DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency ELEVATION CERTIFICATE

IMPORTANT: FOLLOW THE INSTRUCTIONS ON PAGES 9-16

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

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner. FORM INSURANCE COMPANY USE SECTION A - PROPERTY INFORMATION A1 Building Owner's Name Policy Number: Mark Arbeit A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Box No. Number: 13 N. Rumson Ave. City CITY OF MARGATE State NJ Zip Code 08402 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 3 and Block 218 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL Long. W 074.5095 Horizontal Datum: A5. Latitude/Longitude: Lat. N 39.3264 **CNAD 1927** NAD 1983 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 8 A8. For a building with a crawlspace or enclosure(s): A9. For a building with an attached garage: a) Square footage of crawlspace or enclosure(s) 1200 sq. ft. a) Square footage of attached garage N/A b) Number of permanent flood openings in the *6 b) Number of permanent flood openings crawlspace or enclosure(s) within 1.0 foot in the attached garage within 1.0 foot N/A above adjacent grade above adjacent grade c) Total net area of flood openings in A8.b *1200 c) Total net area of flood openings in A9.b N/A sq in ONo d) Engineered flood openings? d) Engineered flood openings? CYes (No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number B2. County Name ATLANTIC COUNTY B3. State CITY OF MARGATE 345304 B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ B8. Flood Zone(s) B9. Base Flood Elevation(s) 345304 / 0001 Revised Date (Zone AO, use base flood A8** depth No index printed 10/18/1983 10** B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: CFIS Profile FIRM Community Determined Other/Source: B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? (CYes Designation Date: CBRS OPA SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) C1. Building elevations are based on: Construction Drawings* ○ Building Under Construction* 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. A new Elevation Certificate will be required when construction of the building is complete. Benchmark Utilized: private Vertical Datum: NGVD29 Indicate elevation datum used for the elevations in items a) through h) below.

NGVD 1929 NAVD 1988 Other/Source: Datum used for building elevations must be the same as that used for the BFE. Check the measurement used a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 9 0 (feet C meters 12.4 b) Top of the next higher floor (e) feet meters c) Bottom of the lowest horizontal structural member (V Zones only) C meters d) Attached garage (top of slab) N/A **O** meters e) Lowest elevation of machinery or equipment servicing the building 10.5**** (e) feet (meters (Describe type of equipment and location in Comments) f) Lowest adjacent (finished) grade next to building (LAG) C meters g) Highest adjacent (finished) grade next to building (HAG) () meters h) Lowest adjacent grade at lowest elevation of deck or stairs, including 8.2 (e) feet meters structural support

ELEVATION CERTIFICATE

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

13 N. Rumson Ave.

CITY OF MARGATE

NJ

08402

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. Were latitude and longitude in Section A provided by a licensed land surveyor? Check here if attachments. (Yes CNO Certifier's Name License Number Paul M. Koelling, PLS, CFM NJ24GS 04328800 PLACE Title Company Name SEAL Paul Koelling&AssocLLC-COA24GA28256300 Licensed Land Surveyor HERE City State Zip Code Address 2161 Shore Road Linwood 08221 Date Telephone Signature 3/08/2016 +1 (609) 927-0279 Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner. Comments (including type of equipment and location, per C2(e), if applicable)" *A8b.) Smart Vents Model #1540-510 engineered for 200 square inches of net area each **B8 & B9.) FEMA Pre-FIRM Zone "AE".....Base Flood Elevation 9 ft. (NAVD88) converted = 10.3 ft. (NGVD29) ***C2a.) crawlspace enclosure ****C2e.) exterior air unit elev. 11.6, ductwork elev. 10.5, furnace elev. 12.3, water heater elev. 13.0, electrical outlet elev. 12.8 Note: dwelling has a 25 sq. foot attached shed and 20 sq. ft. entrance steps area Date 3/08/2016 Signature SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO 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, crawlspace, above or below the HAG. Ofeet Ometers or enclosure) is b) Top of bottom floor (including basement, crawlspace, above or below the LAG. Cfeet Cmeters or enclosure) is 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 diagrams) of the building is E3. Attached garage (top of slab) is ☐ feet ☐ meters ☐ above or ☐ below the HAG. E4. Top of platform of machinery and /or equipment Cfeet C meters ☐ above or ☐ below the HAG. servicing the building is 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? OYes ONo OUnknown. 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 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: **ZIP Code** State Address Telephone Signature Comments Check here if attachments.

Building Photographs

4	See Instructions for Item A6.		For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg.) No. or P.O. Route and Box No. 13 N. Rumson Ave.			Policy Number
City	State	ZIP Code	Company NAIC Number
Margate	NJ	08402	

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





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

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





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

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



ICC-ES Evaluation Report

ESR-2074

Reissued February 1, 2009

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

www.icc-es.org | (800) 423-5587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 10—SPECIALTIES Section: 10230—Vents

REPORT HOLDER:

SMART VENT[®], INC.
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(856) 307-1468
www.smartvent.com
eval@smartvent.com

EVALUATION SUBJECT:

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

1.0 . EVALUATION SCOPE

Compliance with the following codes:

- 2006 International Building Code® (IBC)
- = 2006 International Residential Code® (IRC)

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

The Smart Vent[®] units are automatic foundation flood vents (AFFVs) employed to equalize hydrostatic pressure on nonfire-resistance-rated foundation walls, rolling-type overhead doors and building walls subject to rising or falling flood waters. Certain models also allow natural ventilation in accordance with Section 1203 of the IBC or Section 408.1 of the IRC.

3.0 DESCRIPTION

3.1 General:

When subjected to pressure from rising water, the Smart Vent® AFFVs disengage, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The AFFV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to

unlatch, allowing the plate to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel, and each opening provides 76 square inches (49 032 mm²) of net free area for flood mitigation in the open position. The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units each contain two vertically arranged openings per unit, providing 152 square inches (98 084 mm²) of net free area for flood mitigation in the open position.

3.2 Engineered Opening:

The AFFVs comply with the design principle noted in Section 2.6.2.2 of ASCE/SEI 24 for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent AFFVs must be installed in accordance with Section 4.0.

3.3 Model Sizes:

The FloodVENT™ Model #1540-520, SmartVENT™ Model #1540-510, FloodVENT™ Overhead Door Model #1540-524, and SmartVENT™ Overhead Door Model #1540-514 units measure 15³/₄ inches wide by 7³/₄ inches high (400 by 196.9 mm). The Wood Wall Flood Model #1540-570 and Wood Wall Flood Overhead Door Model #1540-574 units measure 14 inches wide by 5³/₄ inches high (355.6 by 222.25 mm). The SmartVENT™ Stacking Model #1540-511 and FloodVENT™ Stacking Model #1540-521 units measure 16 inches wide by 16 inches high (406.4 by 406.4 mm).

3.4 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with ¹/₄-inch-by-¹/₄-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT™ Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other AFFVs recognized in this report do not offer natural ventilation.

4.0 INSTALLATION

SmartVENT® and FicodVENT™ are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. The mounting straps allow mounting in wood, masonry and concrete walls up to 12 inches (305 mm) thick. In order to

