## U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency

National Flood Insurance Program

**ELEVATION CERTIFICATE** 

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

| SECTION A - PROPERTY INFORMATION  | FOR INSURANCE COMPANY USE            |
|---|--------------------------------------|
| A1. Building Owner's Name: Lesley Lebel   | Policy Number:                       |
| A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: 6850 Hughes Street E0638 #3 RLF                        | Company NATC Number:                 |
| City: Town of Longboat Key State: FL  | ZIP Code: 34228                      |
| A3. Property Description (e.g., Lot and Block Numbers or Legal Description) and/or Tax Parcel Number 7780810259   | mber:                                |
| A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): Residential   |                                      |
| A5. Latitude/Longitude: Lat. 27.434610 Long82.680910 Horiz. Datum:  | NAD 1927 NAD 1983 WGS 84             |
| A6. Attach at least two and when possible four clear color photographs (one for each side) of the b   |                                      |
| A7. Building Diagram Number: 8  |                                      |
| A8. For a building with a crawlspace or enclosure(s):   |                                      |
| a) Square footage of crawlspace or enclosure(s): 1,471 sq. ft.  |                                      |
| b) Is there at least one permanent flood opening on two different sides of each enclosed area?  | ∑Yes ☐ No ☐ N/A                      |
| c) Enter number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot Non-engineered flood openings:  0 Engineered flood openings:  4 | above adjacent grade:                |
| d) Total net open area of non-engineered flood openings in A8.c. N/A sq. in.  |                                      |
| e) Total rated area of engineered flood openings in A8.c (attach documentation - see Instruction  | ons): 1,600 sq. ft.                  |
| f) Sum of A8.d and A8.e rated area (if applicable – see Instructions): N/A sq. ft.  | RECEIVED                             |
| A9. For a building with an attached garage:   |                                      |
| a) Square footage of attached garage: 487 sq. ft.   | Alig 15 2024                         |
| b) its there at least one permanent flood opening on two different sides of the attached garage?  | MYEN DENCOUCHAAT KEY                 |
| c) Enter number of permanent flood openings in the attached garage within 1.0 foot above adja  Non-engineered flood openings: 0 Engineered flood openings: 4  | Cent Grading, Zoning & Building      |
| d) Total net open area of mon-engineered flood openings in A9.c: 0 sq. in.  |                                      |
| e) Total rated area of engineered flood openings in A9.c (attach documentation – see Instructio   | ns):1,600 sq. ft.                    |
| f) Sum of A9.d and A9.e rated area (if applicable – see Instructions): N/A sq. ft.  |                                      |
| SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFOR   | MATION                               |
| B1.a. NFIP Community Name: Town of Longboat Key B1.b. NFIP Community Name: Town of Longboat Key   | nunity Identification Number: 125126 |
| B2. County Name: Manatee County B3. State: FL B4. Map/Panel No.: 1  | 2081 C0291 B5. Suffix: F             |
| B6. FIRM Index Date: 08/10/2021 B7. FIRM Panel Effective/Revised Date: 08/10/202  | 21                                   |
| B8. Flood Zone(s): AE B9. Base Flood Elevation(s) (BFE) (Zone AO, use B   | ase Flood Depth): 8                  |
| B10. Indicate the source of the BFE data or Base Flood Depth entered in Item B9:    FIS   FIRM   Community Determined   Other:                                |                                      |
| 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 Prote Designation Date: CBRS _ OPA                                | cted Area (OPA)? Yes No              |
| B13. Is the building located seaward of the Limit of Moderate Wave Action (LiMWA)? 📋 Yes 🔯 N  | ٠ .                                  |

