WALL FLOOD OVERHEAD DOOR MODEL #1540-574; FLOODVENT<sup>™</sup> OVERHEAD DOOR MODEL #1540-524; SMARTVENT<sup>™</sup> OVERHEAD DOOR MODEL #1540-514

### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2009 and 2006 International Residential Code<sup>®</sup> (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. The Smart Vent<sup>€</sup> 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<sup>®</sup> AFFVs disengage, then pivot open to allow flow In either direction to equalize water level and hydrostatic A Subsidiary of the International Code Council®

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 ⊯uoyant 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<sup>™</sup> Stacking Model #1540-511 and FloodVENT<sup>™</sup> 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<sup>TM</sup> Model #1540-520, SmartVENT<sup>TM</sup> Model #1540-510, FloodVENT<sup>TM</sup> Overhead Door Model #1540-524, and SmartVENT<sup>TM</sup>, Overhead Door Model #1540-514 units measure  $15^{3}/_{4}$  lipches wide by  $7^{3}/_{4}$  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  $8^{3}/_{4}$  inches high (355.6 by 222.25 mm). The SmartVENT<sup>TM</sup> Stacking Model #1540-511 and FloodVENT<sup>TM</sup> Stacking Model #1540-521 units measure 16 inches wide by 16 inches high (406.4 by 406.4 mm).

#### 3.4 Ventilation:

The SmartVENT<sup>&</sup> Model #1540-510 and SmartVENT<sup>&</sup> Overhead Door Model #1540-514 both have screen covers with <sup>1</sup>/<sub>4</sub>-inch-by-<sup>1</sup>/<sub>4</sub>-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>TM</sup> 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<sup>4</sup> and FloodVENT<sup>74</sup> 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 July 2013

ICC-ES Evaluation Reports are not to be construed as representing aestheties or any other attributes not specifically addressed, nor are they to be construct as an endorsement of the subject of the report or a recommendation for its use. There is an warranty by ICC Evaluation Service, LLC, express or matricel, as to any finding or other matter in this report, or as to any product covered by the report.





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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<sup>®</sup> 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 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>™</sup> Stacking Model #1540-511 and FloodVENT<sup>™</sup> Stacking Model #1540-521 must be Installed with a minimum of one AFFV for every 400 square feet (37.2 m<sup>2</sup>) 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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

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The Smart VENT<sup>®</sup> 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). U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY National Flood Insurance Program

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## **ELEVATION CERTIFICATE**

IMPORTANT: Follow the instructions on pages 1–9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

|   |   |   |  | FOR INSURANCE COMPANY USE                                  |
|---|---|---|--|--|
| A1 Building Owner's Name John C. Antropy and K  |   |   |  | Policy Number  |
| A1. Building Street Address (including Apt., Unit, Suite, and   | IV A. MCGUIFE   | ). Route and Box N  | 0.   | Company NAIC Number:                                       |
| 113 Fairview Place  | -/ ei _iegi, ei ii  | State M   |  |  |
| Neptune   |   | NJ  |  |  |
| Tax Lot 47 in Block 475   | ei Number, Legai De   | scription, etc.)  | ŧ.   | Compliant  |
| A4. Building Use (e.g., Residential, Non-Residential, Addition  | on, Accessory, etc.).   | Residential   |  |  |
| A5. Latitude/Longitude. Lat. <u>Animalan Statistics</u>   | - Long. <u>140.02</u><br>tificate is being use  | d to obtain flood in  |  | Datum. [] NAD 1927 [2] NAD 1983                            |
| A7. Building Diagram Number <u>Z</u>  |   |   |  |  |
| A8. For a building with a crawlspace or enclosure(s):   |   | A9. For a   | building with an at                          | tached garage: N/A   |
| <ul> <li>a) Square footage of crawlspace or enclosure(s)</li> </ul>   | 720   | sqft a)Sg   | uare footage of at                           | tached garage  |
| <li>b) Number of permanent flood openings in the crawlsp<br/>or enclosure(s) within 1.0 foot above adjacent grad</li>   | bace 6  | b) N<br>wi  | umber of permaner<br>thin 1.0 foot above     | nt flood openings in the attached garage<br>adjacent grade |
| c) Total net area of flood openings in A8.b   |   | sqin c)To   | tal net area of floo                         | d openings in A9.b sq in                                   |
| d) Engineered flood openings? 🛛 Yes 📋 No  |   | d) Ei   | ngineered flood op                           | enings? 📋 Yes 📋 No   |
| SECTION B - FLOC  |   |   | M) INFORMATIO                                | )N   |
| Township Of Neptune 340317  | Monmo   | uth County  |  | NJ   |
| B4. Map/Panel Number   B5. Suffix   B6. FIRM Index  | Date B7. FIRM   | Panel Effective/  | B8. Flood Zone(s                             | )   B9. Base Flood Elevation(s) (Zone                      |
| 2402500222 5 000500   | Revis   | sed Date  |  | AO, use base flood depth)                                  |
| P10 Indicate the source of the Page Flood Elevation (PEE) d   |   | arth optored in iter  |  | 9  |
| ☐ FIS Profile   | Other/Source  | e:  |  |  |
| B11. Indicate elevation datum used for BFE in Item B9:  | NGVD 1929   | X NAVD 1988   | Other/Source                                 |  |
| B12. Is the building located in a Coastal Barrier Resources S   | System (CBRS) area  | or Otherwise Prote  | ected Area (OPA)?                            | 🗌 Yes 🛛 No   |
| Designation Date:// CBF   |   |   |  |  |
|   |   |   |  |  |
| <ul> <li>C1. Building elevations are based on: Construction *A new Elevation Certificate will be required when cons</li> <li>C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V: C2.a–h below according to the building diagram specific</li> </ul> | n Drawings* [<br>truction of the build<br>L–V30, V (with BFE),<br>ed in Item A7. In Pue | ] Building Under Co<br>ing is complete.<br>AR, AR/A, AR/AE,<br>erto Rico only, ente | onstruction*<br>AR/A1–A30, AR/A<br>r meters. | Inished Construction                                       |
| Benchmark Utilized: <u>GPS Opus</u>   | V   | ertical Datum: <u>NA</u>  | VD 1988                                      |  |
| Indicate elevation datum used for the elevations in item<br>Datum used for building elevations must be the same a   | ns a) through h) belo<br>is that used for the   | w. 🗌 NGVD 1929<br>BFE.  | Ø ⊠NAVD 1988                                 | Other/Source:  |
| a) Tap of bottom floor (including bacoment, argulance)  | or opologuro floor)   | 65  | Check the me                                 |  |
| <ul> <li>a) Top of bottom hoor (including basement, crawispace,</li> <li>b) Top of the port bidbor floor.</li> </ul>  | or enclosure hoor)  | 15 2  | ⊠ teet                                       |  |
| c) Bottom of the lowest horizontal structural member ()   |   | <u>NA</u>   |  |  |
| d) Attached garage (top of slab)  | Zones only  |   | ,eet   |  |
| <ul> <li>e) Lowest elevation of machinery or equipment servicin</li> </ul>  | g the building  | 15 2  | X feet                                       | meters   |
| (Describe type of equipment and location in Commer  | its)  | c 1   |  |  |
| f) Lowest adjacent (finished) grade next to building (LA  | G)  | <u> </u>  | X feet                                       |  |
| <ul> <li>g) Highest adjacent (finished) grade next to building (HA</li> <li>h) Lowest adjacent grade at lowest elevation of deck or<br/>structural support</li> </ul>   | (G)<br>stairs, including  | <u> </u>  | X feet                                       | meters   |
| SECTION D - SURVE   | YOR. ENGINEER   | OR ARCHITEC   | T CERTIFICATIO                               | ON   |
| bis certification is to be signed and sealed by a land surveyor   | engineer or archit  | ect authorized by la  | w to certify elevati                         | ion  |
| nformation. I certify that the information on this Certificate rep<br>understand that any false statement may be punishable by fin  | resents my best effo<br>e or imprisonment u   | rts to interpret the<br>nder 18 U.S. Code,  | data available.<br>Section 1001.             |  |
| Check here if comments are provided on back of form.<br>Check here if attachments.  | Were latitude and<br>licensed land surve  | longitude in Sectio<br>eyor? 🛛 Yes  | n A provided by a                            | ar da -  |
| Certifier's Name<br>Michael J. Williams   |   | License Nu<br>NJ Gs2  | <sup>mber</sup>                              |  |
|   | Company Name<br>Michael J. Willia   | ams Land Survey   | ring, LLC                                    |  |
| Address<br>56 Main Avenue   | City<br>Ocean Grove   | State<br>NJ   | ZIP Code<br>07756                            |  |
| Signature   | Date<br>03/05/2014  | Telephone<br>(732) 988  | -6440  |  |

FEMA Form 086-0-33 (Revised 7/12)

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Replaces all previous editions.

|   | c spaces, copy the con  | esponding information  | from Section A  | :   |   | Ī  | OR INSURANCE   | E COMPANY USE   |
|---|---|--|---|---|---|--|--|---|
| Building Street Addre   | ss (including Apt., Unit.   | Suite, and/or Bldg. No   | ) or PO. Route a  | nd Box No.  | <u> </u>  |  | Policy Number:   |   |
| City  |   | State  | e ZIF   | . Code  |   | 1  | Company NAIC Nu  | mber  |
| Neptune   |   | NJ   | 0   | 7753  |   |  |  |   |
|   | SECTION D   | SURVEYOR, ENGIN  | EER, OR ARC   | HITECT CE   | RTIFICA   | TION (CO   | NTINUED)   |   |
| Copy both sides of th   | is Elevation Certificate  | for (1) community offic  | ial, (2) insurance  | agent/com   | oany, and (3  | 3) building o  | owner.   |   |
| Comments There is<br>800 squ  | a detached 172 squ<br>are teet. SmartVent I   | are foot garage with<br>Nodel No. 1540-510.  | a floor elevati   | on of 5.9 fe  | et with (4  | ) enginee  | red vents rate   | d to cover a tota   |
|   |   |  | · · · · ·   |   |   |  |  |   |
| Signature   | inter at 1  | Jahren   |   | ate 3/c   | 05/Za   | <del>п</del> 4   |  | ······································  |
| SECTION E -   | BUILDING EVEVATIO   | N INFORMATION (  | SURVEY NOT  | REQUIRED  | ) FOR Z   | ONE AO A   | ND ZONE A  | (WITHOUT BFE  |
| For Zones AO and A (<br>For Items E1-E4, use<br>E1. Provide elevation   | without BFE), complete<br>natural grade, if availal<br>information for the follo  | tems E1E5. If the Ce<br>ble. Check the measure<br>wing and check the ap  | rtificate is intend<br>ement used. In F<br>propriate boxes  | led to suppo<br>uerto Rico o<br>to show whe   | rt a LOMA<br>nly, enter m<br>ther the ele   | or LOMR-Fi<br>neters.<br>evation is a  | request, comple<br>bove or below t   | te Sections A, B,a  |
| grade (HAG) and t   | he lowest adjacent grad   | je (LAG).<br>Na crawlanace, or enclo   | -<br>Sure) is   |   |   |  |  |   |
| b) Top of bottom f  | loor (including basemer   | it, crawlspace, or endo  | usure) is   |   | feet  |  |  | below the LAG   |
| 2. For Building Diagr   | ams 6-9 with permane  | nt flood openings provid   | ded in Section A  | Items 8 and   | /or 9 (see  | pages 8–9  | of Instructions  |   |
| the next higher flo   | or (elevation C2.b in th  | e diagrams) of the buil  | ding is   |   | , e (   | □ meters   | above or   | "<br>Delow the HAC  |
| 3. Attached garage (  | top of slab) is   | J, I   |   |   | □feet   | meters   | above or   | below the HAC   |
| 4 Top of platform of  | machinery and /or equi  | oment servicing the hu   | uilding is  |   | □ feet  |  | above or   | L below the HAC   |
| 5. Zone AO only: If n<br>ordinance? [] Yes  | o flood depth number is<br>No Unknow  | available, is the top o<br>n. The local official mu  | f the bottom floo<br>Ist certify this in  | r elevated in<br>formation In   | accordanc<br>Section G.   | e with the o   | community's flo  | odplain manageme  |
|   | SECTION F - I   | ROPERTY OWNER  | OR OWNER  | S REPRES  | ENTATIV   | E) CERTI   | ICATION  |   |
| he property owner or  | owner's authorized ren  | resentative who compl  | etes Sections A   | B and E for   | Zone & (wi  | thout a FEN  |  | mmunity issued BF   |
| one AO must sign he   | ere. The statements in S  | Sections A, B, and E ar  | e correct to the t  | best of my kr   | nowledge.   |  |  | minunity-issued bi  |
| Property Owner or Ow  | ner's Authorized Repres   | entative's Name  | ·   | <u>_</u>  |   |  |  |   |
| Address   |   |  | c   | ity   |   | State  | ZIP C  | ode   |
|   |   |  |   |   |   |  |  |   |
| Signature   |   |  | D   | ate   |   | Telep  | hone   |   |
| Signature   |   |  |   | ate   |   | Telep  | hone   |   |
| Signature   |   |  |   | ate   |   | Telep  | hone   |   |
| Signature   |   |  | . D   | ate   |   | Telep  | uhone<br>□ Chec  | k here If attachmer   |
| Signature<br>Comments   |   | SECTION G – COM  | D<br>IMUNITY INFO   | ate   | (OPTION   | Telep  | nhone  | k here If attachmer   |
| Signature<br>Comments<br>he local official who is<br>S of this Elevation Cer<br>S1. The informat<br>who is autho  | s authorized by law or or<br>tificate. Complete the ap<br>ion in Section C was ta<br>rized by law to certify e  | SECTION G – COIV<br>dinance to administer ti<br>pplicable item(s) and sig<br>ken from other docum<br>levation information. (l  | D<br>IMUNITY INFO<br>he community's f<br>gn below. Check f<br>entation that ha<br>Indicate the sou  | DRMATION<br>DOODDAIN MAI<br>he measurer<br>s been signe<br>rce and date   | (OPTION<br>nagement c<br>nent used I<br>ed and sea<br>of the elev   | Telep<br>TAL)<br>ordinance ca<br>n Items G8<br>led by a lic<br>vation data   | an complete Sec<br>G10. In Puerto<br>ensed surveyor<br>in the Comme  | k here If attachmer<br>tions A, B, C (or E),<br>Rico only, enter me<br>, engineer, or arch<br>ns area below.)                                 |
| Signature<br>Comments<br>The local official who is<br>G of this Elevation Cer<br>S1. The informat<br>who is autho<br>S2. A community  | s authorized by law or or<br>tificate. Complete the ap<br>ion in Section C was ta<br>rized by law to certify e<br>official completed Sect   | SECTION G – COIV<br>dinance to administer ti<br>plicable item(s) and sig<br>ken from other docum<br>levation information. (I<br>ion E for a building loca  | D<br>IMUNITY INFO<br>he community's f<br>gn below. Check the<br>entation that ha<br>Indicate the sou<br>ated in Zone A (v   | DRMATION<br>DOODDAIN MA<br>No ODDAIN MA<br>No MATION<br>No MATION<br>No MATION<br>S been signe<br>s been s been s<br>s been s been s<br>s been s<br>s been s been s<br>s s<br>s been s<br>s s<br>s s<br>s been s<br>s s<br>s s<br>s s<br>s s<br>s s<br>s s<br>s s<br>s s<br>s s   | (OPTION<br>nagement c<br>ment used I<br>ed and sea<br>of the elev<br>IA-issued o  | Telep<br>Telep<br>IAL)<br>ordinance ca<br>n Items G8<br>Ied by a lic<br>vation data<br>or communit   | an complete Sec<br>-G10. In Puerto<br>ensed surveyor<br>in the Commen<br>y-issued BFE) o   | k here If attachmer<br>tions A, B, C (or E),<br>Rico only, enter me<br>, engineer, or arch<br>nts area below.)<br>or Zone AO.                 |
| Signature<br>Comments<br>The local official who is<br>G of this Elevation Cer<br>S1. The informat<br>who is autho<br>G2. A community<br>G3. The following   | s authorized by law or or<br>tificate. Complete the ap<br>ion in Section C was ta<br>rized by law to certify e<br>official completed Sect<br>t information (Items G4  | SECTION G – COIV<br>dinance to administer ti<br>plicable item(s) and sig<br>ken from other docum<br>levation information. (I<br>ion E for a building loca<br>–G10) is provided for o   | IMUNITY INF(<br>he community's f<br>gn below. Check f<br>entation that ha<br>Indicate the sou<br>ated in Zone A (v<br>community flood   | DRMATION<br>DOODPlain ma<br>ine measurer<br>s been signe<br>rce and date<br>vithout a FEN<br>plain manag  | (OPTION<br>nagement c<br>ment used I<br>ed and sea<br>e of the elev<br>iA-issued o<br>ement pur   | Teler<br>TAL)<br>Ordinance ca<br>n Items G8<br>Ied by a lic<br>vation data<br>or communit<br>poses.  | hone Check<br>Check<br>Can complete Sec<br>-G10. In Puerto<br>ensed surveyor<br>in the Commen<br>y-issued BFE) o   | k here If attachmer<br>tions A, B, C (or E),<br>Rico only, enter me<br>, engineer, or arch<br>nts area below.)<br>or Zone AO.                 |
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| Signature<br>Comments<br>The local official who is<br>Gofthis Elevation Cer<br>S1. The informat<br>who is autho<br>S2. A community<br>S3. The following<br>S4. Permit Number<br>S7. This permit has 1<br>S8. Elevation of as-b<br>S9. BFE or (in Zone A<br>S10.Community's des<br>Local Official's Name<br>Community Name<br>Signature<br>Comments  | s authorized by law or or<br>tificate. Complete the ap<br>ion in Section C was ta<br>rized by law to certify e<br>official completed Sect<br>information (Items G4<br>been issued for:<br>luilt lowest floor (includin<br>AO) depth of flooding at<br>sign flood elevation:       | SECTION G – COIV<br>dinance to administer ti<br>pplicable item(s) and sig<br>ken from other docum<br>levation information. ((<br>ion E for a building loca<br>G10) is provided for of<br>G5. Date Permit Issu<br>New Construction [<br>mg basement) of the building site:                          | IMUNITY INF(<br>he community's f<br>gn below. Check 1<br>entation that ha<br>indicate the sou<br>ated in Zone A (v<br>community flood<br>ued<br>Substantial Im<br>ilding:<br>           | ate PRMATION IOODPlain ma IOODPlain ma IOODPlain ma IOODPlain manag IOODPlain   | (OPTION<br>nagement c<br>ment used I<br>ed and sea<br>of the elev<br>MA-issued o<br>ement purp<br>Date Certi<br>Date Certi                  | Telep<br>IAL)<br>ordinance ca<br>n Items G8<br>led by a lic<br>vation data<br>r communit<br>poses.<br>ficate Of Co<br>meters<br>meters<br>meters                     | hone Check C   | k here If attachmer<br>tions A, B, C (or E),<br>Rico only, enter me<br>, engineer, or arch<br>nts area below.)<br>or Zone AO.                 |
| Signature<br>Comments<br>Comments<br>Comments<br>Conthis Elevation Cer<br>St. The informat<br>who is autho<br>S2. A community<br>S3. The following<br>S4. Permit Number<br>S7. This permit has I<br>S8. Elevation of as-b<br>S9. BFE or (in Zone A<br>S10.Community's des<br>cocal Official's Name<br>Community Name<br>Signature<br>Comments   | s authorized by law or or<br>tificate. Complete the ar<br>ion in Section C was ta<br>rized by law to certify e<br>official completed Sect<br>( information (Items G4<br>been issued for: 1 di<br>uilt lowest floor (includin<br>AO) depth of flooding at<br>sign flood elevation: | SECTION G – COIV<br>dinance to administer ti<br>plicable item(s) and sig<br>ken from other docum<br>levation information. (I<br>ion E for a building loca<br>–G10) is provided for of<br>G5. Date Permit Issu<br>vew Construction [<br>g basement) of the building site:                           | IMUNITY INF(<br>he community's f<br>gn below. Check f<br>entation that ha<br>Indicate the sou<br>ated in Zone A (v<br>community flood<br>ued<br>Substantial Im<br>ilding:<br>           | ate PRMATION INCOMPLAINENT INCOMPLAINENTIN  | (OPTION<br>nagement c<br>ment used I<br>ed and sea<br>e of the elev<br>MA-issued o<br>ement pur<br>Date Certi<br>Date Certi<br>feet<br>feet | Telep<br>IAL)<br>ordinance ca<br>n Items G8-<br>led by a lic<br>vation data<br>poses.<br>ficate Of Co<br>meters<br>meters<br>meters                                  | hone Check<br>an complete Sect-G10. In Puerto<br>ensed surveyor<br>in the Commen<br>y-issued BFE) o<br>pompliance/Occu<br>Datum<br>Datum   | k here If attachmer<br>itions A, B, C (or E),<br>Rico only, enter me<br>, engineer, or arch<br>nts area below.)<br>ir Zone AO.                |

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## **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

| IMPORTANT: In these space                            | IMPORTANT: In these spaces, copy the corresponding information from Section A. |   |
|--|--|---|
| Building Street Address (inclu<br>113 Fairview Place | ding Apt., Unit, Suite, and/or Bldg. No.) or PO. Route and Box No.             | Policy Number:                                |
| City<br>Neptune                                      | State ZIP Code<br>NJ 07753   | Company NAIC Number:                          |
| If using the Elevation Cer                           | inficate to obtain NEP flood insurance, affix at least 2 building of           | otographs 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.



FRONT VIEW 3/5/14



FEMA Form 086-0-33 (Revised 7/12)

Replaces all previous editions.

### BUILDING PHOTOGRAPHS Continuation Page

Continuation rag

| IMPORTANT: In these spaces, copy th                            | FOR INSURANCE COMPANY USE |             |                      |
|--|---------------------------|-------------|----------------------|
| Building Street Address (including Apt.,<br>113 Fairview Place | Policy Number:            |             |                      |
| City<br>Neptune  | State ZIP 0<br>NJ 07      | Code<br>/53 | Company NAIC Number: |

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.





FEAR VIEW 3/5/14

LEFT SIDE VIEW 3/5/14

FEMA Form 086-0-33 (Revised 7/12)



## **ICC-ES Evaluation Report**

MostWidely Accepted and Trusted

### ESR-2074\*

Reissued December 1, 2012 This report is subject to renewal February 1, 2015.

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

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

### EVALUATIÓN SUBJECT:

SMART VENT<sup>®</sup> AUTOMATIC FOUNDATION FLOOD VENTS: FLOODVENT<sup>™</sup> MODEL #1540-520; FLOODVENT<sup>™</sup> STACKING MODEL #1540-521; SMARTVENT<sup>™</sup> MODEL #1540-510; SMARTVENT<sup>™</sup> STACKING MODEL #1540-511; WOOD WALL FLOOD MODEL #1540-570; WOOD WALL FLOOD OVERHEAD DOOR MODEL #1540-574; FLOODVENT<sup>™</sup> OVERHEAD DOOR MODEL #1540-524; SMARTVENT<sup>™</sup> OVERHEAD DOOR MODEL #1540-514

### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2009 and 2006 International Residential Code<sup>®</sup> (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. The Smart Vent<sup>€</sup> 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<sup>®</sup> AFFVs disengage, then pivot open to allow flow In either direction to equalize water level and hydrostatic A Subsidiary of the International Code Council®

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 ⊯uoyant 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<sup>™</sup> Stacking Model #1540-511 and FloodVENT<sup>™</sup> 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<sup>TM</sup> Model #1540-520, SmartVENT<sup>TM</sup> Model #1540-510, FloodVENT<sup>TM</sup> Overhead Door Model #1540-524, and SmartVENT<sup>TM</sup>, Overhead Door Model #1540-514 units measure  $15^{3}/_{4}$  lipches wide by  $7^{3}/_{4}$  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  $8^{3}/_{4}$  inches high (355.6 by 222.25 mm). The SmartVENT<sup>TM</sup> Stacking Model #1540-511 and FloodVENT<sup>TM</sup> Stacking Model #1540-521 units measure 16 inches wide by 16 inches high (406.4 by 406.4 mm).

