

Note: The V Zone design certificate is not a substitute for the NFIP Elevation Certificate (see Fact Sheet No. 1.4, Lowest Floor Elevation), which is required to certify as-built elevations needed for flood insurance rating.

### V ZONE DESIGN CERTIFICATE

Name BOCK Policy Number (Insurance Co Use) \_\_\_\_\_  
 Building Address or Other Description 1113 COMMONWEALTH AVE. BRJ  
 Permit No. \_\_\_\_\_ City STRATHMORE State NJ Zip Code 08248

#### SECTION I: Flood Insurance Rate Map (FIRM) Information

Community No. 340153 Panel No. 0014 Suffix C FIRM Date 7-15-97 (FIRM Zone(s)) V11

#### SECTION II: Elevation Information Used for Design

[NOTE: This section documents the elevations/depths used or specified in the design - it does not document surveyed elevations and is not equivalent to the as-built elevations required to be submitted during or after construction.]

- |   |                   |
|---|-------------------|
| 1. FIRM Base Flood Elevation (BFE).....                                     | <u>13</u> feet*   |
| 2. Community's Design Flood Elevation (DFE).....                            | <u>14.0</u> feet* |
| 3. Elevation of the Bottom of Lowest Horizontal Structural Member.....      | <u>14.3</u> feet* |
| 4. Elevation of Lowest Adjacent Grade.....                                  | <u>7.1</u> feet*  |
| 5. Depth of Anticipated Scour/Erosion used for Foundation Design.....       | <u>8</u> feet     |
| 6. Embedment Depth of Piling or Foundation Below Lowest Adjacent Grade..... | _____ feet*       |
- \* Indicate elevation datum used in 1-4:  NGVD29  NAVD88  Other \_\_\_\_\_

#### SECTION III: V Zone Design Certification Statement

\* MINIMUM LENGTH  
 TBD BY PILE CONTRACTOR  
 TO MEET SPECIFIED  
 CAPACITY

I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construction of the above-referenced building and (2) that the design and methods of construction specified to be used are in accordance with accepted standards of practice\*\* for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to or above the BFE.
- The pile and column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood\*\*\*. Wind loading values used are those required by the applicable State or local building code. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.

#### SECTION IV: Breakaway Wall Design Certification Statement

NOTE: This section must be certified by a registered engineer or architect when breakaway walls are designed to have a resistance of more than 20 psf (0.96 kN/m2) determined using allowable stress design]

I certify that: (1) I have developed or reviewed the structural design, plans, and specifications for construction of breakaway walls to be constructed under the above-referenced building and (2) that the design and methods of construction specified to be used are in accordance with accepted standards of practice\*\* for meeting the following provisions:

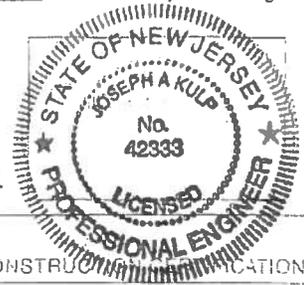
- Breakaway wall collapse shall result from a water load less than that which would occur during the base flood\*\*\*.
- The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the effects of wind and water loads acting simultaneously on all building components (see Section III).

#### SECTION V: Certification and Seal

This certification is to be signed and sealed by a registered professional engineer or architect authorized by law to certify structural designs. I certify the V Zone Design Certification Statement (Section III) and \_\_\_\_\_ the Breakaway Wall Design Certification Statement (Section IV, check if applicable).

Certifier's Name JOSEPH A. KULP License Number 296E0423300  
 Title FOUNDER & MANAGING PARTNER Company Name MULHERN & KULP  
 Address 20 SOUTH MAPLE ST. SUITE 150  
 City AMBLER State PA Zip Code 19002

Signature \_\_\_\_\_ Date 5/23/17 Telephone 215-696-8001



GENERAL



May 23, 2017

Mr. Paul Dietrich, Sr. P.E., P.P., C.F.M., C.P.W.M.  
Municipal Engineer  
Township of Upper  
PO Box 205  
Tuckahoe, NJ 08250-0205

Re: Bock Residence, 1113 Commonwealth Avenue – Strathmere, NJ

Dear Mr. Dietrich,

I am writing to confirm that the USG Fiberock Aqua-tough AR panel used at the ground floor level is indeed a water resistant, mold resistant product suitable for such installation which we approve.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Asher", written in a cursive style.

Mark Asher  
Asher Associates Architects

115 West Avenue, Suite 202 • Jenkintown, PA 19046 • T 215.576.1413 • F 215.576.0879  
9723 Second Avenue • Stone Harbor, NJ 08247 • T 609.368.1411 • F 609.368.0099