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 Expiration Date: July 31, 2015

| | | SEC | CTION A - P | ROPERTY IN | FORMAT | ION | | |
|--|--|--|--|--|--|---|--|---|
| A1. Building Owner's Nam | e The Kuhn's | | | | | | -Policy: | Najajbia) (1997) |
| 3207 Sunset Ave. | | , Unit, Suite, and/o | r Bldg. No.) or | P.O. Route an | d Box No. | | Compa | iy NAIC Number. |
| City BOROUGH OF L | ONGPORT . | | State | NJ ZIP | Code 084 | 03 | 2. | |
| | | mbers, Tax Parcel | Number, Lega | al Description, | etc.) | | | L |
| A5. Latitude/Longitude: La A6. Attach at least 2 photo | t. N 39.3213 Lo graphs of the bu | ng. <u>W 074.5235</u> H | orizontal Datu | m: NAD 19 | 927 🛭 NA | | A | UG - 4 2015 |
| A8. For a building with a c a) Square footage of b) Number of perman or enclosure(s) with c) Total net area of flo | rawlspace or enc crawlspace or en ent flood opening nin 1.0 foot above ood openings in A penings? | closure(s) gs in the crawlspac e adjacent grade \text{\text{A8.b}} \text{\text{Yes} \text{No} | e 10* 2630* sq | ft | a) Squar b) Numb within c) Total i d) Engine | e footage of atte er of permanent 1.0 foot above a net area of flood eered flood oper | ached gar flood ope adjacent g openings nings? | age <u>539*</u> sq ft enings in the attached garage grade <u>3*</u> |
| | SECT | ION B – FLOOL | INSURANC | E RATE MA | P (FIRM) | INFORMATIO | N | |
| | | umber | | | | | B3. Stat NJ | e · |
| B4. Map/Panel Number 345302/ 0001 | B5. Suffix B | | Effe | | | B8. Flood Zone(s) A8** | | |
| FIS Profile B11. Indicate elevation datu B12. Is the building located | | ☐ Community De n Item B9: ☑ NG | etermined VD 1929 tem (CBRS) ar | Other/S NAVD 1 rea or Otherwis | ource: 988 | Other/Source: | | ☐ Yes ⊠ No |
| | SECTIO | N C - BUILDING | ELEVATION | N INFORMA | TION (SUF | RVEY REQUIR | RED) | |
| *A new Elevation Certific C2. Elevations – Zones A1–, below according to the b Benchmark Utilized: priv | cate will be requir A30, AE, AH, A (puilding diagram : r <u>ate</u> | red when construct with BFE), VE, V1- specified in Item A | ion of the build -V30, V (with E 7. In Puerto Ri Vertical D | ling is complet BFE), AR, AR/A co only, enter r atum: <u>NGVD</u> 1 | e. A, AR/AE, A neters. 1929 | NR/A1-A30, AR/ | AH, AR/A | O. Complete Items C2.a-h |
| | | | | | | | | 10 |
| b) Top of the next higher c) Bottom of the lowest I d) Attached garage (top e) Lowest elevation of m | floor norizontal structu of slab) achinery or equip | ral member (V Zon | es only) |) | 7.1*** 13.4 N/A 7.5 11.7**** | Ones. | feet feet feet feet feet feet feet | meters meters meters meters meters meters meters |
| f) Lowest adjacent (finis g) Highest adjacent (finis | hed) grade next shed) grade next | to building (LAG) to building (HAG) | rs, including st | ructural suppo | <u>7.1</u> <u>7.9</u> rt <u>N/A</u> . | . 11 | ⊠ feet ⊠ feet ⊠ feet | ☐ meters ☐ meters ☐ meters |
| City BOROUGH OF LONGPORT A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) BLOCK 8 9 LOT 3.02 & 3.03 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A5. Lathoufs-Inspitude: Lat. N. 38.32/13 Long. W. 074.5232 Horizontal Datum: NAD 1927 NAD 1983 AUG = 4 2015 A6. Hach at least 2 photographs of the building if the Gefficate is being used to obtain frood insvarance. A7. Building Diagram Number 7 A8. For a building with a crawispace or enclosure(s): a) Square footage of crawispace or enclosure(s): b) Number of permanent flood openings in the attached garage or enclosure(s) within 1.0 foot above adjacent grade above above above ab | | | | | | | | |
| information. I certify that the I understand that any false s Check here if comment | information on the statement may be s are provided on | his Certificate repre punishable by find | esents my besi e or imprisonm Were latitud | t efforts to inter eent under 18 t e and longitude | pret the date J.S. Code, on in Section | ta available. Section 1001. A provided by a | | SEAL |
| | | | | | | | | HERE |
| | or | | Paul H. Koelli | | | | 00 | |
| Becker and Man Samuel And Samuel Samu | | ###################################### | | | | | | |
| Signature | Talling | Date //22/15 | | Telephone | (609) 927 | -0279 | | |