#### 3.4 Ventilation:

The SmartVENT<sup>&</sup> Model #1540-510 and SmartVENT<sup>\*</sup> Overhead Door Model #1540-514 both have screen covers with <sup>1</sup>/<sub>4</sub>-inch-by-<sup>1</sup>/<sub>4</sub>-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>\*</sup> 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<sup>4</sup> and FloodVENT<sup>74</sup> 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 July 2013

ICC-ES Evaluation Reports are not to be construed as representing aestheties or any other attributes not specifically addressed, nor are they to be construct as an endorsement of the subject of the report or a recommendation for its use. There is an warranty by ICC Evaluation Service, LLC, express or matricel, as to any finding or other matter in this report, or as to any product covered by the report.



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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<sup>®</sup> 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 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>™</sup> Stacking Model #1540-511 and FloodVENT<sup>™</sup> Stacking Model #1540-521 must be Installed with a minimum of one AFFV for every 400 square feet (37.2 m<sup>2</sup>) 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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

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The Smart VENT<sup>®</sup> 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). .

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## **ELEVATION CERTIFICATE**

IMPORTANT: Follow the instructions on pages 1-9.

0MB No. 1660-0008 Expiration Date: July 31, 2015

| SECTION A – PROPERTY INFORMATION   |   |                    |                     |                                  |                                 |             | FOR INSURANCE COMPANY USE |                      |           |                                       |              |
|--|---|--------------------|---------------------|----------------------------------|---------------------------------|-------------|---------------------------|----------------------|-----------|---------------------------------------|--------------|
| A1. Building Owner's Name KELLY ARMADA   |   |                    |                     |                                  |                                 | 1           | Policy Number:            |                      |           |                                       |              |
| A2.  | <ol> <li>Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or PO. Route and Box No.</li> <li>207 NORTH RIVERSIDE DRIVE</li> </ol>   |                    |                     |                                  |                                 |             | ĺ                         | Company NAIC Number: |           |                                       |              |
|  | City NEPTUNE TOWNSHIP State NJ ZIP Code 07753   |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
| АЗ,  | 3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)<br>TAX MAP_LOT_1386 BLOCK_502.01  |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
| A4.<br>A5.<br>A6.<br>A7.<br>A8.  | A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)       RESIDENTIAL  |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
|  |   | SEC                | ION B - FLOOI       | D INSUR                          |                                 | IAP (F      | IRM) INF                  | ORMATIO              | N         |                                       |              |
| 81. 1  |   |                    | lumber              | Ę                                | 32. County Name                 | ;           |                           | ·                    |           | B3. State                             |              |
| B4. N  | Map/Panel Number  | B5. Suffix         | B6. FIRM Index I    | Date E                           | B7. FIRM Panel E                | ffective    | / B8. F                   | lood Zone(s)         | B9. Bas   | Flood Elevat                          | ion(s) (Zone |
| :  | 34025C0333  | G                  | 01/31/201           | 4                                | 01/31/20                        | 14          | ст.<br>                   | AE                   | A0,       | 11 11                                 | uepti)       |
| B10.   | Indicate the source o $\Box$ FIS Profile $\mathbf{X}$ FI  | f the Base Flood   | Elevation (BFE) da  | ta or base                       | e flood depth ent<br>er/Source: | ered in I   | tem B9:                   |                      |           |                                       |              |
| B11.   | Indicate elevation dat  | tum used for BFE   | in Item B9:         | ] NGVD 1                         | 929 🔀 NAV                       | D 1988      | □ 0t                      | her/Source:          |           |                                       |              |
| B12.   | Is the building locate  | d in a Coastal Ba  | rier Resources Sy   | /stem (CBI                       | RS) area or Othe                | rwise Pr    | otected Ar                | rea (OPA)?           | 🗌 Yes     | 🗙 No                                  |              |
|  | Designation Date:   | //                 |                     | S 🗌                              | OPA                             |             |                           |                      | · · ·     | <u> </u>                              |              |
|  |   | SECTIO             | N C – BUILDIN       | g eleva                          | TION INFORM                     | IATION      | (SURVE                    | Y REQUIR             | ED)       |                                       |              |
| C1.  | C1. Building elevations are based on:  Construction Drawings*  Building Under Construction*  Finished Construction Finished Construction  |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
| C2. I  | 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. |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
| 1  | Indicate elevation dat  | tum used for the e | elevations in items | s a) throug                      | h h) below.                     | NGVD 19     | 929 🕅 N                   | AVD 1988 (           | Other/So  | ource:                                |              |
| [  | Datum used for buildi   | ing elevations mu  | st be the same as   | s that used                      | for the BFE.                    |             | c                         | heck the me          | asurement | used.                                 |              |
| a) Top of bottom floor (including basement, crawlspace, or end                       |   |                    | or enclosu          | re floor)                        | <u>15 . 1</u>                   | 5           | 🔀 feet                    | _ meter              | s         |                                       |              |
| b) Top of the next higher floor  |   |                    | 7                   |                                  | <u>24</u> . <u>5</u><br>1/4     | +/-         | X feet                    | 🗋 meter              | S         |                                       |              |
| <ul> <li>d) Attached garage (top of slab)</li> </ul>                                 |   |                    | Zones on            | y) <u> </u>                      | <u>"A</u><br>I/A                |             | ∐ feet                    | ☐ meter              | S         |                                       |              |
| e  | e) Lowest elevation of machinery or equipment servicing the building  |                    |                     |                                  | ng                              | 15 1        | 5                         | <b>X</b> feet        | meter     | s<br>S                                |              |
| f  | ) Lowest adjacent (f  | inished) grade ne  | ation in commen     | i)                               |                                 | <u>5</u> .0 |                           | 🔀 feet               | □ meter   | s                                     |              |
| Ę  | g) Highest adjacent (finished) grade next to building (HAG)   |                    |                     | G.)                              |                                 | <u>5,6</u>  |                           | 🔀 feet               | 🛄 meter   | s                                     |              |
| ł  | <ol> <li>Lowest adjacent gi<br/>structural support</li> </ol>   | rade at lowest ele | vation of deck or   | stairs, inc                      | luding                          | <u>5.0</u>  |                           | 🔀 feet               | 🗌 meter   | s                                     |              |
|  |   | SECTI              | ON D - SURVE        | YOR, EN                          | GINEER, OR A                    | RCHIT       | ECT CEF                   | RTIFICATIO           | N         | · · · · · · · · · · · · · · · · · · · |              |
| This ce  | This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation   |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
| informa<br>under   | nformation. I certify that the information on this Certificate represents my best efforts to interpret the data available.<br>understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.   |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
| X Cheo   | Check here if comments are provided on back of form.Were latitude and longitude in Section A provided by aCheck here if attachments.licensed land surveyor?X Yes  |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
| Certifie<br>PAUL   | Certifier's Name License Number<br>PAUL K. LYNCH LS GS 35855  |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
| Title<br>LAND SURVEYOR   |   |                    |                     | Company Name<br>PAUL K. LYNCH LS |                                 |             |                           |                      |           | ۰.                                    |              |
| Address<br>P.O. BOX 1453   |   |                    | City<br>WALL        |                                  | State<br>NJ                     |             | ZIP Code<br>07719         |                      |           |                                       |              |
| Signature         Date         Telephone           06/06/2014         (732) 681-4035 |   |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |
|  | · Vauce   |                    |                     |                                  |                                 |             |                           |                      |           |                                       |              |

FEMA Form 086-0-33 (7/12)

See reverse side for continuation.

Replaces all previous editions.

| IMPORTANT: In these spaces, copy the corres   |                                     | FOR INSURANCE COMPANY USE |                  |                 |                                       |  |  |  |
|---|-------------------------------------|---------------------------|------------------|-----------------|---------------------------------------|--|--|--|
| Building Street Address (including Apt., Unit, Su<br>207 NORTH RIVERSIDE DRIVE  |                                     | Policy Number:            |                  |                 |                                       |  |  |  |
| City  | State                               | ZIP Code                  |                  | Company NAIC N  | lumber:                               |  |  |  |
| NEPTUNE TOWNSHIP  | NJ                                  | 07753                     |                  | · ·             | · · · · · · · · · · · · · · · · · · · |  |  |  |
| SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)  |                                     |                           |                  |                 |                                       |  |  |  |
| Copy both sides of this Elevation Certificate for   | (1) community official, (2) insurar | nce agent/compan          | y, and (3) build | ing owner.      |                                       |  |  |  |
| Comments A8a AREA OF HOUSE FRAMING IS APPROX. 1100 s.f.<br>C2e ELEVATION SHOWN IS BOTTOM OF FURNACE ON FIRST FLOOR  |                                     |                           |                  |                 |                                       |  |  |  |
| Signature fauther   |                                     | Date 06/06/20             | 14               | ·····           |                                       |  |  |  |
| SECTION E – BUILDING ELEVATION  | INFORMATION (SURVEY NO              | OT REQUIRED)              | FOR ZONE A       | O 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, o   | crawlspace, or enclosure) is 👘 🔄    |                           | 🛄 feet 🛄 me      | eters 🛄 above o | r 🔲 below the HAG.                    |  |  |  |
| b) Top of bottom floor (including basement, o   | crawlspace, or enclosure) is        |                           | □ feet □ me      | eters 🛛 above o | r 🗌 below the LAG.                    |  |  |  |
| E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions),   |                                     |                           |                  |                 |                                       |  |  |  |
| the next higher floor (elevation C2.b in the d  | iagrams) of the building is         | ·                         | □feet □me        | eters 🗌 above o | r 🗌 below the HAG.                    |  |  |  |
| E3. Attached garage (top of slab) is  | ·                                   |                           | 🗍 feet 🗌 me      | eters 🗌 above o | r 🔲 below the HAG.                    |  |  |  |
| E4. Top of platform of machinery and/or equipm  | ent servicing the building is       | ·······                   | ☐ feet ☐ me      | eters 🗆 above o | r 🗆 below the HAG.                    |  |  |  |
| 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  |                                     |                           |                  |                 |                                       |  |  |  |

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

Check here if attachments.

### SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

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–G9) is provided for community floodplain management purposes.

| G4. Permit Number  | G5. Date Permit Issued  | G6.               | G6. Date Certificate Of Compliance/Occupancy Issued |                                  |                         |  |  |
|--|---|-------------------|---|----------------------------------|-------------------------|--|--|
| G7. This permit has been issued for: $\Box$ N G8. Elevation of as-built lowest floor (includin G9. BFE or (in Zone AO) depth of flooding at t G10. Community's design flood elevation: | ew Construction 🛛 Substa<br>g basement) of the building:<br>he building site: | ntial Improvement | □ feet<br>□ feet<br>□ feet                          | □ meters<br>□ meters<br>□ meters | Datum<br>Datum<br>Datum |  |  |
| Local Official's Name Title  |   |                   |   |                                  |                         |  |  |
| Community Name   |   | Telephone         |   |                                  |                         |  |  |
| Signature  |   | Date              |   |                                  |                         |  |  |
| Comments   |   |                   |   |                                  |                         |  |  |

Check here if attachments.
## **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the corre                                    | FOR INSURANCE COMPANY USE  |                   |                      |  |
|---|--|-------------------|----------------------|--|
| Building Street Address (including Apt., Unit, S<br>207 NORTH RIVERSIDE DRIVE | Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or PO. Route and Box No. 207 NORTH RIVERSIDE DRIVE |                   |                      |  |
| City<br>NEPTUNE TOWNSHIP  | State<br>NJ  | ZIP Code<br>07753 | Company NAIC Number: |  |

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.



U.S. DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY

National Flood Insurance Program

8

## **ELEVATION CERTIFICATE**

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

|   |   | SEC   | TION A  | - PROPERTY INF  | ORMA   | TION  | FOR IN   | SURANCE COMPANY USE   |
|---|---|---|---|---|--|---|--|---|
| A1. Building Owner's Name James A. & Terrilyn Stowe Poli  |   |   |   |   |  | Policy N  | lumber:  |   |
| A2. Building Street Address<br>36 Waterview Court   | (including Apt.,  | Unit, Suite, and/or   | Bldg. No  | o.) or P.O. Route and   | Box No   | ·   | Compai   | ny NAIC Number  |
| City Neptune  |   |   |   | State NJ ZIP C  | Code 07  | 753   |  |   |
| A3. Property Description (Lo<br>Lot 8 Block 552   | t and Block Nu  | mbers, Tax Parcel   | Number,   | , Legal Description, e  | t <b>c</b> .)  |   |  |   |
| <ul> <li>A4. Building Use (e.g., Resid</li> <li>A5. Latitude/Longitude: Lat.</li> <li>A6. Attach at least 2 photogit</li> <li>A7. Building Diagram Number</li> <li>A8. For a building with a craation of the second second</li></ul> | dential, Non-Re<br>N 40° 11' 26:34<br>aphs of the bui<br>er 7<br>wispace or enc<br>awispace or enc<br>awispace or en<br>the flood opening<br>n 1.0 foot above<br>d openings in A<br>enings? | sidential, Addition,<br><u>Long. W 74° 01</u><br>Iding if the Certificat<br>Iosure(s):<br>closure(s)<br>gs in the crawlspace<br>adjacent grade<br>A8.b<br>Yes 		No<br><b>TION B - FLOOD</b> | Accesso<br>' <u>39.78"</u><br>Inte is bein<br>7 <u>32</u><br>e<br><u>4</u><br>800 | ory, etc.) <u>Residential</u><br>ng used to obtain floo<br>A9.<br>sq ft<br>sq in<br><b>RANCE RATE MAF</b>   | d insura<br>For a bu<br>a) Squ<br>b) Nun<br>with<br>c) Tota<br>d) Eng<br>P (FIRM | Horizontal Datum:<br>ince.<br>are footage of attact<br>ber of permanent i<br>in 1.0 foot above a<br>al net area of flood open<br>ineered flood open | NA<br>ched gar<br>ched gar<br>flood op<br>djacent<br>opening:<br>ings?                                     | AD 1927 X NAD 1983<br>age:<br>age <u>565</u> sq ft<br>enings in the attached garage<br>grade <u>3</u><br>s in A9.b <u>600</u> sq in<br>X Yes No |
|   |   |   |   |   |  | /   |  |   |
| Township of Neptune / 34031   | Community N   |   | Monmo   | outh County   | -  |   | NJ   | e   |
| B4. Map/Panel Number<br>34025C0334  | B5. Suffix<br>F   | B6. F1RM Index<br>9/29/2006   | Date  | B7. FIRM Panel<br>Effective/Revised D<br>9/29/2006  | Date   | B8. Flood<br>Zone(s)<br>AE  | B9. (  | Base Flood Elevation(s) (Zone<br>AO, use base flood depth)<br>9.0'  |
| 310. 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:         311. Indicate elevation datum used for BFE in Item B9:       □ NGVD 1929       ☑ NAVD 1988       □ Other/Source:         312. Is the building located in a Coastal Barrier Resources System       (CBRS) area or Otherwise Protected Area (OPA)?       □ Yes       ☑ No         Designation Date:        □ OPA       □       □       □  |   |   |   |   |  |   |  |   |
|   | SECTIO  | N C – BUILDING  | ELEV  | ATION INFORMAT  | ION (S   |   | ED)  | • • • • • • • • • • • • • • • • • • •   |
| <ol> <li>Building elevations are ba<br/>*A new Elevation Certifica</li> <li>Elevations – Zones A1–A:<br/>below according to the bu<br/>Benchmark Utilized: <u>Smar</u><br/>Indicate elevation datum to<br/>Datum used for building elevation</li> </ol>   | sed on:<br>te will be requir<br>30, AE, AH, A (<br>ilding diagram<br><u>t Net</u><br>used for the ele<br>levations must   | Construction D red when construct with BFE), VE, V1- specified in Item A vations in items a) be the same as this  | rawings*<br>ion of the<br>-V30, V (<br>7. In Pue<br>Verti<br>through l            | ■ Building<br>e building is complete<br>(with BFE), AR, AR/A<br>into Rico only, enter m<br>ical Datum: <u>NAVD 88</u><br>h) below. □ NGVD 1                 | 9 Under<br>, AR/AE<br>neters.<br>3<br>1929 ⊠                                     | Construction*<br>, AR/A1-A30, AR/A<br>NAVD 1988 □ Ot  | ⊠ Fi<br>\H, AR//<br>her/Sou  | nished Construction<br>AO. Complete Items C2.a-h<br>rce:  |
| Datam used for building e   |   |   |   |   |  | Check   | the mea  | surement used.  |
| <ul> <li>a) Top of bottom floor (inc</li> <li>b) Top of the next higher f</li> <li>c) Bottom of the lowest ho</li> <li>d) Attached garage (top of</li> <li>e) Lowest elevation of ma (Describe type of equip</li> </ul>   | luding baseme<br>loor<br>rizontal structu<br>f slab)<br>chinery or equip<br>ment and locat  | nt, crawlspace, or e<br>iral member (V Zon<br>oment servicing the<br>ion in Comments)   | enclosure<br>es only)<br>e building   | e floor)  | <u>CS7.2</u><br>FF13.<br><u>N A</u><br><u>GF6.7</u><br>13.6                      | 2<br>8<br>7<br>1  | <ul> <li>☑ feet</li> <li>☑ feet</li> <li>☑ feet</li> <li>☑ feet</li> <li>☑ feet</li> <li>☑ feet</li> </ul> | meters meters meters meters meters meters meters meters   |
| <ul> <li>c) Lowest adjacent (finish</li> <li>d) Highest adjacent (finish</li> </ul>   | ed) grade next<br>ed) grade next  | to building (LAG)   |   |   | <u>59</u><br>66  |   | ⊠ feet   | meters  |
| h) Lowest adjacent grade  | at lowest eleva   | tion of deck or stair   | s, includ   | ling structural support   | <u>5.9</u>   |   | ⊠ feet   |   |
| SECTION D ~ SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION  |   |   |   |   |  |   |  |   |
| This certification is to be signed<br>information. I certify that the in<br>I understand that any false st.<br>Check here if comments<br>Check here if attachmen<br>Certifier's Name Robert Valle<br>Title Land Surveyor  | ed and sealed t<br>nformation on t<br>atement may be<br>are provided o<br>ts.<br>e PLS  | oy a land surveyor,<br>his Certificate repre<br>e punishable by fine<br>n back of form.<br>Company Name   | enginee<br>sents m<br>e or impr<br>Were I<br>license                              | r, or architect authoriz<br>y best efforts to interp<br>isonment under 18 U<br>latitude and longitude<br>ed land surveyor?<br>License Nur<br>Surveying, LLC | zed by la<br>bret the c<br>S. Code<br>in Secti<br>M Yes<br>mber 43               | aw to certify elevation<br>data available.<br>e, Section 1001.<br>on A provided by a<br>s D No<br>3276  | on   | Robert Ul-  |
| Addiess 1910 Commons W  | Ŋ   | City Toms River   |   | State NJ  | ZIPC   | ode 08755   |  |   |
| Signature   | 10  | Date 08/12/15   |   | Telephone   | 732-24   | 4-2373  |  |   |
| The t   |   |   |   |   |  |   |  |   |

| IMPORI AN I: In these spaces, c  | opy the corresponding information fr   | rom Section A.  | FOR  | INSURANCE COMPANY USE  |
|--|--|---|--|--|
| Building Street Address (including Apt.<br>36 Waterview Court  | , Unit, Suite, and/or Bldg. No.) or P.O. Route   | and Box No.   | Polic  | y Number:  |
| City Neptune   | State NJ   | ZIP Code 07753  | Com  | pany NAIC Number   |
| SECTION  | D - SURVEYOR, ENGINEER, OR ARC   | CHITECT CERTIFIC  | ATION (CONTI   | NUED)  |
| Copy both sides of this Elevation Certi  | ficate for (1) community official, (2) insurance   | e agent/company, and (  | 3) building owner  |  |
| Comments The A/C is located at elev<br>BFE=AE10. Decease date 01/31/14***  | =13.6'. Smart vent model number 1540-510<br>This information is to be used for insurance   | (200sq. in) ***Prelim<br>purposes only.   | inary Updated FE   | MA Flood Hazard Data   |
| Kobut UL   |  |   |  |  |
| Signature  | D  | ate 8/12/15   | · · ·  | · · · · · · · · · · · · · · · · · · ·  |
| SECTION E - BUILDING ELE   | VATION INFORMATION (SURVEY NO  | T REQUIRED) FOR   | ZONE AO ANI  | ZONE A (WITHOUT BFE)   |
| For Zones AO and A (without BFE), co<br>and C. For Items E1–E4, use natural c  | omplete Items E1E5. If the Certificate is inte<br>grade. If available, Check the measurement u   | ended to support a LOM<br>used. In Puerto Rico onl  | IA or LOMR-F rec<br>v. enter meters.   | quest, complete Sections A, B,   |
| <ol> <li>Provide elevation information for grade (HAG) and the lowest adja a) Top of bottom floor (including b) Top of bottom floor (including b) Top of bottom floor (including E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams)</li> <li>Attached garage (top of slab) is</li> <li>Top of platform of machinery and</li> <li>Zone AO only: If no flood depth cordinates and the cordina</li></ol> | the following and check the appropriate box<br>icent grade (LAG).<br>basement, crawlspace, or enclosure) is<br>basement, crawlspace, or enclosure) is<br>permanent flood openings provided in Sectio<br>of the building is feet feet<br>feet meters a<br>d/or equipment servicing the building is<br>number is available, is the top of the bottom | es to show whether the<br>feet  <br>feet  <br>n A Items 8 and/or 9 (so<br>meters above or<br>bove or below the<br>feet n<br>floor elevated in accord  | elevation is abov<br>meters abov<br>meters above<br>ee pages 8–9 of I<br>below the HA<br>HAG.<br>meters above<br>lance with the con- | e or below the highest adjacent<br>ove or  below the HAG.<br>ove or  below the LAG.<br>nstructions), the next higher floor<br>G.<br>or  below the HAG.<br>mmunity's floodplain managemen |
| ordinance? 📋 Yes 📋 No 📘  | Unknown. The local official must certify the   | s information in Section  | 1 G.   |  |
| SECTION  | F – PROPERTY OWNER (OR OWNER   | R'S REPRESENTAT   | IVE) CERTIFIC  | ATION  |
| i ne property owner or owner's autnon:<br>or Zone AO must sign here. The stater<br>Property Owner's or Owner's Authorize   | zed representative who completes Sections /<br>ments in Sections A, B, and E are correct to t<br>ed Representative's Name  | A, B, and E for Zone A (<br>he best of my knowled)  |  | issued of community-issued BFE   |
| Address  | City   | <u>a presidente de la construcción de</u><br>La construcción de la construcción d | State  | ZIP Code   |
| Signature  | Date   |   | Telephone  | · · · · ·  |
| Comments   | <u></u>  | <u></u>   | <u> </u>   | <u>an an an</u>   |
|  |  |   |  |  |
|  | ین است.<br>این است از منطق می است که این از مسل است است می است می این این است است است است است است است از این از ا<br>این از است از این این می می این این این این این این این این این ای  |   |  | Check here if attachme   |
| - 1a 1 - 60 - 1 - 1 - 1  | SECTION G - COMMUNITY INF  | ORMATION (OPTIO   | NAL)   |  |
| e local official who is authorized by law<br>this Elevation Certificate. Complete the  | or ordinance to administer the community's the applicable item(s) and sign below. Check the  | measurement used in l   | tems G8-G10. In  | Puerto Rico only, enter meters.  |
| is authorized by law to certify  | elevation information. (Indicate the source a  | nd date of the elevation  | data in the Com  | urveyor, engineer, or architect wi<br>ments area below.)   |
| A community official complete  | d Section E for a building located in Zone A (   | (without a FEMA-issued  | or community-is  | sued BFE) or Zone AO.  |
| 3 I he following information (Iten   | ns G4–G10) is provided for community flood   | plain management purp   | oses.  |  |
| 34. Permit Number  | G5. Date Permit Issued   | G6. Date Certif   | icate Of Compliar  | nce/Occupancy Issued   |
| 7. This permit has been issued for:  | New Construction     Substantia  | al Improvement  |  |  |
| 3. Elevation of as-built lowest floor (in  | cluding basement) of the building:   | [] feet [] 1  | meters Dat   | um   |
| BFE or (in Zone AO) depth of flood   | ling at the building site:   | [] feet 🗌 i   | meters Dat   | um   |
| 10. Community's design flood elevation   | n:   | 🗋 feet 🔲 ı  | meters Dat   | um   |
| ocal Official's Name   |  | Title   | · · · ·  | ···· · · · · · · · · · · · · · · · · ·   |
|  |  | Telephone   |  |  |
| Community Name   |  |   |  |  |
| Community Name<br>Signature  | · · · · · · · · · · · · · · · · · · ·  | Date  |  |  |
| Signature  |  | Date  |  |  |

...

