



Environmental Protection and Growth Management Department
BUILDING CODE SERVICES
1 North University Drive, Box #302 • Plantation, Florida 33324
954-765-4400 • Broward.org/building

APPLICATION INFORMATION FOR WINDOWS/DOORS REPLACEMENT SHUTTER INSTALLATION

1. You are required to have two (2) complete sets of building plans that include the following:
 - All appropriate **Notices of Acceptance** (product approval).
 - A **floor plan sketch** indicating the windows to be replaced or the shutters to be installed.
 - A complete **Permit Application** which must show the total job value for construction including labor and materials.
 - If you are a contractor applying for a permit you will be required to submit proof of **Worker's Compensation Insurance**. Such proof of compensation must be evidenced by a certificate of coverage issued by the carrier, a valid exemption certificate approved by the department, or a copy of the employer's authority to self-insure and shall be presented each time the employer applies for a building permit.
 - If you are a homeowner applying for a permit, you will be required to complete an **Owner/Builder Affidavit**, in the presence of permitting staff.
2. If your project meets the criteria in the attached document, you may submit your plans for review. If they **do not** meet the criteria your plans must be designed by a **State of Florida Registered Architect/Engineer**.
3. After your plans have been reviewed, which can take up to 15 business days, you will be contacted to either, pick up your plans and address the corrections/changes that are required, or you will be informed that your permit is ready to be issued.
4. If your job is valued at \$2500 or more, upon issuance of your permit you will be required to file a **Notice of Commencement**. The Notice of Commencement must be filed with **Broward County Records Division** located at 115 South Andrews Avenue, Room #114, Ft. Lauderdale. A copy of the Notice of Commencement containing the filing stamp from County Records is to be submitted to Permitting, Licensing, and Consumer Protection Division (PLCP), prior to the first inspection. For further information, please call 954-831-4000.

**Retrofit of Windows, Doors, Garage Doors, Shutters, and Skylights
FBC 2004 Existing Building, Alteration Level 1**

At the Board of Rules and Appeals meeting of February 9, 2006, an interpretation was approved for Retrofit of Windows, Doors, Garage Doors, Shutters and Skylights, of the 2004 Florida Building Code as follows:

1. Window or door buck inspections are not required. The buck shall comply with Section 1714.5.4.1 specifically, unless otherwise tested, buck shall extend beyond the entire face of the window or door frame such that full support of the frame is provided.
2. A Florida Professional Engineer or Architect may modify the buck with fasteners as specified in a Notice of Acceptance. Such modification must be documented with a signed and sealed letter or drawing.
3. To obtain the required design pressure for a specific opening at a specific site, an individual must utilize one of the following and submit documentation as indicated.
 - a. A site specific (signed and sealed) by a Florida Professional Engineer or Architect, indicating the location of all retro openings and the required design pressure.
 - b. A site specific plan (not sealed) indicating the location of all openings accompanied by a worst case design pressure chart (signed and sealed) prepared by a Florida P.E. or Architect.
 - c. A site specific plan (not sealed) indicating the location of all openings and indicating the required design pressure based on FBC table 1609.6(b & d) FRC Table R301.2.2 (2 & 3) for windows, doors, shutters, and skylights and table 1609.6E for garage doors.

Note: FBC Table 1609.6 (b & d) and FRC Table 1609 R301.2.2 (2 & 3) and 1609.6E has been adopted for retrofit windows, doors, shutters and skylights (only with a permit application date preceding September 1, 1994*, and is limited to building with a roof mean height of 30'.

4. Required design pressure is required to meet FBC Table 1609.6 (b & d) FRC Table R301.2.2 (2 & 3) or ASCE-7-02 for windows, doors, shutters and skylights and 1609.6E for garage doors.

Note: FBC Table 1609.6 (b & d) FRC Table R301.2.2 (2 & 3) 1609.6E may be used to determine wind pressure for retrofit of windows, door, garage doors and skylights, but only on buildings with a permit application prior to September 1, 2004,* and shall be limited to buildings with a maximum roof mean height of 30'.

*Buildings with a permit application date on or after September 1, 1994, design measures were required to be shown on plans, should be used for retro.