OMB Control No. 1660-0008 Expiration Date: 06/30/2026

| 6850 Hughes Street  City: Town of Longboat Key  State: FL ZIP Code: 34228  Company NAIC Number:  Company NAIC Number:  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. |                      |  |  |  |  |
|--|----------------------|--|--|--|--|
| Company NAIC Number:  SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)  C1. Building elevations are based on: Construction Drawings* Devilding Under Construction* M. Finished Constru   |                      |  |  |  |  |
| C1. Building elevations are based on: Construction Drawings* Building Under Construction* M. Finished Constru  |                      |  |  |  |  |
| C1. Building elevations are based on:  Construction Drawings* Building Under Construction*  *A new Flevation Certificate will be required when construction of the building Under Construction*  |                      |  |  |  |  |
| Transfer Destruit destruit des required white it constitution of the building its complete.  | iction               |  |  |  |  |
| C2. Elevations – Zones A1–A30, AE, AH, AO, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AI A99. Complete Items C2.a–h below according to the Building Diagram specified in Item A7. In Puerto Rico only, enter met Benchmark Utilized: See Comments  Vertical Datum: N.A.V.D. 1988   | H, AR/AO,<br>ters.   |  |  |  |  |
| Indicate elevation datum used for the elevations in items a) through h) below.  [] NGVD 1929   NAVD 1988   Other:  |                      |  |  |  |  |
| Datum used for building elevations must be the same as that used for the BFE. Conversion factor used? Yes No If Yes, describe the source of the conversion factor in the Section D Comments area.  |                      |  |  |  |  |
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor): 5.1 🔀 feet 📋 me   | rement used<br>Iters |  |  |  |  |
| b) Top of the mext higher floor (see Instructions):  | ters                 |  |  |  |  |
| c) Bottom of the llowest horizontal structural member (see linstructions): N/A [] feet [] met  | ters                 |  |  |  |  |
| d) Attached garage (top of slab):  | ters                 |  |  |  |  |
| e) Lowest elevation of Machinery and Equipment (M&E) servicing the building (describe type of M&E and location in Section D Comments area):  | ters                 |  |  |  |  |
| f) Lowest Adjacent Grade (LAG) next to building: 🔲 Natural 🔯 Finished 4.2 🔘 feet 🗀 met   |                      |  |  |  |  |
| g) Highest Adjacent Grade (HAG) next to building: Natural Finished 6.2 feet met  |                      |  |  |  |  |
| h) Finished LAG at llowest elevation of attached deck or stairs, including structural support:  4.2   feet   met   |                      |  |  |  |  |
| SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION   |                      |  |  |  |  |
| This certification is to be signed and sealed by a land surveyor engineer or architect authorized by state low to certification.   |                      |  |  |  |  |
| false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.  | d that any           |  |  |  |  |
| Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No  | كسيان تنسأ           |  |  |  |  |
| Check here if attachments and describe in the Comments area.  AUG 15 20  | 024                  |  |  |  |  |
| Certifier's Name: Leo Mills, Jr. License Number: LS 3513   | SCAT KE              |  |  |  |  |
| Title: Professional Land Surveyor  | : Bullding           |  |  |  |  |
| Company Name: Leo Mills Surveying & Mapping, Inc.  Morris Signed by  |                      |  |  |  |  |
| Morris I   | Léo                  |  |  |  |  |
| City: Palmetto State: FL ZIP Code: 34221 Leo Mills Jr Date:  | 4                    |  |  |  |  |
| Telephone: (941) 722-2460 Ext.: Email: info@leomills.com Mills Jr 2024.08  | 8.14<br> 4 -04'00'   |  |  |  |  |
| Signature:   | 11                   |  |  |  |  |
| Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building   | ng owner.            |  |  |  |  |
| Comments (including source of conversion factor in C2; type of equipment and location per C2.e; and description of any attachm Source Bench Mark: Coastal Construction Control Line Monument 13 84 007 - Elevation = 3.92 Feet N.A.V.D   | nents):              |  |  |  |  |
| Ago: There are 4 years on one exterior wall of the garage and 4 years on 2 interior walls connecting the garage to the garage  |                      |  |  |  |  |
| space below residence. C2e: Elevation shown is top of platform for the a/c located along exterior wall. See Attachn for additional photos. See Attachment #2 for additional comments. See Attachment #3 for ICC-ES Evaluation Report Construction was permitted based on previous FEMA Map 12081C0291E dated 03/17/2014 with BFE of 9'.  |                      |  |  |  |  |

| Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.:  FOR INSURANCE COMPANY USE                         |  |  |  |  |  |
|---|--|--|--|--|--|
| OV T 21 1 (2)   | E0638#3 RLF Policy Number:                                     |  |  |  |  |
| City: Town of Longboat Key State: FL  | ZIP Code: <u>34228</u>   | Company NAIC Number:   |  |  |  |
| SECTION E - BUILDING MEASUREMENT INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO, ZONE AR/AO, AND ZONE A (WITHOUT BEE)                                  |  |  |  |  |  |
| For Zones AO, AR/AO, and A (without BFE), complete Items E1–E5. If intended to support a Letter of Map Change request, complete Section enter meters. | For Items E1–E4, use natural ones A, B, and C. Check the mea   | grade, if available. If the Certificate is<br>asurement used. In Puerto Rico only,   |  |  |  |
| Building measurements are based on:   | Building Under Constructio                                     | יח* 🔲 Finished Construction  |  |  |  |
| E1. Provide measurements (C.2.a in applicable Building Diagram) for measurement is above or below the natural HAG and the LAG.                        | the following and check the ap                                 | ppropriate boxes to show whether the   |  |  |  |
| a) Top of bottom floor (including basement, crawlspace, or enclosure) is:   | feet meters  | ☐ above or ☐ below the HAG.  |  |  |  |
| b) Top of bottom floor (including basement, crawlspace, or enclosure) is:   | feet meters  | above or below the LAG.  |  |  |  |
| E2. For Building Diagrams 6–9 with permanent flood openings provide next higher floor (C2.b in applicable Building Diagram) of the building is:       |  | _  |  |  |  |
| E3. Attached garage (top of slab) is:   |  | above or below the HAG.  |  |  |  |
| E4. Top of platform of machinery and/or equipment   | l feet l meters  | above or below the HAG.  |  |  |  |
| servicing the building is:  | feet meters  | above or below the HAG.  |  |  |  |
| E5. Zone AO only: If mo flood depth number is available, is the top of the floodplain management ordinance? Tyes In No Inki                           | ne bottom floor elevated in acc<br>nown The local official mus | cordance with the community's st certify this information in Section G.  |  |  |  |
| SECTION F - PROPERTY OWNER (OR OWNER'S A  | UTHORIZED REPRESENT  | FATIVE) CERTIFICATION  |  |  |  |
| The property owner or owner's authorized representative who complete sign here. The statements in Sections A, B, and E are correct to the be          | es Sections A, B, and E for Zo                                 | ne A ((without BFE) or Zone AO must  |  |  |  |
| Check there if attachments and describe in the Comments area.   | , J  |  |  |  |  |
| Property Owner or Owner's Authorized Representative Name:   |  |  |  |  |  |
| Address:  |  |  |  |  |  |
| City:   | State:   | ZIP Code:  |  |  |  |
| Telephone: Ext.: Email:   |  |  |  |  |  |
| Signature:  | Date:  |  |  |  |  |
| Comments:   |  | -  |  |  |  |
|   |  | and the Area of th |  |  |  |
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|   | 11.0   | IG 15 7024   |  |  |  |
|   |  | F LONGBOAT KEY   |  |  |  |
|   | TOWN O   | g, Zoning & Building   |  |  |  |
|   |  | ,  |  |  |  |
|   |  |  |  |  |  |
|   |  | II.  |  |  |  |