- - -

## **Building Photographs**

See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the correspondin  | FOR INSURANCE COMPANY USE |                |                      |
|--|---------------------------|----------------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Bldg.<br>36 Waterview Court | Policy Number:            |                |                      |
| City Neptune   | State NJ                  | ZIP Code 07753 | Company NAIC Number: |

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.







## What Is My BFE? Address Lookup Tool | FEMA Region II





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# **ICC-ES** Report

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## ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

## DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENT5/FOUNDATION FLOOD VENTS

**REPORT HOLDER:** 

## **SMARTVENT PRODUCTS, INC.**

430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071

## **EVALUATION SUBJECT:**

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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## **ICC-ES Evaluation Report**

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ESR-2074\*

Reissued February 2015

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A Subsidiary of the International Code Council®

This report is subject to renewal February 2017.

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<sup>®</sup> AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

### **1.0 EVALUATION SCOPE**

Compliance with the following codes:

- 2012, 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^{\rm T} {\rm The}~{\rm ADIBC}$  is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

## Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent<sup>®</sup> units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

#### 3.0 DESCRIPTION

#### 3.1 General:

When subjected to rising water, the Smart Vent<sup>®</sup> FVs internal floats are activated, 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 FV 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 door to rotate out of the way and allow flow.

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent<sup>®</sup> Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT<sup>®</sup>Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

## 3.2 Engineered Opening:

The FVs 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 FVs must be installed in accordance with Section 4.0.

## 3.3 Ventilation:

The SmartVENT<sup>®</sup> Model #1540-510 and SmartVENT<sup>®</sup> 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 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>®</sup> 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 FVs recognized in this report do not offer natural ventilation.

### 4.0 DESIGN AND INSTALLATION

SmartVENT<sup>®</sup> and FloodVENT<sup>®</sup> 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 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<sup>®</sup> FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m<sup>2</sup>) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final

\*Revised July 2015

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grade or floor and finished exterior grade immediately under each opening.

## 5.0 CONDITIONS OF USE

The Smart Vent<sup>®</sup> FVs 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<sup>®</sup> FVs 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<sup>®</sup> FVs 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 Mechanically Operated Flood Vents (AC364), dated October 2013 (editorially revised May 2014).

## 7.0 IDENTIFICATION

The Smart VENT<sup>®</sup> 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).

#### MODEL NAME MODEL NUMBER MODEL SIZE (in.) COVERAGE (sq. ft.) 15<sup>3</sup>/4" X 7<sup>3</sup>/4" FloodVENT<sup>®</sup> 1540-520 200 SmartVENT<sup>®</sup> 1540-510 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 200 FloodVENT<sup>®</sup> Overhead Door 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 1540-524 200 SmartVENT<sup>®</sup> Overhead Door 1540-514 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 200 Wood Wall FloodVENT<sup>®</sup> 14" X 8<sup>3</sup>/4" 200 1540-570 Wood Wall FloodVENT® Overhead Door 14" X 8<sup>3</sup>/4" 1540-574 200 SmartVENT® Stacker 400 1540-511 16" X 16" 16" X 16" 400 FloodVent® Stacker 1540-521

#### TABLE 1-MODEL SIZES

For SI:  $1 \ln ch = 25.4 \text{ mm}$ ;  $1 \text{ square foot} = \text{m}^2$ 

## **ELEVATION CERTIFICATE**

Important: Read the instructions on pages 1-9,

OMB No. 1660-0008 Expiration Date: July 31, 2015

| SECTION A - PROPERTY INFORMATION  | FOR INSURANCE COMPANY USE  |
|---|--|
| A1. Building Owner's Name Michael Pullano   | Policy Number  |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 28 Albany Road  | Company NAIC Number:   |
| City Neptune State NJ ZIP Code 07753  |  |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)<br>Tax Lot 3 Block 557, Neptune Township, Monmouth County, NJ  |  |
| <ul> <li>A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u></li> <li>A5. Latitude/Longitude: Lat. <u>40-11'-29.4"</u> Long. <u>74-01'-36.0"</u> Horizo</li> <li>A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.</li> <li>A7. Building Diagram Number <u>7</u></li> </ul>   | ontal Datum: 🗌 NAD 1927 🛛 NAD 1983   |
| A8. For a building with a crawlspace or enclosure(s):       A9. For a building with a crawlspace or enclosure(s):         a) Square footage of crawlspace or enclosure(s)       1090       sq ft       a) Square foot         b) Number of permanentflood openings in the crawlspace         Tateleaster of float to be added to be a | with an attached garage:<br>tage of attached garage <u>N/A</u> sq ft<br>permanent flood openings in the attached garage<br>not above adjacent grade <u>N/A</u> |
| c) I otal net area of flood openings in A8.b       1200       sq in       c) Total net are         d) Engineered flood openings?       ⊠ Yes       No       d) Engineered   | ea or flood openings in A9.b N/A sq in flood openings? Yes No  |
| SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFO  |  |
| B1. NFIP Community Name & Community Number     B2. County Name       Neptune Township - 340317     Monmouth   | B3. State<br>NJ  |
| B4. Map/Panel Number     B5. Suffix     B6. FIRM Index Date     B7. FIRM Panel     B8       34025C0334     F     9/25/09     Effective/Revised Date     Zo  | AE B9. Base Flood Elevation(s) (Zone<br>AO, use base flood depth)<br>9   |
| B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.   |  |
| B11 Infigate elevation datum used for REE in Itom POL D NOVE 1000   | xr/Source.   |
| B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area<br>Designation Date: OPA   | a (OPA)?  Q Yes  No  |
| SECTION C - BUILDING ELEVATION INFORMATION (SURVEY  | (REQUIRED)   |
| <ul> <li>C1. Building elevations are based on: Construction Drawings* Building Under Construction A new Elevation Certificate will be required when construction of the building is complete.</li> <li>C2. Elevations – Zones A1-A30, AE, AH, A (with BEE), VE, V1–V30, V (with BFE), AR, AR/AE, AR/A1-below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. Benchmark Utilized: <u>GPS-Smartnet</u> Vertical Datum: <u>NAVD88</u></li> </ul>  | ction* I Finished Construction   |
| Indicate elevation datum used for the elevations In items a) through h) below. TNGVD 1929 ANAVD Datum used for building elevations must be the same as that used for the BEF  | 1988 D Other/Source:   |
|   | Check the measurement used.  |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 8.3   | ⊠ feet ☐ meters  |
| c) Bottom of the lowest horizental structural member (V Zones only)   | iteet ∐ 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) <u>8.2</u>   | ⊠ feet ∐ meters  |
| <ul> <li>g) Highest adjacent (finished) grade next to building (HAG)</li> <li><u>8.6</u></li> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 8.3</li> </ul>   | ⊠ feet □ meters<br>⊠ feet □ meters   |
| SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERT   | IFICATION  |
| This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to cer<br>information: I certify that the information on this Certificate represents my best efforts (a interpret the data avail<br>I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section  | tify elevation<br>ilable,<br>n 1001.   |
| ☑       Check here if comments are provided on back of form,       Were latitude and longitude in Section A pro         ☑       Check here if attachments.       licensed land surveyor?       ☑       Yes       □  | vided by a 이 가 관계 전체<br>No 이 이 전체  |
| Certifier's Name John P. Augustine License Number 34838   |  |
| Title Land Surveyor Company Name Gravatt Consulting Group, Inc9766  |  |
| Address 414 Larry Road City Forked River State NJ ZIP Code 0873   | 31 Xm 41   |
| Signature An 1 Arguiture Date 9/2/15 Telephone 609-693-6126 e   | ×t.100   |
| EMA Form 086-0-33 (7/12) See reverse side for continuation.   | Replaces all previous editions   |

| MPORTANT: In these spaces, copy the corresp  | onding information from Section A.  | FOI   | R INSURANCE COMPANY USE.   |
|--|---|---|--|
| Building Street Address (including Apt., Unit, Suite, and/or<br>28 Albany Road   | Bldg. No.) or P.O. Route and Box No,  | Poli  | cy Number:   |
| City Neptune   | State NJ ZIP Code 07  | 753 Cor   | npany NAIC Number:   |
| SECTION D - SURVEYOR   | , ENGINEER, OR ARCHITECT CERT   | FICATION (CONT  | ÎNUED)   |
| opy both sides of this Elevation Certificate for (1) comm  | unity official, (2) insurance agent/company, a  | and (3) building owne   | г.   |
| Comments This certificate certified to the owners in line /<br>oreliminary map 34025C0334G, published 1/31/14 by FEN<br>/ent Model No. 1540-510 (Typ.)/ Utilities: A/C Deck el.=13   | A1 only and is non-transferrable. Property is<br>MA, this is for informational purposes only &<br>8.6; Furnace el.=13.1; W.Heater el.=12.8, El  | located in preliminar<br>subject to verification<br>ec.Mtr.el.=13.9.  | y flood zone AE, elev.≕10, per<br>n by FEMA. Flood vents are Smar  |
| Ah P. Aconstan   |   |   |  |
| ignature   | Date 9/2/15   |   |  |
| SECTION E - BUILDING ELEVATION INFORM  | IATION (SURVEY NOT REQUIRED)  | OR ZONE AO AN   | D ZONE A (WITHOUT BFE)   |
| or Zones AO and A (without BFE), complete Items E1–E<br>and C, For Items E1–E4, use natural grade, if available. C   | 5. If the Certificate is intended to support a<br>beck the measurement used. In Puerto Ric  | LOMA or LOMR-F re   | quest, complete Sections A, B,   |
| <ul> <li>grade (HAG) and the lowest adjacent grade (LAG).</li> <li>a) Top of bottorn floor (including basement, crawlspatch) Top of bottom floor (including basement, crawlspatch) Top of bottom floor (including basement, crawlspatch).</li> <li>For Building Diagrams 6–9 with permanent flood oper (elevation C2.b in the diagrams) of the building is</li> <li>Attached garage (top of slab) is</li> <li>Top of platform of machinery and/or equipment servities. Zone AO only; If no flood depth number is available, ordinance? Yes No</li> </ul>   | ace, or enclosure) is [fe<br>ace, or enclosure) is [fe<br>enings provided in Section A Items 8 and/or<br>[feet ] meters ] above<br>feet ] meters ] above or ] below<br>icing the building is [feet<br>, is the top of the bottom floor elevated in ac<br>cal official must certify this information in Se   | et in meters in ab<br>et in meters in ab<br>9 (see pages 89 of<br>e or in below the H.<br>the HAG.<br>in meters in above<br>cordance with the co<br>ction G.  | ove or  below the HAG. ove or  below the LAG. Iristructions), the next higher floor AG. or  below the HAG, mmunity's floodplain managemen  |
| SECTION F PROPERTY   | OWNER (OR OWNER'S REPRESENT   |   | ATION  |
| Zone AO must sign here. The statements in Sections A,  | B, and E are correct to the best of my know   | ledge.  |  |
| Zone AO must sign here. The statements in Sections A,<br>'operty Owner's or Owner's Authorized Representative's<br>iddress   | B, and E are correct to the best of my know<br>Name<br>City   | vledge.<br>State  | ZIP Code   |
| Zone AO must sign here. The statements in Sections A,<br>roperty Owner's or Owner's Authorized Representative's<br>ddress  | B, and E are correct to the best of my know<br>Name<br>City<br>Date   | tedge.<br>State<br>Telephone  | ZIP Code   |
| r Zone AO must sign here. The statements in Sections A,<br>roperty Owner's or Owner's Authorized Representative's<br>ddress<br>gnature   | B, and E are correct to the best of my know<br>Name<br>City<br>Date   | State<br>Teléphone  | ZIP Code   |
| r Zone AO must sign here. The statements in Sections A,<br>roperty Owner's or Owner's Authorized Representative's<br>ddress<br>gnature   | B, and E are correct to the best of my know<br>Name<br>City<br>Date   | State<br>Telephone  | ZIP Code<br>□ Check here if attachme   |
| r Zone AO must sign here. The statements in Sections A,<br>roperty Owner's or Owner's Authorized Representative's<br>ddress<br>ignature<br>comments  | B, and E are correct to the best of my know<br>Name<br>City<br>Date<br>6 – COMMUNITY INFORMATION (OP  | State<br>Telephone  | ZIP Code   |
| Zone AO must sign here. The statements in Sections A, operty Owner's or Owner's Authorized Representative's ddress gnature Domments  | B, and E are correct to the best of my know<br>Name<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>City<br>Date<br>City<br>City<br>Date<br>City<br>City<br>City<br>City<br>City<br>City<br>City<br>City | State<br>State<br>Telephone<br>TIONAL)<br>nt ordinance can corr<br>in Items GB–G10. In<br>ealed by a licensed su<br>tion data in the Corr<br>ued or community-iss<br>urposes.   | ZIP Code<br><u>Check here if attachme</u><br><u>Check h</u> |
| Zone AO must sign here. The statements in Sections A, operty Owner's or Owner's Authorized Representative's iddress gnature SECTION G local official who is authorized by law or ordinance to admi s Elevation Certificate. Complete the applicable item(s) an The information in Section C was taken from other is authorized by law to certify elevation information. A community official completed Section E for a buil The following information (items G4–G10) is provid Permit Number G5, Date Permit Is  | B, and E are correct to the best of my know<br>Name<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>Community's floodplain management<br>disign below. Check the measurement used<br>documentation that has been signed and se<br>. (Indicate the source and date of the eleval<br>ding located in Zone A (without a FEMA-iss<br>led for community floodplain management p<br>ssued<br>G6. Date Ce   | State<br>Telephone<br>Telephone<br>TIONAL)<br>nt ordinance can com<br>in items GB-G10. In<br>ealed by a licensed su<br>tion data in the Comm<br>ued or community-iss<br>urposes.<br>rtificate Of Complian   | ZIP Code<br><u>Check here if attachme</u><br><u>Check h</u> |
| Zone AO must sign here. The statements in Sections A,     roperty Owner's or Owner's Authorized Representative's     ddress     gnature     SECT(ON G     local official who is authorized by law or ordinance to admi     is Elevation Certificate. Complete the applicable item(s) an     The information in Section C was taken from other     is authorized by law to certify elevation information.     A community official completed Section E for a buil     The following information (items G4–G10) is provid     Permit Number     G5. Date Permit Is     This permit has been issued for:     Including basement) of     BFE or (in Zone AO) depth of flooding at the building site     Community's design flood elevation:  | B, and E are correct to the best of my know         Name         City         Date         B - COMMUNITY INFORMATION (OP)         inister the community's floodplain management         d sign below. Check the measurement used         documentation that has been signed and set.         (Indicate the source and date of the eleval         ding located in Zone A (without a FEMA-isseled for community floodplain management p         ssued       G6. Date Ce         tion       Substantial Improvement         f the building:  | State<br>Teléphóne<br>Teléphóne<br>TIONAL}<br>nt ordinance can com<br>in items GB-G10. In<br>ealed by a licensed su<br>tion data in the Comr<br>ued or community-iss<br>urposes.<br>rtíficate Of Complian<br>meters Datu<br>meters Datu<br>meters Datu  | ZiP Code   |
| Zone AO must sign here. The statements in Sections A, roperty Owner's or Owner's Authorized Representative's  ddress gnature  SECTION G  local official who is authorized by law or ordinance to admi selevation Certificate. Complete the applicable item(s) an  The information in Section C was taken from other is authorized by law to certify elevation information. A community official completed Section E for a buil The following information (Items G4–G10) is provid . Permit Number G5, Date Permit Is This permit has been issued for: Elevation of as-built lowest floor (including basement) of BFE or (in Zone AO) depth of flooding at the building site Community's design flood elevation:  | B, and E are correct to the best of my know<br>Name<br>City<br>Date<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>Community INFORMATION (OP<br>inister the community's floodplain management<br>ad sign below. Check the measurement used<br>documentation that has been signed and set.<br>(Indicate the source and date of the eleval<br>ding located in Zone A (without a FEMA-iss<br>led for community floodplain management p<br>issued<br>C6. Date Ce<br>tion Substantial Improvement<br>is the building: feet [<br>] feet [<br>]  | State<br>Telephone<br>Telephone<br>TIONAL}<br>nt ordinance can com<br>in items GB-G10. In<br>ealed by a licensed su<br>tion data in the Community-iss<br>urposes.<br>rtificate Of Complian<br>meters Datu<br>meters Datu<br>meters Datu   | ZiP Code   |
| Zone AO must sign here, The statements in Sections A,         coperty Owner's or Owner's Authorized Representative's         address         gnature         comments         SECTION G         local official who is authorized by law or ordinance to admiss         clocal official who is authorized by law or ordinance to admiss         Elevation Certificate. Complete the applicable item(s) and         The information in Section C was taken from other         is authorized by law to certify elevation information.         A community official completed Section E for a buil         The following information (items G4–G10) is provid         Permit Number       G5. Date Permit Is         This permit has been issued for:       New Construct         Elevation of as-built lowest floor (including basement) of         BFE or (in Zone AO) depth of flooding at the building site         Community's design flood elevation:         cal Official's Name         mmunity Name | B, and E are correct to the best of my know<br>Name<br>City<br>Date<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>Community INFORMATION (OP<br>Inister the community's floodplain management<br>ad sign below. Check the measurement used<br>documentation that has been signed and set.<br>(Indicate the source and date of the eleva<br>ding located in Zone A (without a FEMA-iss<br>led for community floodplain management p<br>issued<br>G6. Date Ce<br>tion Substantial Improvement<br>i the building: feet [<br>feet [<br>] feet [<br>]  | State<br>Teléphóne<br>Teléphóne<br>TIONAL)<br>nt ordinance can corr<br>in items G8–G10. In<br>ealed by a licensed su<br>tion data in the Comr<br>ued or community-iss<br>urposes.<br>rtificate Of Complian<br>meters Datu<br>meters Datu<br>meters Datu   | ZiP Code  Check here if attachmer  Check here if attachmer  Plete Sections A, B, C (or E), and Puerto Rico only, enter meters.  Inveyor, engineer, or architect wh nents area below.)  Sued BFE) or Zone AO.  Ce/Occupancy Issued  Im Im Im  |
| r Zone AO must sign here. The statements in Sections A,     roperty Owner's or Owner's Authorized Representative's     ddress     ignature     omments     SECTION G     local official who is authorized by law or ordinance to adminis     Elevation Certificate. Complete the applicable item(s) an     The information in Section C was taken from other     is authorized by law to certify elevation information.     A community official completed Section E for a buil     The following information (Items G4–G10) is provid     Permit Number     G5. Date Permit Is     This permit has been issued for:   | B, and E are correct to the best of my know<br>Name<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>City<br>Date<br>Community INFORMATION (OP<br>Inister the community's floodplain management<br>documentation that has been signed and set<br>(Indicate the source and date of the eleva<br>ding located in Zone A (without a FEMA-iss<br>led for community floodplain management p<br>issued<br>G6. Date Ce<br>tion Substantial Improvement<br>f the building:<br>City<br>Title<br>Telephone<br>Date  | State         Telephone         Telephone         Tional         Tional         It ordinance can corr         in Items GB-G10. In         realed by a licensed so         tion data in the Comr         ued or community-iss         urposes.         rtificate Of Complian         meters       Data         meters       Data         meters       Data | ZIP Code   |
| Zone AO must sign here. The statements in Sections A,     roperty Owner's or Owner's Authorized Representative's     ddress     gnature     SECTION G     local official who is authorized by law or ordinance to admi     selevation Certificate. Complete the applicable item(s) an     The information in Section C was taken from other     is authorized by law to certify elevation information.     A community official completed Section E for a buil     The following information (Items G4–G10) is provid     Permit Number     G5, Date Permit Is     This permit has been issued for:     In Zone AO) depth of flooding at the building site     Community's design flood elevation:     al Official's Name     nmunity Name     nature  | B, and E are correct to the best of my know<br>Name<br>City<br>Date<br>G - COMMUNITY INFORMATION (OP<br>inister the community's floodplain management<br>d sign below. Check the measurement used<br>documentation that has been signed and set<br>. (Indicate the source and date of the eleval<br>ding located in Zone A (without a FEMA-iss<br>led for community floodplain management p<br>ssued G6. Date Cet<br>tion Substantial Improvement<br>f the building: feet [<br>Title<br>Telephone<br>Date   | State<br>Teléphóne<br>Teléphóne<br>(IONAL)<br>nt ordinance can com<br>in items GB-G10. In<br>ealed by a licensed su<br>tion data in the Comr<br>ued or community-iss<br>urposes.<br>rtíficate Of Complian<br>meters Datu<br>meters Datu<br>meters Datu  | ZiP Code   |

-

# Building Photographs See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the correspond                                    | FOR INSURANCE COMPANY USE |                |                      |
|--|---------------------------|----------------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Bld<br>28 Albany Road | lg. No.) or P.O. Route a  | and Box No.    | Policy Number        |
| City Neptune   | State NJ                  | ZIP Code 07753 | Compary NAIC Number: |

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.