EFFECTIVE DATE: FEBRUARY 10, 2006

Broward County Fenestration Voluntary Wind Load Chart*

Per ASCE 7-10 Method 1, Part 1 and FBC (2017) for Retrofitting in Accordance with Formal Interpretation #5

For Detached One-and Two family dwellings and Multiple Single-Family Dwellings (Townhouses) with Mean Roof Height ≤ 30 feet

Wind 170 mph (3-second gust) / Exposure C** / Kd = 0.85 / Kzt = 1.0 / Pressures are in PSF / Not for use in Coastal (Exposure 'D' areas)

* Using Allowable Stress Design methodology (p = 0.6w) / ** Exposure shall be determined according to ASCE 7-10 Section 26.7.3 (Exposure Categories)

Effective Wind Area (ft ²)	Location: Gable or Hip Roof	Mean Roof Height of 15 feet									Mean Roof Height of 20 feet									Mean Roof Height of 25 feet									Mean Roof Height of 30 feet																																																																																																																																																																																																																																																																				
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10	Gable/Hip	16.0	-37.8	16.0	-63.4	16.0	-95.4	16.3	-40.2	16.3	-67.4	16.3	-101.4	17.1	-42.1	17.1	-70.6	17.1	-106.3	17.8	-43.7	17.8	-73.4	17.8	-110.4	16.0	-36.8	16.0	-56.7	16.0	-79.1	16.0	-39.1	16.0	-60.2	16.0	-84.0	16.0	-41.0	16.0	-63.1	16.0	-88.0	16.7	-42.6	16.7	-65.6	16.7	-91.5	16.0	-35.6	16.0	-47.7	16.0	-57.4	16.0	-37.8	16.0	-50.7	16.0	-61.0	16.0	-39.6	16.0	-53.2	16.0	-63.9	16.0	-41.1	16.0	-55.2	16.0	-66.4	16.0	-34.6	16.0	-41.0	16.0	-41.0	16.0	-36.8	16.0	-43.6	16.0	-43.6	16.0	-38.5	16.0	-45.7	16.0	-45.7	16.0	-40.0	16.0	-47.4	16.0	-47.4	21.8	-34.6	21.8	-60.2	21.8	-89.0	23.1	-36.8	23.1	-64.0	23.1	-94.6	24.3	-38.5	24.3	-67.1	24.3	-99.2	25.2	-40.0	25.2	-69.7	25.2	-103.0	19.9	-33.6	19.9	-55.4	19.9	-83.3	21.1	-35.7	21.1	-58.9	21.1	-88.5	22.1	-37.4	22.1	-61.7	22.1	-92.7	23.0	-38.9	23.0	-64.1	23.0	-96.3	17.3	-32.4	17.3	-49.0	17.3	-75.6	18.4	-34.4	18.4	-52.1	18.4	-80.3	19.3	-36.0	19.3	-54.6	19.3	-84.2	20.0	-37.4	20.0	-56.7	20.0	-87.5	16.0	-31.4	16.0	-44.2	16.0	-69.8	16.3	-33.3	16.3	-47.0	16.3	-74.2	17.1	-35.0	17.1	-49.2	17.1	-77.8	17.8	-36.3	17.8	-51.1	17.8	-80.8	34.6	-37.8	34.6	-44.2	34.6	-44.2	36.8	-36.8	36.8	-47.0	36.8	-47.0	38.5	-42.1	38.5	-49.2	38.5	-49.2	40.0	-43.7	40.0	-51.1	40.0	-51.1	33.6	-35.9	33.6	-42.3	33.6	-42.3	35.7	-38.1	35.7	-44.9	35.7	-44.9	37.4	-39.9	37.4	-47.1	37.4	-47.1	38.9	-41.5	38.9	-48.9	38.9	-48.9	32.4	-33.3	32.4	-39.7	32.4	-39.7	34.4	-35.4	34.4	-42.2	34.4	-42.2	36.0	-37.1	36.0	-44.2	36.0	-44.2	37.4	-38.6	37.4	-46.0	37.4	-46.0	31.4	-31.4	31.4	-37.8	31.4	-37.8	33.3	-33.3	33.3	-40.2	33.3	-40.2	35.0	-35.0	35.0	-42.1	35.0	-42.1	36.3	-36.3	36.3	-43.7	36.3	-43.7
*** For Hip Roofs with angle > 7 degrees (1.5:12) and ≤ 25 degrees (5.5:12), Zone 3 shall be treated as Zone 2 (Figure 30.4-2B, Note 7, p. 337)																																																																																																																																																																																																																																																																																																	
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Garage Door Wind Loads		for a Building with 30-foot Mean Roof Height																																																																																																																																																																																																																																																																																															
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End Zone (a) shall be the smaller of 10% of Least Hor. Dist. or 40% of Mean Roof Height (h), but not less than 4% of Least Hor. Dist. or 3 ft. Identify the zone per the figure or information by others. Any questionable zone is to be considered the more critical zone.