

BROWARD COUNTY

BOARD OF RULES & APPEALS

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

2007 F.B.C FORMAL
INTERPRETATION

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Electrical Engineer
Mr. Richard Smith,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. Gary Waldrep,
Roofing Contractor
Mr. Donald Zimmer, AIA
Architect

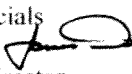
Board Attorney

Robert Ziegler, Esq.

Board Administrative Director

James DiPietro

ESTABLISHED 1971

DATE: August 14, 2009
TO: All Building Officials
FROM: James DiPietro 
Administrative Director
SUBJECT: **Voluntary Wind Load Chart**

At its meeting of August 13, 2009 the Board approved an interpretation relating to the release of a voluntary wind load chart for the wind pressures.

This chart may be utilized to establish the required wind pressures for the retro-fit of doors, windows, skylights, shutters, and garage doors for buildings less than 30feet.

This chart was derived from ASCE 7-05 (figure 6-3) and 2007 Florida Building Code table 1609.6 (1) & (2).

This chart is to be used in conjunction with Formal Interpretation #2 (FI), adopted October 12, 2007 and re-issued March 1, 2009.

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

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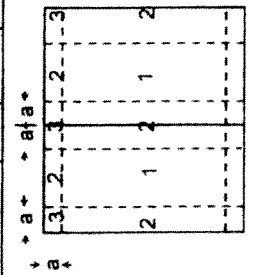
Figure 6-3 ASCE 7-05 Broward County FBC 2007

Component cladding wind loads

for enclosed Buildings with a Mean roof height less than or equal to 30 feet

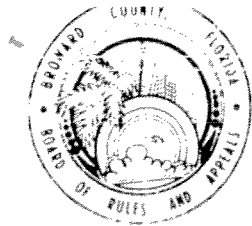
Wind 140 mph -3 second gust / Exposure "C"/ Kd=0.85/ Kzt=1.0/ I=1.0

