

WINDOWS / DOORS – REPLACEMENT

NOTE: Alteration Permit is REQUIRED for Location or Size changes

Please submit/upload plans in PDF format

Please indicate items submitted with a checkmark (√)

Please upload [this Checklist and any Required Forms](#) in .pdf format to the appropriate category [<Survey>](#) [<Building Plans>](#) [<Supporting Docs>](#) [<NOA>](#) following the TOJ Naming Convention found in Help Documents

Create online as: Permit Type: **Building(C) or Building(R)**
Work Class: **Windows, Doors, Garage Door**

1. Plans [<Building Plans>](#)

- a. Floor plan with location and sizes to be replaced (sizes may be shown in a schedule) _____
- b. Bedroom emergency egress windows location _____
- c. Emergency egress windows sized per: _____
 - **Current FBC, FBC Res, Existing Building Code** _____

2. Supporting Documents [<Supporting Docs>](#)

- a. Owner/Builder Affidavit, if applicable _____
- b. Wind load information about host structure: _____
 - Required Design Pressures _____
 - Mean roof height _____
 - Wind exposure category and zones _____
 - Mark tables included in permit package _____

3. Product Approval [<NOA>](#)

- a. Product approvals shall be signed by designer _____
 - **MUST** be on jobsite for inspection
- b. Provide Product Approvals as required: _____
 - State of Florida Product Approval with installation instructions engineered plans _____
 - Be sure to mark the **EXACT** product number _____
 - Miami-Dade Notice of Acceptance (NOA) with installation instructions _____
 - Engineer signed/sealed plans and calculations for custom design _____
- c. Information required from product approval: _____
 - **ALL** project specific details shall be Identified/Marked/Circled on product Approval Installation Instructions _____
 - Engineered plans with Actual Design Pressures, anchor details, types of fasteners, construction details of host structure, types and thickness of glazing _____
- d. Indicate **Actual Design Pressures** in **Product Approval** vs **Required Design Pressures** from Current **FBC Tables** _____

WINDOWS / DOORS – REPLACEMENT

Please Note:

- **If building is located in a Sea Turtle Protection Zone (600' or less from beach) then Turtle Glass will be required**
- **In-progress inspection is required for window/door installation in existing buildings**
- **Engineers Letter/photographs will NOT be accepted in Lieu of Inspections**

IMPORTANT NOTICE

**IF RESIDENT LIVES IN DEED RESTRICTED COMMUNITY
PLEASE CONTACT HOA TO DETERMINE IF ASSOCIATION APPROVAL IS REQUIRED
TOJ BUILDING DEPARTMENT CANNOT ENFORCE ASSOCIATION REGULATIONS**

TOWN OF JUPITER BUILDING DEPARTMENT

FIELD INSPECTION SERVICES

IN-PROGRESS DOOR AND WINDOW INSPECTION

Revision 3:

Update to the 2010 Florida Building Code

The purpose of this inspection is to insure the proper installation of window and door bucks, shims and anchors, as specified in the product approval and the Florida Building Code as written below.

The text written in Italics is the commentary provided by the Town of Jupiter.

FBC 1715.5.4 & FBC-R612.10.2 Masonry, concrete or other structural substrate.

Where the wood shim or buck thickness is less than 1½ inches (38 mm), window and door assemblies shall be anchored through the main frame or by jamb clip or sub frame system, in accordance with the manufacturers published installation instructions. Anchors shall be securely fastened directly into the masonry, concrete or other structural substrate material.

When the thickness of the buck or shim is less than 1 ½ inches, anchors shall be installed directly through the window/door frame, through the shims and buck, and into the masonry structure.

Unless otherwise tested, bucks shall extend beyond the interior face of the window or door frame such that full support of the frame is provided.

The buck shall be installed as displayed in the window/door Notice of Acceptance (NOA). If the existing buck fails to match the exact requirements as pictured in the NOA, then the existing buck shall be removed and a new buck installed in accordance with the NOA. It is not permissible to piece in additional wood in order to extend the width of the existing buck.

Shims shall be made from materials capable of sustaining applicable loads, located and applied in a thickness capable of sustaining applicable loads.

Wood, plastic, and metal are considered to be suitable shim materials.

Anchors shall be provided to transfer load from the window or door frame to the rough opening substrate.

The type of anchor and the penetration depth is specified in the product approval and the manufacturer's installation instructions, which needs to be on site during installation and inspection.

Where the wood buck thickness is 1½ inches (38 mm) or greater, the buck shall be securely fastened to transfer load to the masonry, concrete or other structural substrate and the buck shall extend beyond the interior face of the window or door frame.

Where the thickness of the buck is 1 1/2 inches or more, the buck shall be anchored to the masonry structure first.

The means and method of the buck-to-structure attachment shall be detailed in a signed and sealed engineered drawing that has been submitted with the plans and product approval at the time of permit application.

After the window/door buck is installed, the window or door is then shimmed and anchored to the buck with anchors approved for the purpose.

Window and door assemblies shall be anchored through the main frame or by jamb clip or sub frame system or through the flange to the secured wood buck in accordance with the manufacturers published installation instructions. Unless otherwise tested, bucks shall extend beyond the interior face of the window or door frame such that full support of the frame is provided. Shims shall be made from materials capable of sustaining applicable loads, located and applied in a thickness capable of sustaining applicable loads. Anchors shall be provided to transfer load from the window or door frame assembly to the secured wood buck.

FBC 1715.5.5 & FBC-R612.11 Mullions occurring between individual window and glass door assemblies.

All mullions have been engineered and tested to comply with specific performance criteria. It is not permissible to cut, notch, drill, alter, modify, or in any way change the mullion or the mullion mounting brackets.

If you have any questions please contact Tim Lynch 561-741-2286

WINDOW/DOOR IN PROGRESS INSPECTION IS REQUIRED, (INSPECTION CONNECTION #157) CALL 561-741-2286 MORNING OF THE INSPECTION.



Town of Jupiter

BUILDING DEPARTMENT

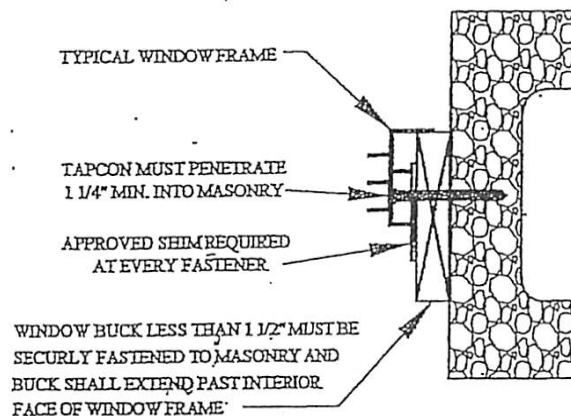
561-741-2286

ATTENTION OWNERS / CONTRACTORS WINDOW & DOOR INSTALLERS

UNLESS OTHERWISE TESTED

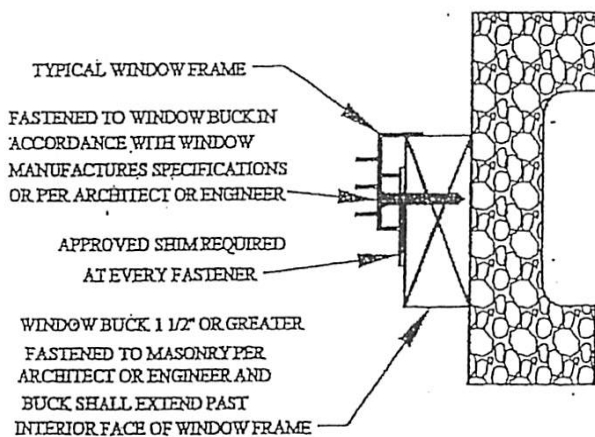
WINDOW BUCK INSTALLATION FOR RESIDENTIAL WINDOWS IN ACCORDANCE WITH FLORIDA BUILDING CODE 1715.5.4 AND FLORIDA BUILDING CODE RESIDENTIAL 612.10.2

