

S.I. COASTAL A-ZONE DESIGN CERTIFICATE
PRE-CONSTRUCTION _____ AS-BUILT _____

Name of Property Owner _____ Permit # _____
Street Address _____ TMS# _____
City _____ State _____ Zip Code _____
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FLOOD INSURANCE RATE MAP INFORMATION

Community # **455418** _____ Map and Panel # _____ - _____ Suffix _____
Firm Index Date **01/29/2021**

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.
Elevation of mechanical/electrical equipment below structure _____ Ft.
Elevation of lowest adjacent grade _____ Ft. Highest adjacent grade _____ Ft.
Elevation of existing grade (Measured at center of structure) _____ Ft.
Elevation of highest ridge _____ Ft.
Datum used: NGVD29 _____ NAVD88 **X** _____

STRUCTURAL INFORMATION

Building code used to develop and/or review structure _____
Wind speed _____ Exposure Category _____
Seismic design category _____
Certifier's name _____
Signature _____ Date _____ Seal

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COASTAL A-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 is 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 IRC/IBC 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.

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

Certifiers Name _____

Signature _____ Date _____

SEAL

(Page 2 of 3) (This document must also appear on the plans.)

S.I. COASTAL A-ZONE BREAKAWAY WALL CERTIFICATION
PRE-CONSTRUCTION _____ AS-BUILT _____

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

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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 IRC/IBC 2018 Edition. Water loading values shall be those associated with the base flood.

Certifier's Name: _____
Company Name _____
Certifier's Address _____
City _____ State _____
Zip Code _____
Telephone _____
Email _____
License # _____

Seal:

Signature _____ Date _____

(Page 3 of 3) (This document must also appear on the plans.)

S.I. COASTAL A-ZONE CERTIFICATION INFORMATION AND REQUIRED DOCUMENTATION

1: Sullivan's Island requires basically the same documentation for A-Zones as it does for V-Zones.

2: 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 vents to allow the free flow of water into and out of the enclosed area. Vents must equal 1 sq. inch for every sq. foot of enclosed area and be no more than 12 inches above grade. **Total enclosed area must not exceed 200 sq. feet** of solid breakaway walls. The remaining area below a structure may only be enclosed with lattice of an open design (1" gaps) and it must also be of a breakaway design certified by a certified design professional.

3: **Certifications must appear on the plans as well as a breakaway wall sections** reflecting what are to be built. Both solid wall and lattice wall details must be provided.

Note:

- 1. A Certificate of Occupancy will not be issued without an AS-BUILT certification. Please advise the owner or builder that an inspection of the framing, strapping, etc. will be required by the engineer in order for the engineer to sign off on the AS-BUILT.**
- 2. All provided documentation must have original seals and signatures.**
- 3. It is understood that some of the information on these forms must be verified or derived from information provided by a surveyor. Please attach a copy of any documentation used or reference this information in the note section (Page 4) of this document.**