



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 8<sup>th</sup> Edition 2023

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	+27.6 / -30.0	+38.6 / -42.0	+45.8 / -49.8
5	10 SF	+27.6 / -37.0	+38.6 / -51.8	+45.8 / -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 Exposures B,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 (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	7	+ 24.3 / -27.5	+34.0 / -38.5	+40.3 / -45.6
16	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).

**BUILDING PERMIT APPLICATION NEEDS TO INCLUDE THE FOLLOWING:**

1. ONE COPY OF PRODUCT APPROVALS WITH INSTALLATION INSTRUCTIONS
2. A BUILDING SKETCH SHOWING ALL OPENING LOCATIONS AND SIZES INCLUDING EMERGENCY ESCAPE AND RESCUE OPENING PER R310.4.
3. U-FACTOR AND SHGC DATA AS APPLICABLE FOR EACH TYPE OF OPENING TO BE REPLACED.