

**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 <sup>2</sup> )	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 * >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	38.0	-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	-37.6	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	-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 (ft <sup>2</sup> )	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	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	-37.8	35.5	-39.6	35.5	-39.6	36.8	-41.0	36.8	-41.0

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

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

Gable Roof                      Hip Roof

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