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

ELEVATION CERTIFICATE

IMPORTANT: Read the instructions on pages 1-9.

OMB No. 1660-0008 Expires July 31, 2015

220 N. Essex Avenue City City of Margate State New Jersey ZIP Code 08402 As Proper Decipion (Lot and Bock Number, Tax Parcel Number, Legal Description, etc.) Tax Lot 9, Block 405.02 As Building Ule og, Rasiental, Non-Residential Addition Accessory, etc.) Residential Nano 1927 [S] NAD 1923 As Building Ule og, Rasiental, Non-Residential Addition Accessory, etc.) Residential Datur: NAD 1927 [S] NAD 1983 As Attend that 2 phologapter at the building if the Certificate is being used to obtain flood insurance. A9. For a building with a nattended garage: 533 B of a building Ule composition the cravitypace or enclosure(): A9. For a building oblight in Code openings in the attended garage: 530 B of a building Ule composition the cravitypace or enclosure(): A9. For a building oblight in a statched garage: 530 B of a building Ule composition the cravitypace or enclosure(): A9. For a building oblight in Code oblight in the statched garage: 510000 5000000000000000000000000000000000000	PROPERTY INFORMATION FOR INSURANCE COMPANY USE	SECTION A
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City City of Margate State New Jersey 2IP Code 08402 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Tax Lot 9, Block 450.50 A4. Building Use (e. p. Residential Anon-Residential Addition Accessory, etc.) (Estidential Datum: □ NAD 1927, [2] NAD 1983 A6. Building Ogram Number 2. As an attacked parage: a consequence or enclosure(s): As For a building with an attacked garage: a statused or obtain flood insurance. A7. So are building with a consequence or enclosure(s): As for a building with an attacked garage: a statused not adove adjacent grade 2 C Total net area of flood openings in R4b D Soure Food Boord powerspace or enclosure(s): As for a building with an attacked garage: 323: the addition of the convergence or enclosure(s): As for a building with an attacked parage: 323: the addition of the convergence or enclosure(s): D Soure Food Boord powerspace or enclosure(s): As for a building with an attacked garage: 323: the addition of the convergence or enclosure(s): As for a building with an attacked parage: 323: the addition of the convergence or enclosure(s): D Soure Food Boord powerspace or enclosure(s): As for a building with an attacked parage: 323: the addition of the convergence or enclosure(s): As for a building with an attacked parage: 323: the addition of the convergence or enclosure(s): D Soure Food Boord Powereenclosure(s): D Soure Food B	.O. Route and Box No. Company NAIC Number:	
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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) 5.8 Getet meters b) Top of the next higher floor 13.4 Getet meters c) Bottom of the lowest horizontal structural member (V Zones only) NA MA Getet meters c) Attached garage (top of slab) 5.2 Getet meters meters e) Lowest elevation of machinery or equipment servicing the building 10.9 Setet meters f(Describe type of equipment and location in Comments) 5.1 Getet meters f) Lowest adjacent (finished) grade next to building (LAG) 5.1 Getet meters g) Highest adjacent (finished) grade next to building (HAG) 11.2 Getet meters h) Lowest adjacent grade at lowest elevation of deck or stairs, including 5.9 Set feet meters structural support Sectification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation ormation. I certify that the information on this Certificate represents my best efforts to interpret the data available. noterist that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. PLAC	Vertical Datum NAVD 1988	Benchmark Utilized GPS
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FEMA Form 086-0-33 (7/12)

Replaces all previous editions

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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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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[®] 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*[®] (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code[®] (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

 $^{\dagger} \text{The ADIBC}$ 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[®] 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[®] 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,

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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[®] Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT[®] Stacking Model #1540-511 and FloodVENT[®] 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[®] 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 FVs recognized in this report do not offer natural ventilation.

4.0 DESIGN AND INSTALLATION

SmartVENT[®] and FloodVENT[®] 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[®] 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 m²) of enclosed area, except that the SmartVENT[®] Stacking Model #1540-511 and FloodVENT[®] Stacking Model #1540-521 must be

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installed with a minimum of one FV for every 400 square feet (37.2 m^2) 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 grade or floor and finished exterior grade immediately under each opening.

5.0 CONDITIONS OF USE

The Smart Vent[®] 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[®] 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[®] 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[®] 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 ³ /4" X 7 ³ /4"	200	
SmartVENT [®]	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200	
FloodVENT [®] Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200	
SmartVENT [®] Overhead Door	1540-514	15 ³ /4" X 7 ³ /4"	200	
Wood Wall FloodVENT [®]	1540-570	14" X 8 ³ / ₄ "	200	
Wood Wall FloodVENT [®] Overhead Door	1540-574	14" X 8 ³ / ₄ "	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

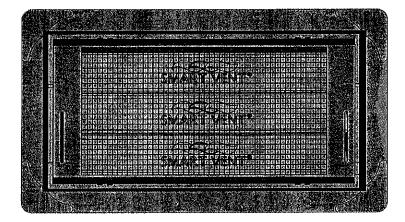


FIGURE 1-SMART VENT: MODEL 1540-510

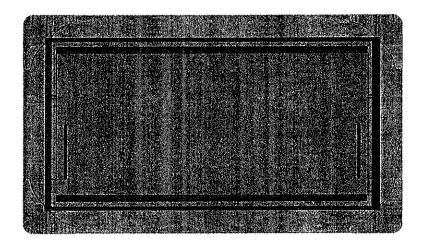


FIGURE 2-SMART VENT MODEL 1540-520

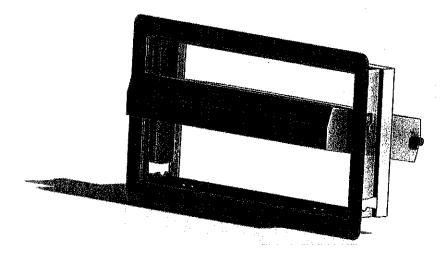


FIGURE 3-SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN