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

| Check here if attachments. | | 秦京 軍 医 日本 西北京 五年 五十五十五十五十五十五十五十五十五十五十五十五十五十五十五十五十五十五十 | |
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| 2. See 1. | | | |
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| a di | if applicable) | Comments (including type of equipment and location ther C2/e) if applicable) | Comments (in |
| 10 30 30 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | |
| | Date | | Signature |
| | Telephone | me | Community Name |
| | 1 | | O The N |
| | I ite | Name | Local Official's Name |
| | | | |
| meters Datum | feet | Community's design flood elevation: | G10. Commu |
| meters Datum | feet | BFE or (in Zone AO) depth of flooding at the building site: | G9. BFE or (|
| | | | |
| meters Datum | feet | Elevation of as-built lowest floor (including basement) of the building: | G8. Elevatio |
| | New Construction Substantial Improvement | This permit has been issued for: | G7. This per |
| | |] | |
| Date Certificate of Compliance/Occupancy Issued | G6. | 60418 B1 G5. Date Permit Issued | G4. Permit Number 1 1 − 1 6 C |
| | | | |
| ent purposes. | for community floodplain manageme | The following information (Items G4-G10) is provided for community floodplain management purposes | G3. The |
| A-issued or community-issued BFE) | g located in Zone A (without a FEM/ | A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO. | G2. A c |
| | | data in the Comments area below.) | data |
| nd sealed by a licensed surveyor, e source and date of the elevation | umentation that has been signed ar ly elevation information. (Indicate the | 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 | G1. The |
| nagement ordinance can complete below. Check the measurement | ister the community's floodplain man blete the applicable item(s) and sign | The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complet 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. | The local office Sections A, B used in Items |
| | SECTION G - COMMUNITY INFORMATION (OPTIONAL) | SECTION G - COMMUNI | |
| Company NAIC Number | ZIP Code 34275 | State Florida | City Nokomis |
| | | | 49U/ Topsall Drive |
| Policy Number: | No.) or P.O. Route and Box No. | Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. | Building Stree |
| FOR INSURANCE COMPANY USE | nation from Section A. | IMPORTANT: In these spaces, copy the corresponding information from Section A. | IMPORTANT: |

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

ELEVATION CERTIFICATE Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

| | SECT | SECTION A - PROPERTY INFORMATION | INFORMATION | | FOR INSUR | FOR INSURANCE COMPANY USE |
|---|--|---|--|---|----------------------------------|--|
| A1. Building Owner's Name NILOFER A. KHATRI & ADN | Owner's Name KHATRI & ADNAN A. KHAN | A. KHAN | | | Policy Number: | ber |
| A2. Building Street Address (including Apt., Box No. 4907 Topsail Drive | Address (inc | luding Apt., Unit, Suit | Unit, Suite, and/or Bldg. No.) or P.O. Route and | P.O. Route and | Company NAIC | AIC Number: |
| City Nokomis | | | State Florida | | ZIP Code 34275 | |
| A3. Property Descri | ption (Lot ar | A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Lot 14 of BLACKBURN RIDGE SUBDIVISON AS RECORDED IN PB 47 | Tax Parcel Number, Legal Description, etc. RECORDED IN PB 47 PGS 8, 8A-8F OF PL | al Description, etc.) | .) JBLIC RECORDS SAR | SARASOTA CO |
| A4. Building Use (e.g., | g., Resident | tial, Non-Residential, | Residential, Non-Residential, Addition, Accessory, etc.) | tc.) RESIDENTIAL | IAL | |
| A5. Latitude/Longitude: | | Lat. N27° 08' 26.57258" | Long. W82° 28'07.00142" | _ Horizontal | Datum: NAD 1927 | 1927 X NAD 1983 |
| A6. Attach at least 2 | 2 photograph | ns of the building if the | Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance | sed to obtain flood | insurance. | |
| A7. Building Diagram Number | n Number | 18 | | | | |
| A8. For a building w a) Square foots | ith a crawlsp | For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) | | 0.00 sq ft | | 8. |
| b) Number of pe | ermanent flo | od openings in the cra | b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade | (s) within 1.0 foot | above adjacent gra | ade 0 |
| c) Total net are | a of flood op | Total net area of flood openings in A8.b | 0.00 sq in | | | |
| d) Engineered flood openings? | lood openin | ☐ Yes ※ | No | | | |
| A9. For a building with an attached garage: | th an attach | ed garage: | | | | |
| a) Square footage of attached garage | ge of attach | ed garage | 1165.00 sq ft | | | |
| b) Number of permanent flood openings in | ermanent flo | the | attached garage within 1 | garage within 1.0 foot above adjacent grade | cent grade 7 | |
| c) Total net are | a of flood op | Total net area of flood openings in A9.b | 854.44 sq in | ∃ T | | |
| d) Engineered flood openings? | lood opening | gs? | lo I | | | |
| | SE | SECTION B - FLOOD I | FLOOD INSURANCE RATE MAP | MAP (FIRM) INFORMATION | DRMATION | |
| B1. NFIP Community Name Sarasota County #125144 | ំ កី | & Community Number | B2. County Name SARASOTA | Name | | B3. State Florida |
| B4. Map/Panel Number | B5. Suffix | B6. FIRM Index Date | B7. FIRM Panel Effective/ | B8. Flood Zone(s) | B9. Base Flood E (Zone AO, us | Base Flood Elevation(s) (Zone AO, use Base Flood Depth) |
| 12115C0239 | П | 11-04-2016 | 11-04-2016 | AE & VE | EL 12 & 11 | |
| B10. Indicate the source of the ☐ FIS Profile ☒ FIRM | ource of the | Base Flood Elevation (BFE) | Base Flood Elevation (BFE) data or base flood depth entered in Item B9 | ood depth entered | in Item B9: | |
| B11. Indicate elevat | lion datum u | Indicate elevation datum used for BFE in Item B9: | ☐ NGVD 1929 | X NAVD 1988 [| Other/Source: | |
| B12. Is the building located in a | located in a | Coastal Barrier Reso | Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? |) area or Otherwise | Protected Area (| OPA)? ☐ Yes ☒ No |
| Designation Date: | ate: | | CBRS OPA | | | |
| | | | | | 0 | 0 |

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

| Comments (including type of equipment and location, per C2(e), if applicable) The purpose of this certificate is to reflect the elevations of the final construction. Field data collected 10/21/2017. Site BM Based on National Geodetic Survey (NGS) PID #DJ3108. Recreation Level above the Garage has an ELV of 18.08' (NAVD 1988). The flood vents listed in A9 are engineered flood vents. Each vent is capable of venting 200 sq.ft., therefore the 7 smart vents will vent 1400 sq.ft. Please see attached ICC-ES Report for smart vent model 1540-520. The machinery in C2(e) is the A/C unit located on both N & S sides of the residence with the unit on the north having an ELV of 14.1', Building permitted and constructed in compliance prior to FIRM data, per LOMR 07-04-3837P, dated Jan. 17, 2008, Zone AE, BFE 11.0 NAVD 1988 (Converted from Zone A12, BFE 12.0 NGVD 1929) and Zone VE, BFE 12.0 NAVD 1988 (Converted from Zone V16, BFE 13.0 NGVD 1929). Conversion from NGVD29 to NAVD88 is -1.06' at this site. | Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner. | 0 | City State ZIP Code BRADENTON Florida 34205 | Address 518 13TH STREET WEST | Company Name OMC SURVEYING & MAPPING, LLC | Title PROF SURVEYOR | Certifier's Name License Number WALTER J. SMITH PLS #4807 | Were latitude and longitude in Section A provided by a licensed land surveyor? ⊠Yes ☐ No | This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevalerity that the information on this Certificate represents my best efforts to interpret the data available. I understand statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. | SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION | h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | g) Highest adjacent (finished) grade next to building (HAG) | f) Lowest adjacent (finished) grade next to building (LAG) | e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) | d) Attached garage (top of slab) | c) Bottom of the lowest horizontal structural member (V Zones only) | b) Top of the next higher floor | a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | ☐ NGVD 1929 区 NAVD 1988 ☐ Other/Source: Datum used for building elevations must be the same as that used for the BFE. | n used for the elev | Benchmark Utilized: NGS PID #DJ3108 EL=10.76' Vertical Datum: NAVD 1988 | 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, Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters. | 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. | SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED) | City State ZIP Code Nokomis Florida 34275 | Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 4907 Topsail Drive | IMPORTANT: In these spaces, copy the corresponding information from Section A. |
|---|---|--------|---|------------------------------|--|---------------------|---|--|---|--|--|---|--|--|----------------------------------|---|---------------------------------|---|--|---------------------|---|--|---|--|---|--|--|
| ted 10/21/2017. Site BM Based on f 18.08' (NAVD 1988). The flood vents smart vents will vent 1400 sq.ft. Please nit located on both N & S sides of the compliance prior to FIRM data, per A12, BFE 12.0 NGVD 1929) and Zone GVD29 to NAVD88 is -1.06' at this site. | agent/company, and (3) building owner | Ext. V | Willash 10 | Here | Seal | | 6 (3.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | X Check here if attachments. | y law to certify elevation information. able. I understand that any false | -ICATION | N/A feet meters | 8.10 X feet meters | 5.10 ⊠ feet ☐ meters | 14.10 🗵 feet 🗌 meters | 8.31 X feet meters | N/A feet meters | 28.15 X feet meters | 14.03 X feet measurement used. | | | | t/AE, AR/A1–A30, AR/AH, AR/AO. to Rico only, enter meters. | uction* X Finished Construction | (EQUIRED) | Company NAIC Number | Policy Number: | FOR INSURANCE COMPANY USE |

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

| leck nere if attachments. | Cneck | | | | | | |
|--|---|--|--|---|---|--|---|
| | | | | | | | |
| | > | | | 3 2 | | 33 | Comments |
| 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | Telephone | | Date | N ₂ | n:4 | F 2 | Signature |
| ZIP Code | State | | City | | | 2 2 | Address |
| ut a FEMA-issued or best of my knowledge. | r Zone A (without a correct to the best | IS A, B, and E for A, B, and E are o | ompletes Sections | rized representative who completes Sections A, B, and E for Zone A (without a must sign here. The statements in Sections A, B, and E are correct to the best at Representative's Name | The property owner or owner's authorized representative who completes Sections community-issued BFE) or Zone AO must sign here. The statements in Sections A Property Owner or Owner's Authorized Representative's Name | y owner or own issued BFE) or wner or Owner | The proper community- |
| 2 | CEBTIEICATI | DESENTATIVE | OWNED'S DED | OTV OWNED OF | | 0 | 1 |
| ត្ត ០ | accordance w ust certify this in | ı floor elevated in e local official mu | top of the bottom] Unknown. The | is available, is the Yes ☐ No ☐ | Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with th floodplain management ordinance? Yes No Duknown. The local official must certify this inform | \O only: If no fla ain manageme | E5. Zone A |
| ve or □ below the HAG. | eters 🔲 above or | ☐ feet ☐ meters | | ipment | Top of platform of machinery and/or equipment servicing the building is | Top of platform of mach servicing the building is | E4. Top of servici |
| ve or below the HAG. | meters | ☐ feet ☐ me | | | of slab) is | Attached garage (top of slab) is | E3. Attach |
| pages 1–2 of Instructions), above or below the HAG. | (see | ion A Items 8 and | provided in Secti | ent flood openings | For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 the next higher floor (elevation C2.b in feet meters | For Building Diagrams 6–9 with the next higher floor (elevation the diagrams) of the building is | E2. For Bu the nex the dia |
| above or below the HAG. | "iii | ☐ feet ☐ meters | | ent, | crawlspace, or enclosure) is Top of bottom floor (including basement crawlspace, or enclosure) is | crawlspace, or enclosure) is Top of bottom floor (including crawlspace, or enclosure) is | b) Top |
| . 0) | ther the elevati | xes to show whe | ıe appropriate bo grade (LAG). | owing and check th าe lowest adjacent ent, | ovide elevation information for the following highest adjacent grade (HAG) and the kas Top of bottom floor (including basement, | e elevation info hest adjacent (of bottom floo | E1. Provide the hig a) Top |
| 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. | ort a LOMA or Lurement used. | ntended to suppo Check the meas | ne Certificate is ir ade, if available. | e Items E1–E5. If the-E4, use natural gr | out BFE), completend C. For Items E1- | AO and A (with ections A, B,ans. | For Zones AC complete Sec enter meters. |
| D) | OT REQUIRED) | ON (SURVEY N | INFORMATIC | BUILDING ELEVATION INFORMATION (SURVEY NOT FOR ZONE AO AND ZONE A (WITHOUT BFE) | SECTION E - BUIL | န္ | |
| NAIC Number | Company NAIC | ZIP Code 34275 | ZIP Cc 34275 | State Florida | 0 K | | City |
| FOR INSURANCE COMPANY USE Policy Number: | FOR INSURAN | ute and Box No. | mation from Se | rresponding infor Suite, and/or Bldg | IMPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 4907 Topsail Drive | T: In these space eet Address (in ail Drive | IMPORTANT: In th Building Street Add 4907 Topsail Drive |

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

| MPORTANT: 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. | Policy Number: |
| 4907 Topsail Drive | |
| City State ZIP Code | Company NAIC Number |
| Nokomis Florida 34275 | |

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.

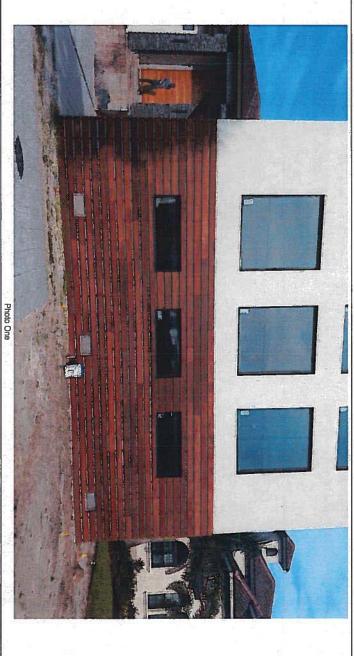


Photo One Caption Three Smart Flood Vents East face

Clear Photo One

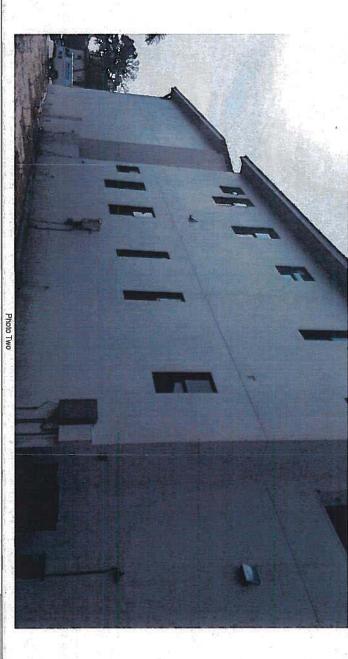


Photo Two Caption Three Smart Flood Vents North face

Replaces all previous editions.

Clear Photo Two
Form Page 5 of 6

BUILDING PHOTOGRAPHS

Continuation Page

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Nokomis 4907 Topsail Drive Florida State 34275 ZIP Code Policy Number: Company NAIC Number FOR INSURANCE COMPANY USE

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 One Flood Vent in Front

Clear Photo Three

Photo Four Caption

Form Page 6 of 6

Clear Photo Four

ELEVATION CERTIFICATE

See Instructions for Item A6.

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

IMPORTANT: In these spaces, copy the corresponding information from Section A **Nokomis** 4907 Topsail Drive Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. CHY State Florida 34275 ZIP Code Policy Number: Company NAIC Number FOR INSURANCE COMPANY USE

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

Photo One Caption One of Three Smart Flood Vents East face

Clear Photo One



Photo Two Caption Two of Three Smart Flood Vents East face

Clear Photo Two
Form Page 5 of 6

ELEVATION CERTIFICATE BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008 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. Policy Numbe | olicy Number: |
| 4907 Topsail Drive | |
| City State ZIP Code C | Company NAIC Number |
| Nokomis Florida 34275 | |

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 Three of Three Smart Flood Vents East face

Clear Photo Three



Photo Four Caption One of Three Smart Flood Vents North face

Form Page 6 of 6 Clear Photo Four

See Instructions for Item A6.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. SE 4907 Topsail Drive Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. **Nokomis** Florida State 34275 ZIP Code Company NAIC Number Policy Number: FOR INSURANCE COMPANY USE

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 or this page, use the Continuation Page.



Photo One Caption Two of Three Smart Flood Vents North face

Clear Photo One



Photo Two Caption Three of Three Smart Flood Vents North face

Replaces all previous editions.

Form Page 5 of 6

Clear Photo Two

Replaces

FEMA Form 086-0-33 (7/15)

BUILDING PHOTOGRAPHS

Continuation Page

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

Nokomis IMPORTANT: In these spaces, copy the corresponding information from Section A. City 4907 Topsail Drive Building Street Address (including Apt., Unit, Suite, and/or Bidg. No.) or P.O. Route and Box No. Florida State 34275 ZIP Code Policy Number: Company NAIC Number FOR INSURANCE COMPANY USE

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 Front View

Clear Photo Three



See Instructions for Item A6.

ELEVATION CERTIFICATE

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Nokomis 4907 Topsail Drive Florida State 34275 ZIP Code Policy Number: Company NAIC Number FOR INSURANCE COMPANY USE

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 South Side View, elevated A/C pad

Clear Photo One



BUILDING PHOTOGRAPHS

Continuation Page

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

IMPORTANT: In these spaces, copy the corresponding information from Section A. **Nokomis** 4907 Topsail Drive Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Florida State 34275 ZIP Code

FOR INSURANCE COMPANY USE to.

Policy Number:

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 North Face view looking West

Clear Photo Three





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CC-ES Report

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ESR-2074

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

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.

PITMAN, NEW JERSEY 08071 **430 ANDBRO DRIVE, UNIT 1**

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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to any finding or other matter in this report, or as to any product covered by the report. recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not





CC-ES Evaluation Report

ESR-2074

This report is subject to renewal February 2019. Reissued February 2017

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A Subsidiary of the International Code Council®

Section: 08 95 43—Vents/Foundation Flood Vents DIVISION: 08 00 00—OPENINGS

REPORT HOLDER:

PITMAN, NEW JERSEY 08071 SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 www.smartvent.com (877) 441-8368 into@smartvent.com

EVALUATION SUBJECT:

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, Code® (IBC) 2012, 2009 and 2006 International Building
- 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)^T

¹The 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

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

DESCRIPTION

3.1 General:

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, pressure from one side of the foundation to the other. The either direction to equalize water level and hydrostatic When subjected to rising water, the Smart Vent $^{\otimes}$ FVs internal floats are activated, then pivot open to allow flow in allowing the door to rotate out of the way and allow flow

> 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. Automatic The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Foundation Flood Vents are available 3

3.2 **Engineered Opening:**

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. 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

ယ Ventilation:

ventilation. 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 supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Overhead Door Model #1540-514 both have screen covers with '/4-inch-by-'/4-inch (6.35 by 6.35 mm) openings, SmartVENT® Model #1540-510 and SmartVENT®

DESIGN AND INSTALLATION

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: walls of any construction from the exterior side. vents must be in accordance with construction installed into walls or overhead doors of existing or new SmartVENT® Installation clips allow mounting in masonry and concrete instructions, the and thickness. In order to comply with the applicable the exterior FloodVENT® code side. are and the manufacturer's Installation designed this report. of the

- With a minimum of two openings on different sides of each enclosed area.
- feet (18.6 m²) of enurum feet (18.6 m²) of enurum Model stacking Model stacking Model stacking with a minimum of 400 square feet (37.2 m²) of enclosed area minimum of one FV for every 200 of enclosed area, except that the Stacking Model #1540-511 and Model el #1540-521 mi of one FV for must square
- 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).

TABLE 1-MODEL SIZES

| MODEL NAME | MODEL NUMBER | MODEL SIZE (in.) | COVERAGE (sq. ft.) |
|------------------------------------|--------------|--|--------------------|
| FloodVENT® | 1540-520 | $15^{3}/_{4}$ " $\times 7^{3}/_{4}$ " | 200 |
| SmartVENT® | 1540-510 | 15 ³ / ₄ " X 7 ³ / ₄ " | 200 |
| FloodVENT® Overhead Door | 1540-524 | 15 ³ / ₄ " × 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 |
| 3 | | 2 | |

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

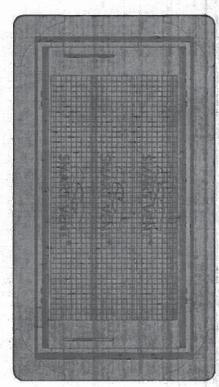


FIGURE 1—SMART VENT: MODEL 1540-510

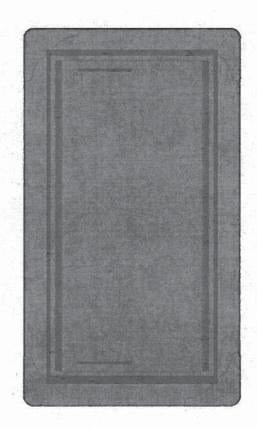


FIGURE 2—SMART VENT MODEL 1540-520

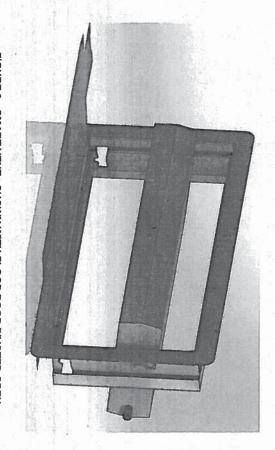


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN

ICC-ES **Evaluation Report**

ESR-2074 CBC and CRC Supplement

Issued January 2017

This report is subject to renewal February 2019

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Subsidiary of the International Code Council®

REPORT HOLDER:

DIVISION: 08 00 00—OPENINGS
Section: 08 95 43—Vents/Foundation Flood Vents

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368

www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

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

REPORT PURPOSE AND SCOPE

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 *International Building Code* (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 16 and 16A, as applicable

and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Wildland-Urban Interface Fire Area. The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design Areas or any

CRC:

The Smart Vent[®] Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code* (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland-Urban Interface Code®.

This supplement expires concurrently with the master report, reissued February 2017.



ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2017

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REPORT HOLDER:

Section: 08 95 43—Vents/Foundation Flood Vents

DIVISION: 08 00 00—OPENINGS

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368

EVALUATION SUBJECT:

www.smartvent.com

info@smartvent.com

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

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2014 Florida Building Code—Building (FBC)
- 2014 Florida Building Code—Residential (FRC)

2.0 CONCLUSIONS

ESR-2074, comply with the FBC and the FRC, provided the design and installation are in accordance with the *International Building Code®* provisions noted in the master report. The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report

Hurricane Zone provisions of the FBC and the FRC. Use of the Smart Vent® Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity

quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a uality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the

This supplement expires concurrently with the master report, reissued February 2017