U.S. DEPARTMENT OF HOMELAND SECURITY

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expires March 31, 2012

Federal Emergency Management Agency National Flood Insurance Program

Important: Read the instructions on pages 1-9.

| | SECTION A - PROPERTY INFO | RMATION | For Insurance Company Use: |
|---|--|--|--|
| 11. Building Owner's Name TANCO CONSTRUCTION | | MATERIAL PROPERTY OF THE PROPE | Policy Number |
| | nit, Suite, and/or Bldg. No.) or P.O. Route and B | ox No. | Company NAIC Number |
| City MARGATE | State | Z | P Code 08402 |
| | pers, Tax Parcel Number, Legal Description, etc. |) | |
| A4. Building Use (e.g., Residential, Non-Resid | , | ENTIAL | The second secon |
| A7. Building Diagram Number 8 A8. For a building with a crawlspace or enclos a) Square footage of crawlspace or enclos b) No. of permanent flood openings in the enclosure(s) within 1.0 foot above adjacent | ng if the Certificate is being used to obtain flood ure(s): A9. For a part and by a | or a building with an attach Square footage of attack No. of permanent flood of within 1.0 foot above adj | ed garage: ed garage sq ft penings in the attached garage acent grade |
| c) Total net area of flood openings in A8.d) Engineered flood openings? X Yes | | Total net area of flood opening | |
| SECTION | ON B - FLOOD INSURANCE RATE MAP (| FIRM) INFORMATION | |
| B1. NFIP Community Name & Community Num CITY OF MARGATE CITY 34 | | Activities and the second seco | 3. State |
| B4. Map/Panel Number B5. Suffix | B6. FIRM Index Date B7. FIRM Panel Effective/Revised Date | B8. Flood Zone(s) | B9 Base Flood Elevation(s) (Zone AO, use base flood depth) |
| B10. Indicate the source of the Base Flood Elev ☐ FIS Profile ☐ FIRM Co B11. Indicate elevation datum used for BFE in It R12. Is the building located in a Coastal Barrier Designation Date | mmunity Determined Other (Describe tem B9: NGVD 1929 NAVD 1988 Resources System (CBRS) area or Otherwise F | Other (Describe) | ☐ Yes ☑ No |
| | | | |
| SECTION | C - BUILDING ELEVATION INFORMATIO | N (SURVEY REQUIRE | D) 11-130 500 |
| C1. Building elevations are based on: Co *A new Elevation Certificate will be required C2. Elevations – Zones A1-A30, AE, AH, A (with | nstruction Drawings* Building Unde when construction of the building is complete. | R/AE, AR/A1-A30, AR/AH, FE. | Finished Construction AR/AO. Complete Items C2.a-h |
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| IMPORTANT: In these spaces, copy the correspond | onding information from Section | n A. | For Insurance Company Use: |
| Building Street Address (including Apt., Unit, Suite, and/or I | Bldg. No.) or P.O. Route and Box No. | | Policy Number |
| City MARGATE | State | ZIP Code | Company NAIC Number |
| SECTION D - SURVEYOR. | ENGINEER, OR ARCHITECT CI | | ITINUED) |
| Copy both sides of this Elevation Certificate for (1) commun | | programmed a complete of the complete control of the control of the complete control of the control of th | Department of the control of the con |
| Comments A86 3 VENTS ARE LOUV | RED VENTS & 3 VENT | 5 ARC CRAWL | SPACE DOOR SYSTEMS |
| RATED AT 935 SQ. IN. EACH. | ITEM CZE IS THE | | |
| | Date 1 | | |
| Signature HAQ. | 3/13/ | 2012 | Check here if attachments |
| SECTION E - BUILDING ELEVATION INFORMA | ATION (SURVEY NOT REQUIRE | D) FOR ZONE AO A | ND ZONE A (WITHOUT BEE) |
| E4. Top of platform of machinery and/or equipment service E5. Zone AO only: If no flood depth number is available, ordinance? Yes No Unknown. The lo | heck the measurement used. In Pue eck the appropriate boxes to show wh ce, or enclosure) is ce, or enclosure) is things provided in Section A Items 8 ar feet meters above or br cing the building is is the top of the bottom floor elevated cal official must certify this information | to Rico only, enter meter the elevation is all feet meters at feet meters at feet meters at all meters above or below the HAG. feet meters all in accordance with the in Section G. | ove or below the highest adjacent ove or below the HAG. ove or below the LAG. f Instructions), the next higher floor he HAG. ove or below the HAG. community's floodplain management |
| THE THE PROPERTY AND ADDRESS OF THE PROPERTY AND THE PROP | OWNER (OR OWNER'S REPRES | Contract to the second | |
| The property owner or owner's authorized representative w or Zone AO must sign here. <i>The statements in Sections A</i> , Property Owner's or Owner's Authorized Representative's I | B, and E are correct to the best of my | r Zone A (without a FEM v knowledge. | Å-issued or community-issued BFE) |
| | Market State State of the State | | |
| Address | City | State | ZIP Code |
| | | | |
| Signature | Carlo Grand Conte | Telephor | |
| Signature Comments | Date | | |
| manufacture and the second of the second of the second of the second operation of the second of the | and the commence of the contract of the contra | | A CONTRACTOR OF THE CONTRACTOR |
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Certification of Engineered Flood Openings

