



*City of Margate, Florida  
Building Department*

*MINIMUM PERMIT REQUIREMENTS*

*FOR*

*WINDOWS, SHUTTERS, DOORS, AND GARAGE DOOR*

- PERMIT APPLICATION COMPLETELY FILLED OUT SIGNED AND NOTARIZED
- HOMEOWNER'S ASSOCIATION NOTIFICATION FORM
- HOMEOWNER'S AFFIDAVIT (when obtaining a Owner/Builder Permit)

**THE FOLLOWING DOCUMENTS MUST BE SUBMITTED IN DUPLICATE**

- NOTICE OF COMMENCEMENT OVER \$ 2,500.00 IN VALUE
- WIND LOAD CALCULATIONS SIGNED AND SEALED BY AN ENGINEER
- PRODUCT APPROVALS WITH SECTIONS HIGHLIGHTED
- PLAN SHOWING LOCATION OF WINDOWS, SHUTTERS, DOORS, AND GARAGE DOORS

**THE PERMIT APPLICATION WILL NOT BE ACCEPTED WITHOUT THE ABOVE MINIMUM DOCUMENTATION**

**OTHER DOCUMENTS MAY BE REQUIRED DEPENDING UPON THE JOB CONDITIONS**

# CITY OF MARGATE

## BUILDING DEPARTMENT

### RETROFIT WINDOWS, DOORS, SHUTTERS AND GARAGE DOORS

All retrofit Doors, Windows, Shutters, and Garage Doors must meet one of the following wind load requirements.

- ✓ A site specific plan signed and sealed by a Professional Engineer or Architect indicating the location of all openings and design pressures.
- ✓ A site specific plan indicating the location of the openings with a worst case design pressure chart signed and sealed by a Professional Engineer or Architect.
- ✓ A site specific plan indicating the location of the openings with the design pressures based on the Florida Building Code Tables 1609.6 © and 1609.6 (d). Both tables must be shown on the plans.

NOTE: All plans must indicate the location and size of the window(s), Door(s), Shutter(s) or Garage Door to be replaced.

NOTE: These tables apply to retrofit Windows, Doors, Shutters, and Garage Doors on Buildings with a mean roof height of 30'.

Florida Building Code R4403.9.1 All design pressures must meet Section 6 ASCE 7 @ 140mph or FBC R301.2 (2) and R301.2 (3).

Zone 5 is any opening within the corner distance from the corner.

Zone 5 is .4 x Mean Roof Height or .1 x width of building, but not less than 3'

Provide a building layout with all measurements of the building and show the locations and size of all Windows and Doors to be replaced.

Highlight on the notice of acceptance the Window(s) or Doors(s) to be used and the Tested wind pressures for each Window or Door to show compliance with Florida Building Code Chapter 16.

NOTE: The tables may be utilized to establish required wind load pressures for retrofit of Windows, Doors, Shutters and Garage Doors in building less than 30 feet.

The chart is derived from ASCE 7-05 (figure 6-3) & the 2007 Florida Building Code Table 1609.6(1) & (2). Generic Charts are not acceptable for buildings above 30 feet.

This chart may be used when applicable unless properly designed by a registered architect or licensed professional engineer.

Provide a building layout with all measurements of the building and show the locations and size of all Windows, Doors, Shutters and Garage Doors to be replaced.

Highlight on the notice of acceptance the Window(s), Doors(s), Shutter(s) and Garage Doors to be used and the Tested wind pressures for each Window or Door to show compliance with Florida Building Code Chapter 16.

**Figure 6-3 ASCE 7-05 Broward County FBC 2007**  
**Componet cladding windloads**  
**for enclosed Buildings with a mean roof height less than or equal to 30 feet**  
**Wind 140mph-3 second gust / exposure "C" /Kd=0.85/kzt=1.0/1=0**

