Development Services
Floodplain Management
9000 Town Center Parkway
Lakewood Ranch, FL 34202
Phone: (941) 748-4501 x5871
flood@mymanatee.org
mymanatee.org

Coastal A-Zone / V-Zone Design Certificate

Purpose

This form is used to document the structural design of new structures located in Coastal A-Zone / V-Zone Flood Hazard Areas.

Procedure

This form shall be completed by a registered professional engineer or architect authorized by law to certify structural designs and then submitted with the Building Permit Application. The plans will then be reviewed to verify compliance with the Coastal A-Zone/V-Zone Construction Certificate. These details should include: footings, pilings, pile caps, grade beams, concrete slabs, connections between pilings and horizontal beams, connections between floor joist and beams, connections between shear walls or exterior walls, floors or roof systems, connections between trusses or rafters and the supporting wall or member, fastener schedules for floor and roof diagrams and for shear walls, breakaway walls, uplift connections and wind bracing. Designation of the connectors and fasteners shall be specific as to load resistance rating. References such as "per code" are not acceptable. The approved form will become part of the approved plan set.

Project Information

Permit _____ Policy No. (Insurance Co. Use): _____

Owner: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Flood Insurance Rate Map (Firm) Information

Community 120153 Panel _____ Suffix: ____ FIRM Date: _____ FIRM Zone(s): _____

Elevation Information Used for Design

[This section documents elevations used in the design; it does not substitute for an as-built Elevation Certificate.]

1. Datum ☐ NGVD ☐ NAVD ☐ Other
2. Elevation of the Bottom of Lowest Horizontal Structural Member _____ feet above datum
3. Base Flood Elevation (BFE) _____ feet above datum
4. Elevation of Lowest Adjacent Grade _____ feet above datum
5. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design _____ feet
6. Embedment Depth of Pilings or Foundation Below Lowest Adjacent Grade _____ feet

Design Certification Statement

This section must be certified by a Florida licensed engineer or architect.]

I certify: (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) the design and methods of construction 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 (with the exception of mat or raft foundations, piling, pile caps, columns, grade beams and bracing) is elevated to or above the Flood Protection Elevation (BFE+1 foot) in accordance with the requirements of the *Florida Building Code* or local floodplain management regulations (manufactured homes and buildings exempt from the FBC, B); and

The pile and column foundation and building or structure to be attached thereto is designed in accordance with the *Florida Building Code* to be anchored to resist flotation, collapse, and lateral movement due to the effects of the wind and flood loads acting simultaneously on all building components, and other load requirements of the *Florida Building Code*. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.

Breakaway Wall Design Certification Statement

[This section must also be certified by a Florida licensed engineer or architect when breakaway walls exceed a design safe loading resistance of 20 pounds per square foot. This requirement does not apply to open wood/plastic lattice/slats/louvers or insect screening.]

I certify: (1) I have developed or reviewed the structural design, plans, and specifications for construction and (2) the design and methods of construction to be used for the breakaway walls are in accordance with the *Florida Building Code, Building* (ASCE 24) or *Florida Building Code, Residential,* as applicable, and accepted standards of practice.

Certification and Seal

This certification is to be signed and sealed by a Florida licensed professional engineer or architect authorized by law to certify structural designs. *I certify the Design Certification Statement and the Breakaway Wall Design Certification Statement (if applicable).*

Certifier's Name		Florida License Number	
Title	Company Name		
Address	City	State	ZIP
Signature	Date	Telephone	

Place Seal Here