

FLORIDA BUILDING CODE 6th Edition (2017)

FORMAL INTERPRETATIONS

1. Mechanical Code, 602.2.1 Materials Exposed within Plenums
2. Identification of Mechanical Equipment
3. Attachments of Ductwork to Air Handling Equipment
4. Insulation Requirements for Primary Condensate Drains
5. Retrofit of Windows, Doors, Garage Doors, Shutters and Skylights
FBC Existing Building, Alteration Level I
6. Solar Assisted Air Conditioning Systems
7. Installation of 100% Wireless Network Low Voltage Alarm Systems
8. Retrofits Required Pursuant to Florida Building Codes Existing Building Section 708.8.1
9. Residential Clothes Washing Machines Drains
10. Recessed Ceiling Air Handlers
11. Window Replacement
12. Mechanical Equipment Wind Load Voluntary Design Pressure Chart
13. Ceiling Grid Support for Light Fixtures
14. Interpretation of 6th Edition (2017) Florida Building Code Mechanical: 301.15; Building: 453.25.4.3.1, 453.25.4.3.2, 1609.1.1 Ex. 8; Fuel Gas: 301.10.
15. Permit requirements for Florida Building Code, Plumbing Appendix F
16. Smoke Control System testing in existing buildings undergoing Level 2 alterations.
17. Acceptable testing methods for Smoke Control Systems.
18. Duct sizing calculations.
19. Acceptable documents for the attachment of mechanical equipment during replacement.
20. Two-Way Radio Communication Enhanced Public Safety Signal Booster Systems.



BROWARD COUNTY BOARD OF RULES AND APPEALS

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

FBC 6th Edition (2017) FORMAL INTERPRETATION (# 1)

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Mechanical Code 602.2.1 Materials Exposed within Plenums.

This portion of the Interpretation concerns the residential portion of R-2 occupancies.

At its meeting of October 12, 2017, the Broward County Board of Rules and Appeals approved the following Formal Interpretation.

Section 602.2.1 of the 6th Edition (2017) Florida Mechanical Code requires materials exposed within plenums to be noncombustible or shall have a flame spread index of not more than 25 and a smoke-developed index of not more than 50 when tested in accordance with ASTM E 84-2013A.

CPVC Flowguard Gold Pipe, SDR11 was tested by Southwest Research Institute using a modified ASTM E-84 test methodology in the following sizes.

0.5 inch (nominal) water filled CPVC pipe: SwRI Project No. 01.04017.01.301b [1]
2.0 inch (nominal) water filled CPVC Pipe: SwRI Project No. 01.04017.01.301c [1]
0.5 inch (nominal) empty CPVC Pipe: SwRI Project No. 01.10083.01.158e
0.75 inch (nominal) empty CPVC Pipe: SwRI Project No. 01.10083.01.158f [1]

All four Modified ASTM E-84 Tests showed flame spread indices of not more than 25 and smoke-developed indices of not more than 50.

By accepting these four Modified ASTM-E 84 Tests, the Broward County Board of Rules and Appeals approved the use of CPVC Flowguard Gold Pipe, SDR11 installed in Mechanical Closets and Mechanical Equipment/Appliance Rooms used as plenums in the residential portion of R-2 Occupancies. Approval is limited to 0.5 inch (nominal) thru 2 inch (nominal) water filled CPVC and 0.5 inch (nominal) and 0.75 inch (nominal) empty CPVC pipe.

At its meeting of September 11, 2008 the above Interpretation was expanded to include the following language which applies to both commercial and residential occupancies:

CPVC piping may be accepted for use in plenums in instances where the manufacturers have tested their product with an approved testing agency to an acceptable alternate method to ASTM E-84 – “Standard Test Method for Surface Burning Characteristics of Building Materials”. Evidence must be submitted to the Authority Having Jurisdiction (AHJ) that the piping has a flame spread index of not more than 25 and a smoke developed index of not more than 50 when tested in general accordance with ASTM E-84, 2009 Edition, Pipe can be tested empty or water filled and in various pipe diameters.

EFFECTIVE DATE: OCTOBER 20, 2005
RE-ISSUED: October 12, 2017

EFFECTIVE DATE: January 1, 2018

*****PLEASE POST AT YOUR PERMIT COUNTER*****



BROWARD COUNTY BOARD OF RULES AND APPEALS

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

FBC 6th Edition (2017) FORMAL INTERPRETATION (#2)

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Identification of Mechanical Equipment.

At the meeting of October 12, 2017 the Board approved an interpretation of Section 304.12, 6th Edition (2017) Florida Building Code, Mechanical (FMC). This section of the code requires marking of appliances (air conditioning equipment) serving different areas of a building other than where they are installed to uniquely identify the appliance and the area it serves.

The purpose of these sections is to easily identify equipment for servicing and in case of an emergency. An example would be multiple installations of appliances on a roof top of an office building, condominium, apartment building, etc. There is no requirement for identification of appliances contained in the Florida Residential Code.

Formal Interpretation:

Section 304.12, 6th Edition (2017) Florida Building Code, Mechanical does not apply to buildings governed under the Florida Residential Code. These buildings include detached one-two family dwellings and multiple single-family dwellings (townhouses) not more than three stories in height with a separate means of egress.

EFFECTIVE DATE: October 20, 2005

RE-ISSUED: October 12, 2017

EFFECTIVE DATE: January 1, 2018

*****PLEASE POST AT YOUR PERMIT COUNTER*****

Page 1 of 1 F.I.#2



BROWARD COUNTY BOARD OF RULES AND APPEALS

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

FBC 6th Edition (2017) FORMAL INTERPRETATION (#3)

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEL,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

DATE: October 12, 2015

TO: All Building Officials

FROM: James DiPietro, Administrative Director

SUBJECT: Attachments of Ductwork to Air Handling Equipment.

At the meeting of October 12, 2017, BORA approved an interpretation of Section 603.9, Florida Mechanical Code, 6 edition (2017) and section 1601.4.1, FBC, Residential, 6 edition (2017).

These sections state attachment of rigid fibrous glass duct work to air-handling equipment shall be by mechanical attachment and attachment shall be by mechanical fasteners. These sections further define mechanical attachments for air distribution systems as screws, rivets, welds, interlocking joints crimped and rolled, staples, twist in (screw attachment, and compression systems created by bend tabs or screw tabs and flanges or by clinching straps.