FEMA Form 086 0-33 (7/12)

# Building Photographs Continuation Page

| IMPORTANT: In these spaces, copy the corresponding information                                    | FOR INSURANCE COMPANY USE |                      |
|---|---------------------------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Re 28 Albany Road | ute and Box No.           | Policy Number:       |
| City Neptune State N.   | ZIP Code 07753            | Company NAIC Number: |

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.







Most Widely Accepted and Trusted

# **ICC-ES** Report

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

## ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

## DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENT5/FOUNDATION FLOOD VENTS

**REPORT HOLDER:** 

## **SMARTVENT PRODUCTS, INC.**

430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071

## **EVALUATION SUBJECT:**

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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## **ICC-ES Evaluation Report**

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ESR-2074\*

Reissued February 2015

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

A Subsidiary of the International Code Council®

This report is subject to renewal February 2017.

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<sup>®</sup> AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

### **1.0 EVALUATION SCOPE**

Compliance with the following codes:

- 2012, 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^{\rm T} {\rm The}~{\rm ADIBC}$  is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

## Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent<sup>®</sup> units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

#### 3.0 DESCRIPTION

#### 3.1 General:

When subjected to rising water, the Smart Vent<sup>®</sup> FVs internal floats are activated, 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 FV 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 door to rotate out of the way and allow flow.

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent<sup>®</sup> Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT<sup>®</sup>Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

## 3.2 Engineered Opening:

The FVs 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 FVs must be installed in accordance with Section 4.0.

## 3.3 Ventilation:

The SmartVENT<sup>®</sup> Model #1540-510 and SmartVENT<sup>®</sup> 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 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>®</sup> 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 FVs recognized in this report do not offer natural ventilation.

### 4.0 DESIGN AND INSTALLATION

SmartVENT<sup>®</sup> and FloodVENT<sup>®</sup> 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 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<sup>®</sup> FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m<sup>2</sup>) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final

\*Revised July 2015

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grade or floor and finished exterior grade immediately under each opening.

## 5.0 CONDITIONS OF USE

The Smart Vent<sup>®</sup> FVs 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<sup>®</sup> FVs 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<sup>®</sup> FVs 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 Mechanically Operated Flood Vents (AC364), dated October 2013 (editorially revised May 2014).

## 7.0 IDENTIFICATION

The Smart VENT<sup>®</sup> 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).

#### MODEL NAME MODEL NUMBER MODEL SIZE (in.) COVERAGE (sq. ft.) 15<sup>3</sup>/4" X 7<sup>3</sup>/4" FloodVENT<sup>®</sup> 1540-520 200 SmartVENT<sup>®</sup> 1540-510 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 200 FloodVENT<sup>®</sup> Overhead Door 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 1540-524 200 SmartVENT<sup>®</sup> Overhead Door 1540-514 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 200 Wood Wall FloodVENT<sup>®</sup> 14" X 8<sup>3</sup>/4" 200 1540-570 Wood Wall FloodVENT® Overhead Door 14" X 8<sup>3</sup>/4" 1540-574 200 SmartVENT® Stacker 400 1540-511 16" X 16" 16" X 16" 400 FloodVent® Stacker 1540-521

#### TABLE 1-MODEL SIZES

For SI:  $1 \ln ch = 25.4 \text{ mm}$ ;  $1 \text{ square foot} = \text{m}^2$ 

## **ELEVATION CERTIFICATE**

**IMPORTANT:** Follow the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

| SECT   | FOR INSURANCE COMPANY USE  |   |  |                                |  |  |
|--|--|---|--|--------------------------------|--|--|
| A1. Building Owner's Name LORRAINE M. ROSS   | Policy Number:   |   |  |                                |  |  |
| A2. Building Street Address (Including Apt., Unit, Suite, and/or Bidg. No.) or RO. Route and Box No.<br>118 BEVERLY WAY<br>Company NAIC Number:  |  |   |  |                                |  |  |
| City NEPTUNE TOWNSHIP  |  | State NJ  | Z  | <sup>IP Code</sup> 07753       |  |  |
| A3. Property Description (Lot and Block Numbers, Tax Parce<br>TAX MAP LOT 1 BLOCK 5306   | l Number, Legal Des  | cription, etc.)   |  |                                |  |  |
| <ul> <li>A4. Building Use (e.g., Residential, Non-Residential, Addition. Accessory, etc.) RESIDENTIAL</li> <li>A5. Latitude/Longitude: Lat. N 40 11 39.30 Long. W 74 02 29.20 Horizontal Datum: □ NAD 1927 NAD 1983</li> <li>A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.</li> <li>A7. Building Diagram Number 7</li> <li>A8. For a building with a crawlspace or enclosure(s):</li> <li>a) Square footage of crawlspace or enclosure(s)</li> <li>b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade</li> <li>c) Total net area of flood openings in A8.b</li> </ul> |  |   |  |                                |  |  |
|  |  |   | gineered flood ope   | nings? 🛛 Yes L.] No            |  |  |
| B1. NFIP Community Name & Community Number   | B2. Count  | Name  | .,   | B3. State                      |  |  |
| NEPTUNE TOWNSHIP 340317<br>B4. Map/Panel Number B5. Suffix B6. FIRM Index  | Date B7, FIRM F  | UTH<br>Panel Effective/   | B8 Flood Zone(s)   | NJ                             |  |  |
| 34025C0333 F 09/25/200   | Revise<br>09 09/   | d Date<br>25/2009   | AE   | AO, use base flood depth)<br>9 |  |  |
| B10. Indicate the source of the Base Flood Elevation (BFE) da  | ta or base flood dep   | th entered in Item  | B9:  | ·····                          |  |  |
| 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 Sy   | stem (CBRS) area o   | r Otherwise Protec  | cted Area (OPA)?   | 🗌 Yes 🛛 🔀 No                   |  |  |
| Designation Date:// CBR  | S [] OPA   |   |  |                                |  |  |
| SECTION C – BUILDIN  | G ELEVATION INF  | FORMATION (S  | URVEY REQUIR   | ED)                            |  |  |
| C1. Building elevations are based on: Construction<br>*A new Elevation Certificate will be required when const   | Drawings*  | Building Under Co<br>g is com <b>e</b> lete.                        | nstruction*  | X Finished Construction        |  |  |
| C2. Elevations – Zones A 1-A30, AE, AH, A (with BFE), VE, V1<br>C2.a–h below according to the building diagram specifier<br>Benchmark Utilized: <u>R.M. # 28, R.M. # 29 OLD FI</u>   | –V30, V (with BFE), A<br>d in Item A7. In Puer<br>RM Ver             | NR, AR/A, AR/AE, A<br>to Rico only, enter<br>rtical Datum: NA       | AR/A1-A30, AR/AF<br>meters.<br>/D 198 <u>8</u>             | H, AR/AO. Complete Items       |  |  |
| Indicate elevation datum used for the elevations in items  | s a) through h) below  | . 🗍 NGVD 1929   | 🔀 NAVD 1988  | Other/Source:                  |  |  |
| Datum used for building elevations must be the same as   | s that used for the B  | FE,   | Check the me   | asurement used.                |  |  |
| a) Top of bottom floor (including basement, crawlspace,  | or enclosure floor)  | 6.37  | 🔀 feet   | meters                         |  |  |
| b) Top of the next higher floor  |  | <u>15 4/</u>  | - X feet   |                                |  |  |
| <ul> <li>c) Bottom of the lowest horizontal structural member (V</li> <li>d) Attached garage (top of slab)</li> </ul>  | Zones only)  | 5 95  |  | ☐ meters                       |  |  |
| <ul> <li>e) Acceleration of machinery or equipment servicing<br/>(Describe type of equipment and location in Comment)</li> </ul>   | the building   | 12 77   | X feet   | meters                         |  |  |
| f) Lowest adjacent (finished) grade next to building (LAG  | i)   | <u> </u>  | Keet   | meters                         |  |  |
| <ul> <li>g) Highest adjacent (finished) grade next to building (HAG)</li> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including</li> <li>5.6</li> <li>8 feet meters</li> <li>b feet meters</li> </ul>  |  |   |  |                                |  |  |
| SECTION D SURVE  | SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION           |   |  |                                |  |  |
| This certification is to be signed and sealed by a land surveyor, information. I certify that the information on this Certificate represent of that any false statement may be punishable by fine  | engineer, or archited<br>esents my best effort<br>or imprisonment un | ct authorized by la<br>is to interpret the o<br>der 18 U.S. Code, S | w to certify elevation<br>data available.<br>Section 1001. | n                              |  |  |
| 🗷 Check here if comments are provided on back of form.<br>🗷 Check here if attachments.   | Were latitude and lo<br>licensed land survey                         | ngitude in Section<br>vor? 🛛 Yes                                    | A provided by a  |                                |  |  |
| Certifier's Name<br>PAUL K. LYNCH LS   |  | License Nur<br>GS35855  | nber   |                                |  |  |
|  | Company Name<br>PAUL K. LYNCH  | LS  |  |                                |  |  |
| P.O. BOX 1453  | WALL   | State<br>NJ   | ZIP Code<br>07719  |                                |  |  |
| Signature  | Date<br>04/14/2016   | Telephone<br>(732) 681  | 4035   |                                |  |  |

FEMA Form 086-0-33 (7/12)

See reverse side for continuation.

Replaces all previous editions.

| IMPORTANT: In these spaces, copy  | the corresponding information from Se   | ction A.  |   | FOR INSURANCE COMPANY USE  |
|---|---|---|---|--|
| Building Street Address (including Ap<br>118 BEVERLY WAY  | ot., Unit, Suite, and/or Bldg. No.) or PO. I  | Route and Box No.   |   | Policy Number:   |
| City<br>NEPTUNE TOWNSHIP  | State<br>NJ   | ZIP Code<br>07753   |   | Company NAIC Number:   |
| SECTIO  | N D - SURVEYOR, ENGINEER, OF  | R ARCHITECT CE  | RTIFICATION (C  | ONTINUED)  |
| Copy both sides of this Elevation Cer   | tificate for (1) community official, (2) ins  | surance agent/comp  | any, and (3) building   | g owner.   |
| Comments A8b,c,A9b,c ALL OP<br>COVERS 200SF(ENC<br>A.C. UNIT ATTACHE<br>PRELIMINARY FIRM  | ENINGS HAVE "SMART" VENT M<br>LOS. COVERAGE 1400SF/GARA<br>D TO SIDE OF GARAGE<br>34025C0333G DATED 1-30-201!   | ODEL 1540-510 II<br>GE COVERAGE (<br>5 SHOWS STRU   | NSTALLED,MAN<br>600SF) C2e ELE<br>CTURE IN ZONE   | UFACT. CERTIFIES EACH<br>VATION SHOWN IS BOTTOM OI<br>AE BFE = 10  |
| Signature   | · · · · · · · · · · · · · · · · · · ·   | Date 04/14/2  | 2016  |  |
| SECTION E - BUILDING EL   | EVATION INFORMATION (SURVE)   | NOT REQUIRED  | ) FOR ZONE AO   | AND ZONE A (WITHOUT BFE)   |
| <ul> <li>for Zones AO and A (without BFE), co-<br/>for Items E1–E4, use natural grade, i</li> <li>Provide elevation information for f<br/>grade (HAG) and the lowest adjac<br/>a) Top of bottom floor (including b<br/>b) Top of bottom floor (including b<br/>b) Top of bottom floor (including b<br/>c). For Building Diagrams 6-9 with p<br/>the next higher floor (elevation C2<br/>3. Attached garage (top of slab) is</li> <li>4. Top of platform of machinery and,<br/>cordinance? Yes No</li> </ul> | mplete items E_FES. If the Certificate is<br>f available. Check the measurement use<br>the following and check the appropriate<br>ent grade (LAG).<br>assement, crawlspace, or enclosure) is<br>assement, crawlspace, or enclosure) is<br>ermanent flood openings provided in Sec<br>2.b in the diagrams) of the building is<br>/or equipment servicing the building is<br>/or equipment servicing the building is<br>umber is available, is the top of the botto<br>Unknown. The local official must certify<br><b>N F – PROPERTY OWNER (OR OV</b> | ction A Items 8 and/<br>om floor elevated in this information in S  | ta Louria of Louria-<br>hly, enter meters.<br>ther the elevation is<br>feet meters<br>feet meters<br>feet meters<br>feet meters<br>feet meters<br>feet meters<br>accordance with the<br>feet of the feet<br>feet feet feet<br>feet feet feet<br>feet feet feet<br>feet feet feet feet<br>feet feet feet feet feet feet feet feet | above or below the highest adjacent<br>rs above or below the highest adjacent<br>rs above or below the HAG.<br>rs above or below the LAG.<br>9 of Instructions),<br>rs above or below the HAG.<br>rs Field above or below the HAG.<br>rs Community's floodplain management<br><b>TFICATION</b> |
| he property owner or owner's authori  | zed representative who completes Sect   | ions A. B. and E for  | Zone A (without a F   | EMA-ssued or community-issued BFE)   |
| one AO must sign here. The stateme  | ents in Sections A, B, and E are correct t  | to the best of my kno   | owledge.  |  |
| roperty Owner or Owner's Authorized   | Representative's Name   |   |   |  |
| ddress  |   | City  | Sta   | te ZIP Code  |
| ignature  |   | Date  | Tel   | ephone   |
|   | ·   |   |   | -  |
| onmento   |   |   |   | ·  |
|   |   |   |   | Check here if attachments  |
|   |   |   |   |  |
|   | SECTION G - COMMUNITY   |   | (OPTIONAL)  |  |
| <ul> <li>of this Elevation Certificate. Complet</li> <li>The information in Section C who is authorized by law to c</li> <li>A community official complete</li> </ul>   | aw of ordinance to administer the commu<br>e the applicable item(s) and sign below. O<br>was taken from other documentation t<br>ertify elevation information. (Indicate the<br>ed Section E for a building located in Zo   | They's nooplain man<br>Check the measurem<br>that has been signed<br>he source and date<br>ne A (without a FEM) | agement oroinance<br>lent used in Items G<br>d and sealed by a li<br>of the elevation dat<br>Aissued or commur  | can complete Sections A, B, C (or E), ar<br>B-G10. In Puerto Rico only, enter meter<br>censed surveyor, engineer, or archite<br>a in the Comments area below.)<br>hityissued BFE) or Zone AO.  |
| 3. The following information (Ite   | ms G4-G9) is provided for community   | floodplain managem  | nent purposes.  | · · · · · · · · · · · · · · · · · · ·  |
| 4. Permit Number  | G5. Date Permit Issued  | G6. [   | Date Certificate Of (   | Compliance/Occupancy Issued  |
| <ol> <li>This permit has been issued for:</li> <li>Elevation of as-built lowest floor</li> <li>BFE or (in Zone AO) depth of floo</li> </ol>   | New Construction Substant<br>(including basement) of the building;<br>ding at the building site:  | itial Improvement   | ☐ feet ☐ meter<br>☐ feet ☐ meter<br>☐ feet ☐ meter  | s Datum<br>s Datum<br>s Datum  |
| 10. Community's design flood elevati  |   | Title   |   | ·····  |
| 10, Community's design flood elevati<br>: !'<br>cal Official's Name   |   | nue   |   |  |
| 10. Community's design flood elevati<br>ncal Official's Name<br>ommunity Name   |   | Telephone   |   | · · · · · · · · · · · · · · · · · · ·  |
| 10, Community's design flood elevati<br>ocal Official's Name<br>ommunity Name<br>gnature  |   | Telephone   | ······································  | · · · · · · · · · · · · · · · · · · ·  |
| 10. Community's design flood elevati<br>ir<br>coal Official's Name<br>ommunity Name<br>ignature<br>omments  |   | Telephone<br>Date   | ······  | · · · · · · · · · · · · · · · · · · ·  |

| IMPORTANT: In these spaces, copy the co   | responding information from S  | Section A.   | FOR INSURANCE COMPANY  | USE                        |
|---|--|--|--|----------------------------|
| Building Street Address (including Apt., Unit   | , Suite, and/or Bldg. No.) or PC   | ). Route and Box No.   | Policy Number:   |                            |
|   | State<br>NJ  | ZIP Code<br>07753  | Cempany NAIC Number:   | • • • •                    |
| If using the Elevation Certificate to obt<br>for Item A6. Identify all photographs<br>Side View." When applicable, photogra<br>indicated in Section A8. If submitting | ain NFIP flood insurance, af<br>with date taken; "Front Vi<br>aphs must show the foundat<br>more photographs than will<br>A - 13 | fix at least 2 building photogra<br>ew" and "Rear View"; and, in<br>ation with representative exam<br>fit on this page, use the Con<br>-16   | aphs below according to the instru<br>f required, "Right Side View" and<br>aples of the flood openings or ven<br>tinuation Page. | ctions<br>"Left<br>its, as |
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Replaces all previous editions.



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# **ICC-ES** Report

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## ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

## DIVISION: 08 00 00—OPENINGS SECTION: 08 95 43—VENT5/FOUNDATION FLOOD VENTS

**REPORT HOLDER:** 

## **SMARTVENT PRODUCTS, INC.**

430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071

## **EVALUATION SUBJECT:**

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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## **ICC-ES Evaluation Report**

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ESR-2074\*

Reissued February 2015

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A Subsidiary of the International Code Council®

This report is subject to renewal February 2017.

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<sup>®</sup> AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

### **1.0 EVALUATION SCOPE**

Compliance with the following codes:

- 2012, 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^{\rm T} {\rm The}~{\rm ADIBC}$  is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

## Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent<sup>®</sup> units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

#### 3.0 DESCRIPTION

#### 3.1 General:

When subjected to rising water, the Smart Vent<sup>®</sup> FVs internal floats are activated, 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 FV 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 door to rotate out of the way and allow flow.

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent<sup>®</sup> Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT<sup>®</sup>Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

## 3.2 Engineered Opening:

The FVs 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 FVs must be installed in accordance with Section 4.0.

## 3.3 Ventilation:

The SmartVENT<sup>®</sup> Model #1540-510 and SmartVENT<sup>®</sup> 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 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>®</sup> 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 FVs recognized in this report do not offer natural ventilation.

### 4.0 DESIGN AND INSTALLATION

SmartVENT<sup>®</sup> and FloodVENT<sup>®</sup> 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 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<sup>®</sup> FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m<sup>2</sup>) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final

\*Revised July 2015

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grade or floor and finished exterior grade immediately under each opening.

## 5.0 CONDITIONS OF USE

The Smart Vent<sup>®</sup> FVs 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<sup>®</sup> FVs 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<sup>®</sup> FVs 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 Mechanically Operated Flood Vents (AC364), dated October 2013 (editorially revised May 2014).

## 7.0 IDENTIFICATION

The Smart VENT<sup>®</sup> 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).

#### MODEL NAME MODEL NUMBER MODEL SIZE (in.) COVERAGE (sq. ft.) 15<sup>3</sup>/4" X 7<sup>3</sup>/4" FloodVENT<sup>®</sup> 1540-520 200 SmartVENT<sup>®</sup> 1540-510 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 200 FloodVENT<sup>®</sup> Overhead Door 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 1540-524 200 SmartVENT<sup>®</sup> Overhead Door 1540-514 15<sup>3</sup>/<sub>4</sub>" X 7<sup>3</sup>/<sub>4</sub>" 200 Wood Wall FloodVENT<sup>®</sup> 14" X 8<sup>3</sup>/4" 200 1540-570 Wood Wall FloodVENT® Overhead Door 14" X 8<sup>3</sup>/4" 1540-574 200 SmartVENT® Stacker 400 1540-511 16" X 16" 16" X 16" 400 FloodVent® Stacker 1540-521