| Buildi  | ng Street Address (including Apt., Unit, Suite, and/or Bidg. No.)   |   | FOR INSURANCE COMPANY USE                      |  |  |  |
|---|---|---|--|--|--|--|
|   | T   | #3 RLF  | Policy Number:                                 |  |  |  |
| City:   | Town of Longboat Key State: FL  | _ ZIP Code: <u>34228</u>  | Company NAIC Number:                           |  |  |  |
|   | SECTION G - COMMUNITY INFORMATION (RECOMMENDED FOR COMMUNITY OFFICIAL COMPLETION)   |   |  |  |  |  |
| The lo  | ocal official who is authorized by law or ordinance to administe<br>on A, B, C, E, G, or H of this Elevation Certificate. Complete th | er the community's floodplain ma<br>ne applicable item(s) and sign be | nagement ordinance can complete low when:      |  |  |  |
| G1.   |   |   |  |  |  |  |
| G2.a.   | A local official completed Section E for a building located E5 is completed for a building located in Zone AO.                        | d in Zone A (without a BFE), Zon                                      | ne AO, or Zone AR/AO, or when item             |  |  |  |
| G2.b.   | A local official completed Section H for insurance purpose  | ses.  |  |  |  |  |
| ′G3.  | ☐ In the Comments area of Section G, the local official des   | scribes specific corrections to the                                   | e information in Sections A, B, E and H.       |  |  |  |
| G4.   | $\square$ The following information (Items G5–G11) is provided for  | or community floodplain manager                                       | nent purposes.                                 |  |  |  |
| G5.   | Permit Number: G6. Date Pe  | ermit Issued:   |  |  |  |  |
| G7.   | Date Certificate of Compliance/Occupancy Issued:  |   |  |  |  |  |
| G8.   | This permit has been issued for: New Construction   | Substantial Improvement   |  |  |  |  |
| ·G9.a.  | Elevation of as-built lowest floor (including basement) of the building:  | ☐ feet [  | meters Datum:                                  |  |  |  |
| G9.b.   | Elevation of bottom of as-built lowest horizontal structural member:  | ☐ feet  | meters Datum:                                  |  |  |  |
| G10.a   | BFE (or depth in Zone AO) of flooding at the building site:   |   | meters Datum:                                  |  |  |  |
| G10.b   | Community's minimum elevation (or depth in Zone AO) requirement for the lowest floor or lowest horizontal structura member:           | al ∏ feet ∏   | meters Datum:                                  |  |  |  |
| G11.  | Variance issued? Yes No If yes, attach docume   | entation and describe in the Com                                      |  |  |  |  |
| The local official who provides information in Section G must sign here. I have completed the information in Section G and certify that it is correct to the best of my knowledge. If applicable, I have also provided specific corrections in the Comments area of this section. |   |   |  |  |  |  |
| Local   | Official's Name:  | Title:  |  |  |  |  |
| NFIP (  | Community Name:   |   |  |  |  |  |
| Teleph  | one: Ext.: Email:   |   |  |  |  |  |
| Addres  | s:  |   |  |  |  |  |
| City:   |   |   | ZIP Code:                                      |  |  |  |
| Signati   | аге:  | Date:   |  |  |  |  |
| Comm  | ents (including type of equipment and location, per C2.e; desc  | ription of any attachments; and                                       | corrections to specific information in         |  |  |  |
| Section   | ns A, B, D, E, or H):   |   | RECEIVED                                       |  |  |  |
|   |   |   | AUG 15 2024                                    |  |  |  |
|   |   | TO  | WN OF LONGBOAT KEY Planning, Zoning & Building |  |  |  |

