

**S.I. V-ZONE DESIGN CERTIFICATE**  
**PRE-CONSTRUCTION \_\_\_\_\_ AS-BUILT \_\_\_\_\_**

Name of Property Owner \_\_\_\_\_ Permit # \_\_\_\_\_  
Street Address (property) \_\_\_\_\_ TMS# \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

**FLOOD INSURANCE RATE MAP INFORMATION**

Community # **455418** Map & Panel # \_\_\_\_\_ Suffix **K**  
Firm Index Date **Jan.29,2021**

**ELEVATION INFORMATION**

Required Base Flood Elevation (BFE) \_\_\_\_\_ Ft.  
Finished first floor \_\_\_\_\_ Ft.  
Bottom of lowest horizontal structural member \_\_\_\_\_ Ft.  
Elevation of slab below Base Flood Elevation \_\_\_\_\_ Ft.  
Lowest Elevation of mechanical/electrical equipment \_\_\_\_\_ Ft.  
Elevation of lowest adjacent grade \_\_\_\_\_ Ft. Highest adjacent grade \_\_\_\_\_ Ft.  
Elevation of existing grade (Measured at center of structure) \_\_\_\_\_ Ft. \*  
Elevation of highest roof ridge \_\_\_\_\_ Ft.  
Datum used: NGVD29 \_\_\_\_\_ NAVD88 \_\_\_\_\_

*\* This elevation must be determined before construction plans are submitted. Building official will determine existing grade using an existing topographic survey supplied by the applicant.*

**STRUCTURAL INFORMATION**

Building code used to develop and/or review structure \_\_\_\_\_  
Basic wind speed \_\_\_\_\_ Exposure category \_\_\_\_\_

Seismic design category **D2**

Certifiers name \_\_\_\_\_  
Signature \_\_\_\_\_

Seal

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**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip Code** \_\_\_\_\_

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**V-ZONE CERTIFICATION STATEMENT**

**NOTE: Certificate must be signed and sealed by a registered professional engineer or architect.**

I certify that based upon development and/or review of structural design specifications and plans for construction including consideration of the hydrostatic, hydrodynamic, impact and wind loading involved, the design and methods of construction are in accordance with accepted standards of practice for meeting the following provisions:

1. The finished first floor and all mechanical equipment are elevated to or above the base flood elevation.
2. The pile or column foundation and structure is anchored to prevent flotation, or collapse and lateral movement due to the effects of wind and water loads acting simultaneously on all building components. Water loading values are those associated with the base flood. Wind loading values are those required by the International Residential Code 2018 Edition as adopted by the Town of Sullivan’s Island. The potential for scour has been considered for conditions associated with the base flood. The calculated scour depth for this property is \_\_\_\_\_ feet.

**For “As Built” certifications, I am certifying that the construction has been done in accordance with the design parameters indicated above.**

Certifiers Name \_\_\_\_\_

Signature \_\_\_\_\_

SEAL

**S.I. V-ZONE BREAKAWAY WALL CERTIFICATION**  
**PRE-CONSTRUCTION \_\_\_\_\_ AS-BUILT \_\_\_\_\_**

Name of Property Owner \_\_\_\_\_ Permit # \_\_\_\_\_  
Street Address \_\_\_\_\_ TMS # \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

**BREAKAWAY WALL CERTIFICATION STATEMENT**

I certify that I have developed or reviewed the design, plans and specifications for construction of the breakaway walls for the structure noted above. The design and methods of construction are in accordance with meeting the accepted standards of practice with the following provisions:

1. Breakaway walls have a design safe loading resistance of not less than \_\_\_\_lbs. and no more than \_\_\_\_\_lbs.
2. Breakaway wall collapse shall result from a water load less than that which would occur during the base flood.
3. The elevated portion of the structure and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the combined effects of wind and water loads acting simultaneously on all building components, structural and non-structural. Wind loading values used shall be those stated in International Residential Code 2018 Edition. Water loading values shall be those associated with the base flood.

*Solid Breakaway spaces are limited to 200 square feet total with vents equaling one inch of vent per square foot of floor space. No heated or cooled spaces are allowed below BFE.*

\_\_\_\_\_  
Certifier's Name: \_\_\_\_\_

\_\_\_\_\_  
Company Name \_\_\_\_\_

\_\_\_\_\_  
Certifier's Address \_\_\_\_\_

\_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Seal:**

\_\_\_\_\_  
Zip Code \_\_\_\_\_

\_\_\_\_\_  
Telephone \_\_\_\_\_

\_\_\_\_\_  
Email \_\_\_\_\_

\_\_\_\_\_  
License # \_\_\_\_\_

\_\_\_\_\_  
Signature \_\_\_\_\_ Date \_\_\_\_\_



Signature \_\_\_\_\_ Date \_\_\_\_\_

## **S.I. V-ZONE CERTIFICATION INFORMATEION AND REQUIRED DOCUMENTATION**

1: All solid walls below Base Flood Elevation must be constructed of a breakaway design certified by a certified design professional, be of class 4 or 5 materials and must have hydrostatic vents to allow the free flow of water into and out of the enclosed area. Vents must equal one square inch of clear opening for every square inch of floor space and be no more than 12 inches above grade. **Total enclosed space may be no more than 200 sq. ft. of solid breakaway walls.** The remaining area below the structure may be enclosed by lattice of an open design and it must be designed to breakaway and must be certified by a design professional. No electric wires and/or boxes, no plumbing pipes or fixtures, no mechanical ducts, equipment, refrigerant lines or structural components may be on or impede the breakaway capacity of the breakaway walls or lattice.

2: **Certifications must appear on the plans as well as all breakaway wall sections reflecting what is to be built.** Both lattice and solid breakaway wall must be submitted.

### **Note:**

1: **A certificate of occupancy will not be issued without an AS\_BUILT certification. Please advise the owner or builder that an inspection or inspections of the strapping, framing, foundation will need to be performed by the design professional in order for the design professional to sign off on the AS-Built certificate.**

2: **All provided documentation must have original seals and signatures.**

3: **It is understood that some information on these forms must be verified or derived from information provide by a surveyor. Attach a copy of any documentation used or reference this information in the note section of this document.**