Masonry, Concrete or Other Structural
Substrate



BUCK LESS THAN 1 1/2"

Where the wood shim or buck thickness is less than 1 1/2 inches, window and door assemblies shall be anchored through the main frame or by jamb clip or subframe system, in accordance with the manufactures published installation instructions Anchors shall be securely fastened directly into the masonry, concrete or other structural substrate material. Unless otherwise tested, bucks shall extend beyond the interior face of the window or door frame such that full support of the frame is provided. Shims shall be made from materials capable of sustaining applicable loads, located and applied in a thickness capable of sustaining applicable loads. Anchors shall be provided to transfer load from the window or door frame to the rough opening substrate.



BUCK GREATER THAN 1 1/2"

Where the wood buck thickness is 1 1/2 inches or greater, the buck shall be securely fastened to transfer load to the masonry, concrete or other structural substrate and the buck shall extend beyond the interior face of the window or door frame. Window and door assemblies shall be anchored through the main frame or by jamb clip or subframe system or through the flange to the secured wood buck in accordance with the NOA or Florida Product Approval. Unless otherwise tested, bucks shall extend beyond the interior face of the window or door frame such that full support of the frame is provided. Shims shall be made from materials capable of sustaining applicable loads, located and applied in a thickness capable of sustaining applicable loads. Anchors shall be provided to transfer load from the window or door frame assembly to the secured wood buck.

WINDOW SHOP DRAWINGS WILL BE REQUIRED AT TIME OF BUILDING FRAMING
INSPECTION, PER INFORMATION SHEET ATTACHED TO APPROVED PLANS

Rev 5/15/12

Building height Zone 4										
Area	15	20	25	30	35	40	45	50	55	60
10 pos				31.3	32.9	34.1	35.1	36.3	37.3	38.2
neg				34	35.7	37	38	39.4	40.4	41.5
20 pos				30	31.5	32.7	33.6	34.8	35.7	36.6
neg				32.6	34.2	35.5	36.5	37.8	38.8	39.7
50 pos				29.2	30.7	31.8	32.7	33.9	34.8	35.6
neg				30.7	32.2	33.4	34.3	35.6	36.5	37.4
100 pos				26.6	28	29	29.8	30.9	31.7	32.5
neg				29.3	30.7	31.9	32.8	34	34.8	35.7
500 pos				23.3	24.5	25.4	26.1	27.1	27.8	28.5
neg				26	27.3	28.3	29.1	30.1	30.9	31.7

Building height End zone 5										
	15	20	25	30	35	40	45	50	55	60
10 pos.				31.3	32.9	34.1	35.1	36.3	37.3	38.2
neg				41.9	44	45.7	47	48.7	49.9	51.2
20 pos				30	31.5	32.7	33.6	34.8	35.7	36.6
neg				39.1	41.1	42.6	43.8	45.4	46.6	47.7
50 pos				29.2	30.7	31.8	32.7	33.9	34.8	35.6
neg				35.3	37.1	38.5	39.6	41	42.1	43.1
100 pos				26.6	28	29	29.8	30.9	31.7	32.5
neg				32.6	34.2	35.5	36.5	37.8	38.8	39.7
500 pos				23.3	24.5	25.4	26.1	27.1	27.8	28.5
neg				26	27.3	28.3	29.1	30.1	30.8	31.7

Town of Jupiter

Wind design Pressure Chart for structures subject to Florida Residential Code 170 mph exposure B

Wall component and Cladding pressures from Table R302.2(2) modified by adjustment factors from R301.1(3). Converted to Vasd according to R302.1.2.1.1

Building height Zone 4										
Area	15	20	25	30	35	40	45	50	55	60
10 pos	37.9	40.4	42.3	43.8	45.4	46.7	47.9	48.9	49.8	50.7
neg	41.1	43.8	45.9	47.5	49.2	50.6	52	53	54	55
20 pos	36.3	38.7	40.5	42	43.5	44.7	45.9	46.8	47.7	48.6
neg	39.4	42	44	45.6	47.2	48.5	49.8	50.8	51.8	52.8
50 pos	35.4	37.7	39.4	40.9	42.4	43.5	44.7	45.6	46.5	47.3
neg	37.1	39.6	41.4	42.9	44.5	45.7	46.9	47.8	48.7	49.7
100 pos	32.2	34.4	36	37.3	38.6	39.7	40.8	41.6	42.4	43.2
neg	35.4	37.8	39.5	41	42.5	43.6	44.8	45.7	46.6	47.4
500 pos	28.2	30.1	31.5	32.7	33.8	34.8	35.7	36.4	37.1	37.8
neg	31.4	33.5	35.1	36.4	37.7	38.7	40.5	39.7	41.3	42.1

Building height End zone 5										
	15	20	25	30	35	40	45	50	55	60
10 pos.	37.9	40.4	42.3	43.8	45.4	46.7	47.9	48.9	49.8	50.7
neg	50.7	54.1	56.6	58.7	60.8	62.5	64.2	65.4	66.7	67.9
20 pos	36.3	38.7	40.5	42	43.5	44.7	45.9	46.8	47.7	48.6
neg	47.3	50.5	52.8	54.8	56.7	58.3	59.8	61	62.2	63.4
50 pos	35.4	37.7	39.4	40.9	42.4	43.5	44.7	45.6	46.5	47.3
neg	42.8	45.6	47.7	49.5	51.2	52.7	54.1	55.1	56.2	57.3
100 pos	32.2	34.4	36	37.3	38.6	39.7	40.8	41.6	42.4	43.2
neg	39.4	42	44	45.6	47.2	48.5	49.8	50.8	51.8	52.8
500 pos	28.2	30.1	31.5	32.7	33.8	34.8	35.7	36.4	37.1	37.8
neg	31.4	33.5	35.1	36.4	37.7	38.7	39.7	40.5	41.3	42.1

Town of Jupiter

Wind design Pressure Chart for structures subject to Florida Residential Code 170 mph exposure C

Wall component and Cladding pressures from Table R302.2(2) modified by adjustment factors from R301.1(3). Converted to Vasd according to R302.1.2.1.1

Building height Zone 4										
Area	15	20	25	30	35	40	45	50	55	60
10 pos	46	48.5	50.4	52	53.2	54.5	55.7	56.7	57.6	58.6
neg	49.9	52.6	54.7	56.4	57.7	59.1	60.4	61.5	62.5	63.5
20 pos	44.1	46.5	48.3	49.8	51	52.2	53.4	54.3	55.2	56.1
neg	47.9	50.5	52.5	54.1	55.4	56.7	58	59	60	60.9
50 pos	43	45.3	47	48.5	49.7	50.8	52	52.9	53.8	54.6
neg	45.1	47.5	49.4	50.9	52.1	53.3	54.6	55.5	56.4	57.3
100 pos	39.2	41.3	42.9	44.2	45.3	46.4	47.4	48.2	49	49.8
neg	43	45.4	47.1	48.6	49.8	50.9	52.1	53	53.9	54.8
500 pos	34.3	36.2	37.6	38.7	39.7	40.6	41.5	42.2	42.9	43.6
neg	38.2	40.3	41.8	43.1	44.2	45.2	46.2	47	47.8	48.6

Building height End zone 5										
	15	20	25	30	35	40	45	50	55	60
10 pos.	46	48.5	50.4	52	53.2	54.5	55.7	56.7	57.6	58.6
neg	61.7	65	67.5	69.6	71.3	73	74.7	75.9	77.2	78.4
20 pos	44.1	46.5	48.3	49.8	51	52.2	53.4	54.3	55.2	56.1
neg	57.5	60.6	63	64.9	66.5	68.1	69.6	70.8	72	73.2
50 pos	43	45.3	47	48.5	49.7	50.8	52	52.9	53.8	54.6
neg	51.9	54.8	56.9	58.7	60.1	61.5	62.9	64	65	66
100 pos	39.2	41.3	42.9	44.2	45.3	46.4	47.4	48.2	49	49.8
neg	47.9	50.5	52.5	54.1	55.4	56.7	58	59	59.9	60.9
500 pos	34.3	36.2	37.6	38.7	39.7	40.6	41.5	42.2	42.9	43.6
neg	38.2	40.3	41.8	43.1	44.2	45.2	46.2	47	47.8	48.6