| IMPORTANT: In these spaces, | copy the corresponding infor | nation fro | m Section A | | PROJECT | VSIDRAVIOE (| COMPANY USE |
|---|--|--|--|--|--|--|--|
| Building Street Address (including Ap 3207 Sunset Ave. | t., Unit, Suite, and/or Bldg. No.) or F | P.O. Route a | nd Box No. | | CATHAMAMAMA | Nijake : 1 | |
| City BOROUGH OF LONGPORT | S | itate NJ | ZIP Code 0 | 3403 | (| ny, NATO IN I | |
| SECTIO | N D - SURVEYOR, ENGINEER | OR ARCH | IITECT CER | TIFICATION (| CONTIN | UED) | ARTON ARTHUM STREET, ST. |
| Copy both sides of this Elevation Cer | tificate for (1) community official, (2) | insurance a | gent/company, | and (3) building | owner. | | |
| Comments *A8.) 1837 s. f. crawlspace vented w *A9.) 564 s. f. garage vented with 3 l **B8 & B9.) FEMA Pre-FIRM Zone " ***C2a.) crawlspace enclosure ****C2e.) exterior air unit elev. is 15. | JSA flood vents Model #FA-316 AE"Base Flood Elevation 9 ft. (N | 25 sq. ft. ele AVD88) con | vator shaft verted = 10.3 | ft. (NGVD29) | | see attached) | |
| Signature | elling | | 7/22/15 | | | | |
| | EVATION INFORMATION (SUR | VEY NOT | REQUIRED) | FOR ZONE A | O AND | ZONE A (WI | THOUT BFE) |
| b) Top of bottom floor (including E2. For Building Diagrams 6–9 with (elevation C2.b in the diagrams E3. Attached garage (top of slab) is E4. Top of platform of machinery and E5. Zone AO only: If no flood depth | grade, if available. Check the meas r the following and check the approparent grade (LAG). basement, crawlspace, or enclosur basement, crawlspace, or enclosur permanent flood openings provided of the building is [feet met d/or equipment servicing the building | urement use oriate boxes e) is e) is in Section A feet res abor g is e bottom floor | d. In Puerto Ri to show wheth I | co only, enter mer the elevation feet | eters. is above above above 3-9 of Ins the HAG | or below the he or Delow be or below tructions), the | nighest adjacent the HAG. the LAG. next higher floc HAG. |
| The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Address Signature | ments in Sections A, B, and E are c | Sections A, E | 3, and E for Zo | ne A (without a wledge. State | FEMA-iss | | unity-issued BFI |
| SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Address Signature Comments | zed representative who completes sments in Sections A, B, and E are c | Sections A, E orrect to the City | 3, and E for Zo | ne A (without a wledge. State | FEMA-iss | ZIP Code | |
| The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Address Signature | zed representative who completes s ments in Sections A, B, and E are co ed Representative's Name | Sections A, E orrect to the City Date | 3, and E for Zo best of my kno | ne A (without a wledge. State | FEMA-iss | ZIP Code | unity-issued BFI |
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| The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Address Signature Comments The local official who is authorized by law this Elevation Certificate. Complete the is authorized by law to certify A community official complete | SECTION G – COMMUN or or ordinance to administer the come applicable item(s) and sign below. O was taken from other documentation elevation information. (Indicate the d Section E for a building located in | City Date Date IITY INFORMULITY'S flood Check the mean that has be source and common and common and common at the common at t | RMATION (Ollplain managen assurement use en signed and date of the elevators) | PTIONAL) ment ordinance cod in Items G8–Cosealed by a lice varion data in the saued or communication. | phone an comple an comple an comple an comple comple comple comple comple comple | ZIP Code Check ete Sections A erto Rico only reyor, engineents area belov | here if attachman, B, C (or E), and, enter meters. er, or architect www.) |
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Building Photographs

| * * * * | Continuation | Continuation Page | | |
|---|---|---------------------------|---------------------|--|
| Building Street Address (includi 3207 Sunset Ave . | ng Apt., Unit, Suite, and/or Bldg.) No. o | or P.O. Route and Box No. | Policy Number | |
| City | State | ZIP Code | Company NAIC Number | |
| Longport | NJ | 08403 | 1 | |

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."





