



Miramar | Building Division

Community & Economic Development Department
2200 Civic Center Place | Miramar, Florida 33025
Tel: 954.602.3200 | Fax: 954.602.3635
www.miramarfl.gov

WINDOWS & DOORS RETROFIT AS PER BROWARD COUNTY UNIFORM APPLICATION FORMAT

Who Can Apply (A or B)

A. Licensed Contractors for Residential Permit can be issued to **Licensed Contractors** properly registered in the Community Development - Building Division. Contractors shall provide all required applications properly signed and notarized. **Also, Contract signed by both parties (Contractor & Homeowner) shall be provided indicating contract value per every applicable discipline.**

ATTENTION HOMEOWNER – READ CAREFULLY

B. Homeowner/Builder for Residential Only. Permit can be issued to homeowner/builder if job address matches the address on picture ID (Driver License, ID card) and Proof of ownership (Recorded warranty deed, tax statement, settlement statement). • If a contractor is hired, then the contractor must pull the permit.

ATTENTION → FOR NON-IMPACT WINDOWS & DOORS

When replace non-impact resistant windows & doors for house built prior September 1, 1994, permit application for shutters shall be provided along with current Product Approvals. (See the Code Section below).

Florida Building Code – Existing Building 707.4 Replacement of windows and doors: The replacement of garage doors, exterior doors, skylight, operative and inoperative windows shall be designed and constructed to comply with Chapter 16 of the Florida Building Code.

Exception (2) Opening protection exception for High Velocity Hurricane Zones: For one- and two-family dwellings constructed under codes prior to September 1, 1994 the replacement of exterior doors with glazing, sliding glass doors, glass patio doors, skylights, and operable and inoperable windows within any 12-month period shall not be required to have opening protection provided the aggregate area of the glazing in the replaced components does not exceed 25 percent of the aggregate area of the glazed openings in the dwelling or dwelling unit.

Required Documents

- Complete Permit application base on scope of work, along with a contract signed by both parties (Contractor & Homeowner). The contract shall indicate a value, including labor & materials
- Owner –Builder Disclosure Statement. For Homeowner applicants only.
- Affidavit of Awareness of Homeowner’s Association (Included in this package). This is a required affidavit which shall be submitted even if the property is not located in a Homeowner’s Association.
- One (1) set of Floor Plan Sketch indicating location & dimension for every door & window as per the Broward County Uniform Retrofit for Windows & Doors (Included in this Application Package). The floor plan sketch shall indicate existing windows and doors along with the proposed work (windows & doors replacement) to determine percent (25%) of aggregate area.
- All application forms required as per the Broward County Uniform Retrofit for Windows & Doors., along with Current Product Approvals or Miami Dade Notice of Acceptance (NOA). Application for permit will be deemed incomplete if all required forms are not included.
- Signed & Sealed Engineering Wind Load Calculations can be used in lieu of the Broward County Fenestration Voluntary Wind Load Chart.

Attention Applicant: As per Florida Statutes 713.13, a Recorded Notice of Commencement is required when construction, renovation, alterations values exceed \$2,500. This subsection does not apply to a direct contract to repair or replace an existing heating or air-conditioning system in an amount less than \$7,500. Construction cost (Including labor & material) will be based on contract signed by both parties (owner & contractor) and/or as determined by the Building Official (FBC 109.3).



BROWARD COUNTY

Board of Rules & Appeals

1 North University Drive, Suite 3500B, Plantation, Florida 33324

To: Members of the Broward County Board of Rules and Appeals.
From: Michael Guerasio, Chief Structural Code Compliance Officer.
Ted Fowler, Chief Structural Code Compliance Officer.
Date: January 9th, 2020.
Re: The Board to consider adopting policy 20-01, in reference to retrofit window & door replacements. To be in effect, mandatory, on July 1st, 2020.

RECOMMENDATION:

It is recommended that the Broward County Board of Rules and Appeals consider and approve by vote, policy 20-01 "Broward County Uniform Retrofit Window & Door Schedule" to be in effect, mandatory, on July 1st, 2020. An informational packet was developed which includes application instructions and the Broward County Uniform Retrofit Window & Door Schedule to be utilized throughout Broward County.

REASONS:

At the June 13th, 2019 Board of Rules and Appeals regular meeting, Mr. David Rosenof, President of Big Dog Construction Services Inc, representing the Broward League of Cities suggested the possibilities of developing a uniform schedule for retrofit window & door replacements. After discussion, the Board directed the structural committee to meet and present recommendations to this request. On August 13th, 2019 the structural committee met to discuss and present recommendations to the Board whether a uniform schedule should be developed. The committee discussed this item and directed staff to develop the document and present it to the Board with no further structural committee meetings necessary by a unanimous vote. Attached you will find the new proposed retrofit window & door informational packet, including instructions and a uniform retrofit window & door schedule to be utilized throughout Broward County.

ADDITIONAL INFORMATION

By approving this packet and uniform schedule, it will provide uniformity in obtaining a permit to change out window and door openings throughout Broward County. It will also provide the property owners and contractors, guidance as to what information, at a minimum, is required to be submitted to the building department to obtain a permit to change out these fenestrations.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Michael Guerasio", is written over a horizontal line.

Michael Guerasio, Chief Structural Code Compliance Officer.

A handwritten signature in brown ink, appearing to read "Ted Fowler", is written over a horizontal line.

Ted Fowler, Chief Structural Code Compliance Officer

Subject: "Broward County Uniform Retrofit Window & Door Schedule"

POLICY

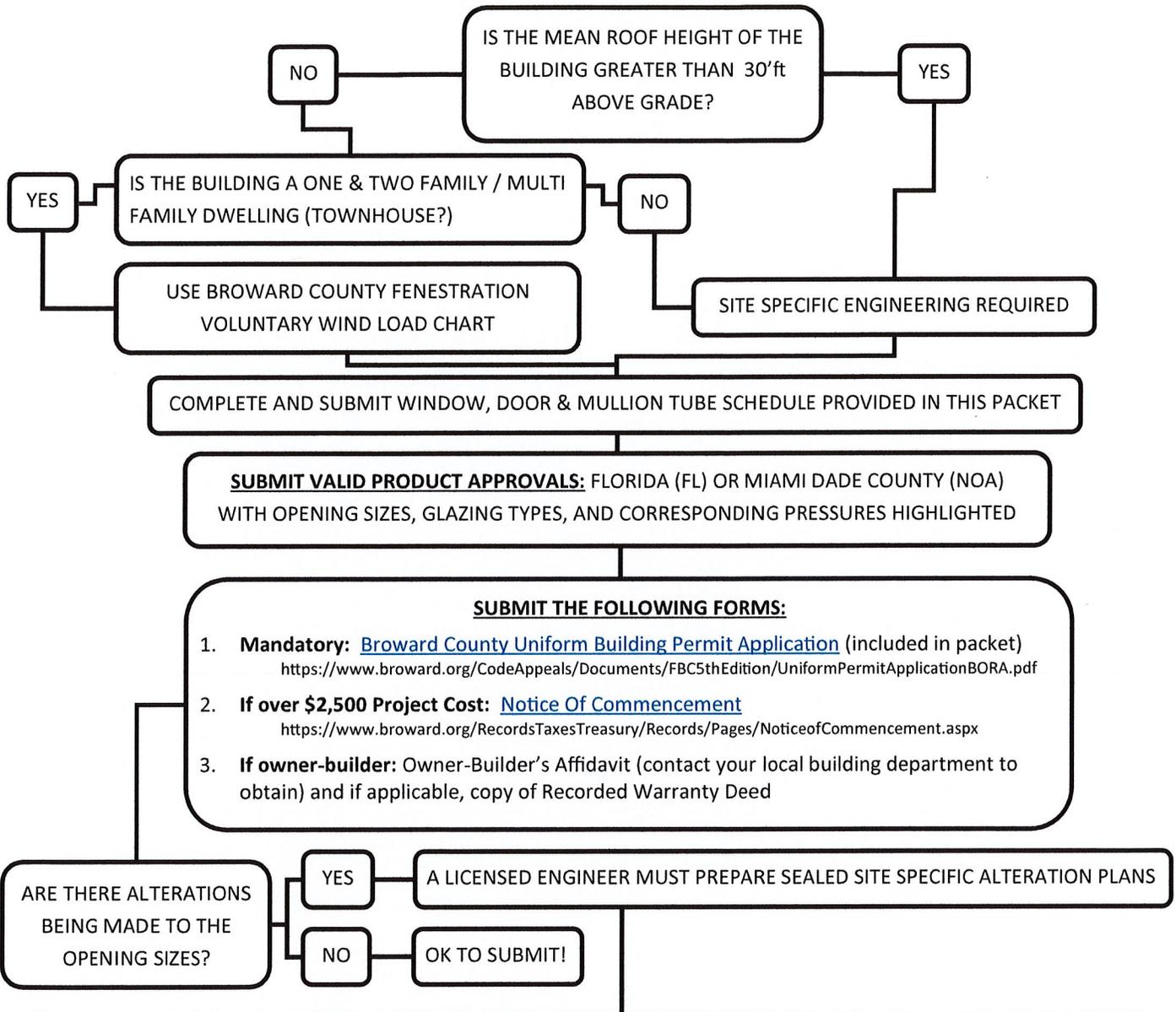
Each permit application for a window and door replacement "retrofit", shall be submitted to all jurisdictions in Broward County using the attached "*Broward County Uniform Retrofit Window & Door Schedule*"

This form does not relieve the permit holder, building owner or contractor from complying with all and any applicable local regulations or ordinances related to zoning, building, fire prevention, etc.; or prohibits a Broward County jurisdiction from requiring additional information to be provided in relation to applicable local regulations or ordinances related to zoning, building, fire prevention, etc.

Use of the "*Broward County Uniform Retrofit Window & Door Schedule*" is mandatory countywide starting July 1, 2020.

Uniform Retrofit Window & Door Schedule attached.

INSTRUCTION FLOWCHART



DESIGN CRITERIA REQUIREMENTS FOR PLANS

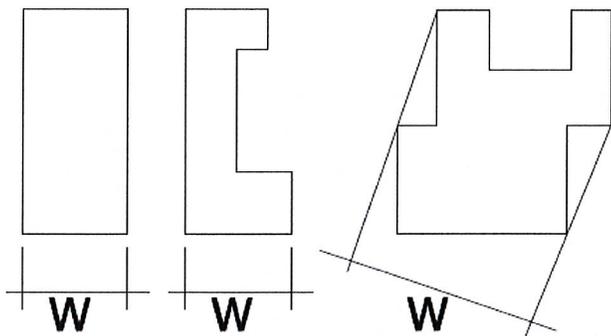
1. Unit sketch, generally to scale illustrating the unit and overall building (if multi-family).
2. Broward requires ASCE 7 calculations using Peak wind velocity $V_{ult}(min) = 170\text{mph}$
3. Either Exposure C (inland) or D (coastal - see description next page)
4. Mean (average) Roof height (see page 3)
5. Overall Building Width & Length (lessor dimension is used to determine width of zone 5)
6. Label each opening dimensions, wind zone (4 or 5) on the layout as shown in example on page 3
7. Each opening shall have a corresponding "mark" which ties into the window, door & mullion schedule provided within this packet

OK TO SUBMIT!

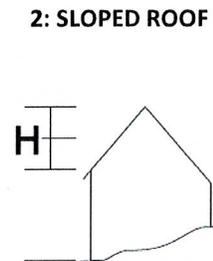
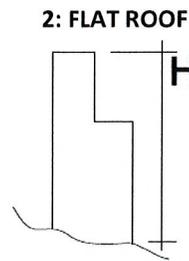
Explanation of Terms

- 1: **Exposure C:** All of Broward County. The "Broward County Fenestration Voluntary Wind Load Chart" included within this packet can be used for all detached one & two story dwellings and multiple single-family dwellings (townhomes).
- 2: **Exposure D:** A structure that's within 600' or 20X building height of a flat area/body of water that's a mile long. Generally all areas east of the Intercoastal Waterway. Wind load pressures must be completed by a licensed design professional for all structures.
- 3: **Mean Roof Height ("h"):** Average between the lowest and the highest roof point of a sloped roof, also the highest point of a flat roof (also see page 3).
- 4: **Minimum Building Width:** 10% of least horizontal dimension (W) or 0.4h, whichever is smaller, but not less than either 4% of least horizontal dimension or 3'ft minimum.

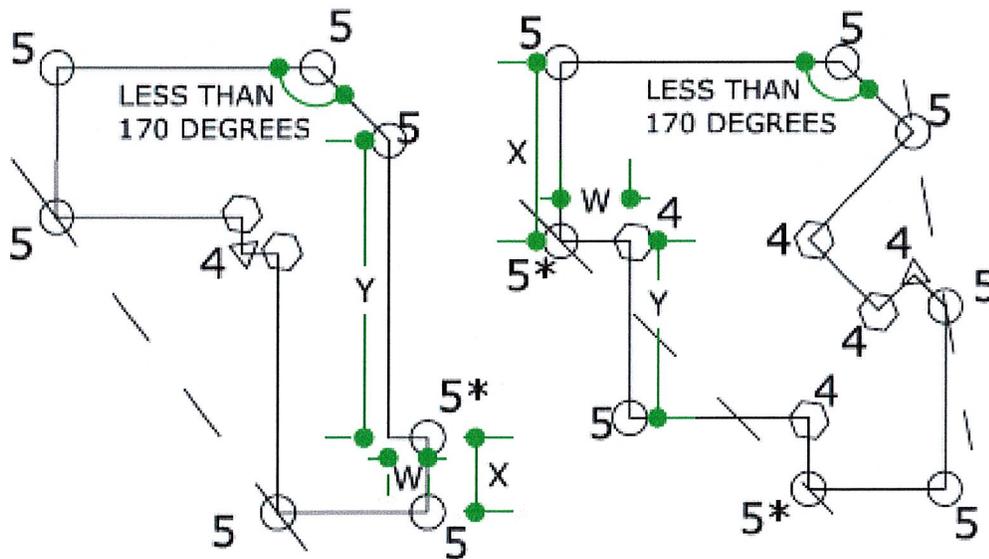
MIN. BUILDING WIDTH EXAMPLES (PLAN VIEW):



Mean Roof Height



ZONE EXAMPLES (PLAN VIEW)



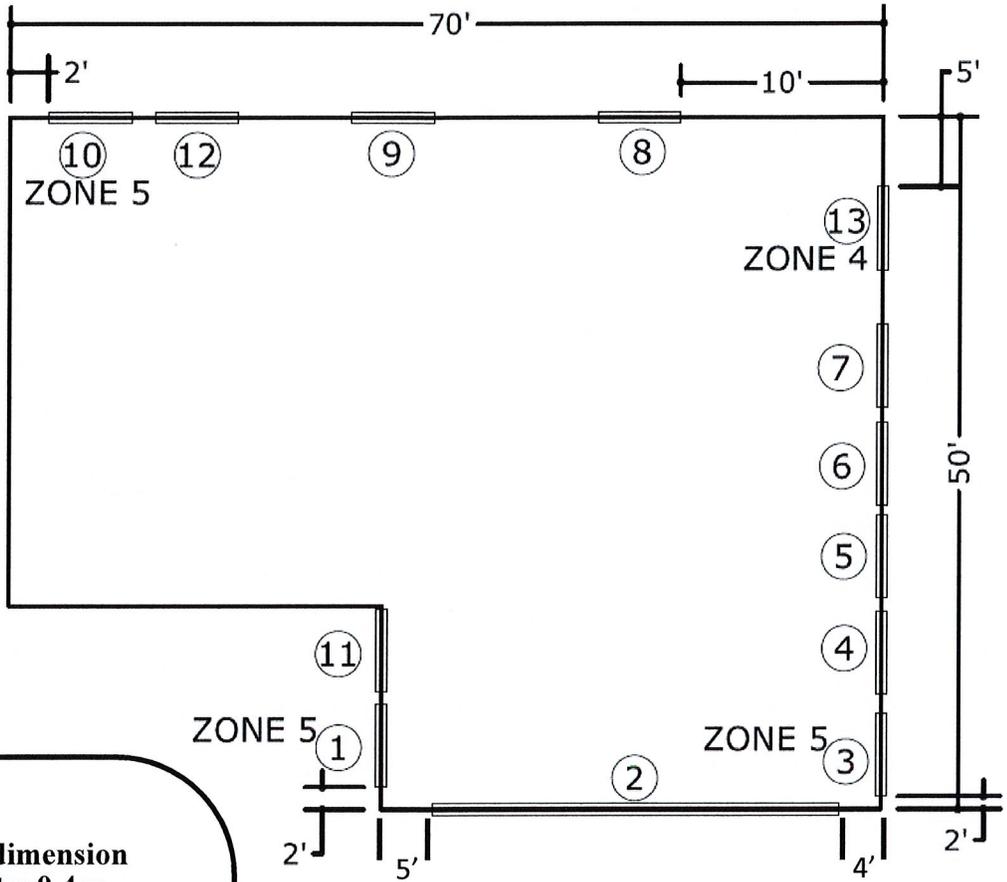
- INDICATES BUILDING CORNER DISCONTINUITY (ZONE 5)
- ▽ INDICATES AN OBSTRUCTED EXTERIOR CORNER (ZONE 4)
- ⬡ INDICATES A TYPICAL INTERIOR CORNER (ZONE 4)

NOTE: The corner designated by an * would not be considered a corner if dimension W is less than half the width of the corner zone and dimension X and Y are greater than the width of a corner zone

170 degree:
An unobstructed exterior corner with an interior angle of less than 170 degree would be considered a corner zone

See page 3 for example on how to calculate the zone dimensions of a building

Minimum Sketch Requirement



Zone determinations:

1. Zone 5 (corner zone) in this example is calculated as 5'ft in width, any opening within 5'ft of an outside unobstructed corner would be considered in zone 5.
2. In this example, openings 1, 2, 3 & 10 are located in a zone 5 (corner zone).
3. All other opening would be considered zone 4 (interior zone).

ZONE CALCULATIONS:
 Zone 5 = $.10 \times$ least horizontal dimension (50ft \times .10 = 5ft) or $.4 \times$ "h" (14ft \times 0.4 = 5.6ft) whichever is smaller, but not less than either 4% of the least horizontal dimension (50ft \times 4% = 2ft), or 3ft.

Zone 5 (corner zone) would be 5'ft wide.
 All others would be zone 4.

Next Steps:

- Complete Window & Door Schedule included within this packet
- Submit all forms to your local building department according to their instructions.
- The local building department may require additional documentation

BROWARD COUNTY UNIFORM BUILDING PERMIT APPLICATION

Select One Trade: Building Electrical Plumbing Mechanical Other _____

Application Number: _____

Application Date: _____

1	Job Address: _____	Unit: _____	City: _____
	Tax Folio No.: _____	Flood Zn: _____	BFE: _____
	Floor Area: _____		Job Value: _____
	Building Use: _____	Construction Type: _____	Occupancy Group: _____
	Present Use: _____	Proposed Used: _____	
	Description of Work: <input type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Repair <input type="checkbox"/> Alteration <input type="checkbox"/> Demolition <input type="checkbox"/> Revision <input type="checkbox"/> Other: _____		
Legal Description: _____			<input type="checkbox"/> Attachment

2	Property Owner: _____	Phone: _____	Email: _____
	Owner's Address: _____	City: _____	State: _____ Zip: _____

3	Contracting Co.: _____	Phone: _____	Email: _____
	Company Address: _____	City: _____	State: _____ Zip: _____
	Qualifier's Name: _____	Owner-Builder: <input type="checkbox"/>	License Number: _____

4	Architect/Engineer's Name: _____	Phone: _____	Email: _____
	Architect/Engineer's Address: _____	City: _____	State: _____ Zip: _____
	Bonding Company: _____		
	Bonding Company Address: _____	City: _____	State: _____ Zip: _____
	Fee Simple Titleholder's name (if other than owner): _____		
	Fee Simple Titleholder's Address (If other than owner): _____	City: _____	State: _____ Zip: _____
	Mortgage Lender's Name: _____		
	Mortgage Lender's Address: _____	City: _____	State: _____ Zip: _____

Application is hereby made to obtain a permit to do the work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for ELECTRICAL WORK, PLUMBING, SIGNS, WELLS, POOLS, FURNACES, BOILERS, HEATERS, TANKS, and AIR CONDITIONERS, etc.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

X _____
Signature of Property Owner or Agent

X _____
Signature of Qualifier

STATE OF FLORIDA
COUNTY OF BROWARD

STATE OF FLORIDA
COUNTY OF BROWARD

Sworn to (or affirmed) and subscribed before me this _____ day of _____, 20____ by _____

Sworn to (or affirmed) and subscribed before me this _____ day of _____, 20____ by _____

(Type / Print Property Owner or Agent Name)

(Type / Print Qualifier's Name)

NOTARY'S SIGNATURE as to Owner or Agent's Signature

NOTARY'S SIGNATURE as to Qualifier's Signature

Notary Name _____
(Print, Type or Stamp Notary's Name)

Notary Name _____
(Print, Type or Stamp Notary's Name)

Personally Known _____ or Produced Identification _____

Personally Known _____ or Produced Identification _____

Type of Identification Produced _____

Type of Identification Produced _____

APPROVED BY: _____ Permit Officer Issue Date: _____ Code in Effect: _____

A jurisdiction may use a supplemental page requesting additional information and citing other conditions, please inquire.
Note: If any development work as described in FS 380.04 Sec. 2 a-g is to be performed, a development permit must be obtained prior to the issuance of a building permit.



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Affidavit of Awareness of Homeowner's Association Regulations

The following "Affidavit" is required as per City's ordinance. This is a mandatory affidavit which is required even if your property is not located in a Homeowner's Association.

ATTENTION APPLICANT. READ CAREFULLY

- For homeowner/Builder applicants, this affidavit can be notarized by Permit Clerk at the Building Division. Homeowner should appear in person with required picture I.D. (i.e. Driver License) and proof of ownership (i.e. Recorded Warranty, County Tax Statement). The physical address on I.D. shall match the address on the proof of ownership (i.e. Recorded Warranty Deed).
- For Licensed Contractor applicants, this affidavit can be notarized outside the Building Division by any Notary Public.

Homeowner or Condominium Association Affidavit requirement. Miramar - City Code Sec. 22-29.(c)(1) As part of the application process for a building permit in accordance with this chapter and with Section 713.20 of the Land Development Code, each applicant shall sign an affidavit (the "affidavit of awareness") indicating that the applicant is aware that, if the subject property is located in a Homeowners' Association or Condominium Association, as defined in this section, the applicant's property may be subject to additional regulations despite the issuance of a building permit by the city.

This serves to notify such homeowner that the issuance of a Building, Landscaping, or other permits by the City of Miramar, Florida does not exempt he/she from any and all other regulations imposed by the Homeowner's Association (HOA) in which his/her property is located. Be aware that despite the issuance of a building permit by the city, the applicant's property may result in additional regulations or denial to perform the work in your property located at HOA community.

Read and Initial to the left of the applicable statement

_____ I acknowledge that **I am the owner of property** located in the following Homeowner's Association:

Print Name of Homeowner's Association

_____ I acknowledge that my property is not located in a Homeowners' Association.

Name: _____
Homeowner - Print Name

Job Address: _____

Miramar, Florida Zip Code : _____

Signature: _____
Homeowner - Signature

STATE OF FLORIDA. Sworn to and subscribed before me this _____ day of _____, 20_____

Notary Public



Miramar | Building Division

Community & Economic Development Department
2200 Civic Center Place | Miramar, Florida 33025
Tel: 954.602.3200 | Fax: 954.602.3635
www.miramarfl.gov

Owner/Builder Disclosure Statement

Owner Name: _____

Address: _____ Miramar, FL, Zip Code: _____

LOT: _____ BLOCK: _____ SUBDIVISION: _____

I am submitting an application for a Building Permit as an Owner-Builder in accordance with the exemption set forth in Florida Statute 489.103. Florida law requires construction to be done by a licensed contractor. It's a requirement by law you read and sign the following statements, and hence you can understand your responsibilities as an owner-builder. By signing the following statements, you attest that:

DISCLOSURE STATEMENT

(Read and Initial to the left of each statement)

- 1. I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.
- 2. I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.
- 3. I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on permits and contracts.
- 4. I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.
- 5. I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.
- 6. I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.
- 7. I understand that it is a frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.
- 8. I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.
- 9. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.



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Owner/Builder Disclosure Statement *(Continuation)*

- 10. I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at (telephone number) or (Internet website address) for more information about licensed contractors.
- 11. I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the address listed above.
- 12. I agree to notify (issuer of disclosure statements) immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure.

Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to the local permitting agency responsible for issuing the permit. A copy of the property owner's driver license, the notarized signature of the property owner, or other type of verification acceptable to the local permitting agency is required when the permit is issued.

I have read the foregoing instructions and I am aware of my responsibilities.

Owner Signature

Date Signed

STATE OF FLORIDA, COUNTY OF BROWARD. Sworn to and subscribed before me this _____ day of _____, 20_____.

Notary Public

F.S 489.103. 3(c). If any person violates the requirements of this subsection, the local permitting agency shall withhold final approval, revoke the permit, or pursue any action or remedy for unlicensed activity against the owner and any person performing work that requires licensure under the permit issued.

NAME: _____ SITE ADDRESS: _____ CONTACT #: _____

1 OPENING LOCATION ID	2 PRODUCT ACCEPTANCE NUMBER	3 PRODUCT APPROVAL PRESSURE RATING		4 REQUIRED DESIGN PRESSURE		5 OPENING SIZES		6 ZONE LOCATION		7 Impact Glazing		8 OPENING HAS EXISTING SHUTTERS		9 NEW SHUTTERS REQUIRED		10 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.).



BROWARD COUNTY BOARD OF RULES AND APPEALS

One North University Drive
Suite 3500-B
Plantation, Florida 33324
Phone: 954-765-4500
Fax: 954-765-4504
www.broward.org/codeappeals

FBC 6th Edition (2017) FORMAL INTERPRETATION (#5)

DATE: October 12, 2017
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

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor

Mrs. Shalanda Giles Nelson,
General Contractor

Mr. Daniel Lavrich, P.E.
Structural Engineer

Mr. Daniel Rourke
Master Plumber

Gregg D'Attilio,
Mechanical Contractor

Mr. Stephen E. Bailey, P.E.
Electrical Engineer

Mr. Ron Burr
Swimming Pool Contractor

Mr. John Sims,
Master Electrician

VACANT
Consumer Advocate

Mr. Abbas H. Zackria, CSI
Architect

Robert A. Kamm, P.E.
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger
Architect

Mr. Steven Feller, P.E.
Mechanical Engineer

Mr. Alberto Fernandez,
General Contractor

Mr. Robert Taylor
Fire Service

Mr. Gary Elzweig, P.E.
Structural Engineer

Mr. David Rice, P.E.
Electrical Engineer

Mr. James Terry,
Master Plumber

Mr. David Tringo,
Master Electrician

Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—Established 1971—

At its meeting of October 12th, 2017 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.

ORIGINAL DATE: September 12, 2012

RE-ISSUED: October 12, 2017

EFFECTIVE DATE: January 1, 2018

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

Page 1 of 2 F.I. #5

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					
		Zone 2		Zone 3		Zone 2		Zone 3		Zone 2		Zone 3		Zone 2		Zone 3		Zone 2		Zone 3		Zone 2		Zone 3	
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
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
20	Roof	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
50	θ ≤ 7°	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
100	(0 to 1.5:12)	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
10	Gable/Hip	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
20	Roof***	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
50	7° < θ ≤ 27°	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
100	(1.5 to 6:12)	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
10	Gable Roof	34.6	-37.8	34.6	-44.2	34.6	-44.2	36.8	-40.2	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
20	27° < θ ≤ 45°	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
50	(6 to 12:12)	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
100		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)

Effective Wind Area (ft ²)	Location	Mean Roof Height of 15 feet						Mean Roof Height of 20 feet						Mean Roof Height of 25 feet						Mean Roof Height of 30 feet									
		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5			
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
10	Wall	37.8	-41.0	37.8	-50.6	40.2	-43.6	40.2	-53.8	42.1	-45.7	42.1	-56.4	43.7	-47.4	43.7	-58.6	44.8	-45.5	44.8	-54.6	46.0	-42.9	46.0	-49.4	47.2	-40.9	47.2	-45.5
20		36.1	-39.3	36.1	-47.2	38.3	-41.7	38.3	-50.1	40.2	-43.8	40.2	-52.6	41.8	-45.5	41.8	-54.6	43.7	-42.9	43.7	-49.4	45.5	-40.9	45.5	-45.5	46.3	-36.3	46.3	-36.3
50		33.8	-37.0	33.8	-42.7	36.0	-39.4	36.0	-45.4	37.7	-41.3	37.7	-47.5	39.2	-39.4	39.2	-49.4	41.8	-40.9	41.8	-45.5	43.7	-42.9	43.7	-49.4	45.5	-40.9	45.5	-45.5
100		32.1	-35.3	32.1	-39.3	34.1	-37.5	34.1	-41.7	35.8	-39.4	35.8	-43.8	37.4	-37.1	37.4	-44.2	39.2	-39.4	39.2	-45.5	41.8	-40.9	41.8	-45.5	43.7	-42.9	43.7	-49.4
500		28.2	-31.4	28.2	-31.4	29.9	-33.3	29.9	-33.3	31.4	-35.0	31.4	-35.0	32.6	-36.3	32.6	-36.3	33.3	-37.4	33.3	-37.4	34.4	-38.6	34.4	-38.6	35.8	-40.9	35.8	-40.9

Garage Door Wind Loads
 Exposure C
 for a Building with 30-foot Mean Roof Height
 Tables 1609.7(1) & (2), and Section 1609.3.1

Effective Wind Area	Roof Angle	Wind Load
Width		
8	0 - 10 degrees	35.2 -39.8
10	0 - 10 degrees	34.1 -38.2
14	0 - 10 degrees	32.3 -36.1
9	> 10 degrees	38.4 -43.4
16	> 10 degrees	36.8 -41.0

Design is based on the 3-second gust (wind velocity) for Risk Category II (general residential & commercial construction) per FBC 1620.2 Broward. These tables not for use with essential facilities or assembly occupancies.

Identify the zone per the figure or information by others. Any questionable zone is to be considered the more critical zone.

NOTICE OF COMMENCEMENT

Permit No. _____

Tax Folio No. _____

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

- 1. Description of property (legal description of property): _____
a) Street (job) Address: _____
- 2. General description of improvement(s): _____
- 3. Owner or Lessee information (Lessee as owner only if contracted for improvements)
 - a. Name and address: _____
 - b. Interest in property: _____
 - c. Name and address of fee simple titleholder (if other than owner): _____
- 4. Contractor Information
 - a. Name and address: _____
 - b. Phone number: _____ Fax No. (Opt.) _____
- 5. Surety Information
 - a. Name and address: _____
 - b. Amount of bond \$ _____
 - c. Phone number: _____ Fax No. (Opt.) _____
- 6. Lender
 - a. Name and address: _____
 - b. Phone number: _____
- 7. Persons within the State of Florida designated by Owner upon who notices or other documents may be served as provided by Section 713.13(l)(a)7., Florida Statutes:
 - a. Name and address: _____
 - b. Phone number: _____
- 8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
 - a. Name and address: _____
 - b. Phone number: _____

Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified) _____.

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have - read the foregoing and that the facts in it are true to the best of my knowledge and belief.

Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager
Signatory's Title/Officer: _____

State of Florida
County of Manatee

The foregoing instrument was acknowledged before me this ____ day of _____, 20__ by _____, who is personally known to me or has produced _____, and who did/did not take an oath.

(Driver's License #)

Signature of Notary
Public - State of Florida

Print, Type, or Stamp
Commissioned Name of Notary Public