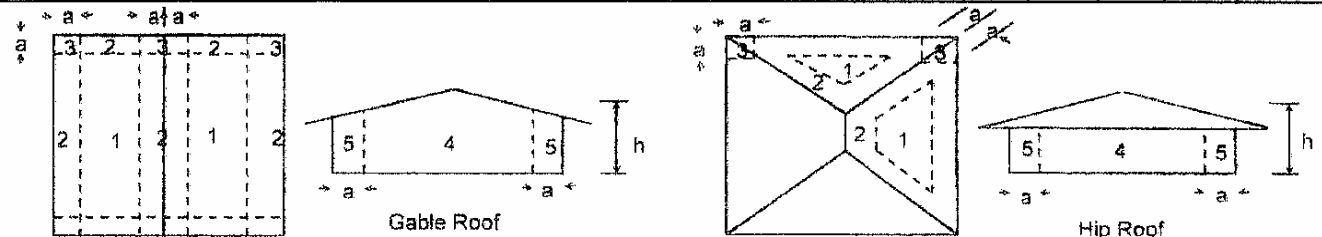
Effective wind area	Location "Gable" or "Hip"	Mean Roof Height of 15 feet						Mean Roof Height of 20 feet						Mean Roof Height of 25 feet						Mean Roof Height of 30 feet					
		Zone						Zone						Zone						Zone					
		1		2		3		1		2		3		1		2		3		1		2		3	
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
10	Roof <0-7 (0 to 1.5:12)	17.3	-42.7	17.3	-71.6	17.3	-107.7	18.4	-45.5	18.4	-76.4	18.4	-114.8	19.3	-47.7	19.3	-79.9	19.3	-120.2	20.0	-49.4	20.0	-82.9	20.0	-124.6
20		16.2	-41.6	16.2	-64.0	16.2	-89.3	17.3	-44.4	17.3	-68.2	17.3	-95.2	18.1	-46.4	18.1	-71.4	18.1	-99.6	18.8	-48.2	18.8	-74.1	18.8	-103.3
50		14.9	-40.2	14.9	-53.8	14.9	-64.7	15.9	-42.8	15.9	-57.4	15.9	-69.0	16.6	-44.8	16.6	-60.1	16.6	-72.2	17.2	-46.5	17.2	-62.3	17.2	-74.9
100		13.8	-39.1	13.8	-46.2	13.8	-46.2	14.7	-41.7	14.7	-49.3	14.7	-49.3	15.4	-43.6	15.4	-51.6	15.4	-51.6	16.0	-45.2	16.0	-53.5	16.0	-53.5
10	Roof <0-7-27 (1.5 to 6:12)	24.6	-39.1	24.6	-68.0	24.6	-100.6	26.2	-41.7	26.2	-72.5	26.2	-107.2	27.4	-43.6	27.4	-75.9	27.4	-112.2	28.4	-45.2	28.4	-78.7	28.4	-116.3
20		22.4	-38.0	22.4	-62.6	22.4	-94.0	23.9	-40.5	23.9	-66.7	23.9	-100.2	25.0	-42.4	25.0	-69.8	25.0	-104.9	25.9	-44.0	25.9	-72.4	25.9	-108.8
50		19.5	-36.5	19.5	-55.3	19.5	-85.3	20.8	-39.0	20.8	-59.0	20.8	-90.9	21.7	-40.8	21.7	-61.7	21.7	-95.2	22.5	-42.3	22.5	-64.0	22.5	-98.7
100		17.3	-35.5	17.3	-49.9	17.3	78.8	18.4	-37.8	18.4	-53.1	18.4	-84.0	19.3	-39.6	19.3	-55.6	19.3	-87.9	20.0	-41.0	20.0	-57.7	20.0	-91.1
10	Roof <27-45 (6 to 12:12)	39.1	-42.7	39.1	-49.9	39.1	-49.9	41.7	45.5	41.7	-53.1	41.7	-53.1	43.6	-47.7	43.6	-55.6	43.6	-55.6	45.2	-49.4	45.2	-57.7	45.2	-57.7
20		38.0	-40.5	36.0	-47.7	38.0	-47.7	40.5	-43.2	40.5	-50.8	40.5	-50.8	42.4	-45.2	42.4	-53.2	42.4	-53.2	44.0	-46.9	44.0	-55.2	44.0	-55.2
50		36.5	-37.8	38.5	-44.9	36.5	-44.9	39.0	-40.1	39.0	-47.9	39.0	-47.9	40.8	-42.0	40.8	-50.1	40.8	-50.1	42.3	-43.5	42.3	-51.9	42.3	-51.9
100		35.5	-35.5	35.5	-42.7	35.5	-42.7	37.8	-37.8	37.8	-45.5	37.8	-45.5	39.6	-39.6	39.6	-47.7	39.6	-47.7	41.0	-41.0	41.0	-49.4	41.0	-49.4