Broward County has a long successful history of using UL181 A/P listed pressure-sensitive aluminum foil tape and UL 181 A/M glass fabric and mastic for attaching rigid fibrous glass duct board to cleaned sheet metal equipment flanges in residential applications. North American Insulation Manufacturers Association (NAIMA) is listed in the Reference Standards and Organizations sections of the FMC and FRC. NAIMA's Fibrous Glass Residential Duct Construction Standard states "Connections of fibrous glass duct board to carefully cleaned sheet metal equipment flanges may be made with UL A/P listed pressure-sensitive aluminum foil tape."

Formal Interpretation:

The use of UL 181 A/P listed pressure sensitive aluminum tape or UL 181 A/M glass fabric and mastic are acceptable methods of attaching rigid fibrous glass duct work to cleaned sheet metal equipment flanges in residential applications.

EFFECTIVE DATE: October 20, 2005

RE-ISSUED: October 12, 2017

EFFECTIVE DATE: January 1, 2018

*****PLEASE POST AT YOUR PERMIT COUNTER*****

Page 1 of 1 F.I.#3



BROWARD COUNTY BOARD OF RULES AND APPEALS

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

FBC 6th Edition (2017) FORMAL INTERPRETATION (#4)

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEL,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attilio,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

DATE: October 12, 2015
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Insulation Requirements for Condensate Drains.

At its meeting of October 12, 2015, BORA approved an interpretation of the following Sections of the 6 Edition (2017), Florida Building Code, Mechanical 307.2.1; Residential M1411.3, and 1206.11; Energy Conservation C403.2.10, and R403.4. See attached code sections.

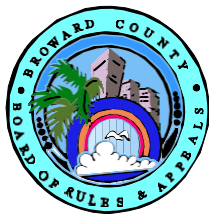
Questions have been raised about the code requirement to insulate condensate drains that were installed vertically or at an angle (pitched). All condensate drain lines are required to have a slope to insure proper drainage and therefore are not perfectly horizontal. The code does not address the insulation of condensate drains lines that are installed vertical or at an angle (pitched). It appears the intent of the code was to apply to condensate piping which is installed in a relatively horizontal manner.

Formal Interpretation:

All primarily horizontal condensate drains pipes within unconditioned areas shall be insulated to prevent condensation from forming on the exterior of the drain pipe. Only primary condensate drain lines within unconditioned areas installed in a relatively horizontal manner are required to be insulated.

EFFECTIVE DATE: October 20, 2005
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018


*****PLEASE POST AT YOUR PERMIT COUNTER*****



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

BROWARD COUNTY BOARD OF RULES AND APPEALS

FBC 6th Edition (2017) FORMAL INTERPRETATION (#5)

DATE: October 12, 2017
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

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor

Mr. Daniel Lavrich, P.E.
Structural Engineer

Mr. Daniel Rourke
Master Plumber

Gregg D'Attilio,
Mechanical Contractor

Mr. Stephen E. Bailey, P.E.
Electrical Engineer

Mr. Ron Burr
Swimming Pool Contractor

Mr. John Sims,
Master Electrician

VACANT
Consumer Advocate

Mr. Abbas H. Zackria, CSI
Architect

Robert A. Kamm, P.E.
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger
Architect

Mr. Steven Feller, P.E.
Mechanical Engineer

Mr. Alberto Fernandez,
General Contractor

Mr. Robert Taylor
Fire Service

Mr. Gary Elzweig, P.E.
Structural Engineer

Mr. David Rice, P.E.
Electrical Engineer

Mr. James Terry,
Master Plumber

Mr. David Tringo,
Master Electrician

Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—Established 1971—

At its meeting of October 12th, 2017 the Board approved an interpretation of Retrofit of Windows, Doors, Garage Doors, Shutters and Skylights, for detached one and two family dwellings, and multiple single family dwellings, (townhouses) with common roof height < 30 feet.

1. 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.

2. 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 the Broward County Fenestration Voluntary Wind Load Chart. (see attached chart).

3. Buildings with a (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.

ORIGINAL DATE: September 12, 2012

RE-ISSUED: October 12, 2017

EFFECTIVE DATE: January 1, 2018

****PLEASE POST AT YOUR PERMIT COUNTER****

Page 1 of 2 F.I. #5

Broward County Fenestration Voluntary Wind Load Chart*

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° (0 to 1.5:12)	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		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 30.4-2 B, 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		36.8	-41.0

Gable Roof Hip Roof

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.



BROWARD COUNTY
BOARD OF RULES AND APPEALS

One North University Drive
Suite 3500-B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504

www.broward.org/codeappeals

FBC 6th Edition (2017)
FORMAL INTERPRETATION (#6)

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn
Representative Disabled Community
Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.
Structural Engineer
Mr. Daniel Rourke
Master Plumber
Mr. Gregg D'Attila,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.
Electrical Engineer
Mr. Ron Burr
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer
Consumer Advocate
Mr. Abbas H. Zackria, CSI
Architect
Robert A. Kamm, P.E.
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger
Architect
Mr. Steven Feller, P.E.
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor
Fire Service
Mr. Gary Elzweig, P.E.
Structural Engineer
Mr. David Rice, P.E.
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—Established 1971—

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Solar Assisted Air Conditioning Systems.

At its regular meeting of October 12, 2017, the Board of Rules and Appeals approved an interpretation of the following 6th Edition (2017) Florida Building Codes:

1. FBC, Mechanical Section 301.7 - Listed and Labeled,
2. FBC, Residential Section M1302.1 - Listed and Labeled,
3. FBC, Energy Conservation, Sections C403.2.3 and table R405.5.2.(1) HVAC equipment performance requirements.
4. FBC, 6th Edition (2017) FBC Broward County Administrative Provisions, Section 104.32.

Alternative materials, design and methods of construction and equipment.

The Board concurred with the Building Code Advisory Board of Palm Beach County Technical Advisory (attached) issued on 12/13/11.

Formal Interpretation:

The above sections are applicable to “solar assisted air conditioning systems” (a conventional air conditioning system with a solar heat collector placed between the compressor and the condensing coils) and such systems must obtain certification or successfully pass testing by State of Florida or a nationally recognized testing or certification agency prior to permitting.

EFFECTIVE DATE: September 14, 2012
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

*****PLEASE POST AT YOUR PERMIT COUNTER*****

BCAB

Building Code Advisory Board of Palm Beach County

TECHNICAL ADVISORY

Issued on 12-13-11
by Building Code Advisory Board

Subject: Solar-Assisted Air Conditioning System

This technical advisory is established as a "Public Awareness Notice" concerning a "Solar-Assisted A/C System" that modifies a factory matched air conditioning equipment system and that has been advertised recently in Palm Beach County. The creator of this hybrid system is promoting it, using several unsubstantiated claims regarding AHRI Certification, UL Listing, and dramatically improved SEER efficiency ratings.

This system should not be confused with other tested and certified air conditioning systems that incorporate solar photovoltaic panels into the electrical portion of their system. Unlike those designs, the "Solar-Assisted" portion of this system involves re-routing the refrigerant line up to the roof, and through a solar collector which is intended to "super heat" the gas prior to routing the line back to the condenser coil. There are many technical concerns with this design theory that prompted months of research by BCAB staff, the details of which are beyond the scope of this advisory.

However, there is specific information pertinent to the claims involving AHRI Certification, UL Listing, limitations on the pressures and approvals of solar panels, and dramatic increases in SEER efficiency that are worth noting:

- 1) Air Conditioning, Heating, and Refrigeration Institute communications (attached – BCAB letter available on request)
- 2) Florida Solar Energy Center communications (attached)
- 3) Manufacturers – the original equipment manufacturers of the Air Condensing Units that were contacted by BCAB staff, stated that their warranties and the UL Listing of their equipment would be voided by this type of field alteration.

It is the duty and the responsibility of the building official to ensure that products are properly installed in accordance with the manufacturer's instructions, certifications, and their listings. Installation of a system, that is not in compliance with listing and installation standards can lead to problems and invalidation of the warranty for the customer. When alternate materials, technologies, or designs are being proposed, it is incumbent on the applicant to provide enough information to substantiate the proposed alternative will comply with the code. The building official can request testing or other type of documentation when insufficient evidence is submitted at time of permitting. This firm has not demonstrated their claims with thorough and reliable science, engineering, testing, or demonstrated field applications. Due to the several above cited issues, and the extraordinary time spent by BCAB staff in the analysis of submitted materials that failed to substantiate the code-compliance of the hybrid system; the recommendation of the Board is that this system must obtain certification or successfully pass testing by a State of Florida or nationally recognized testing or certification agency, prior to permitting.

For Building Code Advisory Board



Jadek Tomasik, Chair

The Building Code Advisory Board of Palm Beach County was created by a Special Act of the Florida Legislature, at the request of the building code enforcement and construction industries. The purpose of the Board is to advise the Board of County Commissioners and local governments concerning the adoption of building codes and their enforcement throughout the County. The Act also granted Palm Beach County special powers concerning building codes, in the interest of the public's health, safety and general welfare.

2300 North Jog Road · West Palm Beach, Florida 33411-2741 · 561-233-5101 · FAX 561-233-5020

comfortable at a higher temperature...In addition your air conditioning unit doesn't run as long and cycles less.

Tested and certified...Energy Star, EcoLogic approved, AHRI & UL certified!

A S.E.E.R. (Seasonal Energy Efficiency Rating) is the rating and performance standards that have been developed by the U.S. government and equipment manufacturer's to produce an energy consumption rating that is easy to understand by consumers. It has a universal formula and conditioning that can be applied to all units and compensates for varying weather conditions.

ENERGY STAR is a government-backed program helping businesses and individuals protect the environment through superior energy efficiency.

AHRI administers the heating, ventilation, air conditioning and commercial refrigeration (HVACR) industry's performance certification programs for heating and cooling equipment and components. Manufacturers who have had their product performance claims tested and certified by AHRI can apply one of the association's families of certification marks.

Sedna Aire USA products are environment friendly, ecologic and made in the USA!

Solar energy is not only clean energy but it is free energy!

ecoLogic™ is your sign of an environmentally friendly, high-efficiency heating and cooling product.

Only the most energy-efficient, most environmentally responsible units receive the ecoLogic seal of quality.

How does a heating or cooling product earn the ecoLogic name? To qualify, products must meet the following criteria:

Rated as an Energy Star® product for efficiency.

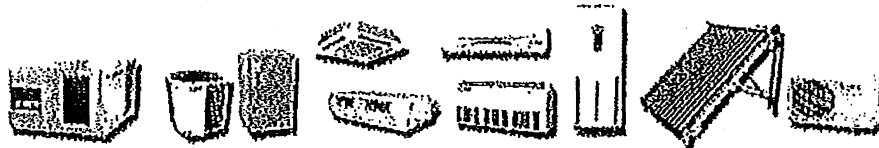
Use non-ozone-depleting refrigerant, such as R-410A, in cooling products.

Include multi-stage, variable-speed compressors for optimal indoor comfort and efficiency.

Feature "smart" control boards or diagnostic controls for total indoor air quality.

Incorporate noise-reducing features.

Green-Energy-Products.com 305.251.9630 - 800.639.8796 info@green-energy-products.com



From: Ann.Stanton@dca.state.fl.us [mailto:Ann.Stanton@dca.state.fl.us]
Sent: Friday, September 16, 2011 11:34 AM
To: Bob Boyer
Subject: FW: Solar Cool Permit Issues

----- Forwarded by Ann Stanton/DCA/FLEOC on 09/16/2011 11:33 AM -----

Philip Falrey <pfalrey@fsec.uof.edu>

To Ann.Stanton@dca.state.fl.us

cc Robin Vielra <robin@fsec.ucf.edu>

09/16/2011 10:49 AM

Subject Re: Fw: Solar Cool Permit Issues

Ann,

We have seen this proposed system before; it is described here:
<http://www.sednaaireusa.com/How%20it%20works.htm>. It does not work. In fact, it will decrease the efficiency of the air conditioner on which it is installed. In fact, one could make a cogent argument that if this concept were incorporated into a minimum efficiency air conditioner it would no longer meet the minimum federal standard for the manufacture and sale of air conditioner systems. The issue is that we want to extract heat from the loop between the compressor and condenser, not add heat to it- they have it exactly backward!

Philip

On 9/16/2011 10:29 AM, Ann.Stanton@dca.state.fl.us wrote:

Phillp: Does one of your people want to respond on this issue? I'd appreciate it.

Ann

----- Forwarded by Ann Stanton/DCA/FLEOC on 09/16/2011 10:28 AM -----

Bob Boyer
<BBOYER@pbcgov.org>

To "Ann.Stanton@dca.state.fl.us" <Ann.Stanton@dca.state.fl.us>

cc Rebecca Caldwell <rcaldwel@pbcgov.org>, Richard Gathright
<rgathrin@pbcgov.org>, Michael Fox <Mfox@pbcgov.org>

09/16/2011 10:16 AM

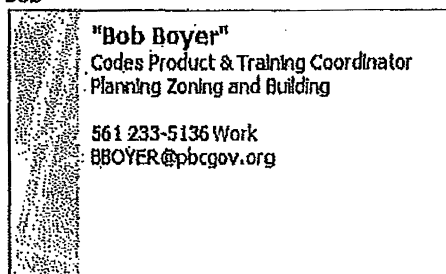
Subject FW: Solar Cool Permit Issues

Good Morning Ann,

I am forwarding ongoing correspondence that we are having with a solar contractor on the proposed field modification of a AC system. The contractor is proposing to install a thermal solar collector in the hot gas loop between the compressor and the condenser. We would be very interested in hearing your opinion and thoughts on this proposed installation. We have sent a letter to AHRI which I have attached also requesting input on the proposed installation. Thank you for your time in considering and responding to our questions.

Regards,

Bob





BROWARD COUNTY BOARD OF RULES AND APPEALS

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

FBC 6th Edition (2017)

FORMAL INTERPRETATION (#7)

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attila,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

DATE: October 3, 2017

TO: All Building Officials

FROM: James DiPietro

Administrative Director

**SUBJECT: Installation of 100% Wireless Network Low Voltage
Alarm Systems.**

At its regular meeting of May 14, 2015, the Board of Rules and Appeals approved an interpretation regarding 100% Wireless Network Low Voltage Alarm Systems, as follows.

INSTALLATION OF 100% WIRELESS NETWORK LOW VOLTAGE ALARM SYSTEMS, AND ANCILLARY COMPONENTS OR EQUIPMENT ATTACHED TO SUCH A SYSTEM, INCLUDING, BUT NOT LIMITED TO HOME-AUTOMATION EQUIPMENT, THERMOSTATS, AND VIDEO CAMERAS DOES NOT REQUIRE A PERMIT. THIS INTERPRETATION DOES NOT APPLY TO THE INSTALLATION OR REPLACEMENT OF A FIRE ALARM IF A PLAN REVIEW IS REQUIRED.

EFFECTIVE DATE: January 10, 2014

RE-ISSUED: May 14, 2015

RE-ISSUED DATE: October 12, 2017

EFFECTIVE DATE: January 1, 2018

*****PLEASE POST AT YOUR PERMIT COUNTER*****



BROWARD COUNTY BOARD OF RULES AND APPEALS

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500

Fax: 954-765-4504

broward.org/CodeAppeals

FBC 6th Edition (2017) **FORMAL INTERPRETATION (#8)**

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attila,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

DATE: October 12th, 2017

TO: All Building Officials

FROM: James DiPietro
Administrative Director

SUBJECT: Retrofits required pursuant to Florida Building Code
Existing Building Section 706.8

Anchors not less than 1/8" by 1" steel strap nailed with 3- 16D nails installed in accordance with previous additions of the South Florida Building Code shall be deemed to comply with the minimum uplift capacity of 500 pounds as specified in the Florida Building Code Existing Building Manual Section 706.8 for roof to wall connections for site-built single-family residential structures.

ORIGINAL DATE: May 9, 2014
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

*******PLEASE POST AT YOUR PERMIT COUNTER*******

Page 1 of 1 F.I. #8



**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#9)**

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504

broward.org/CodeAppeals

DATE: October 12, 2017

TO: All Building Officials

FROM: James DiPietro
Administrative Director

SUBJECT: Residential Clothes Washing Machines Drains.

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

At its regular meeting of October 12, 2017, the Board of Rules and Appeals approved an interpretation of the Florida Building Code 6th Edition (2017), Residential Section P2718.1

The interpretation is to clarify the use of a minimum 2-inch sanitary piping to drain clothes washing machines. The FBC, Residential Section P2718.1 is silent on the issue. The Board, with Building Officials Association of Florida Informal Interpretations 4939 and 6501.

Formal Interpretation:

FBC Residential Section P2718.1: The automatic clothes washing machine fixture drain shall connect to a branch drain or drainage stack a minimum of 2 inches in diameter.

ORIGINAL DATE: January 10, 2014
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

******PLEASE POST AT YOUR PERMIT COUNTER******



**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#10)**

1 N. University Drive Suite 3500B
Plantation, Florida 33324
Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

DATE: September 9, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Recessed Ceiling Air Handlers

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attilio,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

At its regular meeting of October 12, 2017, the Board of Rules and Appeals approved an interpretation of the following 6th Edition (2017) Florida Building Codes:

1. FBC, Energy Conservation, Sections C501.7 and R501.7.

Building systems and components. Thermal efficiency standards are set for the following building systems and components where new products are installed or replaced in existing buildings, and for which a permit must be obtained. New products shall meet the minimum efficiencies allowed by this code for the following systems and components:

- Heating, ventilating or air-conditioning systems;
- Service water or pool heating systems;
- Lighting systems; and
- Replacement fenestration.

Exceptions:

4. Replacement equipment that would require extensive Revisions to other systems, equipment or elements of a building where such replacement is a like-for-like replacement, such as through-the-wall condensing units and PTACs, chillers and cooling towers in confined spaced.