Town of Jupiter

Wind design Pressure Chart for structures subject to Florida Residential Code 170 mph exposure D

Wall component and Cladding pressures from Table R302.2(2) modified by adjustment factors from R301.1(3). Converted to Vasd according to R302.1.2.1.1

Permitting window/ doors. (cladding)

- I. Determine required design pressures for each opening. This may be accomplished using the tables on the Town's website in lieu of engineering design and ASCE 7-10. Building height, exposure category, wall zone and opening size will be required to calculate this. Most buildings in Jupiter are in wind speed 170. Any opening within 4 ft of a corner is in wall zone 5.
- II. Once the required design pressures have been established, the engineered drawings in the product approval must be consulted and project specific details must be identified for the plans examiner; such as attachment schedules, substrates, glazing type, etc. to demonstrate that the method of installation and each product will meet the required design pressures. See The sample from PGT's instruction.
- III. A worst case pressure may be utilized, but note that the field inspector will verify that *all* openings comply with this pressure.
- IV. In most cases, the window supplier can provide specification sheets for the products which provide this information. If you have this information submit it with the permit application.
- V. Do not remove the paper labels affixed to the glazing until after final inspection. These are called "inspector labels" and tell the inspector the pressure ratings, the light transmission and energy efficiency ratings of the products.
- VI. If the building is located in the sea turtle protection zone (600 ft from the beach), then "turtle glass" will be required. Turtle glass has a light transmittance of 45% or less. Evidence will be submitted.
- VII. If the window replacement equals or exceeds 30% of the host structure's value or is part of or supplemental to an improvement or improvements equivalent to or more than 30% of the host

structure's value, the glazing must meet the prescriptive requirements of the Energy code. (Max SHGC =.25 and Max U value=.65 for non-impact and .75 for impact glazing)

For questions contact Tim Lynch 741 2469 or timl@jupiter.fl.us

DESIGN PRESSURE AND ANCHORAGE- REINFORCEMENT- HIGH SILL RISER (4.00') TABLE 1.

> HEAD & SILL (H&S) INTERLOCK & ASTRAGAL CLUSTER PLUS ANCHOR QTY. PER PANEL
> JAMB ANCHOR QTY.

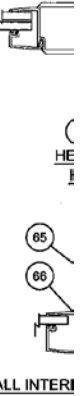
3/16" TEMPERED (Mono. & I.G.U.)
GLASS TYPE G1 & G2
1/4" TEMPERED (Mono. & I.G.U.)
GLASS TYPE G1A & G2A

Anchor Types:
1) *1/4" ELCO ULTRACON (FORMERLY TAPCON)
2) *1/4" SS4 CRETE-FLEX
3) *5/16" ULTRACON
4) *#12 STEEL SCREW (G5)
* SEE ANCHORAGE NOTES 1 & 2 ON SHEET 1.