\* For hip roofs with angle greater than 7 degrees (1.5:12) and less than 25 degrees (5.5:12), Zone 3 shall be treated as Zone 2

Effective wind area (ft2)	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		4.0		5.0		4		5		4		5	
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
10	Wall	42.7	-46.2	42.7	-57.1	45.5	-49.3	45.5	-60.9	47.7	-51.6	47.7	-63.7	49.4	-53.5	49.4	-66.1
20		40.8	-44.4	40.8	-53.2	43.5	-47.3	43.5	-56.8	45.5	-49.5	45.5	-59.4	47.2	-51.4	47.2	-61.6
50		38.2	-41.9	38.2	-48.2	40.8	-44.6	40.8	-51.3	42.7	-46.7	42.7	-53.7	44.2	-48.4	44.2	-55.7
100		36.3	-39.9	36.3	-44.4	38.7	-42.6	38.7	-47.3	40.5	-44.6	40.5	-49.5	42.0	-46.2	42.0	-51.4
500		31.8	-35.5	31.8	-35.5	33.9	-37.8	33.9	-37.6	35.5	-39.6	35.5	-39.6	36.8	-41.0	36.8	-41.0

**Garage Door wind loads for Buildings with 30 feet Mean roof height Exposure C table 1609.6(1)/(2)**

Effective Wind Area	Roof Angle	Wind Load	
		+	-
Width 8, Height 8	0-10 degrees	39.8	-45.1
Width 10, Height 10		38.5	43.1
Width 14, Height 14		36.5	40.7
Width 9, Height 7		43.4	-49.1
Width 16, Height 7	> 10 degrees	41.6	-46.3



For effective wind areas between those given, value may be interpolated, otherwise use value associated with the lower effective wind areas

"a" shall be the smallest of lease hor. Distance or 40% of eave height but not less than 4% of least hor. Distance or 3'

This chart may be used when applicable unless properly designed by a registered architect or licensed professional engineer

Error! Objects cannot be created from editing field codes.



*City of Margate, Florida  
Building Department*

Homeowner's Association Notification Form

Name \_\_\_\_\_

Address \_\_\_\_\_

Unit number \_\_\_\_\_ Association: \_\_\_\_\_

PLEASE CHECK ALL THAT APPLY

- I live in a residential community with a homeowners association
- I have notified my homeowners association of proposed improvements
- I live in a condominium with a homeowners association
- I have notified my homeowners association of proposed improvements
- I do not live in a residential community with a homeowners association

**Your permit application will not be accepted without this information**

\_\_\_\_\_  
Owner Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print name

\_\_\_\_\_  
Print Name



*City of Margate, Florida*  
*Building Department*

DURING A HURRICANE WATCH  
& BEFORE THE ONSET OF HURRICANE VELOCITY WINDS  
YOU ARE REQUIRED TO

# SECURE THIS JOB

IN ACCORDANCE WITH THE BROWARD COUNTY ADMINISTRATIVE PROVISIONS  
OF THE FLORIDA BUILDING CODE SECTION 109.12

**All loose objects  
In exposed outdoor locations  
shall be lashed to rigid construction  
or shall be stored in buildings.**

Florida Building Code Broward County Administrative Provisions  
Section 109.12.2.4

NOTICES ISSUED BY THE NATIONAL WEATHER SERVICE OF A HURRICANE WATCH ARE DEEMED SUFFICIENT NOTICE TO THE OWNER OF REAL PROPERTY UPON WHICH CONSTRUCTION IS OCCURRING, OR ANY CONTRACTOR RESPONSIBLE FOR SAID CONSTRUCTION, TO SECURE LOOSE CONSTRUCTION DEBRIS AND LOOSE CONSTRUCTION MATERIALS AGAINST EFFECTS OF HURRICANE FORCE WINDS

**This includes but not limited to:**

<b>109.12.2.1 Road Right-of-Way shall remain clear of construction waste and trash</b>	
<b>109.12.2.2 Waste and Trash Enclosures</b>	<b>Temporary Toilets</b>
<b>109.12.2.3 Loose Construction Debris</b>	<b>Forms and Construction Materials</b>
<b>109.12.2.5 Roofing Tile and Materials</b>	<b>Construction Shacks</b>
<b>Temporary Electric Service Poles</b>	
<b>AND PROTECT ALL GLASS AREAS</b>	