



HOME OF PELICAN ISLAND
 BUILDING DEPARTMENT
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**WINDOW / DOOR REPLACEMENT AND IMPACT PROTECTION
 ONE AND TWO FAMILY DWELLINGS ONLY**

Florida Residential Building Code 6th Edition 2017
 Summary of worst case* Design Wind Pressures (PSF)
 For buildings with a mean roof height of 30 FT. or less* in Exposure B,C or D

**Windows/ Doors and Impact Protection FRBC Tables R301.2 (2) (3) and as modified per
 R301.2.1.6. Wind Speed per Figure R301.2(4) Vult. Pressures shown as Vasd.**

ZONE	*EFFECTIVE WIND AREA	160 MPH Exposure B	160 MPH Exposure C	160 MPH Exposure D
4	10 sf	+27.7 / -30.0	+38.8 / -42.0	+46.0 / -49.8
5*	10 sf	+27.7 / -37.0	+38.8 / -51.8	+46.0 / -61.4

*** Notes:**

1. Wind zone 5 is NEVER less than 4 ft. from the corners of the building.
2. Lower design pressures may be obtained where openings are larger than 10 sq. ft. and/or building mean roof height < 30 ft. in Exp.-C or D. See referenced tables.
3. Glazing in hazardous locations must comply with R308.4
4. Per Florida Existing Building Code 706.4, when more than **25%** of the glazed openings in the building are replaced within any 12 -month period, impact protection is required on the glazed opening replacements.

Garage Doors FRBC Table R301.2 (3) & (4) - Wind Speed per Figure R301.2(4) Vult. Pressures shown as Vasd.

WIDTH (FT.)	HEIGHT (FT.)	160 MPH Exposure B	160 MPH Exposure C	160 MPH Exposure D
9 x	7	+24.3 / -27.5	+34.02 / -38.5	+40.3 / -45.7
16 x	7	+23.3 / -26.0	+32.6 / -36.4	+38.7 / -43.2

Notes:

1. Effective wind area may be interpolated, otherwise use the load associated with the lower effective area.
2. Lower design pressure may be obtained with building mean roof ht. < 30 ft. in Exp.-C and D.

FLORIDA ENERGY CONSERVATION CODE REQUIREMENT

Per section R402.1.2 and Table R402.1.4; minimum U-Factor .40 and SHGC of .25 for non-impact rated glazing and U-Factor of .65 and SHGC of .25 for impact rated glazing (note – j).

SUBMIT TWO SETS OF PRODUCT APPROVAL W/ U-FACTOR AND SHGC DATA AS APPLICABLE FOR EACH TYPE OF OPENING TO BE REPLACED ALONG WITH A BUILDING SKETCH SHOWING ALL OPENING LOCATIONS AND SIZES INCLUDING EMERGENCY ESCAPE AND RESCUE OPENING PER R310.4. HAVE APPROVED PRODUCT APPROVALS AND PERMIT AVAILABLE AT TIME OF INSPECTION.