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

I hereby certify that the Crawl Space Door Systems flood vents 816CS, 1220CS, 1232CS, 1616CS, 1624CS, 1632CS, 2032CS, 2424CS, and 2436CS are designed in accordance with the requirements of the NFIP "Flood insurance Manual" (2011) to provide automatic equalization of hydrostatic flood forces by allowing for the entry and exit of floodwaters, when properly installed and sized as set forth below. This certification follows the design requirements and specifications established in FEMA Technical Bulletin 1-08, "Openings in Foundation Walls and Walls of Enclosures Below Elevated Buildings in Special Flood Hazard Areas", and the ASCE Standard for "Flood Resistant Design and Construction" (ASCE/SEI 24-05).

Design Characteristics

Section 2.6.2.2 of ASCE 24 provides an equation to determine the required <u>net area</u> of engineered openings (A_o) for a given <u>enclosed area</u> (A_e) . This equation is based on the hydraulic formula for the flow rate across sharp edged orifices. I have utilized this equation to calculate 1) the respected flow rate through the individual openings between louvers; 2) the flow rate through the main frame opening in case the louver is blown out during a flood event; and 3) the flow rate of water flowing through louver blades following hydraulic short tube theory. The ultimate maximum total enclosed area (A_e) that can be serviced by a single vent has then been determined by utilizing the lowest flow rate of the three assessed scenarios for each vent and is listed in Table 1.

These values are based on the following assumptions:

- In absence of reliable data, the rates of rise and fall have been assumed with 5 feet/hour;
- The (maximum) difference between the exterior and interior floodwater levels has been assumed with 1 foot during base flood conditions;
- A factor of safety of 5 has been assumed, which is consistent with design practices related to protection of life and property;
- The net area of openings (A_o) as provided by the manufacturer.

Installation Requirements and Limitations

This certification will be voided if the following installation requirements and limitations are not enforced:

- There shall be a minimum of two openings on different sides of each enclosed area;
- The bottom of each required opening shall be no more than 1ft above the adjacent ground level;

| *) | Model | H x W [in] | A _o [in ²] | A _e [ft ²] |
|----|--------|---------------|--------------------------------------|--------------------------------------|
| | 816CS | 8 x 16 | 105 | 205 |
| | 1220CS | 12 x 20 | 235 | 500 |
| | 1232CS | 12 x 32 | 305 | 645 |
| | 1616CS | 16 x 16 | 180 | 395 |
| | 1624CS | 16 x 24 | 310 | 670 |
| | 1632CS | 16 x 32 | 405 | 835 |
| | 2032CS | 20 x 32 | 630 | 1240 |
| | 2424CS | 24 x 24 | 570 | 1230 |
| | 2436CS | 24 x 36 | 850 | 1765 |

Table 1 Maximal total <u>enclosed area</u> (A_e) that can be served by each individual model based on the given <u>net area</u> of engineered openings (A_o)

- No temporary (e.g. during cold weather) or permanent solid cover may be placed into or over the flood vent that would block the automatic entry or exit of floodwaters at any time;
- Where analysis indicates rates of rise and fall greater than 5 ft/hr, the total enclosed area as given in Table 1 shall be reduced accordingly to account for the higher rates of rise and fall.

Identification of the Building and Installed Flood Vents

The flood vent models marked in Table 1*) are being installed at the following building:

Building Address

Certifying Design Professional

| Name | WILLIAM S. SWIDERSKI, P.E. | |
|-----------------|----------------------------|----------------|
| Title | ENGINEER | |
| Address | 599 SHORE ROAD, SOMERS P | OINT, NJ 08244 |
| Type of License | PROFESSIONAL ENGINEER | INV and NOD |
| License # | 20482 | Signature |
| Issuing State | NFW IERSFY | 7/24/(2 |