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)



Certification of Engineered Flood Openings

In accordance with NFIP, FEMA Technical Bulletin 1-08 and ASCE/SEI 24-05

Certification Statement

I hereby certify that the flood vents manufactured by USA Foundation Flood Air Vents (Model No's FO-316, FA-316, FOAL, FAAL, RFPC and RFSS) are designed in accordance with the requirements of the 2011 NFIP "Flood Insurance Manual" to provide automatic equalization of hydrostatic flood loads on exterior walls by allowing the automatic entry and exit of floodwaters during floods up to and including the base 100-year flood. The flood vents must be installed and sized properly as set forth by the requirements below. This certification follows the design requirements and specifications that are established in FEMA Technical Bulletin 1-08 and ASCE/SEI 24-05.

Design Characteristics

I hereby certify that I have measured the flood vent models listed below. I have also calculated the maximum total enclosed area that can be served by each individual model based on the net area of the opening using the equation taken from ASCE/SEI 24-05, Section 2.6.2.2 and the following design assumptions listed

Design Assumptions:

The rates of rise and fall have been assumed to be 5 feet per hour.

The maximum difference between the exterior and interior floodwater levels have been assumed to be 1 foot during base flood conditions.

A factor of safety of 5 has been used in the design.

Area of Engineered Openings per ASCE 24, Section 2.6.2.2

 $A_c = (0.0333)[1/c]R(A_c) \rightarrow Ae = Ao / [(0.0333)[1/c]R]$

Where:

Total Net Area of Openings Required (in2)

Coefficient Corresponding to a Factor of Safety of 5.0 (in2, hr/ft3) 0.033 =

Opening Coefficient (Non-Dimensional; see ASCE 24, Table 2-2) c =

Worst Case Rate of Rise and Fall (ft/hr)

Total Enclosed Area (ft2)

| Maximum Area Coverage in Square Feet per Vent for each Model | | | | | | | |
|--|-----------------|----------------|--------------------------|--|-------|--------------|-----------------------|
| Model | Height (in.) | Width (in.) | A _o (in.²) | Constant (in ² ·hr/ft ³) | С | R (ft/hr) | A. (ft ²) |
| FO-316 | 7.00 | 15.50 | 108.50 | 0.0330 | 0.400 | 5 | 263 |
| FA-316 | 7.00 | 15.50 | 108.50 | 0.0330 | 0.400 | 5 | 263 |
| FOAL-W | 7.00 | 15.50 | 108.50 | 0.0330 | 0.400 | 5 | 263 |
| FOAL-B | 7.00 | 15.50 | 108.50 | 0.0330 | 0.400 | 5 | 263 |
| FOAL-G | 7.00 | 15.50 | 108.50 | 0.0330 | 0.400 | 5. | 263 |
| FAAL-W | 7.00 | 15.50 | 108.50 | 0.0330 | 0.400 | 5 | 263 |
| FAAL-B | 7.00 | 15.50 | 108.50 | 0.0330 | 0.400 | 5 | 263 |
| FAAL-G | 7.00 | 15.50 | 108.50 | 0.0330 | 0.400 | 5 | 263 |
| RFPC | 7.00 | 13.75 | 96.25 | 0.0330 | 0.398 | 5 | 232 |
| RFSS | 7.00 | 13.75 | 96.25 | 0.0330 | 0.398 | 5 | 232 |

^{*} Note : (A $_{e}$) is the maximum total enclosed area that can be served for each individual model based on the net area of the opening (A $_{o}$)

Limitations and Installation Requirements

This certification will be voided in it's entirety if the following installation requirements and limitations are not enforced. USA Foundation Flood Air Vents and Conn Engineering Consultants, Inc. do not recommend or authorize any modifications to the flood vents and will not be held liable for improper installation or modification of the

FEMA/ NFIP Limitations and Installation Requirements:

- A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.
- The bottom of all openings shall be no higher than one foot above grade that is immediately under each opening.

 Openings may be equipped with screens, louvers, valves or other coverings or devices provided that they permit the automatic entry and exit of floodwaters. It is recommended that openings be reasonably distributed around the perimeter of the enclosed area unless there is clear justification for putting all openings
- on just one or two sides (such as in townhouses or buildings set into sloping sites)
- Where analysis indicates rates of rise and fall greater than 5 feet per hour, the total enclosed area shall be reduced accordingly.

Design Professional

Name / Title: Jason M. Conn, P.E. President, Conn Engineering Consultants, Inc.

Address: 107 N. Bridge St., Linden, MI 48451

Professional Engineer License Type:

New Jersey State:

24GE04573000 License Number:

Installation Address

Customer and Installation Address

3207 Sunset Avenue Longport, NJ 08403

Model Installed

FA-316

Maximum total enclosed area that can be served for EACH individual vent:

263 Square Feet

