



Retrofit of Windows & Doors Submittal Packet

BUILDING DEPARTMENT

Revision Date: 11/30/2022

Form I.D. Number: 015.1

SUBMIT THE FOLLOWING

1. A sketch of the house (floor plan view) showing the location of all openings and identify each opening with a letter or number. Use ink only. (Two Sets)
2. N.O.A.'s (Notice of Acceptance) Product Approvals with opening sizes and related pressures highlighted and add the identifying letter or number at each column. (Two Sets)
3. If any opening is to be altered, an Engineer or Architect's signed and sealed detail is required. (Two Sets)
4. A Building Permit Application, Owner-Builders Affidavit and recorded Warranty Deed if applicable.
5. Complete the Broward County Uniform Retrofit Window & Door Schedule (use as many sheets as needed to list all openings.) (Two Sets)



BROWARD COUNTY BOARD OF RULES AND APPEALS

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Plantation, FL 33324

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broward.org/CodeAppeals

FBC 7th EDITION (2020) FORMAL INTERPRETATION (#24)

DATE: September 10, 2020
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Retrofit of Windows, Doors, Garage Doors, Shutters and Skylights
FBC Existing Building, Alteration Level I

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Swimming Pool Contractor
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Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

At its meeting of September 10, 2020, the Board approved an interpretation of Retrofit of Windows, Doors, Garage Doors, Shutters and Skylights, for detached one and two family dwellings, and multiple single family dwellings, (townhouses) with common roof height < 30 feet.

1. A Florida Professional Engineer or Architect may modify the buck or fasteners as specified in a Notice of Acceptance. Such modification must be documented with a signed and sealed letter or drawing.

2. 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 plan (signed and sealed) by a Florida Professional Engineer or Architect, indicating the location of all retro openings and the required design pressures.
- b) A site-specific plan (not sealed) indicating the location of all retro 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 pressures based on the Broward County Fenestration Voluntary Wind Load Chart. (see attached chart).

3. Buildings with a (height) > 30 feet or more shall have a site-specific design (signed and sealed) by a Florida Professional Engineer or Architect, indicating the location of all retro openings and the required design pressures for each opening.

NOTE: Generic charts, graphs alone, etc. are not acceptable for buildings above 30 feet.

EFFECTIVE DATE: September 12, 2012
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: December 31, 2020

***** PLEASE POST AT YOUR PERMIT COUNTER *****

Broward County Fenestration Voluntary Wind Load Chart*

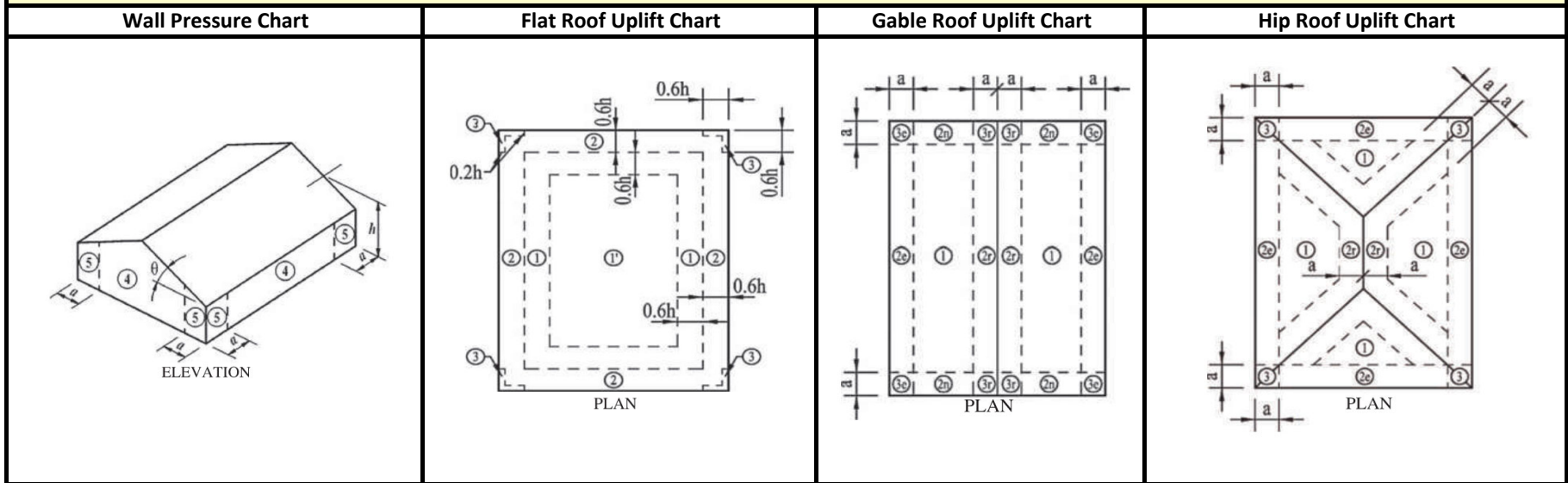
Per ASCE 7-16 Part 1 and FBC (2020) for Retrofitting in Accordance with Formal Interpretation #24