#### TABLE 1-MODEL SIZES

For SI:  $1 \ln ch = 25.4 \text{ mm}$ ;  $1 \text{ square foot} = \text{m}^2$ 

## **ELEVATION CERTIFICATE**

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

| A1. Building Overs's Name Lens D'Alois & Louise Ventols       Pelloy Number:         A2. Duidling Street Address (including Apt., Unit, Suite, and/or Bidg, No.) or P.O. Route and Box No.       Company MAIC Number:         City Township on Nepture       State NJ       ZIP Code 07753-5806         A3. Property Discription (Ld and Block Numbers, Tax Parcell Number, Legal Description, etc.)       Tax Intol A. Tax block 5413         A4. Building Use (e.g., Residential, Additon, Accessory, etc.) <u>Basidential</u> Hortzontal Datum:       NAD 1527       NAD 1527       NAD 1527         A5. Building Use (e.g., Residential, Additon, Accessory, etc.) <u>Basidential</u> Hortzontal Datum:       NAD 1527   | SECTION   | A - PROPERTY INFORMATION  | FOR INSURANCE COMPANY USE  |  |  |  |  |
|---|---|---|--|--|--|--|--|
| A2. Botting Street Address (including Apt., Unit, Suite, and/or Bidg, No.) or P.O. Route and Box No.       Company NAIC Number:         102 Prospect Avenue       City Township of Meptune       State NJ       ZIP Code 07753-5806         A3. Property Description (Lt and Block Numbers, Tax Parcel Number, Legal Description, etc.)       Total Act A Tax Biology (Lt and Block Numbers, Tax Parcel Number, Legal Description, etc.)         A4. Biotano Long (Lt and Block Numbers, Tax Parcel Number, Legal Description, etc.)       Horizontal Datum:       NAD 1927 (Stress)         A5. Property Description (Lt and Block Numbers, Tax Parcel Number, Legal Description, etc.)       Horizontal Datum:       NAD 1927 (Stress)         A6. Each Number (Data Datum)       Of the batking if the Conflicate is being used to obtain flood insurance.       NAD 1927 (Stress)       NAD 1927 (Stress)         A7. Biotano Didog of carkings or enclosure(s):       A8 For a batking with a stached garage in the carabipase or enclosure(s):       NAD 1927 (Stress)       NAD 1927 (Stress)         B1. NFIP Community Name R Community Number       B2 Courty Name       B3 State       NUM       State         B1. MFIP Community Name R Community Number       B2 Courty Name       B3 Flood       B3 Flood       B4 Flood Description (Ct Come         B1. MFIP Community Name R Community Number       B2 Courty Name       B3 Flood       B3 Flood       A0, see baters       A0, see baters         B1. Indicate elevation datum used for BFE I   | A1. Building Owner's Name Lena D'Aloia & Louise Ventola   |   | Policy Number:   |  |  |  |  |
| City Township of Neptune       State NJ       ZIP Code 07753-5806         A3. Property Description, (Ct and Block Number, Tax Parcel Number, Legal Description, etc.)       Tax1et 4, 7a biologo (Ct and Block Number, Tax Parcel Number, Legal Description, etc.)         A4. Building Use (e.g., Residential, Non-Residential, Andrion, Accessory, etc.) Besidential       Horizontal Datum:   NAD 1927 [Q] NAD 1983         A5. Entruet-foundity       Intel 2 photographs of the building if the Certificate is being used to obtain flood insurance.       A9. For a building with a cardwlepace or enclosure(s):       A9. For a building with a cardwlepace or enclosure(s):       A9. For a building with a cardwlepace or enclosure(s):       A9. For a building with a cardwlepace or enclosure(s):       A9. For a building with a cardwlepace or enclosure(s):       A9. For a building with a cardwlepace or enclosure(s):       A9. Square forbage of cardwlepace or enclosure(s):       Cordwlepace or en   | A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. N<br>102 Prospect Avenue   | Company NAIC Number:  |  |  |  |  |  |
| A3. Property Description (Ld and Block Numbers, Tax Parcel Number, Legal Description, etc.)         Tax Idd 4, Tax block 5413         A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Residential         A5. Istahubel.origitade: Lat. 40117203       Long02702213         A5. Attach Istabus 2 (photographs of the building if the Critificate is being used to obtain flood insurance.       A9. For a building with a crawspace or enclosure(s):         A6. To building with a crawspace or enclosure(s):       A9. For a building with an attached garage:       N/A       sq t         A7. Building Using a crawspace or enclosure(s):       A9. For a building with an attached garage:       N/A       sq t         A7. Building Using a crawspace or enclosure(s):       None       sq t       D. Number of permanent flood openings in the attached garage:       N/A       sq t         A8. For a building with a crawspace       None       sq t       D. Number of permanent flood openings in the attached garage:       N/A       sq t         B1. NFIP Community Number       B2. County Name       No       B3. State       No       State         B3. Matter       Sq train of the balance of the Critify of the Dot base signered r22. 2000       Effect WrefReviewed Date       Sa State       No         B4. Map/Terre Low Portie       Sc Suftrix       B5. Stiffx       B5. Fold M20 Particle Paret MAP (FIRM) INFORMATION       B3. State <td>City Township of Neptune</td> <td>State NJ ZIP Code 07753-5806</td> <td>Example 2 Structure State St</td> | City Township of Neptune  | State NJ ZIP Code 07753-5806  | Example 2 Structure State St |  |  |  |  |
| A4. Building Use (e.g., Residential, Non-Residential, Addition Accessory, etc.) Residential       Indicational Datum:   NAD 1927   NAD 1983         A5. Latitude/Longitude: Lat. <u>0011/2071 Long.</u> <u>07/10221.9</u> 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.       A8. For a building with an attached garage: NA sq ft         A9. Square housing of management flood openings in the cawkpace or enclosure(s);       A9. For a building with an attached garage; NA sq ft         B1. Number of permanent flood openings in NB to cawkpace or grade Nane       0. Square housing of management flood openings in NB to cawkpace or grade Nane       0. Total net area of flood openings in NB to attached garage; NA sq ft         B1. FIP Community Name & Community Number       B2. County Name       B3. State       NJ         B4. Mapp?melt Number       B5. Sufft: B8. FRM Index Data       B2. County Name       B3. State       NJ         B4. Mapp?melt Number       FT       B4. FRM Index Data       B3. FRM Index Data       B3. FRM Index Data       B3. State       NJ         B4. Mapp?melt Number       FT       B5. Sufft: B8. FRM Index Data       B5. FRM Index Data       B3. FRM Index Data       B3. Encod       B4. Mapp?melt Number       B3. State       NJ         B4. Mapp?melt Number       FT       B5. Sufft: B8. FRM Index Data       B5. Sufft: B8. FRM Index Data       B3. FRM Index Data   | A3. Property Description (Lot and Block Numbers, Tax Parcel Number<br>Tax lot 4, Tax block 5413   | r, Legal Description, etc.)   | · · · · · · · · · · · · · · · · · · ·  |  |  |  |  |
| SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION         B1. NFIP Community Name & Community Number       B2. County Name       B3. State         Jownship of Nupture 340317       B2. County Name       B3. FIRM       B3. State         B4. Map/Panet Number       B5. Suffix       B6. FRM Index Date       B7. FIRM Panel       B8. Flood       B9. Base Flood Elevation(s) (Zone         A0. use base flood depth       B5. Fordile       B7 FIRM       Community Determined       Other/Source:  | <ul> <li>A4. Building Use (e.g., Residential, Non-Residential, Addition, Access A5. Latitude/Longitude: Lat. 40°11'20.9" Long074°02'21.9"</li> <li>A6. Attach at least 2 photographs of the building if the Certificate is be A7. Building Diagram Number 5</li> <li>A8. For a building with a crawlspace or enclosure(s): <ul> <li>a) Square footage of crawlspace or enclosure(s)</li> <li>b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade None</li> <li>c) Total net area of flood openings in A8.b</li> <li>d) Engineered flood openings?</li> </ul> </li> </ul> | ory, etc.) <u>Residential</u><br>Horizontal Datur<br>eing used to obtain flood insurance.<br>A9. For a building with an atta<br>sq ft a) Square footage of att<br>b) Number of permanen<br>within 1.0 foot above<br>sq in c) Total net area of flood<br>d) Engineered flood ope | m: ☐ NAD 1927 ⊠ NAD 1983<br>ached garage:<br>ached garage <u>N/A</u> sq ft<br>it flood openings in the attached garage<br>adjacent grade <u>N/A</u><br>d openings in A9.b <u>N/A</u> sq in<br>enings? Yes ⊠ No   |  |  |  |  |
| B1       NFIP Community Name & Community Number       B2       Courty Name       B3       State         B4       Map/Parent Number       B5       Suffix       B6       FRM Index Date       B7. FIRM Panel       B8. Flood       B9. Base Flood Elevation(s) (Zone A0, use base flood depth)       9.0 feet         34025C/0333       B5       Suffix       B6. FRM Index Date       B7. FIRM Panel       B8. Flood       B9. Base Flood Elevation(s) (Zone A0, use base flood depth entered in item B9.       B4. Map/Panet Number       B4. Suffix       B4. Bap/Panet Number       B1. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in item B9.       B4. Bap/Panet Number       B1. Indicate elevation datum used for BFE in item B9:       NVD 1988       Other/Source:   | SECTION B – FLOOD INSU  | RANCE RATE MAP (FIRM) INFORMATIO  | DN   |  |  |  |  |
| B4. Max/Parel Number       B5. Suffix       B6. FIPM Index Date<br>September 25, 2009       EffectiveRevise0 Date<br>September 25, 2009       B9. Base Flood Elevation(c) (Zone<br>AC       9.0 feet         310. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.       FIFM For (Import)       9.0 feet       9.0 feet         311. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.       Other/Source:  | B1. NFIP Community Name & Community NumberB2. CTownship of Neptune340317Monn  | county Name<br>nouth  | B3. State<br>NJ  |  |  |  |  |
| 310. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.       ☐ FIS Profile       ③ FIRM       ☐ Community Determined       ☐ Other/Source:   | B4. Map/Panel Number<br>34025C/0333B5. Suffix<br>FB6. FiRM Index Date<br>September 25, 2009   | B7. FIRM Panel<br>Effective/Revised Date<br>September 25, 2009 AE   | B9. Base Flood Elevation(s) (Zone<br>AO, use base flood depth)<br>9.0 feet   |  |  |  |  |
| SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)         C1. Building elevations are based on: □ Construction Drawings* □ Building Under Construction* ☑ Finished Construction *A new Elevation Certificate will be required when construction of the building is complete.         C2. Elevation Certificate will be required when construction of the building is complete.         C2. Elevation Certificate will be required when construction of the building is complete.         C2. Elevation Certificate will be required when construction of the building is complete.         C2. Elevation Certificate will be required when construction of the building is complete.         C2. Elevation Certificate will be required when construction of the building is complete.         C2. Elevation Certificate will be required when construction Reprint PL and Reprint PL a  | □       FIS Profile       ☑       FIRM       □       Community Determined       □       Other/Source:         311.       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  |   |  |  |  |  |  |
| C1.       Building elevations are based on:       □ Construction Drawings*       □ Building Under Construction*       ⊠ Finished Construction         *A new Elevation Certificate will be required when construction of the building is complete.       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 Rec only, enter meters.         Benchmark Uflized:  | SECTION C – BUILDING ELEV   | ATION INFORMATION (SURVEY REQUI   | RED)   |  |  |  |  |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor)       13.03       If feet       meters         b) Top of the next higher floor       N/A.       If feet       meters         c) Bottom of the lowest horizontal structural member (V Zones only)       N/A.       If feet       meters         d) Attached garage (top of slab)       N/A.       If feet       meters         e) Lowest elevation of machinery or equipment servicing the building       12.45       If feet       meters         g) Highest adjacent (finished) grade next to building (LAG)       6.60       If feet       meters         g) Highest adjacent (finished) grade next to building (HAG)       7.55       If feet       meters         h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support       6.47       If feet       meters         g) Highest adjacent grade at lowest elevation of deck or stairs, including structural support       6.47       If feet       meters         CECTION 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>I certify that the information on this Certificate represents my best efforts to interpret the data available.</i> I////////////////////////////////////  | <ul> <li>C1. Building elevations are based on: Construction Drawings <ul> <li>A new Elevation Certificate will be required when construction of th</li> </ul> </li> <li>C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V below according to the building diagram specified in Item A7. In Pur Benchmark Utilized: Ver Indicate elevation datum used for the elevations in items a) through Datum used for building elevations must be the same as that used</li> </ul>  | s* ☐ Building Under Construction*<br>ne building is complete.<br>/ (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR<br>erto Rico only, enter meters.<br>tical Datum: <u>NAVD'88</u><br>h ) below. ☐ NGVD 1929 ⊠ NAVD 1988 ☐ 0<br>for the BEE  | Finished Construction X/AH, AR/AO. Complete Items C2.a-h Other/Source:   |  |  |  |  |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor)       13.03       If feet       meters         b) Top of the next higher floor       N/A.       feet       meters         c) Bottom of the lowest horizontal structural member (V Zones only)       N/A.       feet       meters         d) Attached garage (top of slab)       N/A.       feet       meters         e) Lowest elevation of machinery or equipment servicing the building (12.45       If feet       meters         f) Lowest adjacent (finished) grade next to building (LAG)       6.60       If feet       meters         g) Highest adjacent (finished) grade next to building (HAG)       7.55       If feet       meters         h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support       6.47       If feet       meters         f) Lowest adjacent grade and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. <i>I certification on this Certificate represents my best efforts to interpret the data available.</i> Iunderstand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.       Image: Section Approvided on back of form.       Were latitude and longitude in Section A provided by a       Image: Section Approvided by a         icensee Number 24GS03538500       Image: Section Approvided by a       Image: Section Approvided by a       Image: Section Approvided by a       Image: S   |   | Chec  | k the measurement used.  |  |  |  |  |
| f) Lowest adjacent (finished) grade next to building (LAG)       6.60       Image: test adjacent (finished) grade next to building (HAG)         g) Highest adjacent (finished) grade next to building (HAG)       7.55       Image: test adjacent grade at lowest elevation of deck or stairs, including structural support       6.47       Image: test adjacent grade at lowest elevation of deck or stairs, including structural support         f) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support       6.47       Image: test 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>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.</i> In Check here if comments are provided on back of form.       Were latitude and longitude in Section A provided by a licensed land surveyor?         I check here if attachments.       license Number 24GS03538500       Image: Certifier's Name   | <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Docorise type of equipment and location in Comments)</li> </ul>   | re floor) <u>13.03</u><br>N/A<br>N/A<br>N/A<br>ng <u>12.45</u>  | ☑ feet       □ meters         □ feet       □ meters         □ feet       □ meters         □ feet       □ meters         ☑ feet       □ meters         ☑ feet       □ meters  |  |  |  |  |
| 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.         Image: Check here if comments are provided on back of form.       Were latitude and longitude in Section A provided by a licensed land surveyor?         Image: Check here if attachments.       Incensed land surveyor?         Image: Certifier's Name       John W. McCord, Sr.         License Number 24GS03538500       Image: Certifier's Name   | <ul> <li>f) Lowest adjacent (finished) grade next to building (LAG)</li> <li>g) Highest adjacent (finished) grade next to building (HAG)</li> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, inclu</li> </ul>  | <u>6.60</u><br><u>7.55</u><br>Iding structural support <u>6.47</u>  | <ul> <li>☑ feet □ meters</li> <li>☑ feet □ meters</li> <li>☑ feet □ meters</li> <li>☑ feet □ meters</li> </ul>   |  |  |  |  |
| 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.         Image: Check here if comments are provided on back of form.         Were latitude and longitude in Section A provided by a licensed land surveyor?         Image: Certifier's Name         John W. McCord, Sr.         License Number 24GS03538500  | SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION  |   |  |  |  |  |  |
| Certifier's Name John W. McCord, Sr. License Number 24GS03538500  | This certification is to be signed and sealed by a land surveyor, engine information. I certify that the information on this Certificate represents in I understand that any false statement may be punishable by fine or import Check here if comments are provided on back of form.         Were       Check here if attachments.   | er, or architect authorized by law to certify eleve<br>my best efforts to interpret the data available.<br>prisonment under 18 U.S. Code, Section 1001.<br>latitude and longitude in Section A provided by<br>sed land surveyor? X Yes No                                       | a a a a a a a a a a a a a a a a a a a  |  |  |  |  |
|   | Certifier's Name John W. McCord, Sr.  | License Number 24GS03538500   |  |  |  |  |  |
| Ittle Land Surveyor     Company Name     Clearpoint Services, LLC.  | Title Land Surveyor Company Name Clearp   | oint Services, LLC.   |  |  |  |  |  |
| Address 2105 W. County Line Road City Jackson State NJ 21P Code 08527<br>Signature City A Date 08-11-2015 Telephone 732-905-5463  | Address     2105 W. County Line Road     City Jackson       Signature     Image: City Jackson   | Telephone 732-905-5463  | —  |  |  |  |  |

| ELEVATION CERTIFICATE, pa   | age 2  |   |   |   |
|---|--|---|---|---|
| IMPORTANT: In these spaces, c   | opy the corresponding information from   | Section A.  | FOR INS   | URANCE COMPANY USE  |
| Building Street Address (including Apt<br>102 Prospect Avenue   | ., Unit, Suite, and/or Bldg. No.) or P.O. Route and  | Box No.   | Policy Nu   | mber:   |
| City Township of Neptune  | State NJ   | ZIP Code 07753-5806   | Company   | NAIC Number:  |
| SECTION   | D - SURVEYOR, ENGINEER, OR ARCHIT  | ECT CERTIFICATIO  | N (CONTINUI   | ED)   |
| Copy both sides of this Elevation Certi   | ficate for (1) community official, (2) insurance age   | nt/company, and (3) buil  | ding owner.   |   |
| Comments There is no permenent er the Air Conditioning Unit elevated on a   | closure at the ground level (it is an open flow), the<br>platform at elevation =12.45  | e building is on pilings.TI   | ne lowest mach  | nery servicing the building is  |
| FEMA "PRELIMINARY FIRM MAP NU<br>DATE) INDICATES ZONE AE, WITH  | MBER 34025C0333G" DATED JANUARY 30, 20<br>A BASE FLOOD ELEVATION OF 10.0 FEET ABC  | 15 (NOT OFFICIALY AE<br>DVE NAVD'88.  | OPTED AS AN   | EFFECTIVE FIRM ON THIS  |
| Signature Jour W.   | しノノ」 Date  | 08-11-2015  |   |   |
| SECTION E - BUILDING ELE  | VATION INFORMATION (SURVEY NOT RI  | EQUIRED) FOR ZON  | E AO AND ZO   | ONE A (WITHOUT BFE)   |
| For Zones AO and A (without BFE), c<br>and C. For Items E1–E4, use natural g<br>E1. Provide elevation information for   | omplete Items E1–E5. If the Certificate is intended<br>grade, if available. Check the measurement used.<br>the following and check the appropriate boxes to  | to support a LOMA or L<br>In Puerto Rico only, ent<br>show whether the eleva  | OMR-F reques<br>er meters.<br>tion is above or  | , complete Sections A, B,<br>below the highest adjacent   |
| <ul> <li>grade (HAG) and the lowest adja</li> <li>a) Top of bottom floor (including</li> <li>b) Top of bottom floor (including</li> <li>E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams)</li> <li>E3. Attached garage (top of slab) is</li> <li>E4. Top of platform of machinery and</li> <li>E5. Zone AO only: If no flood depth</li> </ul> | acent grade (LAG).<br>basement, crawlspace, or enclosure) is<br>basement, crawlspace, or enclosure) is<br>permanent flood openings provided in Section A II<br>of the building is feet meters above<br>d/or equipment servicing the building is<br>number is available, is the top of the bottom floor | feet me<br>feet me<br>terms 8 and/or 9 (see pag<br>ters above or be<br>or below the HAG.<br>feet meters<br>elevated in accordance | ters 📄 above of<br>ters 📄 above of<br>ges 8–9 of Instru-<br>elow the HAG.<br>🗋 above or E<br>with the commu | or Delow the HAG.<br>or Delow the LAG.<br>actions), the next higher floor<br>below the HAG.<br>nity's floodplain management |
|   | Unknown. The local official must certify this info   | FORCENTATIVE  |   |   |
| SEC IION  | F - PROPERTY OWNER (OR OWNER'S F   |   |   |   |
| or Zone AO must sign here. The state  | representative who completes Sections A, B,<br>nents in Sections A, B, and E are correct to the be   | and E for Zone A (without<br>est of my knowledge.   | Jt a FEMA-Issue   | ed or community-issued BFE)   |
| Property Owner's or Owner's Authorize   | ed Representative's Name   |   |   |   |
| Address   | City   | S   | State   | ZIP Code  |
| Signature   | Date   |   | Felephone   |   |
| Comments  |  |   |   |   |
|   |  |   |   | Chark hore if etterhmente   |
|   |  |   |   |   |
| The local official who is authorized by law of this Elevation Certificate. Complete the   | or ordinance to administer the community's floodp<br>applicable item(s) and sign below. Check the mea  | lain management ordinar<br>surement used in Items (   | ice can complet<br>G8–G10. In Puer  | e Sections A, B, C (or E), and G<br>to Rico only, enter meters.   |
| G1. The information in Section C vis authorized by law to certify   | vas taken from other documentation that has beer<br>elevation information. (Indicate the source and da   | n signed and sealed by a te of the elevation data i   | licensed surve  | yor, engineer, or architect who<br>s area below.)   |
| G2. A community official complete   | d Section E for a building located in Zone A (with   | out a FEMA-issued or co   | mmunity-issued  | BFE) or Zone AO.  |
| G3. The following information (Iten   | ns G4–G10) is provided for community floodplain  | management purposes.  |   |   |
| G4. Permit Number   | G5. Date Permit Issued   | G6. Date Certificate C  | Of Compliance/C   | Occupancy Issued  |
| G7. This permit has been issued for:  | New Construction   | provement   |   |   |
| G8. Elevation of as-built lowest floor (in  | cluding basement) of the building:   | ifeet imeters   | s Datum   | ····  |
| G9. BFE or (in Zone AO) depth of flood  | ling at the building site:   | feet meters   | s Datum   |   |
| G10. Community's design flood elevation   | n:   | ☐ feet ☐ meters   | B Datum   |   |
| Local Official's Name   | Title  | 9   |   |   |
| Community Name  | Tel  | ephone  |   |   |
| Signature   | Dat  | е   |   |   |
| Comments  |  |   |   |   |

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## Building Photographs See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the corresponding info                                       | FOR INSURANCE COMPANY USE |                     |                      |
|---|---------------------------|---------------------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) o 102 Prospect Avenue | Policy Number:            |                     |                      |
| City Township of Neptune  | State NJ                  | ZIP Code 07753-5806 | Company NAIC Number: |

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.



Rear view of 102 Prospect Avenue 8/11/2015



# Building Photographs Continuation Page

| IMPORTANT: In these spaces, copy the corresponding in  | FOR INSURANCE COMPANY USE |                     |                      |
|--|---------------------------|---------------------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.)<br>102 Prospect Avenue | Policy Number:            |                     |                      |
| City Township of Neptune   | State NJ                  | ZIP Code 07753-5806 | Company NAIC Number: |

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.





FEMA Form 086-0-33 (7/12)

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

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## **ELEVATION CERTIFICATE**

**IMPORTANT:** Follow the instructions on pages 1–9.

OMB No. 1660-0008 Expiration Date: July 31, 2015

| A1. Building Owner's Name DOREMUS PROPERTY MANAGEME     A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg, No.) or      107 FAIRVIEW PLACE     City NEPTUNE TOWNSHIP  |   | DN F  | FOR INSURANCE COMPANY USE  |         |  |  |  |  |
|---|---|---|--|---------|--|--|--|--|
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or<br>107 FAIRVIEW PLACE<br>City NEPTUNE TOWNSHIP   | ENT, LLC  | f   | Policy Number:   |         |  |  |  |  |
|   | O. Route and Box No   |   | Company NAIC Number:   |         |  |  |  |  |
|   | State NFW   | JERSEY ZI   | IP Code 07753  |         |  |  |  |  |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal D<br>LOT 12, BLOCK 5306   | escription, etc.)   |   |  |         |  |  |  |  |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.)  | RESIDE  |   |  |         |  |  |  |  |
| <ul> <li>A5. Latitude/Longitude: Lat. <u>49.195012</u> Long. <u>-74.</u></li> <li>A6. Attach at least 2 photographs of the building if the Certificate is being us</li> <li>A7 Building Diagram Number #6</li> </ul>  | ed to obtain flood ins  | L. Horizontal D<br>surance,   | batum: ∐NAD 1927 [X] NAD 19  | 983     |  |  |  |  |
| A8. For a building with a crawlspace or enclosure(s):   | A9. For a b   | uilding with an atta  | ached garage:  |         |  |  |  |  |
| a) Square footage of crawlspace or enclosure(s)   | sqft a) Sq  | uare footage of atta  | ached garage <u>N/A</u> s  | ¶ ft    |  |  |  |  |
| b) No. of permanent flood openings in the crawispace or enclosure(s) within 1.0 foot above adjacent grade   |   |   |  |         |  |  |  |  |
| c) Total net area offlood openings in A8.b <u>1200</u>  | sq in c) Tot  | al net area of flood  | openings in A9,bN/As   | q in    |  |  |  |  |
| d) Engineered flood openings? 🛛 Yes 🗌 No  | d) En   | gineered flood oper   | nings? 🗋 Yes 🔲 No  |         |  |  |  |  |
| SECTION B – FLOOD INSURANCE   | RATE MAP (FIRM  | I) INFORMATIO   | N  |         |  |  |  |  |
| 31. NFIP Community Name & Community Number 340317 B2. Cou   | inty Name   | MONMOUTH  | B3. State N. I   |         |  |  |  |  |
| B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM  | A Panel Effective/  | B8. Flood Zone(s)   | B9. Base Flood Elevation(s) (Zo  | ne      |  |  |  |  |
| 84025C0333 F 09/25/2009 09/   | ised Date<br>25/2009  | AE  | AO, use base flood depth)<br>9 FEET  |         |  |  |  |  |
| 310. Indicate the source of the Base Flood Elevation (BFE) data or base flood of  | lepth entered in Item   | 1 B9:   |  |         |  |  |  |  |
| ☐ FIS Profile [X] FIRM ☐ Community Determined ☐ Other/Source  |   |   |  |         |  |  |  |  |
| 311. Indicate elevation dabin used for BFE in item 199; UNGVD 1929  | a or Otherwise Prote  |   |  |         |  |  |  |  |
| Designation Date:// CBRS OPA  |   |   |  |         |  |  |  |  |
|   | NEODRAATION /S  |   |  |         |  |  |  |  |
| C1. Building elevations are based on: Construction Drawings*  | Building Under Co   | nstruction* [   | Finished Construction  |         |  |  |  |  |
| <ul> <li>A new Elevation Certificate will be required when construction of the built</li> <li>C2. Elevations - Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE C2.a-b below according to the building diagram specified in Item A7. In P</li> </ul>   | aing is complete,<br>), AR, AR/A, AR/AE,<br>uerto Rico only, ente   | AR/A1A30, AR/AF<br>meters.  | H, AR/AO. Complete Items   |         |  |  |  |  |
| Benchmark Utilized:GPS_SMARTNET   | Vertical Datum:   | NAVD'88   | }  |         |  |  |  |  |
| Indicate elevation datum used for the elevations in items a) through h) be Datum used for building elevations must be the same as that used for the same is the same is that used for the same is the same is that used for the same is the s | low. 🗌 NGVD 1929<br>e BFE.  | NAVD 1988   | Other/Source:  |         |  |  |  |  |
|   | , 6 20  | Check the me  |  | -       |  |  |  |  |
| a) Too of bottom floor (including basement, crawlspace, or enclosure floor  | a) Top of bottom floor (including basement, crawlspace, or enclosure floor)   |   |  |         |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> </ul>   | 16 60   | X_feet  | ☐ meters<br>☐ meters   | -       |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> </ul>  | <u>16 60</u><br><u>N/A</u>  | Xi feet<br>Xi feet<br>ifeet   | ☐ meters<br>☐ meters<br>☐ meters   | -       |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> </ul>  | <u>16 60</u><br><u>N/A</u><br><u>SAME AS a) A</u>   | X feet<br>X feet<br>feet<br>feet<br>feet  | ☐ meters<br>☐ meters<br>☐ meters<br>☐ meters   | -       |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> </ul>  | <u> </u>  | L feet<br>L feet<br>BOVE ☐ feet<br>L feet<br>L feet<br>L feet   | ☐ meters<br>☐ meters<br>☐ meters<br>☐ meters<br>☐ meters   | <u></u> |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> <li>f) Lowest adjacent (finished) grade next to building (LAG)</li> </ul>  |   | L Get<br>L Gove<br>Bove<br>Bove<br>D feet<br>Get<br>Get<br>M feet<br>Get<br>M feet  | ☐ meters<br>☐ meters<br>☐ meters<br>☐ meters<br>☐ meters<br>☐ meters   |         |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> <li>f) Lowest adjacent (finished) grade next to building (LAG)</li> <li>g) Highest adjacent grade at lowest elevation of deck or stairs, including structural support</li> </ul>   | $ \begin{array}{c}                                     $  | L feet<br>L feet<br>BOVE ☐ feet<br>C feet<br>L feet<br>C feet<br>L feet<br>C feet<br>L feet<br>C feet<br>L feet<br>C feet<br>L feet<br>L feet<br>C feet<br>L feet | <ul> <li>meters</li> </ul> | -       |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> <li>f) Lowest adjacent (finished) grade next to building (LAG)</li> <li>g) Highest adjacent (finished) grade next to building (HAG)</li> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support</li> </ul>   | <u>16 60</u><br><u>N/A</u><br><u>SAME AS a) A</u><br><u>13 00</u><br><u>6 00</u><br><u>6 20</u><br><u>6 00</u><br><u>6 00</u><br><u>6 00</u>  | L CERTIFICATIO  | meters  | -       |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> <li>f) Lowest adjacent (finished) grade next to building (LAG)</li> <li>g) Highest adjacent (finished) grade next to building (HAG)</li> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support</li> </ul>   | 16         60           N/A   |   | meters   |         |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> <li>f) Lowest adjacent (finished) grade next to building (LAG)</li> <li>g) Highest adjacent (finished) grade next to building (HAG)</li> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support</li> </ul>   | 16         60           N/A   |   | meters   | -       |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> <li>f) Lowest adjacent (finished) grade next to building (LAG)</li> <li>g) Highest adjacent (finished) grade next to building (HAG)</li> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support</li> </ul> <b>SECTION D – SURVEYOR, ENGINEE</b> his certification is to be signed and sealed by a land surveyor, engineer, or arch formation, <i>i certify that the information on this Certificate represents my best effunderstand that any false statement may be punishable by fine or imprisonment of Check here if comments.</i>   | 16       60         N/A   |   | I meters meters meters meters meters meters meters meters N  |         |  |  |  |  |
| <ul> <li>a) Top of bottom floor (including basement, crawlspace, or enclosure floor</li> <li>b) Top of the next higher floor</li> <li>c) Bottom of the lowest horizontal structural member (V Zones only)</li> <li>d) Attached garage (top of slab)</li> <li>e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)</li> <li>f) Lowest adjacent (finished) grade next to building (LAG)</li> <li>g) Highest adjacent (finished) grade next to building (HAG)</li> <li>h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support</li> </ul> <b>SECTION D – SURVEYOR, ENGINEE</b> his certification is to be signed and sealed by a land surveyor, engineer, or arch formation, <i>i certify that the information on this Certificate represents my best et understand that any false statement may be purishable by fine or imprisonment is Certificers Name. WILLIAM E. McGRATH</i>  | A Contract of the section of the se |   | I meters meters meters meters meters meters meters meters meters DN  |         |  |  |  |  |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor<br>b) Top of the next higher floor<br>c) Bottom of the lowest horizontal structural member (V Zones only)<br>d) Attached garage (top of slab)<br>e) Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments)<br>f) Lowest adjacent (finished) grade next to building (LAG)<br>g) Highest adjacent (finished) grade next to building (HAG)<br>h) Lowest adjacent grade at lowest elevation of deck or stairs, including<br>structural support<br>SECTION D – SURVEYOR, ENGINEE<br>his certification is to be signed and sealed by a land surveyor, engineer, or arch<br>iformation, <i>i certify that the information on this Certificate represents my best ef<br/>understand that any false statement may be punishable by fine or imprisonment<br/>Check here if attachments.<br/>Certifiers Name<br/>WILLIAM E. McGRATH<br/>Title<br/>PRESIDENT<br/>MCGRATH SUR</i>   | 16       60         N/A   |   | Indexes  |         |  |  |  |  |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor<br>b) Top of the next higher floor<br>c) Bottom of the lowest horizontal structural member (V Zones only)<br>d) Attached garage (top of slab)<br>e) Lowest elevation of machinery or equipment servicing the building<br>(Describe type of equipment and location in Comments)<br>f) Lowest adjacent (finished) grade next to building (LAG)<br>g) Highest adjacent (finished) grade next to building (HAG)<br>h) Lowest adjacent grade at lowest elevation of deck or stairs, including<br>structural support<br>SECTION D – SURVEYOR, ENGINEE<br>his certification is to be signed and sealed by a land surveyor, engineer, or arch<br>formation. <i>I certify that the information on this Certificate represents my best eff<br/>understand that any false statement may be punishable by fine or Imprisonment<br/>Q Check here if comments are provided on back of form.<br/>Check here if attachments.<br/>Certifiers Name<br/>WILLIAM E. McGRATH<br/>Title<br/>PRESIDENT<br/>Address<br/>321 MANTOLOKING ROAD</i>   | 16       60         N/A   |   | Indexes  |         |  |  |  |  |

FEMA Ford 086-0-33 (7/12)

See reverse side for continuation.

Replaces all previous editions.

|  | IMPORTANT: In these spaces, copy the corresponding information from   | n Section A.  | <u> </u>  | FOR INSURANCE COMPANY USE   |
|--|---|---|---|---|
| Bits         N.I.         ZIP Code         OT753         Company MAC Number:           Dapy Jobit sides of this Elevation Collingue for (1) commently official, (2) insurance agent/company, and (3) building owner.         Company MAC Number:           Dapy Jobit sides of this Elevation Collingue for (1) commently official, (2) insurance agent/company, and (3) building owner.         Comments FEMA         PRELIMINARY FIRM MAP' (NOT OFFICIALLY ADOPTED AS A FIRM AS YET)           ZONE A.E., BASE FLOOD ELEVATION 10 OFEET ABOVE NAVD'88.         LOWESET EQUIPMENT SERVICING THE BUILDING IS AN ELEC. METER BOX ON OUT SIDE WALL.           HOUSE HAS SIX SMARTVENTS MODEL #1540-520, ICC CERTIFICATION ATTACHED.         Side of this Elevation information for the BuilDING IS Chart in the BuilDING IS Chart in the Interest of the Interest is intended to support a LOMA of DMM* Frequest, complete Sections A, Bank Of Method EFE, complete Immediate agency the toxet so is ow whether the elevation is above or below the H&IG algoent in the Interest adjacent grade (AG).           grade ADMA from Charting Basement, cansingace, or endosure) is   | Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or<br>107 FAIRVIEW PLACE  | P.O. Route and Box No.  |   | Policy Number:  |
| SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED) apyboth sides of this Elevation for tiltates for (1) community official, (2) insurance agent/company, and (3) building owner.  Some of the PRELIMINARY FIRM MAP" (NOT OFFICIALLY ADOPTED ASA FIRM ASY ET) ZONE AE, BASE FLOOD ELEVATION 10 FEET ABOVE NAVDORS. LOWEST FOULPINGENT SERICING THE BUILDING IS AN ELEC. METER BOX ON OUT SIDE WALL. HOUSE HAS SUS SMARIVENTS MODEL #1540-520, ICC CERTIFICATION ATTACHED.  Brature  Brature  Brature  Community for the Building the Building of SAN ELEC. METER BOX ON OUT SIDE WALL HOUSE HAS SUS SMARIVENTS MODEL #1540-520, ICC CERTIFICATION ATTACHED.  Brature  Community device the approximate building to support a LOMA or LOMMF frequest, complete Sections A, B, and the metal information for the Indivers and these approximate bases to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (HAG). I food feature information for the Indivers and check the macrorate building to support a LOMA or LOMMF frequest, complete Sections A, B, and the metal adjacent grade (HAG). I food feature information for the Indivers and the approximate bases to show whether the elevation is above or below the HAG. D Too to totum foor (floading basement, cravispace, or enclosure) is   | NEPTUNE TOWNSHIP State N  | I.J. ZIP Code 07  | 753   | Company NAIC Number:  |
| op:obtit aliase of this Elevation Carificates of (1) community official (2) insurance agent/company, and (3) building ower.           OWNEMS-EEMA "PRELIMINARY FIRM MAP" (NOT OFFICIALLY ADOPTED AS A FIRM AS YET)<br>ZONE A BASE FLOOD ELEVATION 10 FEET ABOVE NAVD28.<br>LOWEST EQUIPMENT SERICING THE BUILDING IS AN ELEC. METER BOX ON OUTSIDE WALL.<br>HOUSE HAS SIX SMARTVENTS MODEL #1540-520. (CC CERTIFICATION ATTACHED.)           agrature         Date         12/22/2015           SECTION F_BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE).<br>To the ELEVAL as a neutrograde, if advisols. Cleck the measurement used. In Neuto Riscomity, there meters.           1, Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or lobow the highest adjacent<br>transe rMA and the lowest adjacent arole (LAS).           2, Tore building Diagrams G-9 with permanent, flood openings provided in Section A terms 5 md/or 9 (see pages 8-9 of Instructions).           10 foo of tootim foor (including tassement, cavisage, or enclosure) is<br>   | SECTION D - SURVEYOR, ENGINEER  | , OR ARCHITECT CE   | RTIFICATION (C  | ONTINUED)   |
| comments       PRELIMINARY FIRM MAP" (NOT OFTICIALLY ADOPTED AS A FIRM AS YET)         convert       Note a Base FLOOD ELEVATION IO FEET ABOVE NAMUES.         identify       Date       T2/22/2015         Section F_ Buildbing ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)       To 2000 AND ZONE A (WITHOUT BFE)         or lange C_ Ministry       Date       T2/22/2015         Section F_ Buildbing Check the mesurement used. In Parts Rice on the approximate bases on a LONA or LOMAF request, complete Sections A, B, and M, and M, and M, and MART BOWER SCHORE A, B, and M, and the lowest adjacent grade (Ad).         a) To or totum from formation for the flowing and check and parcelatible bases to sink whether the elevation is above or below the MAG.         b) To or totum foor (including basement, cravispace, or enclosure) is  | copyboth sides of this Elevation Certificate for (1) community official, (2   | 2) insurance agent/comp   | any, and (3) building   | gowner.   |
| Bignetive         Date         12/22/2015           SECTION F_BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AG AND ZONE A (WITHOUT BFE)           or Zones AO and A (without DFE), complete Items EL-E5. If the Certificate is intended to support a LOMA or LOMRF request, complete Sections A. B.anc           1 Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or between the highest adjacent           2 Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or between the highest adjacent           3) To or bottom floor (Including basement, crawispace, or enclosure) is   | Comments FEMA "PRELIMINARY FIRM MAP" (NOT OFF<br>ZONE AE, BASE FLOOD ELEVATION 10 FEE<br>LOWEST EQUIPMENT SERICING THE BUILD<br>HOUSE HAS SIX SMARTVENTS MODEL #154   | ICIALLY ADOPTEL<br>T ABOVE NAVD'88<br>IING IS AN ELEC. M<br>40-520, ICC CERTI       | O AS A FIRM AS<br>METER BOX OI<br>FICATION ATT                    | S YET)<br>N OUTSIDE WALL.<br>ACHED.   |
| SECTION E/- BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE A O AND ZONE A (WITHOUT BFE).           or Zones AO and A (Without BFE), complete terms E1-E5. If the Certificate is intended to support a LOMA or LOMA or LOMA Frequest, complete Sections A. B. and or firms E1-F3.           1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (AKG) and the lowest adjacent grade (AKG) and the lowest adjacent grade (AKG) and the lowest adjacenent, crawkspace, or enclosure) is freet  | Signature Jinon E. Mitan  | Date 12/  | 22/2015   |   |
| ar Zones AQ and A without BEEL complete Isens E1-E5. If the Certificate is intended to support a LOMA or LOMAF request, complete Sections A. B. and or ferms E1-F4. In senstrain grade, (HA) and ite measurement used. In Parton Risco only, enter meters.  1. Provide elevation Information for the following and check the appropriate boxes to show whether the elevation is above or below the HaB est adjacent grade (HA) and the lowest adjacent grade (HA) and the low the HAG. Stated grade (Iop of slab) is a low or or lowest adjacent grade (HA) and the low the HAG. Stated grade (Iop of slab) is a low or or lowest adjacent grade (HA) and the lowest adjacent grade (HA) and the low the HAG. Stated grade grade (Iop of slab) is a low or or lowest adjacent grade (HA) and the low or low or low or low or low or low or or low or adjacent grade (HA) and the HAG. Stated grade grade (Iop of slab) is a low or or low or adjacent state adjacent grade (HA) and the HAG. Stated grade grade (HA) and the HAG. Stated grade (HA) and the HAG. Stated grade (HA) and the HAG. Stated gra | SECTION E- BUILDING ELEVATION INFORMATION (SUR  | VEY NOT REQUIRED  | ) FOR ZONE AO   | AND ZONEA (WITHOUT BFE)   |
| grade (Ho) and the lowest agacent grade (LAb).       above or check with the composition of the control below the HAG.         b) Top of bottom floor (including basement, crawispace, or enclosure) is  | or Zones AO and A (without BFE), complete Items E1-E5. If the Certific<br>or Items E1-E4, use natural grade, if available. Check the measuremer<br>1. Provide elevation information for the following and check the approp                              | ate is intended to suppor<br>It used. In Puerto Rico or<br>riate boxes to show whet | rt a LOMA or LOMR-<br>hly, enter meters.<br>ther the elevation is | Frequest, complete Sections A, B, and above or below the highest adjacent           |
| b) Top of bottom floor finduling basement, consistance, or enclosure is is included in Section A terms 8 and/or 9 (see pages A> of Instructions).         2. For Building Diagrams 6-9 with permanent flood openings provided in Section A terms 8 and/or 9 (see pages A> of Instructions).         3. Attached garage (top of slab) is included in Section A terms 8 and/or 9 (see pages A> of Instructions).         3. Attached garage (top of slab) is included in Section A terms 8 and/or 9 (see pages A> of Instructions).         4. Top of platform of machinery and/or equipment servicing the building is included in Section 6.         5. Zone AO only; If no flood depth innerke is available, is the top of the bottom floor elevated in accordance with the community's floodplain managemen ordinance? [Yes No [Dicknown. The local official must certify this information in Section 6.         SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION         her one share. The statements in Sections A. B. and E are correct to the best of my knowledge.         reperty Owner or Owner's authorized Representative's Name         deres         display the construction of the oblight moneagement ordinance can complete Sections A, B, C (or E), if of this deparation in Section Can be applicable itertify and sign below. Check the measurement used in items 66-300. In Puerts Representative's Name         departs construction in the community's floodplain management ordinance can complete Sections A, B, C (or E), if of this departs in the community of floid any the construction in the source and date of the elevation data in the Comment Sections A, B, C (o  | grade (HAG) and the lowest adjacent grade (LAG).  | ) is  | ∏feet ∏mete   | $rs \square$ above or $\square$ below the HAG.                                      |
| 2. For Building Diagrams 6-9 with permanent flood openings provided in Section A items 8 and/or 9 (see pages 8-9 of instructions).  the next higher floor (elevation C2.b in the diagrams) of the building is  | b) Top of bottom floor (including basement, oramispace, or enclosure  | ) is,   |   | rs above or below the LAG.  |
| the next higher floor (levalion C2.b in the diagrams) of the building is   | 2. For Building Diagrams 6-9 with permanent flood openings provided   | in Section A Items 8 and,   | /or 9 (see pages 8-   | 9 of Instructions),   |
| 3. Attached garage (top of slab) is  | the next higher floor (elevation C2.b in the diagrams) of the building  | is  | 🗌 feet 🔲 mete   | rs $\square$ above or $\square$ below the HAG.                                      |
| 4. Top of platform of machinery and/or equipment servicing the building is   | 3. Attached garage (top of slab) is   |   | ∏feet ∏mete<br>—  | rs above or below the HAG.  |
| SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION         he 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 one AO must sign here. The statements in Sections A, B, and E for Zone A (without a FEMA-Issued or community-issued BFE one AO must sign here. The statements in Sections A, B, and E for Zone A (without a FEMA-Issued or community-issued BFE or Zone A (without a FEMA-Issued or community-issued BFE or Zone A (without a FEMA-Issued Persentative's Name         ddress       City       State       ZIP Code         signature       Date       Telephone         SECTION G - COMMUNITY INFORMATION (OPTIONAL)         The information is subhorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), a of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8-G10. In Puerto Rico only, enter met         1       The information in Section C was taken from other documentation that has been signed and seaded by a licensed surveyor, engineer, or archit who is authorized by two to certify elevation information, (fidicate the source and date) of the evation data in the Comments area below.         2       A community official completed Section F or a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.         3       D the following information (Items 64-G9) is provided for community floodplain management purposes.         3       A community official completed Sectio   | <ul> <li>4. Top of platform of machinery and/or equipment servicing the buildin</li> <li>5. Zone AO only: If no flood depth number is available, is the top of the ordinance? Yes No</li> <li>No</li> <li>Unknown. The local official must c</li> </ul> | g is<br>bottom floor elevated in<br>ertify this information in t                    | feet imete<br>accordance with the<br>Section G.                   | rs 🗌 above or 🗌 below the HAG.<br>e community's floodplain management               |
| he 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 one AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge. roperty Owner or Owner's Authorized Representative's Name  ddress City State ZIP Code  ignature Date Telephone  comments  SECTION G - COMMUNITY INFORMATION (OPTIONAL)  he local official who is authorized by law or ordinance to administer the community filosodplain management ordinance can complete Sections A, B, C (or E), a official who is authorized by law or ordinance to administer the community filosodplain management ordinance can complete Sections A, B, C (or E), a of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in items G8–G10. In Puerto Rico only, enter met who is authorized by law or ordinance to administer the source and dete of the elevation deta in the Comments are below.)  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued SFE) or Zone AO.  A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued GE. Date Certificate Of Compliance/Occupancy Issued GE. Date Certificate Of Compliance / Occupancy Issued GE. Date Certificate Section I meters Datum   | SECTION F PROPERTY OWNER (0)  | R OWNER'S REPRES  | ENTATIVE) CERT  | IFICATION   |
| roperty Owner or Owner's Authorized Representative's Name         ddress       City       State       ZIP Code         ignature       Date       Telephone         comments       Check here if attachment         SECTION G - COMMUNITY INFORMATION (OPTIONAL)         The local official who is authorized by law or ordinance to administer the community's filoodplain management ordinance can complete Sections A. B. C (or E), a of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in items 68–610. In Puerto Rec only, enter met         11       The information in Section C was taken from other ad oscip below. Check the measurement used in items 68–610. In Puerto Rec only, enter met         12       Check here if attachment         13       The following information information. (indicate the source and date of the elevation data in the Comments area below.)         24. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-Issued SFE) or Zone AO.         13.       The following information (items 64–69) is provide for community floodplain management purposes.         34. Permit Number       G5. Date Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         35. Dire followest floor (including basement) of the building:  | he property owner or owner's authorized representative who completes<br>one AO must sign here. The statements in Sections A, B, and E are co  | Sections A, B, and E for<br>rrect to the best of my kn                              | Zone A (without a F<br>lowledge.                                  | EMA-issued or community-issued BFE)   |
| ddress       City       State       ZIP Code         signature       Date       Telephone         comments   | Property Owner or Owner's Authorized Representative's Name  |   |   |   |
| ignature       Date       Telephone         Comments   | Address   | City  | Sta   | te ZIP Code   |
| Check here if attachment         SECTION G - COMMUNITY INFORMATION (OPTIONAL)         The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), i         S of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter met         1.       The information in Section C was taken from other documentation that has been Signed and sealed by a licensed surveyor, engineer, or archit         20.       A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.         23.       The following information (Items G4–G9) is provided for community floodplain management purposes.         34.       Permit Number       G5. Date Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         37.       This permit has been issued for:       New Construction       Substantial Improvement         38.       Elevation of as-built lowest floor (including basement) of the building:       Ifeet       meters       Datum         30.       One AO) depth of flooding at the building site:       Ifeet       meters       Datum       Datum         30.       One AO) depth of flooding at the building site:       Ifeet       meters       Datum       Datum       Date         30.       Official's Name       Tel  | Signature   | Date  | Tel   | ephone  |
| Check here if attachment     SECTION G – COMMUNITY INFORMATION (OPTIONAL)  the local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), i of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter met 1  | comments  |   |   |   |
| SECTION G – COMMUNITY INFORMATION (OPTIONAL)         In blocal official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), a G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter met         11.       The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or archit who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)         12.       A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.         13.       The following information (Items 64–69) is provided for community floodplain management purposes.         14.       Permit Number       G5. Date Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         17.       This permit has been issued for:       New Construction       Substantial Improvement         18.       Elevation of as-built lowest floor (Including basement) of the building:       Image: I   |   |   |   | Check here if attachments   |
| The local official who is authorized by law or ordinance to administer the community's filoodplain management ordinance can complete Sections A, B, C (or E), i         S of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter met         31.       The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or archit who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)         32.       A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.         33.       The following information (Items G4–G9) is provided for community floodplain management purposes.         34.       Permit Number       G5. Date Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         39.       Elevation of as-built lowest floor (including basement) of the building:  | SECTION G COMMU   | UNITY INFORMATION   | (OPTIONAL)  |   |
| 31.       The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or archit who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)         32.       A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.         33.       The following information (Items G4–G9) is provided for community floodplain management purposes.         34.       Permit Number       G5. Date Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         37.       This permit has been issued for:       New Construction       Substantial Improvement         38.       Elevation of as-built lowest floor (including basement) of the building:       Ifeet       meters       Datum         39.       BFE or (in Zone AO) depth of flooding at the building site:       Ifeet       meters       Datum         310.       Community Name       Title       Date       Date         Community Name       Date       Date       Date  | The local official who is authorized by law or ordinance to administer the c<br>S of this Elevation Certificate. Complete the applicable item(s) and sign b   | community's filoodplain ma<br>elow. Check the measure                               | nagement ordinance<br>ment used in Items (                        | can complete Sections A, B, C (or E), ar<br>58–G10. In Puerto Rico only, enter mete |
| A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.         33.       The following information (Items G4–G9) is provided for community floodplain management purposes.         34.       Permit Number       G5. Date Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         37.       This permit has been issued for:       New Construction       Substantial Improvement         38.       Elevation of as-built lowest floor (including basement) of the building:  | G1. The information in Section C was taken from other documenta   | ation that has been sign  | ed and sealed by a  | licensed surveyor, engineer, or archite   |
| Gate Permit Number       G5. Date Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         Gate Permit Number       G5. Date Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         Gate Permit has been issued for:       New Construction       Substantial Improvement         Gate Permit Number       G6. Date Certificate Of Compliance/Occupancy Issued         Gate Permit has been issued for:       New Construction       Substantial Improvement         Gate Permit Number       Gate Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         Gate Permit Number       Gate Permit Issued       G6. Date Certificate Of Compliance/Occupancy Issued         Gate Permit Number       Gate Permit Issued       G6. Date Permit Issued       Gate Permit Issued         Gate Permit Number       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued         Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued         Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued         Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued       Gate Permit Issued         Gate Permit   | <ul> <li>G2. A community official completed Section E for a building located</li> <li>The following information (Items 64–69) is provided for community</li> </ul>  | in Zone A (without a FEN  | MA-issued or commu  | nity-issued BFE) or Zone AO.  |
| G7. This permit has been issued for:       New Construction       Substantial Improvement         G8. Elevation of as-built lowest floor (including basement) of the building:       Ifeet       Imaters       Datum         G9. BFE or (in Zone AO) depth of flooding at the building site:       Ifeet       Imaters       Datum         G10. Community's design flood elevation:       Ifeet       Imaters       Datum         .ocal Official's Name       Title         Community Name       Date         Signature       Date   | 34. Permit Number G5. Date Permit Issued  | G6.   | Date Certificate Of   | Compliance/Occupancy Issued   |
| 37. This permit has been issued for:       New Construction       Substantial Improvement         38. Elevation of as-built lowest floor (including basement) of the building:   |   |   | <b></b>   |   |
| 33. Elevation of associations should howest nool (including basement) of the building.   | 37. This permit has been issued for: UNew Construction US   | ubstantial Improvement  | ∏ feet ∏ mete   | rs Datum  |
| G10. Community's design flood elevation:   | 39. BEE or (in Zone AO) depth of flooding at the building site:   | ig  | ☐ feet ☐ mete   | rs Datum  |
| Jocal Official's Name     Title       Community Name     Telephone       Signature     Date       Comments   | G10. Community's design flood elevation:  | ;   | □feet □mete   | rs Datum  |
| Community Name Telephone Date Date Comments  | ocal Official's Name  | Title   | <u> </u>  |   |
| Signature Date   | Community Name  | Telephone   |   |   |
| Comments   | Signature   | Date  |   |   |
|  | Commonto  |   |   |   |
|  | Jomments  |   |   |   |
|  |   |   |   |   |
|  |   |   |   |   |

Replaces all previous editions.