| Building Street Address (includ   | ing Apt., Unit, Suite                         |   |   | FOR INSURANCE COMPANY USE  |
|---|---|---|---|--|
| 6850 Hughes Street  |   |   | #3 RLF  | Policy Number:   |
| City: Town of Longboat Ke   | у   | State:FL  | ZIP Code: <u>34228</u>  | Company NAIC Number:   |
| SECTIO  | N H — BUILDING<br>(SURVEY NOT                 | G'S FIRST FLOO<br>REQUIRED) (FO                   | OR HEIGHT INFORMATION<br>OR INSURANCE PURPOSE                           | FOR ALL ZONES<br>S ONLY)   |
| to determine the building's firs<br>nearest tenth of a foot (neare:                               | it floor height for in<br>it tenth of a meter | isurance purposes.<br>in Puerto Rico). <i>Ri</i>  | Sections A. B. and I must also:   | be complete Section H for all flood zones be completed. Enter heights to the Diagrams (at the end of Section H complete this section.  |
| H1. Provide the height of the   | top of the floor (as                          | indicated in Found                                | dation Type Diagrams) above th  | e Lowest Adjacent Grade (LAG):   |
| a) For Building Diagram<br>floor (include above-grad-<br>crawlspaces or enclosure                 | ns 1A, 1B, 3, and<br>e floors only for bu     | 5-8. Top of bottom                                |   | meters above the LAG   |
| b) For Building Diagran<br>higher floor (i.e., the floor<br>enclosure floor) is:                  | ns 2A, 2B, 4, and<br>above basement,          | 6-9. Top of next crawlspace, or                   | feet [  | meters above the LAG   |
| H2. Is <b>all</b> Machinery and Equ<br>H2 arrow (shown in the F<br>Yes No                         | ipment servicing th<br>oundation Type Di      | ne building (as liste<br>agrams at end of S       | d in Item H2 instructions) elevat<br>Section H instructions) for the ap | ed to or above the floor indicated by the propriate Building Diagram?  |
|   |   |   | AUTHORIZED REPRESEN   |  |
| The property owner or owner's<br>A, B, and H are correct to the<br>indicate in Item G2.b and sign | best of my knowle                             | sentative who comp<br>dge. <b>Note:</b> If the lo | oletes Sections A, B, and H mus<br>cal floodplain management offic      | t sign here. The statements in Sections ial completed Section H, they should   |
| Check here if attachments   | are provided (inclu                           | uding required phot                               | os) and describe each attachme  | ent in the Comments area.  |
| Property Owner or Owner's Au  |   |   |   | j  |
| Address:  |   | <del></del>                                       |   |  |
| City:   |   |   | State:  | ZIP Code:  |
| Telephone:  | Ext.:   | Email:  |   |  |
| Signature:  |   |   | Date:   |  |
| Comments:   |   |   |   |  |
|   |   |   |   |  |
|   |   |   |   |  |
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|   |   |   |   | The second secon |
|   |   |   |   | VED  |
|   |   |   | Alig 15   | 2024   |
|   |   |   | TOWN OF LONG<br>Planning, Zoning  |  |
|   |   |   | g   |  |

IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11

#### **BUILDING PHOTOGRAPHS**

See Instructions for Item A6

| Building Street Address (including Apt., Unit, Suite, an<br>6850 Hughes Street   | nd/or Bldg. N            | No.) or P.O. Route and Box No.:        | FOR INSURAI                 | NCE COM     | PANY USE     |
|--|--------------------------|--|-----------------------------|-------------|--------------|
| O. T. (1 1 11)   |                          | 338#3 RLF                              | Policy Number:              |             |              |
| City. 10Wil of Longboat Rey  | State: F                 | L ZIP Code: 34228                      | Company NAIC                | Number:_    |              |
| Instructions: Insert below at least two and when pos<br>able to take front and back pictures of townhouses/r<br>"Right Side View," or "Left Side View." Photographs<br>close-up photograph of representative flood opening | rowhouses).<br>must show | . Identify all photographs with the da | to taken and "Froi          | of Mountain | 2005 1/104/1 |
|  |                          |  |                             |             |              |
| Photo One Caption: Front View  |                          | Photo One                              | ·                           | Clear P     | hoto One     |
|  |                          | Photo Two                              | Planning, Zoning & Building | AUG 157     |              |
| Photo Two Caption: Rear View   |                          |  |                             | Clear Ph    | ioto Two     |

## IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON INSTRUCTION PAGES 1-11 BUILDING PHOTOGRAPHS

Continuation Page

| Building Street Address (including Apt., Unit, Suit  |   |   | FOR INSURA                  | NCE COMPANY USE   |
|--|---|---|-----------------------------|---|
| 6850 Hughes Street City: Town of Longboat Key  | State: FL   | #3 RLF ZIP Code: 34228  | Policy Numbe<br>Company NAI | -   |
| Insert the third and fourth photographs below. I<br>View," or "Left Side View." When flood opening<br>vents, as indicated in Sections A8 and A9. | dentify all photograp<br>s are present, includ  | hs with the date taken and "Fron<br>le at least one close-up photogra | t View""Rear \              | View "Right Side  |
|  | THUMAN I THUMAN I THE TANK I THE |   |                             |   |
| Photo Three Caption: Right Side View from r  |   | o Tibree  |                             | Clear Photo Three   |
|  |   | O FOUR  |                             | AUG 1 5 7074  Fown of Longboat Key  John John John John John John John John |
| Photo Four Caption: Left Side View firom firon   | t   |   | -                           | Clear Photo Four  |

# ELEVATION CERTIFICATE IMPORTANT: MUST FOLLOW THE INSTRUCTIONS ON PAGES 9-19 BUILDING PHOTOGRAPHS – ATTACHMENT 1

See Instructions for Item A6.

| Building Street Address (including Apt, | Unit, Suite, and/or Bldg. No.) or P.O. F | Route and Box No.: | FOR INSURANCE COMPANY USE |
|---|--|--------------------|---------------------------|
| 6850 Hughes Street                      |  |                    | Policy Number:            |
| City: Longboat Key                      | State: Florida                           | ZIP Code: 34228    | Company NAIC Number:      |

Instructions: Insert below at least two and when possible four photographs showing each side of the building (for example, may only be able to take front and back pictures of townhouses/row houses. Identify all photographs with the date taken and "Front View," Rear View", Right Side View", or "Left Side View". Photographs must show the foundation. When flood openings are present, included at least one close-up photograph of representative flood openings or vents, as indicated in Section A8 and A9.

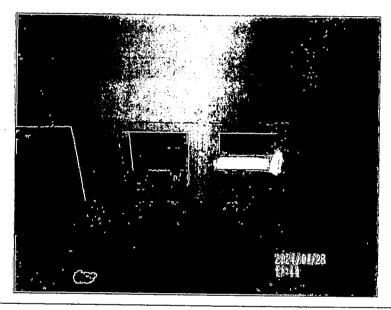
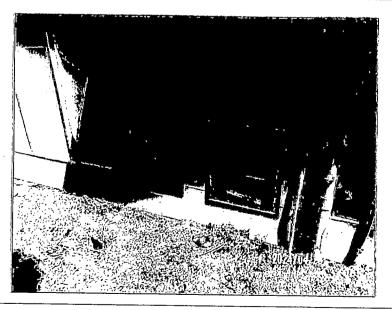


Photo Five Caption: Flood Vent - Inside View



AUG 15 7074

TOWN OF LONGBOAT KE

Photo Six Caption: Flood Vent - Outside View

E0618

FEMA Form FF-206-FY-22-152 (formerly 086-0-33) (08/23)

#### **ATTACHMENT 2**

E0638 #3 Final Elevation Certificate

Lesley Lebel 6850 Hughes Street Longboat Key, Florida 34228

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

It is the responsibility of the reviewer (Insurance Agents, Building Officials, etc) of this elevation certificate to analyze all of the data given in conjunction with a site visit to determine the proper Building Diagram Number (Item A7). The building diagram number shown in Item A7 is given as determined by the certificate preparer and should not be used for insurance rating or building compliance purposes unless verified by reviewer

#### ADDITIONAL COMMENTS:

A8e: Number shown represents the total rated area for the 4 openings. A9e: Number shown represents the total rated area for the 4 openings.

Flood Vent Stacker Smart Vents Model Number 1540-521 are installed in each opening. ICC-ES Report #ESR-2070 indicates a flow rate of 400 square inches for this model (see attachment 3).

Note: Calculations for rated area provided hereon are based on information established by others and are not certified as accurate by the signing surveyor.

