

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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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.

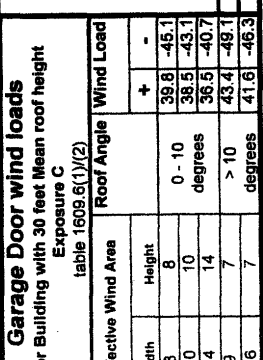
NOTE: Generic charts, graphs alone, et cetera. are not acceptable for buildings above 30 feet.

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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

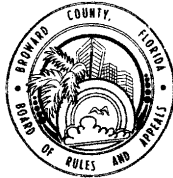
Wind 140 mph - 3 second gust / Exposure 'C' / $K_d=0.85$ / $K_z=1.0$ / $I=1.0$

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	17.3	-144.4	17.3	-181.1	17.3	-217.8	17.3	-254.5	17.3	-291.2	17.3	-327.9	17.3	-364.6	17.3	-401.3	17.3	-438.0	17.3	-474.7
20	Roof	16.2	-41.6	16.2	-64.0	16.2	-89.3	16.2	-114.6	16.2	-139.9	16.2	-165.2	16.2	-190.5	16.2	-215.8	16.2	-241.1	16.2	-266.4	16.2	-291.7	16.2	-317.0	16.2	-342.3
50	Roof	14.9	-40.2	14.9	-53.8	14.9	-67.4	14.9	-81.0	14.9	-94.6	14.9	-108.2	14.9	-121.8	14.9	-135.4	14.9	-149.0	14.9	-162.6	14.9	-176.2	14.9	-189.8	14.9	-203.4
100	Roof	13.8	-39.1	13.8	-52.7	13.8	-66.3	13.8	-80.0	13.8	-93.6	13.8	-107.2	13.8	-120.8	13.8	-134.4	13.8	-148.0	13.8	-161.6	13.8	-175.2	13.8	-188.8	13.8	-202.4
20	Roof	22.4	-38.0	22.4	-62.6	22.4	-94.0	22.4	-128.0	22.4	-164.0	22.4	-200.0	22.4	-236.0	22.4	-272.0	22.4	-308.0	22.4	-344.0	22.4	-380.0	22.4	-416.0	22.4	-452.0
50	Roof	19.5	-36.5	19.5	-55.3	19.5	-85.3	19.5	-118.0	19.5	-153.0	19.5	-188.0	19.5	-223.0	19.5	-258.0	19.5	-293.0	19.5	-328.0	19.5	-363.0	19.5	-398.0	19.5	-433.0
100	Roof	17.3	-35.5	17.3	-53.9	17.3	-83.9	17.3	-116.0	17.3	-150.0	17.3	-184.0	17.3	-218.0	17.3	-252.0	17.3	-286.0	17.3	-320.0	17.3	-354.0	17.3	-388.0	17.3	-422.0
20	Roof	38.0	-40.5	38.0	-47.7	38.0	-54.9	38.0	-68.3	38.0	-81.7	38.0	-95.1	38.0	-108.5	38.0	-121.9	38.0	-135.3	38.0	-148.7	38.0	-162.1	38.0	-175.5	38.0	-188.9
50	Roof	36.5	-37.6	36.5	-44.9	36.5	-52.2	36.5	-64.5	36.5	-76.8	36.5	-89.1	36.5	-101.4	36.5	-113.7	36.5	-126.0	36.5	-138.3	36.5	-150.6	36.5	-162.9	36.5	-175.2
100	Roof	35.5	-36.5	35.5	-42.7	35.5	-50.0	35.5	-57.5	35.5	-65.0	35.5	-72.5	35.5	-80.0	35.5	-87.5	35.5	-95.0	35.5	-102.5	35.5	-110.0	35.5	-117.5	35.5	-125.0
* 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 6		Zone 4		Zone 5		Zone 6		Zone 4		Zone 5		Zone 6		Zone 4		Zone 5		Zone 6			
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
10	Wall	42.7	-46.2	42.7	-57.1	42.7	-68.0	42.7	-78.9	42.7	-89.8	42.7	-100.7	42.7	-111.6	42.7	-122.5	42.7	-133.4	42.7	-144.3	42.7	-155.2	42.7	-166.1	42.7	-177.0
20	Wall	40.8	-44.4	40.8	-53.2	40.8	-62.0	40.8	-70.8	40.8	-79.6	40.8	-88.4	40.8	-97.2	40.8	-106.0	40.8	-114.8	40.8	-123.6	40.8	-132.4	40.8	-141.2	40.8	-150.0
50	Wall	38.2	-41.9	38.2	-48.2	38.2	-54.5	38.2	-60.8	38.2	-67.1	38.2	-73.4	38.2	-79.7	38.2	-86.0	38.2	-92.3	38.2	-98.6	38.2	-104.9	38.2	-111.2	38.2	-117.5
100	Wall	36.3	-39.9	36.3	-44.4	36.3	-48.9	36.3	-53.4	36.3	-57.9	36.3	-62.4	36.3	-66.9	36.3	-71.4	36.3	-75.9	36.3	-80.4	36.3	-84.9	36.3	-89.4	36.3	-93.9
500	Wall	31.8	-35.5	31.8	-35.6	31.8	-35.7	31.8	-35.8	31.8	-35.9	31.8	-36.0	31.8	-36.1	31.8	-36.2	31.8	-36.3	31.8	-36.4	31.8	-36.5	31.8	-36.6	31.8	-36.7



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 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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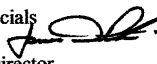
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Robert Ziegler, Esq.

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