NOM PANEL WIDTH	FRAME SIDE	UNIT HEIGHT																		
		80			84			90			96			102			108			
		1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	
GLASS TYPE - G1, G1A, G2, G2A		+90 -209.0			+90 -209.0			+90 -209.0			+90 -209.0			+90 -205.3			+90 -192.5			
24	Anchors	H&S	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
	JAMB	10	10	10	10	10	12	10	10	12	10	10	12	10	10	14	10	10	14	10
GLASS TYPE - G1, G1A, G2, G2A		+90 -209.0			+90 -209.0			+90 -197.1			+90 -182.5			+90 -169.9			+90 -159.0			
30	Anchors	H&S	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
	JAMB	10	10	12	10	10	12	10	10	14	10	10	14	10	10	14	10	10	14	10
GLASS TYPE - G1, G1A, G2, G2A		+90 -171.0			+90 -164.0			+90 -157.0			+90 -151.0			+90 -146.0			+90 -136.9			
36	Anchors	H&S	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
	JAMB	10	10	12	10	10	12	10	10	12	10	10	12	10	10	14	10	10	14	10
GLASS TYPE - G1		+90 -153.0			+90 -142.0			+90 -128.0			+90 -118.0			+90 -110.0			+90 -104.0			
GLASS TYPE - G1A, G2, G2A		+90 -153.0			+90 -142.0			+90 -128.0			+90 -118.0			+90 -110.0			+90 -121.4			
42	Anchors	H&S	C6+2	C6+2	C7+3	C6+2	C6+2	C7+3	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2
	JAMB	10	10	12	10	10	12	10	10	12	10	10	12	10	10	12	10	10	12	10
GLASS TYPE - G1		+90 -151.0			+90 -140.0			+90 -124.0			+90 -113.0			+90 -103.0			+90 -94.2			
GLASS TYPE - G1A, G2, G2A		+90 -151.0			+90 -140.0			+90 -124.0			+90 -113.0			+90 -118.5			+90 -110.0			
48	Anchors	H&S	C6+2	C6+2	C8+4	C6+2	C6+2	C8+3	C6+2	C6+2	C7+3	C6+2	C6+2	C7+3	C6+2	C6+2	C8+3	C6+2	C6+2	C8+3
	JAMB	10	10	12	10	10	12	10	10	12	10	10	12	10	10	14	10	10	14	10

POSITIVE PRESSURES IN TABLE ARE BASED ON THE USE OF THE 4" SILL.

DLO WIDTH = NOM. PANEL WIDTH - 7" = EXAMPLE ON SHEET 5
DLO HEIGHT = NOM. PANEL HEIGHT - 8.25"



ALL INTERI

For questions contact Tim Lynch 741 2469 or timl@jupiter.fl.us

DESIGN PRESSURE AND ANCHORAGE- REINFORCEMENT- HIGH SILL RISER (4.00')

TABLE 1.



> HEAD & SILL (H&S) INTERLOCK & ASTRAGAL CLUSTER PLUS ANCHOR QTY. PER PANEL
> JAMB ANCHOR QTY.

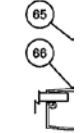
3/16" TEMPERED (Mono. & I.G.U.)
GLASS TYPE: G1 & G2
1/4" TEMPERED (Mono. & I.G.U.)
GLASS TYPE: G1A & G2A

- Anchor Types:
1) *1/4" ELCO ULTRACON (FORMERLY TAPCON)
2) *1/4" SS4 CRETE-FLEX
3) *5/16" ULTRACON
4) *#12 STEEL SCREW (G5)
* SEE ANCHORAGE NOTES 1 & 2 ON SHEET 1.