Effective wind area (ft ²)	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 1		Zone 2		Zone 3		Zone 1		Zone 2		Zone 3		Zone 1		Zone 2		Zone 3		Zone 1		Zone 2		Zone 3			
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
10	Roof	17.3	-42.7	17.3	-71.6	17.3	-107.7	18.4	-45.5	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	20.0	-82.9	20.0	-124.6
20	Roof	16.2	-41.6	16.2	-64.0	16.2	-89.3	17.3	-44.4	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	18.8	-74.1	18.8	-103.3
50	Roof	14.9	-40.2	14.9	-53.8	14.9	-64.7	15.9	-42.8	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	17.2	-62.3	17.2	-74.9
100	Roof	13.8	-39.1	13.8	-46.2	13.8	-46.2	14.7	-41.7	14.7	-49.3	15.4	-43.6	15.4	-43.6	15.4	-51.6	16.0	-45.2	16.0	-53.5	16.0	-53.5	16.0	-53.5	16.0	-53.5
10	Roof	22.4	-38.0	22.4	-62.6	22.4	-94.0	23.9	-40.5	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	25.9	-72.4	25.9	-108.8
20	Roof	19.5	-36.5	19.5	-55.3	19.5	-85.3	20.8	-39.0	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	22.5	-64.0	22.5	-98.7
50	Roof	17.3	-35.5	17.3	-49.9	17.3	-78.8	18.4	-37.8	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	20.0	-57.7	20.0	-91.1
100	Roof	39.1	-42.7	39.1	-49.9	39.1	-49.9	41.7	-45.5	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	45.2	-57.7	45.2	-57.7
20	Roof	38.0	-40.5	38.0	-47.7	38.0	-47.7	40.5	-43.2	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	44.0	-55.2	44.0	-55.2
50	Roof	36.5	-37.6	36.5	-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	-42.3	40.8	-42.3	40.8	-42.3	40.8	-42.3	40.8	-42.3
100	Roof	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	39.6	-47.7	39.6	-47.7	39.6	-47.7	39.6	-47.7
* For hip roofs with angle greater than 7 degrees (1.5:12) and less than 25 degrees (6.5:12), Zone 3 shall be treated as Zone 2																											
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 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	42.7	-46.2	42.7	-57.1	42.7	-57.1	45.5	-49.3	45.5	-60.9	45.5	-49.3	45.5	-60.9	47.7	-51.6	47.7	-63.7	47.7	-51.6	47.7	-63.7	49.4	-53.5	49.4	-66.1
20	Wall	40.8	-44.4	40.8	-53.2	40.8	-53.2	43.5	-47.3	43.5	-56.8	43.5	-47.3	43.5	-56.8	45.5	-49.5	45.5	-59.4	45.5	-49.5	45.5	-59.4	47.2	-51.4	47.2	-61.6
50	Wall	38.2	-41.9	38.2	-48.2	38.2	-48.2	40.8	-44.6	40.8	-51.3	40.8	-44.6	40.8	-51.3	42.7	-46.7	42.7	-53.7	42.7	-46.7	42.7	-53.7	44.2	-48.4	44.2	-55.7
100	Wall	36.3	-39.9	36.3	-44.4	36.3	-44.4	38.7	-42.6	38.7	-47.3	38.7	-42.6	38.7	-47.3	40.5	-44.6	40.5	-49.5	40.5	-44.6	40.5	-49.5	42.0	-46.2	42.0	-51.4
500	Wall	31.8	-35.5	31.8	-35.5	31.8	-35.5	33.9	-37.8	33.9	-37.8	33.9	-37.8	33.9	-37.8	35.5	-39.6	35.5	-39.6	35.5	-39.6	35.5	-39.6	36.8	-41.0	36.8	-41.0
* For hip roofs with angle greater than 7 degrees (1.5:12) and less than 25 degrees (6.5:12), Zone 3 shall be treated as Zone 2																											
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 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5			
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
10	Garage Door	42.7	-46.2	42.7	-57.1	42.7	-57.1	45.5	-49.3	45.5	-60.9	45.5	-49.3	45.5	-60.9	47.7	-51.6	47.7	-63.7	47.7	-51.6	47.7	-63.7	49.4	-53.5	49.4	-66.1
20	Garage Door	40.8	-44.4	40.8	-53.2	40.8	-53.2	43.5	-47.3	43.5	-56.8	43.5	-47.3	43.5	-56.8	45.5	-49.5	45.5	-59.4	45.5	-49.5	45.5	-59.4	47.2	-51.4	47.2	-61.6
50	Garage Door	38.2	-41.9	38.2	-48.2	38.2	-48.2	40.8	-44.6	40.8	-51.3	40.8	-44.6	40.8	-51.3	42.7	-46.7	42.7	-53.7	42.7	-46.7	42.7	-53.7	44.2	-48.4	44.2	-55.7
100	Garage Door	36.3	-39.9	36.3	-44.4	36.3	-44.4	38.7	-42.6	38.7	-47.3	38.7	-42.6	38.7	-47.3	40.5	-44.6	40.5	-49.5	40.5	-44.6	40.5	-49.5	42.0	-46.2	42.0	-51.4
500	Garage Door	31.8	-35.5	31.8	-35.5	31.8	-35.5	33.9	-37.8	33.9	-37.8	33.9	-37.8	33.9	-37.8	35.5	-39.6	35.5	-39.6	35.5	-39.6	35.5	-39.6	36.8	-41.0	36.8	-41.0



For effective wind areas between those given, value may be interpolated, otherwise use the value associated with the lower effective wind area. "a" shall be the smallest of 10% of least hor. distance or 40% of eave height but not less than 4% of least hor. distance or 3 ft.

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



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Mr. Donald Zimmer, AIA
Architect

Board Attorney
Robert Ziegler, Esq.

Board Administrative Director
James DiPietro

DATE: October 12, 2007
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**

At its meeting of October 11, 2007 the Board approved an interpretation of Retrofit of Windows, Doors, Garage Doors, Shutters and Skylights, for buildings with h (height) less than or equal to 30 feet.

1. Window or door buck inspections are not required. The buck shall comply with Section 1714.5.4.2 specifically, unless otherwise tested; buck shall extend beyond the interior 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 or 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 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 ASCE 7-05, Figure 6-3 for windows, doors, shutters and skylights and Table FBC 1609.6(1) & 1609.6(2) for garage doors.

4. Buildings with a h (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.

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RE-ISSUED: March 1, 2009