Leo Mills Surveying & Mapping

Leo Mills, Jr.

Professional Surveyor and Mapper Florida Certificate Number 3513 06-27-24

Date

RECEIVED

AUG 15 2024

TOWN OF LONGBOAT KEY Planning, Zoning & Building

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

#### REPORT HOLDER:

## SMART VENT PRODUCTS, INC.

#### **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 FLOOD VENT SEALING KIT #1540-526

RECEIVED

AUG 15 2024
TOWN OF LONGBOAT KEY
Planning, Zoning & Building



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

A Subsidiary of con

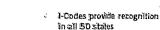


ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, I.A.C. express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









Specialty code recognition

A Subsidiary of the International Code Council®

## ICC-ES Evaluation Report ESR-2074

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

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

REPORT HOLDER:

SMART VENT PRODUCTS, INC.

**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
FLOOD VENT SEALING KIT #1540-526

#### 1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)
- 2021 and 2018 International Energy Conservation Code<sup>®</sup> (IECC)
- 2013 Abu Dhabi International Building Code (ADIBC)†

 $^{\dagger}$ Tihe 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 (IFVs) 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 mising water, the Smart Vent® FVs internel 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 mising water, the buoyant release device causes the unit to unlatch, allowing

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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 moit

#### 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/SEI24-05 (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 \$\frac{1}{4}\)-inch-by-\$\frac{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 described in this report do not offer natural ventilation.

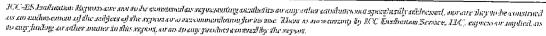
#### 3.4 Flood Vent Sealing Kit:

The Flood Vent Sealing Kit Model #1540-526 is used with SmartVENT® Model #1540-520. It is a Homasote 440 Sound Barrier® (ESR-1374) insert with 21 – 2-inch-by-2-inch (51 mm x 51 mm) squares cut in it. See Figure 4.

#### 4.0 DESIGN AND INSTALLATION

#### 4.1 SmartVENT® and FloodVENT®:

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 2.62.2 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 installed with a minimum of one FV for every 400 square feet (37.2 m²) 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.

#### 4.2 Flood Vent Sealing Kit

The Flood Vent Sealing Kit Model 1540-526 is used in conjunction with FloodVENT® Model #1540-520. When installed and tested in accordance with ASTM E283, the FV and Flood Vent Sealing Kit assembly have an air leakage rate of less than 0.2 cubic feet per minute per lineal foot (18.56 I/min per lineal meter) at a pressure differential of 1 pound per square foot (50 Pa) based on 12.58 lineal feet (3.8 lineal meters) contained by the Flood Vent Sealing Kit.

#### 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

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015 (editorially revised February 2021).
- 6.2 Test report on air infiltration in accordance with ASTM E283.

#### 7.0 IDENTIFICATION

- 7.1 The Smart VENT® models and the Flood Vent Sealing Kit described 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).
- 7.2 The report holder's contact information is the following:

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#### TABLE 1-MODEL SIZES

| MODEL NAME                         | MODEL<br>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®                         | 1540-510        | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| FloodVENT® Overhead Door           | 1540-524        | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| SmartVENT® Overhead Door           | 1540-514        | 15 <sup>3</sup> / <sub>4</sub> " X 7 <sup>3</sup> / <sub>4</sub> " | 200                |
| Wood Wall FloodVENT®               | 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® Stacker                 | 1540-511        | 16" X 16"  | 400                |
| -> FloodVent® Stacker              | (1540-521)      | 16" X 16"  | 400                |

For SI: 1 inch = 25.4 mm; 1 square foot = m<sup>2</sup>

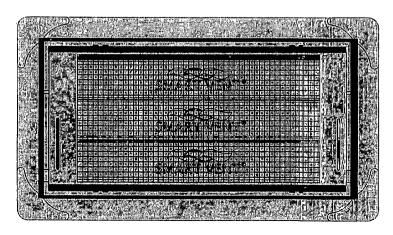


FIGURE 1-SMART VENT: MODEL 1540-510