NOM. PANEL WIDTH	FRAME SIDE	UNIT HEIGHT																		
		80			84			90			96			102			108			
		1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	1,2-CONC	3-CONC	2,4-WOOD	
	GLASS TYPE - G1, G1A, G2, G2A	+90 -209.0			+90 -209.0			+90 -209.0			+90 -209.0			+90 -205.3			+90 -192.5			
24	Anchors	H&S	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
	JAMB	10	10	10	10	10	12	10	10	12	10	10	12	10	10	14	10	10	14	
	GLASS TYPE - G1, G1A, G2, G2A	+90 -209.0			+90 -209.0			+90 -197.1			+90 -182.5			+90 -169.9			+90 -159.0			
30	Anchors	H&S	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
	JAMB	10	10	12	10	10	12	10	10	14	10	10	14	10	10	14	10	10	14	
	GLASS TYPE - G1, G1A, G2, G2A	+90 -171.0			+90 -164.0			+90 -157.0			+90 -151.0			+90 -146.0			+90 -136.9			
36	Anchors	H&S	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2	C6+2	C6+2	C8+2
	JAMB	10	10	12	10	10	12	10	10	12	10	10	12	10	10	14	10	10	14	
	GLASS TYPE - G1	+90 -153.0			+90 -142.0			+90 -128.0			+90 -118.0			+90 -110.0			+90 -104.0			
	GLASS TYPE - G1A, G2, G2A	+90 -153.0			+90 -142.0			+90 -128.0			+90 -118.0			+90 -110.0			+90 -121.4			
42	Anchors	H&S	C6+2	C6+2	C7+3	C6+2	C6+2	C7+3	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C7+2	C6+2	C6+2	C8+2
	JAMB	10	10	12	10	10	12	10	10	12	10	10	12	10	10	12	10	10	12	
	GLASS TYPE - G1	+90 -151.0			+90 -140.0			+90 -124.0			+90 -113.0			+90 -103.0			+90 -94.2			
	GLASS TYPE - G1A, G2, G2A	+90 -151.0			+90 -140.0			+90 -124.0			+90 -113.0			+90 -118.5			+90 -110.0			
48	Anchors	H&S	C6+2	C6+2	C8+4	C6+2	C6+2	C8+3	C6+2	C6+2	C7+3	C6+2	C6+2	C7+3	C6+2	C6+2	C8+3	C6+2	C6+2	C8+3
	JAMB	10	10	12	10	10	12	10	10	12	10	10	12	10	10	14	10	10	14	

POSITIVE PRESSURES IN TABLE ARE BASED ON THE USE OF THE 4" SILL.

DLO WIDTH = NOM. PANEL WIDTH - 7"  = EXAMPLE ON SHEET 5
DLO HEIGHT = NOM. PANEL HEIGHT - 8 25/32" 



ALL INTERI

BCAB Fenestration Voluntary Wind Load Chart For PBC*

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						Zone						Zone						Zone					
		1		2		3		1		2		3		1		2		3		1		2		3	
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
10	Gable/Hip Roof θ ≤ 7°	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		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		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 Roof*** 7° < θ ≤ 27° (1.5 to 6:12)	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		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		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		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 27° < θ ≤ 45° (6 to 12:12)	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		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		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

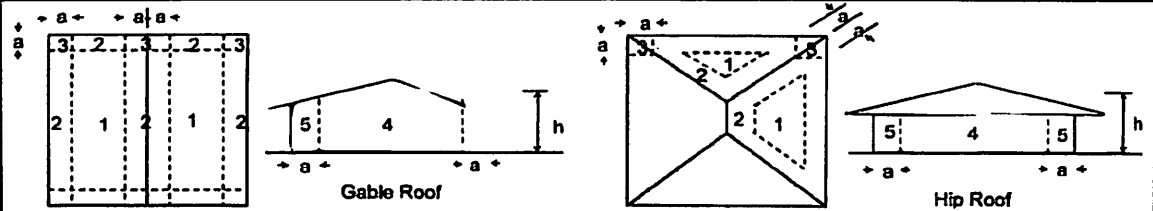
*** For Hip Roofs with angle > 7 degrees (1.5:12) and ≤ 25 degrees (5.5:12), Zone 3 shall be treated as Zone 2 (Figure 30.4-2B, Note 7, p. 337)

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				Zone				Zone				Zone			
		4		5		4		5		4		5		4		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
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
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	-42.9	39.2	-49.4
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	37.2	-40.9	37.2	-45.5
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

Garage Door Wind Loads

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

Effective Wind Area		Roof Angle	Wind Load	
Width	Height		+	-
8	8	0 - 10 degrees	35.2	-39.8
10	10		34.1	-38.2
14	14		32.3	-36.1
9	7	> 10 degrees	38.4	-43.4
16	7		35.8	-41.0



For Effective Wind Areas between those given, values may be interpolated. Otherwise use the value associated with the lower Effective Wind Area.
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.

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.