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** / $K_d = 0.85$ / $K_{zt} = 1.0$ / Pressures are in PSF / Not for use in Coastal (Exposure 'D' areas)

* Using Allowable Stress Design methodology ($P = 0.6w$) / ** Exposure C or D shall be determined according to ASCE 7-16 Section 26.7 (Exposure Categories)

Roof and Wall Zone Chart Diagrams



Instructions on how to use these Charts: Determine Mean Roof Height, h , which is top of roof for flat roofs or the mean roof height for pitched roofs. Find your least horizontal dimension for your building, not including a overhang if it occurs. Calculate the value of, a , = 10% of least horizontal dimension or $0.4 \cdot h$, whichever is smaller, but not less than either 4% of least horizontal dimension or 3 feet. If your roof height is less than 30 feet, but not exactly 15, 20, or 25 feet, you will need to go to the next higher roof height. If your Mean Roof Height is higher than 30 feet, these charts do not apply. Review the diagram which illustrate the wall and roof zones and determine the wind zone in which the component is located. Determine the tributary area of the component. If the tributary area falls in between values, use the value of the smaller tributary area. Select the positive and negative wind pressures corresponding to the wall or roof zone where your component is located. Door pressures shown are for the most common door sizes and are worst case for heights ≤ 30 Feet.

Wall Pressure For All Roof Types													Garage/Door Pressures			
Mean Roof Height	15 Ft						20 Ft						≤ 30 Ft			
Tributary Area	10	20	35	50	100	500	10	20	35	50	100	500	Effective Wind Area		Positive	Negative
	Wall Positive Pressure		Zone 4 Negative Pressure		Zone 5 Negative Pressure		Width		Height							
Mean Roof Height	25 Ft						30 Ft						14	14	35.4	-41.8
Tributary Area	10	20	35	50	100	500	10	20	35	50	100	500	9	7	38.7	-48.3
Wall Positive Pressure	42.3	40.4	38.8	37.8	35.9	31.5	43.9	41.9	40.3	39.3	37.3	32.8	16	7	37.0	-45.0
Zone 4 Negative Pressure	-45.8	-43.9	-42.4	-41.4	-39.5	-35.1	-47.6	-45.7	-44.1	-43.1	-41.1	-36.5	3	7	41.8	-54.6
Zone 5 Negative Pressure	-56.6	-52.8	-49.7	-47.8	-43.9	-35.1	-58.8	-54.7	-51.7	-49.6	-45.7	-36.5	6	7	39.8	-50.6

NAME: _____ SITE ADDRESS: _____ CONTACT #: _____

1	2	3		4		5		6		7		8		9		10	
OPENING LOCATION ID	PRODUCT ACCEPTANCE NUMBER	PRODUCT APPROVAL PRESSURE RATING		REQUIRED DESIGN PRESSURE		OPENING SIZES		ZONE LOCATION		Impact Glazing		OPENING HAS EXISTING SHUTTERS		NEW SHUTTERS REQUIRED		MULLION TUBES REQUIRED	
		(+) PSF	(-) PSF	(+) PSF	(-) PSF	WIDTH X HEIGHT IN INCHES	AREA IN SQ FEET	4 INTER	5 END	YES	NO	YES	NO	YES	NO	YES	NO
						X											
						X											
						X											
						X											
						X											
						X											
						X											
						X											
						X											
						X											

IDENTIFY OPENINGS ALPHABETICALLY OR NUMERICALLY ON ELEVATION SHEETS.

IDENTIFY VERTICALLY STACKED GLASS IN THE SAME OPENINGS FROM BOTTOM TO TOP WITH SUB NUMBERS (Example: A, A1, A2, ETC.).