

# Leon County Building Plans Review & Inspections

435 North Macomb Street, 2<sup>nd</sup> Floor, Tallahassee, FL 32301-1019 – (850) 606-1300 – Fax (850) 606-1301 – www.leonpermits.org

**WIND ANALYSIS** – For detached one and two-family dwellings, multiple single-family dwellings (townhouses), and their accessory structures.

## 120 MPH (3 Second Gust) Wind Velocity or as interpolated (attach calculations)

Calculations as per Section R301.1 FBC, R 2017, ASCE 7-10, or as per \_\_\_\_\_

**Attachments Required:**

1. The applicable building floor plan with each Wind Analysis. A reduced legible floor plan may be provided.
2. Indicate location of all vaulted or high ceilings on floor plan.
3. A truss layout from the truss engineer will be required. The layout will indicate all interior bearing walls or points.

Job Address: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor: \_\_\_\_\_ Subdivision/Lot/Block: \_\_\_\_\_

Prepared By: \_\_\_\_\_ Design Professional FL Lic. # \_\_\_\_\_

Importance Factor: \_\_\_\_\_ Building Category: \_\_\_\_\_ Wind Exposure(s): \_\_\_\_\_

Plans may be used as a master plan by the above contractor:  Yes  No Initials: \_\_\_\_\_

Mean Roof Height: \_\_\_\_\_

Species for Top Plate:  SPF  SYP

End Zone Length: \_\_\_\_\_

Roof Slope: \_\_\_\_\_

Stud Species:  SPF  SYP

Max. Stud Ht. (excluding gable ends): \_\_\_\_\_

Stud Spacing: \_\_\_\_\_

Max. Overhang Length (excluding porches): \_\_\_\_\_

HURRICANE CLIPS (HC):	Truss Span or Location	Model # @ End Zone	Model # @ Interior Zone
Brand: _____	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

**ROOF SHEATHING MATERIALS:** \_\_\_\_\_ (be specific, such as 7/16" OSB)

NAILING PATTERN: Fastener: \_\_\_\_\_ Edges: (perimeter) \_\_\_\_\_ o.c. Field: \_\_\_\_\_ o.c.

**WALL BRACING:** \_\_\_\_\_ (100% continuous or as required):

NAILING PATTERN: Fastener: \_\_\_\_\_ Edges: (perimeter) \_\_\_\_\_ o.c. Field: \_\_\_\_\_ o.c.

**STRAPS:**

		Top	Bottom
Brand: _____	Spacing: 1 <sup>st</sup> Floor	_____ o.c.	_____ o.c.
Model: _____	2 <sup>nd</sup> Floor	_____ o.c.	_____ o.c.

Nailing: (Size & Number) \_\_\_\_\_

**ANCHOR BOLTS:** ½' dia. X 10" LONG w/2" washer.

	Along Wall	From Each Corner
Spacing: _____	_____ o.c.	_____ o.c.

**JOB**

**ADDRESS:** \_\_\_\_\_

**COMPONENTS AND CLADDING PRESSURES: (WORST CASE LOADS MAY BE USED)**

ROOF (List Zones)	WIND LOADS [Pressure (psf)]	
_____	Pressure: _____	Suction: _____
_____	_____	_____
_____	_____	_____
WALL (List Zones)	WIND LOADS [Pressure (psf)]	
_____	End Zone: _____	Interior Zone: _____
_____	_____	_____
_____	_____	_____

**MAIN WIND FORCE RESISTING SYSTEMS (MWFRS) (WORST CASE LOADS MAY BE USED)**

ROOF (List Zones)	WIND LOADS [Pressure (psf)]	
_____	End Zone: _____	Interior Zone: _____
_____	_____	_____
_____	_____	_____
WALL (List Zones)	WIND LOADS [Pressure (psf)]	
_____	End Zone: _____	Interior Zone: _____
_____	_____	_____
_____	_____	_____

**SHEAR WALL(S) INFORMATION MAY BE SHOWN ON PLAN OR LISTED:**

1. List the length of shear walls for each major wall of the structure.
2. Indicate the shear resistance in PLF provided from the sheathing material used.
3. Indicate the shear wall capacity based on the wall length and the PLF of structural sheathing.
4. Indicate actual shear load on the walls.

**PROVIDE GABLE END BRACING DETAIL.**

All exterior gable end walls shall be balloon framed to the ceiling diaphragm.

**NOTES: PLEASE READ & COMPLETE ALL BLANKS!!!**

1. See floor plan for wall bracing locations, or, circle 100% if structural sheathing is required on all exterior walls with the nailing pattern indicated above.
2. There are interior shear walls.  Yes  No If yes, locate interior shear walls on plan.
3. Gable ends are required to be sheathed with the same material as shear walls.  Yes  No
4. Wall sheathing used in lieu of vertical straps: Nailing @ \_\_\_\_\_ o.c. along the top & bottom plates.
5. Provide details for 2 story buildings showing continuous load path between 2<sup>nd</sup> floor studs & 1<sup>st</sup> floor studs.
6. Provide additional information for column base & column/beam connections, if required, for porches.
7. Provide calculations or documentation to substantiate method used as an attachment to this form.

**INSTRUCTIONS:**

1. This wind analysis form should be completed, signed, dated and sealed by a Florida licensed engineer or architect.
2. Since more than one methodology for determination of wind forces is permitted under Section R301.1.1 Florida Building Code, Residential, 2017, to comply with State Building Codes, a space has been provided to indicate the method used.
3. Wind Analysis Forms submitted & permitted to be used as master plans will be for identical plans only. Minor deviations such as door swings are permitted. Any deviation from the exterior form, opening sizes or location will not be permitted unless noted by the design professional.
4. This form is subject to be revised.