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## **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

| IMPORTANT: In these spaces, copy the corresponding inf                           | FOR INSURANCE COMPANY USE |      |          |       |                      |
|--|---------------------------|------|----------|-------|----------------------|
| Building Street Address (including Apt., Unit, Suite, and/or 107 FAIRFIELD PLACE | Policy Number:            |      |          |       |                      |
| City NEPTUNE TOWNSHIP  | State                     | N.J. | ZIP Code | 07753 | Company NAIC Number: |

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.



FRONT OF 107 FAIRVIEW PLACE



REAR OF 107 FAIRVIEW PLACE



WEST SIDE OF 107 FAIRVIEW PLACE

EAST SIDE OF 107 FAIRVIEW PLACE



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ESR-2074

Reissued 02/2015 This report is subject to renewal 02/2017.

## 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

## **EVALUATION SUBJECT:**

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-570; #1540-570; #1540-574; #1540-524; #1540-514



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## **ICC-ES Evaluation Report**

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Reissued February 2015

ESR-2074\*

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

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<sup>®</sup> AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

#### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012, 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^\dagger The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.$ 

## Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent<sup>®</sup> units are engineered mechanically operated fiood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

#### 3.0 DESCRIPTION

#### 3.1 General:

When subjected to rising water, the Smart Vent<sup>®</sup> FVs internal floats are activated, 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 FV 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 door to rotate out of the way and allow flow.

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The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent<sup>®</sup> Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT<sup>®</sup>Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

#### 3.2 Engineered Opening:

The FVs 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 FVs must be installed in accordance with Section 4.0.

#### 3.3 Ventilation:

The SmartVENT<sup>®</sup> Model #1540-510 and SmartVENT<sup>®</sup> Overhead Door Model #1540-514 both have screen covers with <sup>1</sup>/<sub>4</sub>-inch-by-<sup>1</sup>/<sub>4</sub>-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>®</sup> 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 FVs recognized in this report do not offer natural ventilation.

## 4.0 DESIGN AND INSTALLATION

SmartVENT<sup>®</sup> and FloodVENT<sup>®</sup> 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 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<sup>®</sup> FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m<sup>2</sup>) of enclosed area.
- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final

\*Revised July 2015

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grade or floor and finished exterior grade immediately under each opening.

## 5.0 CONDITIONS OF USE

The Smart Vent<sup>®</sup> FVs 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<sup>®</sup> FVs 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<sup>®</sup> FVs 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 Mechanically Operated Flood Vents (AC364), dated October 2013 (editorially revised May 2014).

## 7.0 IDENTIFICATION

The Smart VENT<sup>®</sup> 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).

| MODEL NAME                                     | MODEL NUMBER | MODEL SIZE (in.)   | COVERAGE (sq. ft.) |
|--|--------------|--|--------------------|
| FloodVENT <sup>®</sup>                         | 1540-520     | 15 <sup>3</sup> /4'' X 7 <sup>3</sup> /4''                         | 200                |
| SmartVENT <sup>®</sup>                         | 1540-510     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| FloodVENT <sup>®</sup> Overhead Door           | 1540-524     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| SmartVENT <sup>®</sup> Overhead Door           | 1540-514     | 15 <sup>3</sup> /4" X 7 <sup>3</sup> /4"                           | 200                |
| Wood Wall FloodVENT®                           | 1540-570     | '14" X 8 <sup>3</sup> /4"  | 200                |
| Wood Wall FloodVENT <sup>®</sup> Overhead Door | 1540-574     | 14" X 8 <sup>3</sup> / <sub>4</sub> "                              | 200                |
| SmartVENT® Stacker                             | 1540-511     | 16" X 16"  | 400                |
| FloodVent® Stacker                             | 1540-521     | 16" X 16"  | 400                |
| -  |              |  |                    |

#### TABLE 1-MODEL SIZES

For SI: 1 inch = 25.4 mm; 1 square foot =  $m^2$ 

MAY 2. 2017

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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.

| Con | vall names of th  | is Elevation | Cortificate and a | Il attachmente for ( | 1) communit | v official (2 | ) insurance a | ant/company   | (and (3) building |          |
|-----|-------------------|--------------|-------------------|----------------------|-------------|---------------|---------------|---------------|-------------------|----------|
| υuμ | y all pages of th | IS Elevation | Certificate and a |                      |             | y uniciai, (z |               | Jen w Company | , anu (S) bulluli | y owner. |

|  | SECT                   |                           |                 |                         |                       |                       |  |
|--|------------------------|---------------------------|-----------------|-------------------------|-----------------------|-----------------------|--|
| A1, Building Owne                                  | r's Name               |                           |                 |                         | ·····                 | Policy Num            | ber:   |
| JOHN AND MELAN                                     | IE MATHEW              | S                         |                 |                         |                       | , <b>,</b>            |  |
| A2. Building Street<br>Box No.<br>119 FAIRVIEW PLA | Address (incl          | luding Apt., Unit, Suite  | , and/o         | r Bldg. No.) or P.O.    | Route and             | Company N             | IAIC Number:   |
| City   |                        |                           |                 | State                   |                       | ZIP Code              |  |
| NEPTUNE TO   | WNSHIP                 |                           |                 | New Jersey              |                       | <b>0</b> 7753         |  |
| A3. Property Descr<br>LOT 16, BLOCK 53             | ription (Lot an<br>306 | d Block Numbers, Tax      | P <b>a</b> rce  | l Number, Legal De      | escription, etc.)     |                       |  |
| A4. Building Use (e                                | e.g., Resident         | ial, Non-Residential, A   | ddition         | , Accessory, etc.)      | RESIDENTIAL           |                       |  |
| A5. Latitude/Longit                                | ude: Lat. 40.          | .193778 DEG.              | ong7            | 74. <b>0</b> 41194 DEG. | Horizontal Datur      | n: 🔲 NAD '            | 1927 🗙 NAD 1983  |
| A6. Attach at least                                | 2 photograph           | ns of the building if the | Certific        | ate is being used to    | o obtain flood insur  | ance.                 |  |
| A7. Building Diagra                                | m Number               | 8                         |                 |                         |                       |                       |  |
| A8. For a building v                               | vith a crawlsp         | ace or enclosure(s):      |                 |                         |                       |                       |  |
| a) Square foot                                     | age of crawls          | pace or enclosure(s)      |                 | 1,714 sqft              |                       |                       |  |
| b) Number of p                                     | ermanent flo           | od openings in the cra    | wlspac          | e or enclosure(s) w     | vithin 1.0 foot above | e adjacent g <b>r</b> | ad <b>e</b> 9  |
| c) Total net are                                   | a offlood op           | enings in A8.b 1,80       | 00 s            | a in                    |                       |                       |  |
| d) Engineered                                      | flood opening          | as? Xi Yes 🗌 No           |                 |                         |                       |                       |  |
|  |                        |                           |                 |                         |                       |                       |  |
| A9. For a building w                               | lith an attach         | ed garage:                |                 | -                       |                       |                       |  |
| a) Square foot                                     | age of attache         | ed garage 0               |                 | sqft                    |                       |                       |  |
| b) Number of p                                     | permanent flo          | od openings in the atta   | ached g         | garage within 1.0 fo    | oot above adjacent    | grade                 | 0  |
| c) Total net are                                   | ea of flood op         | enings in A9.b            | 0               | sq in                   |                       |                       |  |
| d) Engineered                                      | flood opening          | gs? 🗌 Yes 🕱 No            | D               |                         |                       |                       |  |
|  | SE                     | CTION B - FLOOD IN        | ISURA           |                         | (FIRM) INFORMA        |                       |  |
| B1. NFIP Communi                                   | ty Name & Co           | ommunity Number           |                 | B2. County Name         | )<br>)                | <u></u>               | B3. State  |
| NEPTUNE TOWNS                                      | HIP                    | 340317                    |                 | MONN                    | IOUTH                 |                       | New Jersey   |
| B4. Map/Panel<br>Number                            | B5. Suffix             | B6. FIRM Index<br>Date    | B7. F           | IRM Panel<br>ffective/  | B8. Flood Zone(s      | ) B9. Bas<br>(Zo      | se Flood Elevation(s)<br>ne AO, use Base   |
| 34025C0333   | F                      | 09/25/2009                | 09/2            | 5/2009                  | AE                    |                       | 9 FEET   |
| B10. Indicate the s                                | ource of the E         | Base Flood Elevation (I   | BFE) da         | ata or base flood d     | epth entered in Iter  | n B9:                 |  |
| FIS Profile  | e⊠FIRM [               | Community Determ          | nine'd [        | Other/Source:           |                       |                       |  |
| B11. Indicate eleva                                | tion datum us          | sed for BFE in Item B9    | : 🗌 N           | IGVD 1929 🛛 🕅           | AVD 1988 📋 Of         | her/Source:           |  |
| B12. Is the building                               | located in a           | Coastal Barrier Resou     | rce <b>s</b> Sy | ystem (CBRS) area       | a or Otherwise Prot   | ected Area (0         | DPA)? 🗌 Yes 🔀 No   |
| Designation D                                      | ate:                   | · [_] (                   | BRS             |                         | 1                     | Mil                   | and a first state that the second state of the |
|  |                        |                           |                 |                         | MAN E. V              | W MA                  |  |
|  |                        |                           |                 |                         | /                     |                       |  |

| ELEVATION CERTIFICATE  |  |   | OMB No. 1660-0008<br>Expiration Date: November 30, 2018  |
|--|--|---|--|
| IMPORTANT: In these spaces, copy the o   | corresponding information from   | Section A.  | FOR INSURANCE COMPANY USE  |
| Building Street Address (including Apt., Un<br>119 FAIRVIEW PLACE  | it, Suite, and/or Bldg. No.) or P.O. F   | Route and Box No.   | Policy Number:   |
| City<br>NEPTUNE TOWNSHIP   | State Z<br>New Jersey C  | ZIP Code<br>07753   | Company NAIC Number  |
| SECTION C -  | BUILDING ELEVATION INFORM  | IATION (SURVEY R  | EQUIRED)   |
| <ul> <li>C1. Building elevations are based on:</li> <li>*A new Elevation Certificate will be re</li> <li>C2. Elevations – Zones A1–A30, AE, AH</li> <li>Complete Items C2.a–h below according</li> </ul> | Construction Drawings*<br>equired when construction of the bu<br>I, A (with BFE), VE, V1V30, V (with<br>ding to the building diagram specifi         | Building Under Constr<br>uilding is complete.<br>h BFE), AR, AR/A, AR<br>ed in Item A7. In Puer | uction* I Finished Construction<br>R/AE, AR/A1–A30, AR/AH, AR/AO.<br>to Rico only, enter meters. |
| Benchmark Utilized:GPS SMART   | NET Vertical Dati  | um: NAVD'88   |  |
| Indicate elevation datum used for the<br>NGVD 1929 X NAVD 19<br>Datum used for building elevations m   | e elevations in items a) through h) b<br>88  | elow.<br>ne BFE.  |  |
|  |  | . 6.94  | Check the measurement used.  |
| a) Top of bottom floor (including bas  | sement, crawlspace, or enclosure fl  | 00r)0, <u>04</u>  | [X] feet [_] meters  |
| b) Top of the next higher floor  |  | 14 10   | x feet meters  |
| c) Bottom of the lowest horizontal st  | ructural member (V Zones only)   | <u> </u>  | Keet I meters  |
| d) Attached garage (top of slab)   |  | <u> </u>  | × feet   |
| <ul> <li>e) Lowest elevation of machinery or<br/>(Describe type of equipment and</li> </ul>  | equipment servicing the building location in Comments)   | 12, 93  | X feet meters  |
| f) Lowest adjacent (finished) grade  | next to building (LAG)   | <u> </u>  | x feet meters  |
| g) Highest adjacent (finished) grade   | next to building (HAG)   | 8, 25   | X feet D meters  |
| <ul> <li>h) Lowest adjacent grade at lowest<br/>structural support</li> </ul>  | elevation of deck or stairs, including   | <u> </u>  | X feet meters  |
| SECTION D -  | - SURVEYOR, ENGINEER, OR A   | ARCHITECT CERTIF  | FICATION   |
| This certification is to be signed and seale<br>I certify that the information on this Certifi<br>statement may be punishable by fine or in  | ed by a land surveyor, engineer, or<br>cate represents my best efforts to i<br>mprisonment under 18 U.S. Code, S                                     | architect authorized b<br>nterpret the data avail<br>Section 1001.                              | y law to certify elevation information.<br>able. I understand that any false                     |
| Were latitude and longitude in Section A   | provided by a licensed land survey   | or? ⊠Yes □No  | Check here if attachments.   |
| Certifier's Name<br>WILLIAM E. McGRATH   | License Number<br>GS24194  |   |  |
| Title<br>PRESIDENT   |  |   |  |
| Company Name<br>McGRATH SURVEYING & WATERFROM  | NT CONSULTING, LLC   |   | Seal Mitter  |
| Address<br>321 MANTOLOKING ROAD, SUITE 2B  |  |   |  |
| City<br>BRICK  | State<br>New Jersey  | ZIP Code<br>08723   |  |
| Signature  | Date<br>05/10/2017   | Telephone<br>(848) 232-3820   |  |
| Copy all pages of this Elevation Certificate   | and all attachments for (1) communit   | y official, (2) insurance   | e agent/company, and (3) building owner  |
| Comments (including type of equipment a<br>LOWEST EQUIPMENT SERVICING THE<br>BOTTOM OF ELEC. METER ELEVATION<br>PROPERTY IN FEMA "PRELIMINARY FI<br>THERE ARE NINE (9) SMARTVENT MO<br>ATTACHED.         | IND IOCATION, PER C2(e), if applicable<br>EBUILDING IS AN AIR COND. INIT<br>N 12.00.<br>LOOD INSURANCE RATE MAP'' (<br>DEL# 1540-510 INSTALLED IN TH | :)<br>1 ON AN OUTSIDE PI<br>1/30/2015) ZONE AE,<br>HE PERIMETER FOU                             | ATFORM ELEV. 12.93.<br>BASE FLOOD ELEV. 10 FT.<br>NDATION. ICC CERTIFICATION                     |
|  |  |   |  |

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| ELEVATION CERTIFICATE  |  |   | OMB No. 1660-0008<br>Expiration Date: Nove                 | ember 30, 2018   |
|--|--|---|--|--|
| IMPORTANT: In these spaces, copy the corresponding information from Section A.                                       |  |   | FOR INSURANCE C  | OMPANY USE   |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 119 FAIRVIEW PLACE |  |   | Policy Number: .   | ··· ·· · · · · · · · · · · · · · · · ·                           |
|  | State<br>New Jersey  | ZIP Code<br>07753                                     | Company NAIC Num   | nber   |
|  |  | PMATION (SURVEY N                                     |  | allen Maaren kaldan kalen alle kalen alle kalen an an an ar<br>1 |
|  | FOR ZONE AO AND ZON  | EA (WITHOUT BFE)                                      |  |  |
| For Zones AO and A (without BFE), comple<br>complete Sections A, B,and C. For Items E<br>enter meters.               | te Items E1E5. If the Certific<br>I-E4, use natural grade, if av | cate is intended to supp<br>vailable. Check the meas  | ort a LOMA or LOMR-F re<br>surement used. In Puerto I      | quest,<br>Rico only,   |
| E1. Provide elevation information for the fo<br>the highest adjacent grade (HAG) and                                 | llowing and check the approp<br>the lowest adjacent grade (L,    | oriate boxes to show whe<br>AG).                      | ether the elevation i <b>s</b> abov                        | e or below   |
| a) Top of bottom hoor (including base<br>crawlspace, or enclosure) is  | nent,  |   | eters above or the   | pelow the HAG.   |
| crawispace, or enclosure) is   |  | feet [_] m  | neter <b>s</b> above or t                                  | pelow the LAG.   |
| E2. For Building Diagrams 6~9 with perman  | nent flood opening <b>s</b> provided                             | in Section A Items 8 an                               | d/or 9 (see pages 1-2 of I                                 | nstructions),  |
| the diagrams) of the building is   | ·  | feet [] m   | neters above or t  | elow the HAG.  |
| E3. Attached garage (top of slab) is   | . <u> </u>   | [] feet [] m  | neters 🔲 above or 🗌 b                                      | elow the HAG.  |
| E4. Top of platform of machinery and/or ec<br>servicing the building is  | uipment  | feet [] m   | neter <b>s</b> 🔲 above or 🗌 b                              | elow the HAG.  |
| E5. Zone AO only: If no flood depth numbe floodplain management ordinance?   | r is available, is the top of the                                | e bottom floor elevated i<br>wn. The local official m | n accordance with the con<br>oust certify this information | nmunity' <b>s</b><br>in <b>S</b> ection G.                       |
| SECTION F - PROP   | ERTY OWNER (OR OWNE  | R'S REPRESENTATIVE                                    | ) CERTIFICATION  |  |
| The property owner or owner's authorized r<br>community-issued BFE) or Zone AO must s                                | epresentative who completes<br>sign here. The statements in t    | Sections A, B, and E fo<br>Sections A, B, and E are   | or Zone A (without a FEMA<br>e correct to the best of my   | A-i <b>ss</b> ued or<br>knowledge.                               |
| Property Owner or Owner's Authorized Rep   | resentative's Name   |   |  |  |
| Address  | (  | City  | State Z  | IP Code  |
| Signature  | Γ  | Date  | Telephone  |  |
| Comments   |  |   |  |  |
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|  |  |   | Check here   | if attachment <b>s</b> .   |
|  |  |   |  |  |

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| ELEVATION CERTIFICATE   |  |   | OMB No. 1660-0008<br>Expiration Date: November 30, 2018                                 |
|---|--|---|---|
|   |  |   | FOR INSURANCE COMPANY USE   |
| Building Street Address (including Apt., Unit, S<br>119 FAIRVIEW PLACE  | Suite, and/or Bldg. No.) o   | r P.ORoute and Box                                | No. Policy Number:  |
| City  | State  | State ZIP Code Company NAIC N                     |   |
| NEPTUNE TOWNSHIP  | New Jersey   | 07753   |   |
| SECTI   | ION G - COMMUNITY IN   | IFORMATION (OPTIC                                 | ONAL)   |
| The local official who is authorized by law or c<br>Sections A, B, C (or E), and G of this Elevatio<br>used in Items G8–G10. In Puerto Rico only, e | ordinance to administer th<br>n Certificate. Complete th<br>nter meters. | ne community's floodp<br>ne applicable item(s) a  | plain management ordinance can complete<br>and sign below. Check the measurement        |
| G1. The information in Section C was ta<br>engineer, or architect who is authori<br>data in the Comments area below.)                               | ken from other document<br>ized by law to certify elev                   | tation that has been s<br>ation information. (Inc | igned and sealed by a licensed surveyor,<br>licate the source and date of the elevation |
| G2. A community official completed Sec<br>or Zone AO.   | tion E for a building locat  | ed in Zone A (without                             | a FEMA-issued or community-issued BFE)  |
| G3. The following information (Items G4   | G10) is provided for co  | mmunity floodplain ma                             | anagement purposes.   |
| G4. Permit Number   | G5. Date Permit Issue  | ed  | G6. Date Certificate of<br>Compliance/Occupancy Issued                                  |
| G7. This permit has been issued for: [  | New Construction   | Substantial Improven                              | nent  |
| G8. Elevation of as-built lowest floor (includir<br>of the building:  | ng basement)   |   | 🗌 feet 🔲 meters Datum   |
| G9. BFE or (in Zone AO) depth of flooding at  | t the building site:   | ·   | ☐ feet ☐ meters Datum   |
| G10. Community's design flood elevation:  |  | ·   | feet meters Datum   |
| Local Official's Name   |  | Title   |   |
| Community Name  | ·······  | Telephone   |   |
| Signature   |  | Date  |   |
| Comments (including type of equipment and lo  | ocation, per C2(e), if appl  | icable)   |   |
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|   |  |   | Check here if attachments.  |

## **ELEVATION CERTIFICATE**

# **BUILDING PHOTOGRAPHS**

See Instructions for Item A6.

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

| IMPORTANT: In these spaces, copy the                              | FOR INSURANCE COMPANY USE         |                        |                     |
|---|-----------------------------------|------------------------|---------------------|
| Building Street Addres 3 (including Apt., U<br>119 FAIRVIEW PLACE | Init, Suite, and/or Bldg. No.) or | P.O. Route and Box No. | Policy Number:      |
|   | State<br>New Jersey               | ZIP Code<br>07753      | Company NAIC Number |

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 Caption FRONT OF 119 FAIRVIEW DRIVE



Photo Two Caption REAR OF 119 FAIRVIEW PLACE



Photo Two Caption EAST SIDE OF 119 FAIRVIEW PLACE



**ICC-ES** Report

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# ESR-2074

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Reissued 02/2017 This report is subject to renewal 02/2019.

# 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

**EVALUATION SUBJECT:** 

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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# **ICC-ES Evaluation Report**

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Reissued February 2017

ESR-2074

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

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<sup>®</sup> AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

#### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)<sup>†</sup>

 $^\dagger The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.$ 

#### Properties evaluated:

- Physical operation
- Water flow
- 2.0 USES

The Smart Vent<sup>®</sup> units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

#### 3.0 DESCRIPTION

#### 3.1 General:

When subjected to rising water, the Smart Vent<sup>®</sup> FVs internal floats are activated, 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 FV 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 door to rotate out of the way and allow flow.

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This report is subject to renewal February 2019.

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent<sup>®</sup> Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

#### 3.2 Engineered Opening:

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] 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 FVs must be installed in accordance with Section 4.0.

#### 3.3 Ventilation:

The SmartVENT<sup>®</sup> Model #1540-510 and SmartVENT<sup>®</sup> Overhead Door Model #1540-514 both have screen covers with <sup>1</sup>/<sub>4</sub>-inch-by-<sup>1</sup>/<sub>4</sub>-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm<sup>2</sup>) of net free area to supply natural ventilation. The SmartVENT<sup>®</sup> 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 FVs recognized in this report do not offer natural ventilation.

### 4.0 DESIGN AND INSTALLATION

SmartVENT<sup>®</sup> and FloodVENT<sup>®</sup> 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. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent<sup>®</sup> FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m<sup>2</sup>) of enclosed area, except that the SmartVENT<sup>®</sup> Stacking Model #1540-511 and FloodVENT<sup>®</sup> Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m<sup>2</sup>) of enclosed area.
- Below the base flood elevation.

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With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.

### 5.0 CONDITIONS OF USE

The Smart Vent<sup>®</sup> FVs 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<sup>®</sup> FVs 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<sup>®</sup> FVs 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 Mechanically Operated Flood Vents (AC364), dated August 2015.

### 7.0 IDENTIFICATION

The Smart VENT<sup>®</sup> 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).

| MODEL NAME                           | MODEL NUMBER | MODEL SIZE (in.)   | COVERAGE (sq. ft.) |
|--------------------------------------|--------------|--|--------------------|
| FloodVENT®                           | 1540-520     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| SmartVENT <sup>®</sup>               | 1540-510     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| FloodVENT <sup>®</sup> Overhead Door | 1540-524     | 15 <sup>3</sup> /4" X 7 <sup>3</sup> /4"                           | 200                |
| SmartVEN <sup>T®</sup> Overhead Door | 1540-514     | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| Wood Wall FloodVENT <sup>®</sup>     | 1540-570     | 14" X 8 <sup>3</sup> / <sub>4</sub> "                              | 200                |
| Wood Wall FloodVENT® Overhead Door   | 1540-574     | 14" X 8 <sup>3</sup> / <sub>4</sub> "                              | 200                |
| SmartVENT <sup>®</sup> Stacker       | 1540-511     | 16" X 16"  | 400                |
| FloodVent <sup>®</sup> Stacker       | 1540-521     | 16" X 16"  | 400                |

### TABLE 1-MODEL SIZES

For SI: 1 inch = 25.4 mm; 1 square foot =  $m^2$ 

Page 2 of 3

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.

| SECTION A - PROPERTY INFORMATION   | FOR INSURANCE COMPANY USE                                    |
|--|--|
| A1. Building Owner's Name<br>JAMES SPINELLI & JACQUELINE SHARROCK  | Policy Number:   |
| <ul> <li>A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and<br/>Box No.</li> <li>104 MELROSE AVENUE</li> </ul>  | Company NAIC Number:   |
| City State<br>NEPTUNE New Jersey   | ZIP Code<br>07753  |
| A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)<br>LOT 5, BLOCK 5321  | ······································                       |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL   | · · · · · · · · · · · · · · · · · · ·                        |
| A5. Latitude/Longitude: Lat. 40.19174 Long74.03982 Horizontal Dat  | tum: 🗌 NAD 1927 🛛 🗙 NAD 1983                                 |
| A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood ins   | urance.  |
| A7. Building Diagram Number6   |  |
| A8. For a building with a crawlspace or enclosure(s):  |  |
| a) Square footage of crawlspace or enclosure(s) 967.20 sq ft   |  |
| b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot abo  | ve adjacent grade 6  |
| c) Total net area of flood openings in A8.b <u>1230.00</u> sq in   |  |
| d) Engineered flood openings? 🛛 Yes 🗌 No   |  |
| A9. For a building with an atteched garage:  |  |
| a) Square footage of attenched garage N/A sq ft  |  |
| b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacer   | ntorade N/A  |
| c) Total net area of flood openings in A9.b N/A sg in  |  |
| d) Engineered flood openings?  |  |
| SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORM   |  |
| B1. NFIP Community Name & Community Number B2. County Name   | B3. State  |
| TOWNSHIP OF NEPTUNE 340317 MONMOUTH  | New Jersey   |
| B4. Map/Panel B5. Suffix B6. FIRM Index Date B7. FIRM Panel B8. Flood B9<br>Number Date B7. FIRM Panel B8. Flood B9<br>Pavised Date B7. Suffix Zone(s)   | . Base Flood Elevation(s)<br>(Zone AO, use Base Flood Depth) |
| 34025C0333 F 09-25-2009 09-25-2009 AE 9.0  | )  |
| B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in It  | em B9:   |
|  |  |
|  |  |
| B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988   | Other/Source:  |
| B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988<br>B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Pro  | Other/Source:  |
| <ul> <li>B11. Indicate elevation datum used for BFE in Item B9: □ NGVD 1929 ⊠ NAVD 1988 □ 0</li> <li>B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Pro Designation Date: □ CBRS □ OPA</li> </ul> | Other/Source:<br>otected Area (OPA)?                         |

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|   |   |   | OMB No<br>Expiratio                        | o. 1660-00<br>on Date: N | 108<br>Iovember 30, 2018 |                                       |
|---|---|---|--|--------------------------|--------------------------|---------------------------------------|
| IMPORTANT: In these spaces, copy the corresponding information from Section A.  |   |   | FOR INSURANCE COMPANY USE                  |                          |                          |                                       |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.<br>104 MELROSE AVENUE                         |   |   | Box No.                                    | Policy I                 | Number:                  |                                       |
| City<br>NEPTUNE   | State<br>New Jersey   | ZIP Code<br>07753   |  | Compa                    | NAIC N                   | lumber                                |
| SECTION C BI  | JILDING ELEVATION INF   | ORMATION  | SURVEY RE                                  | QUIRE                    | D)                       | · ·                                   |
| C1. Building elevations are based on: [<br>*A new Elevation Certificate will be req   | ] Construction Drawings*<br>uired when construction of t                                    | Building U De building is c                               | Inder Construc<br>complete.                | tion*                    | 🔀 Finist                 | ned Construction                      |
| C2. Elevations – Zones A1–A30, AE, AH, A<br>Complete items C2.a–h below accordi   | A (with BFE), VE, V1–V30, A<br>ng to the building diagram s                                 | / (with BFE), A pecified in Item                          | R, AR/A, AR/A<br>A7. In Puerto             | AE, AR/<br>Rico o        | A1-A30, A<br>nly, enter  | AR/AH, AR/AO.<br>meters.              |
| Benchmark Utilized: LOCAL BENCH   | Vertica   | I Datum: <u>NAV</u>                                       | 0 1988                                     |                          |                          |                                       |
| Indicate elevation datum used for the e   | levations in items a) through   | h h) below.   |  |                          |                          |                                       |
| NGVD 1929 X NAVD 1988   | b U Other/Source:   | for the BEE   |  |                          |                          |                                       |
|   |   |   |  | Che                      | ck the me                | asurement used.                       |
| a) Top of bottom floor (including base  | ment, crawlspace, or enclos   | ure floor)  |  | 6.32                     | 🗙 feet                   | meters                                |
| b) Top of the next higher floor   |   | <u></u>   | 1  | 2.10                     | 🗙 feet                   | meters                                |
| c) Bottom of the lowest horizontal stru   | ctural member (Ý Zones onl  | V)  |  | N/A                      | 🗌 feet                   | meters                                |
| d) Attached garage (top of slab)  |   |   |  | N/A                      | 🗌 feet                   | meters                                |
| e) Lowest elevation of machinery or e<br>(Describe type of equipment and lo   | quipment servicing the build<br>cation In Comments)   | ling  | 1  | 2.43                     | 🗙 feet                   | meters                                |
| f) Lowest adjacent (finished) grade ne  | ext to building (LAG)   |   |  | 5.79                     | 🗙 feet                   | meters                                |
| g) Highest adjacent (finished) grade n  | ext to building (HAG)   |   |  | 6.03                     | 🗙 feet                   | meters                                |
| <ul> <li>h) Lowest adjacent grade at lowest ele<br/>structural support</li> </ul>   | evation of deck or stairs, inc  | luding  |  | 5.97                     | 🔀 feet                   | meters                                |
| SECTION D - 5   | SURVEYOR, ENGINEER.   | OR ARCHITE  | CT CERTIFIC                                |                          | N 1/a                    | -1-70                                 |
| This certification is to be signed and sealed<br>I certify that the information on this Certifica<br>statement may be punishable by fine or imp | by a land surveyor, engined<br>ate represents my best effort<br>prisonment under 18 U.S. Co | er, or architect<br>is to interpret to<br>ode, Section 10 | authorized by l<br>he data availab<br>001. | law to c<br>ble. I un    | certify elev             | ration information.<br>that any false |
| Were latitude and longitude in Section A pro  | ovided by a licensed land su  | ırveyor? ⊠`   | Yes 🗌 No                                   | × (                      | Check her                | e if attachments.                     |
| Certifier's Name<br>HOWARD A. TRANSUE   | License Nun<br>GS33541  | nber  |  |                          |                          |                                       |
| Title<br>PROFESSIONAL LA <b>N</b> D SURVEYOR  |   |   | -  |                          | as<br>P                  | 33541<br>Ace                          |
| Company Name<br>SCHAEFFER NASSAR SCHEIDEGG, CE,   | LLC   |   |  |                          | S                        | Seal                                  |
| Address<br>1425 CANTILLON BOULEVARD   |   |   | **************************************     |                          | н<br>Ц                   | lere                                  |
| City<br>MAYS LANDING  | State<br>New Jersey   | ŽIP<br>083  | Code<br>30                                 |                          | 11                       | 121/2518                              |
| Signature   | Date<br>11-21-2018  | Tele<br>(609  | phone<br>9) 625-7400                       | Ext.                     |                          |                                       |
| Copy all pages of this Elevation Certificate an   | d all attachments for (1) com   | munity official,  | (2) insurance a                            | gent/co                  | mpany, an                | d (3) building owner.                 |
| Comments (including type of equipment and<br>ITEM A8b VENTS ARE CRAWL SPACE DO<br>ITEM C2e IS THE A.C. PAD.                                     | l location, per C2(e), if appli<br>DOR SYSTEMS FLOOD VE                                     | cable)<br>NT MODEL 8 <sup>:</sup>                         | 16CS RATED /                               | AT 205                   | SQ. IN. E                | ACH.                                  |
|   |   |   |  |                          |                          |                                       |
|   |   |   |  |                          |                          |                                       |

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| ELEVATION CERTIFICATE  |  |   | Expiration Date                            | -0008<br>2: November 30, 2018                            |  |
|--|--|---|--|--|--|
| IMPORTANT: In these spaces, copy the correspon   | ding information   | from Section A.   | FOR INSURA                                 | NCE COMPANY USE  |  |
| Building Street Address (including Apt., Unit, Suite, an 104 MELROSE AVENUE  | nd/or Bldg. No.) or  | P.O. Route and Box No.                                      | Policy Number                              |  |  |
| City<br>NEPTUNE  | State<br>New Jersey  | ZIP Code<br>07753   | Company NAI                                | C Number   |  |
| SECTION E - BUILDING E<br>FOR ZOI  | SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED)<br>FOR ZONE AO AND ZONE A (WITHOUT BFE) |   |  |  |  |
| For Zones AO and A (without BFE), complete Items E complete Sections A, B,and C. For Items E1–E4, use enter meters.  | 1–E5. If the Certifi<br>natural grade, if a  | cate is intended to suppor<br>vailable. Check the measu     | t a LOMA or LOM<br>rement used. In P       | R-F request,<br>uerto Rico only,                         |  |
| <ul> <li>E1. Provide elevation information for the following an the highest adjacent grade (HAG) and the lowes</li> <li>a) Top of bottom floor (Including basement,</li> </ul> | d check the appro<br>tadjacent grade (L  | priate boxes to show whet AG).                              | her the elevation is                       | s above or below   |  |
| crawispace, or enclosure) is<br>b) Top of bottom floor (including basement,<br>crawispace, or enclosure) is  |  | [] feet [] met  | ters 🔲 above o<br>ters 🔲 above o           | $r \square$ below the HAG.<br>r $\square$ below the LAG. |  |
| E2. For Building Diagrams 6–9 with permanent flood<br>the next higher floor (elevation C2.b in   | openings provided  | d in Section A Items 8 and/                                 | /or 9 (see pages 1-                        | -2 of Instructions),                                     |  |
| the diagrams) of the building is<br>E3. Attached garage (top of slab) is   |  | [] feet [] me   | ters 🔲 above o<br>ters 🔲 above o           | $r \square$ below the HAG.                               |  |
| E4. Top of platform of machinery and/or equipment<br>servicing the building is   |  | [] feet [] me   | ters 🔲 above o                             | r 🗌 below the HAG.                                       |  |
| E5. Zone AO only: If no flood depth number is availa floodplain management ordinance?  | ble, is the top of th  | e bottom floor elevated in a<br>own. The local official mus | accordance with the st certify this inform | ne community's<br>nation in Section G.                   |  |
| SECTION F - PROPERTY OV  | WNER (OR OWNE  | R'S REPRESENTATIVE)   | CERTIFICATION                              | 16-1-70  |  |
| The property owner or owner's authorized representa community-issued BFE) or Zone AO must sign here.   | tive who completes<br>The statements In  | s Sections A, B, and E for<br>Sections A, B, and E are c    | Zone A (without a correct to the best      | FEMA-Issued or<br>of my knowledge.                       |  |
| Property Owner or Owner's Authorized Representativ   | e's Name   | · · · · · · · · · · · · · · · · · · ·                       | •  |  |  |
| Address  |  | City  | State                                      | ZIP Code   |  |
| Signature  |  | Date  | Telephone                                  |  |  |
| Comments   |  |   | 114  |  |  |
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OMB No. 1660-0008 Expiration Date: November 30, 2018

| ELEVATION CERTIFICATE  | Expiration Date: November 30, 2018 |                          |  |  |
|--|------------------------------------|--------------------------|--|--|
| IMPORTANT: In these spaces, copy the corresponding information from Section A.   |                                    |                          | FOR INSURANCE COMPANY USE                              |  |
| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 104 MELROSE AVENUE   |                                    |                          | Io. Policy Number:                                     |  |
| City<br>NEPTUNE  | State<br>New Jersey                | ZIP Code<br>07753        | Company NAIC Number                                    |  |
| SECTIO   | ON G - COMMUNITY INF               | ORMATION (OPTIO          | NAL) /6-170  |  |
| The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters. |                                    |                          |  |  |
| engineer, or architect who is authoriz<br>data in the Comments area below.)  | ed by law to certify eleva         | tion information. (Indic | ate the source and date of the elevation               |  |
| G2. A community official completed Section or Zone AO.   | on E for a building locate         | d in Zone A (without a   | a FEMA-Issued or community-issued BFE)                 |  |
| G3. The following information (Items G4–   | G10) is provided for com           | imunity floodplain mar   | agement purposes.                                      |  |
| G4. Permit Number  | G5. Date Permit Issue              | d                        | G6. Date Certificate of<br>Compliance/Occupancy Issued |  |
| G7. This permit has been issued for:   | ] New Construction 🔲 S             | Substantial Improveme    | ent  |  |
| G8. Elevation of as-built lowest floor (Including of the building:   | g basement)                        | C                        | ] feet [] meters Datum                                 |  |
| G9. BFE or (in Zone AO) depth of flooding at t   | the building site:                 | [                        | ] feet [] meters Datum                                 |  |
| G10. Community's design flood elevation:   |                                    | [                        | ] feet [] meters Datum                                 |  |
| Local Official's Name  |                                    | Title                    |  |  |
| Community Name   |                                    | Telephone                |  |  |
| Signature  |                                    | Date                     |  |  |
| Comments (including type of equipment and loc  | cation, per C2(e), if applic       | cable)                   |  |  |
|  |                                    |                          |  |  |
|  |                                    |                          |  |  |
|  |                                    |                          |  |  |
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|  |                                    |                          |  |  |
|  |                                    |                          | Check here if attachments.                             |  |

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#### **ELEVATION CERTIFICATE** See Instructions for Item A6.

# **BUILDING PHOTOGRAPHS**

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

| IMPORTANT: In these spaces, copy the                              | FOR INSURANCE COMPANY USE        |                        |                     |
|---|----------------------------------|------------------------|---------------------|
| Building Street Address (including Apt., Ur<br>104 MELROSE AVENUE | nit, Suite, and/or Bldg. No.) or | P.O. Route and Box No. | Policy Number:      |
| City<br>NEPTUNE   | State<br>New Jersey              | ZIP Code<br>07753      | Company NAIC Number |

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 Caption FRONT VIEW AND LEFT SIDE VIEW



Photo Two Caption FRONT VIEW AND RIGHT SIDE VIEW

Replaces all previous editions.

## **ELEVATION CERTIFICATE**

#### **BUILDING PHOTOGRAPHS** Continuation Page

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

|  | Contindatio                 |                        |                     |
|--|-----------------------------|------------------------|---------------------|
| IMPORTANT: In these spaces, copy the cor                               | FOR INSURANCE COMPANY USE   |                        |                     |
| Building Street Address (including Apt., Unit, S<br>104 MELROSE AVENUE | Suite, and/or Bldg. No.) or | P.O. Route and Box No. | Policy Number:      |
| City<br>NEPTUNE  | State<br>New Jersey         | ZIP Code<br>07753      | Company NAIC Number |

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 Three Caption REAR VIEW

Photo Three



# Certification of Engineered Flood Openings

In accordance with the Code of Federal Regulations for the National Flood Insurance Program

I hereby certify that the Crawl Space Door Systems flood vents 816CS, 1220CS, 1232CS, 1616CS, 1624CS, 1632CS, 2032CS, 2424CS, and 2436CS are designed are designed in accordance with the requirements of the Code of Federal Regulations for the National Flood Insurance Program (NFIP) to provide automatic equalization of hydrostatic flood forces by allowing for the entry and exit of floodwaters, when properly installed and sized as set forth below. Vent opening measurements were measured and certified by Mr. Christopher Mark Loney, Virginia P.E. NO. 029000. Detailed calculations were prepared as outlined in "Review of certification of Engineered Flood Openings," prepared by Dr. Georg Reichard, Associate Professorof Building Construction, Virginia Tech (available upon request from Crawi Space Door Systems, Inc. billy@crawispacedoors.com)

#### Design Characteristics

Section 2.6.2.2 of ASCE/SEI 24-05 provides an equation to determine the required <u>net area</u> of engineered openings (A<sub>o</sub>) for a given <u>enclosed area</u> (A<sub>e</sub>). This equation is based on the hydraulic formula for the flow rate across sharp edged orifices. I have utilized this equation to calculate 1) the restricted flow rate through the main frame opening in case the louver is blown out during a flood event; 2) the flow rate through the individual openings between louver blades; and 3) the flow rate through projected openings between louver blades following hydraulic short-tube theory. The maximum total enclosed area (A<sub>e</sub>) that can be serviced by a single vent has then been determined by utilizing the lowest flow rate of the three assessed scenarios for each vent and is listed in Table 1.

These values are based on the following assumptions:

- in absence of reliable data, the rates of rise and fall have been assumed at a minimum rate of 5 feet/hour; ',
- The (maximum) difference between the exterior and interior floodwater levels shall not exceed 1 foot during base flood conditions;
- A factor of safety of 5 has been assumed, which is consistent with design practices related to protection of life and property;
- The net area of openings (A<sub>o</sub>) as provided by the manufacturer.

#### Installation Requirements and Limitations

This certification will be voided if the following installation requirements and limitations are not enforced:

- There shall be a minimum of two openings on different sides of each enclosed area subject to flooding;
- The bottom of all openings shall be no higher than one foot
   given net are above the higher of the Interior or exterior grade that is immediately under each opening;
- \*) Model [in<sup>2</sup>] [ft<sup>4</sup>] [in] 105 205 816CS 8 x 16 1220CS 12 x 20 235 500 12 x 32 305 645 1232CS 1616CS 16 x 16 180 395 16x 24 310 670 1624CS 405 1632CS 16 x 32 835 630 2032CS 20 x 32 1240 570 2424CS 1230 24 x 24 2436CS 24 x 36 850 1765

HXW

Table 1 Maximum total <u>enclosed</u> <u>area</u> (A<sub>e</sub>) that can be serviced by each individual model based on the given <u>net area</u> of engineered openings (A<sub>o</sub>)

- No temporary (e.g. during cold weather) or permanent solid cover may be placed into or over the flood vent that would block the automatic entry or exit of floodwaters at any time;
- Where data or analyses indicate more rapid rates of rise and fall, the required number of openings shall be increased to account
  for those different conditions. The number or size of the openings may be decreased if data or analyses indicate rates of rise
  and fall are less than 5 feet per hour.

| Certifying Design Professional                                |                              | 16-170                                 |
|---|------------------------------|--|
| Name WILLIAMS. SWIDERSKI, P.E.                                | Title ENGINEER               |  |
| Company SWIDERSKI ASSSOCIATES                                 |                              |  |
| Address 599 SHORE ROAD SOMERS POINT, NJ                       |                              |  |
| License PROFESSIONAL ENGINEER                                 | License No. 24GE02048200     |  |
| signature: MM   | Date:                        | n sa in thus i ge<br>Gardin<br>Tha shi |
| Identification of the Building and Installed Fl               | ood Vents (By Others)        |  |
| The flood vent models marked in Table 1*) are being installed | d at the following building; | · · · · · · · · · · · · · · · · · · ·  |
| Building Address<br>104 MELROSE AVENUE NEPTUNE,               | NJ 07753                     |  |
| ' /   |                              |  |

Spring 2012

Ver. 2.0