Formal Interpretation:

The replacement of existing Recessed Ceiling Air Handlers that will require the alteration of building walls; as determined by the Building Official or his or her representative, qualifies under the exception 4 to the FBC Energy Conservation 6th Edition section C501.7 and R501.7. As consequence this application needs not meet the minimum SEER required in Section C303.2.3 and Table R405.5.2(1) of said Code as long as the replacement is a “like for like” as stated in the above Exception.

EFFECTIVE DATE: June 30, 2015
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

*****PLEASE POST AT YOUR PERMIT COUNTER*****



BROWARD COUNTY BOARD OF RULES AND APPEALS

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

FBC 6th Edition (2017) Energy Conservation Code FORMAL INTERPRETATION (#11)

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor


Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPiet 
Administrative Director
SUBJECT: Windows Replacement

At its meeting of October 12, 2017, the Broward County Board of Rules and Appeals approved the following interpretation.

When windows are replaced they may be exempt from the *Florida Building Code-Energy Conservation, 6th Edition (2017)*.

In the *Florida Building Code-Energy Conservation, 6th Edition (2017)*, C101.4.2 and R101.4.8 state: "Buildings exempt from the provisions of the *Florida Building Code, Energy Conservation*, include existing buildings **except those considered renovated buildings**, changes of occupancy type or previously unconditioned buildings to which comfort conditioning is added."

Renovated Buildings is defined in C202 and R202 of the *Florida Building Code-Energy Conservation, 6th Edition (2017)* as: "A residential or nonresidential building undergoing alteration that varies or changes insulation, HVAC systems, water heating systems, or exterior envelope conditions, provided the estimated cost of renovation exceeds 30 percent of the assessed value of the structure."

Considering these sections, replacement of windows (including any other renovation that may be going on) in an existing building that does not exceed 30 percent of the assessed value of the structure must comply with the requirements of the *Florida Building Code, Existing Building* but they do not need to comply with the *Florida Building Code, Energy Conservation*.

ISSUED: July 9, 2015
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

*****PLEASE POST AT YOUR PERMIT COUNTER*****



**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#12)**

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director 
SUBJECT: Mechanical Equipment Wind Load Voluntary Design Pressure Chart

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

At its meeting of October 12, 2017, the Board approved an interpretation of the 6th Edition (2017) FBC Existing Building, 503.1 Alteration Level 1, FMC 301.15, and FBC Ch. 16.

Formal Interpretation:

To obtain the required design pressure for any mechanical equipment, at a specific site, an individual must use one of the following options and submit documentation as indicated.

- a) A site-specific plan (signed and sealed) by a Florida Professional Engineer indicating the location of mechanical equipment and the required design pressures.
- b) A site-specific plan (not sealed) or written description, indicating the location of mechanical equipment accompanied by a worst-case design pressure chart (signed and sealed) prepared by a Florida P.E.
- c) A site-specific plan (not sealed) or written description, indicating the location of mechanical equipment and indicating the required design pressures based on the Broward County Mechanical Equipment Wind Load Voluntary Design Pressure Chart. (See attached chart).

All permit applications must be accompanied by evidence acceptable to the AHJ that the mechanical equipment and its installation complies with FMC 301.15 and the design pressures as determined by one of the above methods.

Mechanical equipment located at height more than 100 feet shall comply with FMC 301.15, have a site-specific design (signed and sealed) by a Florida Professional Engineer, indicating the location of mechanical equipment, the required design pressures and the installation method.

EFFECTIVE DATE: October 9, 2015
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

******PLEASE POST AT YOUR PERMIT COUNTER******

Page 1 of 2 F.I.#13

Broward County - Wind Load Design Pressures For Mechanical Equipment (HVHZ only)*

* Using Allowable Stress Design methodology (P = 0.6w)

Per ASCE 7-10 Chapter 29, Design Loads for Other Structures, and Florida Building Code 6th Edition (2017)

Wind 170 mph (3-second gust) / Exposure C-D** / Kzt = 1.0
 K_d = 0.90 for square shaped units / K_d = 0.95 for round, hexagonal & octagonal shaped units
 ** Exposure shall be determined according to ASCE 7-10 Section 26.7.3 (Exposure Categories)

GROUND-MOUNTED APPLICATIONS

Exposure 'C' (Non-Coastal)

Mounting Height	Unit Size		Wind Load Design Pressures		
	Width/Diameter	Height	Square	Hexagonal, Octagonal	Round
GROUND	24 – 60 IN	24 – 60 IN	39 PSF	32 PSF	16 PSF

Exposure 'D' (Coastal)

Mounting Height	Unit Size		Wind Load Design Pressures		
	Width/Diameter	Height	Square	Hexagonal, Octagonal	Round
GROUND	24 – 60 IN	24 – 60 IN	47 PSF	39 PSF	20 PSF

ROOFTOP-MOUNTED APPLICATIONS

Exposure 'C' (Non-Coastal)

Mounting Height Above Grade	Unit Size		Wind Load Design Pressures		
	Width/Diameter	Height		Square	Round, Hex/Octagonal
15 FT	< 60 IN	< 60 IN	LATERAL	112 PSF	118 PSF
			UPLIFT	55 PSF	58 PSF
20 FT	< 60 IN	< 60 IN	LATERAL	118 PSF	124 PSF
			UPLIFT	57 PSF	60 PSF
30 FT	< 60 IN	< 60 IN	LATERAL	126 PSF	133 PSF
			UPLIFT	61 PSF	65 PSF
40 FT	< 60 IN	< 60 IN	LATERAL	133 PSF	140 PSF
			UPLIFT	65 PSF	68 PSF
50 FT	< 60 IN	< 60 IN	LATERAL	139 PSF	146 PSF
			UPLIFT	67 PSF	71 PSF
60 FT	< 60 IN	< 60 IN	LATERAL	144 PSF	152 PSF
			UPLIFT	70 PSF	74 PSF
70 FT	< 60 IN	< 60 IN	LATERAL	148 PSF	156 PSF
			UPLIFT	72 PSF	76 PSF
80 FT	< 60 IN	< 60 IN	LATERAL	152 PSF	160 PSF
			UPLIFT	74 PSF	78 PSF
90 FT	< 60 IN	< 60 IN	LATERAL	156 PSF	164 PSF
			UPLIFT	76 PSF	80 PSF
100 FT	< 60 IN	< 60 IN	LATERAL	159 PSF	168 PSF
			UPLIFT	77 PSF	81 PSF

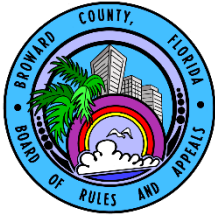
Exposure 'D' (Coastal)

Mounting Height Above Grade	Unit Size		Wind Load Design Pressures		
	Width/Diameter	Height		Square	Round, Hex/Octagonal
15 FT	< 60 IN	< 60 IN	LATERAL	135 PSF	142 PSF
			UPLIFT	65 PSF	69 PSF
20 FT	< 60 IN	< 60 IN	LATERAL	140 PSF	148 PSF
			UPLIFT	68 PSF	72 PSF
30 FT	< 60 IN	< 60 IN	LATERAL	148 PSF	157 PSF
			UPLIFT	72 PSF	76 PSF
40 FT	< 60 IN	< 60 IN	LATERAL	155 PSF	164 PSF
			UPLIFT	75 PSF	79 PSF
50 FT	< 60 IN	< 60 IN	LATERAL	160 PSF	169 PSF
			UPLIFT	78 PSF	82 PSF
60 FT	< 60 IN	< 60 IN	LATERAL	165 PSF	174 PSF
			UPLIFT	80 PSF	85 PSF
70 FT	< 60 IN	< 60 IN	LATERAL	169 PSF	179 PSF
			UPLIFT	82 PSF	87 PSF
80 FT	< 60 IN	< 60 IN	LATERAL	173 PSF	183 PSF
			UPLIFT	84 PSF	89 PSF
90 FT	< 60 IN	< 60 IN	LATERAL	176 PSF	186 PSF
			UPLIFT	86 PSF	90 PSF
100 FT	< 60 IN	< 60 IN	LATERAL	179 PSF	189 PSF
			UPLIFT	87 PSF	92 PSF

GENERAL NOTES AND INSTRUCTIONS FOR TABLE USE:

1. Design is based on the Florida Building Code (FBC) 6th Edition (2017) using ASCE 7-10 "other structures - tanks" calculation of a 3-second gust (wind velocity) per ASCE section 29.4, 29.5, or FBC section 1620.6 for a category II (general residential & commercial construction) installation. These tables not for use with essential facilities or assembly occupancies. Topographic factor kzt=1.0 for flat terrain use only. Tables use 'ASD' design method.
2. No certification is offered for the integrity of the host structure.
3. Tables are intended to depict the 'worst case' design pressure. 'Worst case' is defined as the critical condition of any unknown variable as described herein. Use of critical conditions required for use with these tables. Deviations require site specific evaluation.
4. Use of this drawing assumes the following criteria:
 - Permanent attachment to the existing structure (attachment method and integrity of host structure certified by others)
 - The unit is not located in a region susceptible to channeling effects or buffeting in the wake of upwind obstructions.

5. It is the installer's responsibility to ensure that the mounting method meets or exceeds the requirements of the aforementioned building code which shall be provided per separate certification.
6. Always round down unit width/depth dimensions and/or round up unit height dimension to the worst-case table value or to a conservative assumption.
7. Use any combination of unit sizes, provided base attachment certification is approved for that configuration. When considering multiple sizes, utilize minimum unit depth/width along with maximum unit height to determine required design pressure from these tables.
8. Read off required pressures (for ground-mounted applications, pressures act laterally upon vertical windward faces in any direction; for rooftop applications, pressures act as specified in table).
9. For use only as required by the local municipality in accordance with code.



BROWARD COUNTY BOARD OF RULES AND APPEALS

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500

Fax: 954-765-4504

broward.org/CodeAppeals

FBC 6th Edition (2017)

FORMAL INTERPRETATION (#13)

DATE: September 9, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Ceiling Grid Support for Light Fixtures

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

Per NEC 410.36, when lighting fixtures are installed in acoustical ceiling grids, they must be securely fastened to the grid. The FBC 5th Edition Section 808.1 requires ceiling grids to be installed as per ASTM C635 and ASTM C636. ASTM C635 is the standard for manufacturer's grid design. ASTM C635 Section 4 explains grid strength types such as light, medium and heavy duty and it also describes the allowable load to be applied to each grid type. ASTM C635 4.3 states the manufacturer is responsible for the design of the specified system. ASTM C636 explains the standard installation requirements. ASTM C636 Section 2.7 specifies the installation of lay in light fixtures in a grid ceiling. Depending on the load and the type of grid ceiling that is being used, there are three ways to support a lay in light fixture:

- 1) By fastening it to the grid per fixture manufacturer's instruction, NEC 410.36(B) and ASTM C636 2.7.1 where installing a light fixture does not compromise the design or strength of the ceiling.
- 2) By adding additional hanger wires on the grid at the four corners of the grid within 6" of the fixtures where it is determined that more support is needed to support additional loads per ASTM C636 2.7.2.
- 3) Per ASTM C2636 2.7.2, by independently supporting the fixtures from the grid where the weight of the fixture is determined to be too great for the selected grid to meet the deflection requirement.

Formal Interpretation.

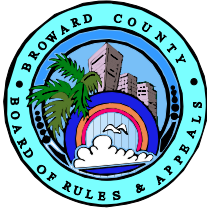
A support detail shall be provided on the Ceiling Grid Plan Pages indicating the method of support of lay-in light fixtures, ceiling fans, ventilator fans, and other ceiling mounted equipment or fixtures based on the lay-in ceiling system manufacturer's load capabilities for the selected grid used. The detail shall be provided by the design Professional or the manufacturer.

EFFECTIVE DATE: MARCH 10th, 2016

RE-ISSUED: NOVEMBER 9th, 2017

EFFECTIVE DATE: JANUARY 1ST, 2018


*****PLEASE POST AT YOUR PERMIT COUNTER*****



**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#14)**

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

DATE: October 12, 2017
TO: All Building Officials.
FROM: James DiPietro, Administrative Director 
SUBJECT: Interpretation of 6th Edition (2017) Florida Building Code
**Mechanical: 301.15; Building: 453.25.4.3.1, 453.25.4.3.2,
1609.1.1 Ex. 8; Fuel Gas: 301.10.**

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

At its regular meeting of October 12, 2017, the Board of Rules and Appeals approved an interpretation of the following Exception to above sections:

Wind resistance. Mechanical equipment, appliances and supports that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with the *Florida Building Code, Building*.

Exception: Exposed mechanical equipment or appliances fastened to a roof or installed in the ground in compliance with the code using rated stands, platforms, curbs, slabs, walls, or other means are deemed to comply with the winds resistance requirements of the 2007 Florida Building Code, as amended. Further support enclosure of mechanical equipment or appliances is not required by a state or local official having authority to enforce the Florida Building Code.

Formal interpretation

1. Mechanical equipment or appliances themselves, are not required to demonstrate compliance with the wind load requirements of the Florida Building Code and no other shielding, sheltering, or reinforcement of the equipment of appliance is required.
2. Notwithstanding Item 1 above, the mechanical equipment or appliances shall be adequately anchored to the rated stands, platforms, curbs, slabs, walls, or other means of support to resist the wind loads of the 2007 Florida Building Code.

EFFECTIVE DATE: September 9, 2016

RE-ISSUED: October 12, 2017

EFFECTIVE DATE: January 1, 2018

PLEASE POST AT YOUR PERMIT COUNTER

Page 1 of 1 F.I. #16



BROWARD COUNTY
BOARD OF RULES AND APPEALS

FBC 6th Edition (2017)
FORMAL INTERPRETATION (#15)

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Permit requirements for Florida Building Code,
Plumbing Appendix F

At its regular meeting of October 12, 2017, the Board of Rules and Appeals approved an interpretation of the Florida Building Code 6th Edition (2017), Plumbing Appendix F Part 1 B.1 Permits required and B.2 Exceptions.

The interpretation is to clarify that a permit is not required for the installation of irrigation for golf courses.

Formal Interpretation:

FBC, Plumbing Appendix F Part 1: A permit is not required for the installation of irrigation systems for golf courses Per Part 1 A.3 Scope.

Original Date: May 12, 2017
Re-Issued October 12, 2017
Effective Date: January 1, 2018


****PLEASE POST AT YOUR PERMIT COUNTER****



**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#16)**

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director 
SUBJECT: Smoke Control System testing in existing buildings undergoing Level 2 alterations.

2017 Voting Members

Chair
Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair
Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney
Charles M. Kramer, Esq.

Board Administrative Director
James DiPietro

—ESTABLISHED 1971—

At its meeting of October 12, 2017, the Board approved an interpretation of the 6th Edition (2017) FBC.

Formal Interpretation of the following sections:
FBC Existing Buildings SECTION 504 ALTERATION—LEVEL 2;
FBC Existing Buildings 801.2 Alteration Level 1 compliance;
FBC Existing Buildings 701.2 Conformance;
FMC 513.3 Special inspection and test requirements;
FMC 513.18 Acceptance testing;
FMC 513.19 System acceptance;
FBC 909.3 Special inspection and test requirements.

Formal Interpretation:
In existing buildings undergoing Level 2 alterations, including tenant improvements, the Engineer of Record shall state if testing of the existing Smoke Control System is required and the type of test to be performed.

EFFECTIVE DATE: May 12, 2017
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

*****PLEASE POST AT YOUR PERMIT COUNTER*****




**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#17)**

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500

Fax: 954-765-4504

broward.org/CodeAppeals

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director 
SUBJECT: Acceptable testing methods for Smoke Control Systems.

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

At its meeting of October 12, 2017, the Board approved an interpretation of the 6th Edition (2017) FBC.

Formal Interpretation of the following sections:
FMC 513.3 Special inspection and test requirements;
FMC 513.18 Acceptance testing;
FMC 513.19 System acceptance;
FBC 909.3 Special inspection and test requirements.

Formal Interpretation:

As part of the procedures and methods to be used in testing a Smoke Control System, the Engineer of Record shall be able to use any measurable and certifiable method of generating smoke, including smoke generating machines.

EFFECTIVE DATE: May 12, 2017
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

******PLEASE POST AT YOUR PERMIT COUNTER******



**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#18)**

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director
SUBJECT: Duct sizing calculations.

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

At its meeting of October 12, 2017, the Board approved an interpretation of the 6th Edition (2017) FBC.

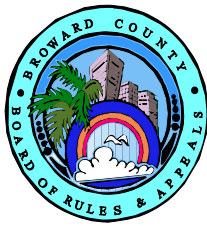
Formal Interpretation of the following sections:
FMC 603.2 Duct sizing.
FBC Residential M1601.1 Duct design.

Formal Interpretation

Duct sizing calculations are not necessary to be submitted to the Authority Having Jurisdiction as part of the permitting process, if the design document showing duct sizes, is signed and sealed by the Engineer of Record or signed by the Mechanical or Air Condition Contractor, as allowed by Florida Statutes 471 and 489.

EFFECTIVE DATE: May 12, 2017
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

******PLEASE POST AT YOUR PERMIT COUNTER******




**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#19)**

One North University Drive
Suite 3500-B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504

www.broward.org/codeappeals

DATE: October 12, 2017
TO: All Building Officials
FROM: James DiPietro, Administrative Director 
SUBJECT: Acceptable documents for the attachment of mechanical equipment during replacement.

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn
Representative Disabled Community
Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.
Structural Engineer
Mr. Daniel Rourke
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.
Electrical Engineer
Mr. Ron Burr
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer
Consumer Advocate
Mr. Abbas H. Zackria, CSI
Architect
Robert A. Kamm, P.E.
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger
Architect
Mr. Steven Feller, P.E.
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor
Fire Service
Mr. Gary Elzweig, P.E.
Structural Engineer
Mr. David Rice, P.E.
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—Established 1971—

At its meeting of October 12, 2017, the Board approved an interpretation of the 6th Edition FBC.

Formal Interpretation of the following sections:

FBC 6th Edition (2017), Building Section 105.3.1.5-3 of Broward County Administrative Provisions.

Formal Interpretation.

For the replacement of an existing mechanical system, in which the work does not require altering a structural part of the building, or for work on a residential one-family, two-family, three-family or four-family structure, the Authority Having Jurisdiction shall accept documents from the following sources:

1. Original signed and sealed engineered drawings.
2. Miami Dade Notice of Acceptance, complete sets of copies.
3. Florida Product Approval, complete sets of copies.
4. Equipment manufacturer's anchoring details, showing compliance with the wind speeds as provided by FBC 1620 for Broward County.

For commercial replacements, the Authority Having Jurisdiction shall accept documents from the following sources:

1. Original signed and sealed engineered drawings.
2. Miami Dade Notice of Acceptance, complete sets of copies.
3. Florida Product Approval, complete sets of copies.

EFFECTIVE DATE: May 12, 2017
RE-ISSUED: October 12, 2017
EFFECTIVE DATE: January 1, 2018

******PLEASE POST AT YOUR PERMIT COUNTER******

Page 1 of 1 F.I #21



BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#20)

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500

Fax: 954-765-4504

broward.org/CodeAppeals

2017 Voting Members

Chair

Mr. Jeffrey Lucas, FM, CFI, CFEI,
Fire Service Professional

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community
Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Daniel Lavrich, P.E.,
Structural Engineer
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attilio,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2017 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

DATE: October 12, 2017

TO: All Building Officials

FROM: James DiPietro

Administrative Director

SUBJECT: Two-Way Radio Communication Enhanced Public Safety
Signal Booster Systems.

At its regular meeting of October 12, 2017, the Board of Rules and Appeals approved an interpretation of Chapter I, Section I 18, titled Two-Way Radio Communication Enhanced Public Safety Signal Booster Systems, as follows:

Plans shall be signed and sealed by a licensed professional engineer. The engineer of record shall be responsible for the system. The engineer of record shall specify the brand and the model number of the bi-directional amplifier (BDA), the antenna and the component parts.

It is recognized that presently there is no listing approval for BDA systems by a nationally recognized testing laboratory.

This Formal Interpretation shall remain in effect until six (6) months after the UL sets this listing approval

Adopted Date: October 12, 2017

Effective Date: October 13, 2017

Re-Adopted : January 1, 2018

******PLEASE POST AT YOUR PERMIT COUNTER******

Page 1 of 4

AUGUST 28, 2017 JOINT AD HOC BI-DIRECTIONAL AMPLIFIER & ELECTRICAL COMMITTEE MEETING - MINUTES EXCERPT

Rice: Broward County Board of Rules and Appeals was contacted by the County to see what we could do as far as looking at existing codes, what we would have to do to modify existing codes, what would it take so this doesn't happen again. Basically we started the BOA Committee and came up with a number of recommendations. Basically what we found was that the codes themselves were adequate. They gave us what we needed. What was not adequate was the follow-up and how to enforce it. So we made some changes to the administrative process for Broward County and we have been going forward since then. The BOA Committee was disbanded. I think we had one meeting a few months later just to discuss any other issues that came up. It has been quite a while since we've had a meeting. The reason for this meeting is basically we are going through the installation process and we have some obstacles to overcome.

Rice: You mentioned that the code, we had changed it a few months ago, as far as the requirements for the plans. My question is to solve this problem, we require the plans to be signed and sealed by an electrical engineer with experience. He is supposed to define what BOA could be used. Could we write a formal interpretation to clarify this to get it out to all the building inspectors, the chiefs, basically defining this? If the engineer of record specifies the brand and the model number for that BOA, he is liable for that, he is responsible for that. There is no UL listing for it. I'll throw this back to the inspectors. Mr. Gray (sp? 1:40:10:0) would you accept that as an alternative to going out for the third-party inspection?

Gray: Absolutely.

Rice: Sir from Miramar, would you accept it?

Inaudible

Rice: And from Fort Lauderdale, would you accept that?

Unidentified: Yes

Rice: From Deerfield Beach?

Kropp: Yes I will. I can't specify pieces of equipment in these designs. For me to give somebody a list of what they can use if it is more than ...

Rice: The engineer that designed it.

Kropp: What I am seeing with a lot of these submittals for permits and I do the permit reviews on them. I see a lot of bogus emails being sent in. I know they are bogus because when I look at them, they are all on solid color. They don't show the gradation of signal strength. They don't show the blocking of the various internal components. That's an issue that needs to be addressed too.

Unidentified: Next meeting. Let's solve this one first.

Kropp: Even having engineers sign those plans with those bogus drawings in there does not provide a proper submittal. I bounce those.

Rice: I hate to rat on anybody, but I am a professional engineer and the thing that irks me more than anything else to see my competition put a piece of trash in, signed and sealed. You know

**AUGUST 28, 2017 JOINT AD HOC BI-DIRECTIONAL AMPLIFIER & ELECTRICAL
COMMITTEE MEETING - MINUTES EXCERPT**

what I think you should do. Send it to DPR (Department of Professional Regulation). That's the best thing you could do for the community. Mr. DiPietro, what about a formal interpretation? What is the process for doing that?

DiPietro: The first answer is the short answer, yes. Hopefully the longer answer will end up at yes. The short answer is you can interpret anything in the code. So we put it in a code section. The Committee could recommend an interpretation of that code section just as you described. Now, since we don't have a written document ahead of us. In other words, sometimes the Committee will have a proposed interpretation and the Committee adopts that. I think obviously what we would do as we just disclosed, somebody could move what you've said that be written up as an interpretation. The staff and yourself would sign off on the draft. I'll send it to the attorney. In our report to the board, the board would vote on this in October, we'd simply disclose the truth. We had an hour and a half meeting. A lot of people spoke. At the end of it there was a general motion to put this into a formal interpretation which the Committee chair approved and we are presenting it tonight for review. Of course it is a public meeting and anybody can come and comment. That is probably the best option. There are alternatives. Another one is we do a draft and send it out to the joint Committee and go through a process of getting feedback. You have to be careful with that because under the Sunshine Law, one committee member cannot talk to another one. But, we could solicit comments and they all come into the staff, it's a little more unworkable, but you could do that. That is a second alternative. The third alternative is we can prepare what you said Mr. Chair and then put it on the agenda for another meeting a month from now and then this Committee could vote it. Any one of those would work. The Committee can delegate it to you and then we could run it by the attorney and put it on the agenda.

Rice: First of all what I'd like to do if I could get a motion.

Kropp: I make a motion that the Electrical and Ad Hoc Committee form a formal interpretation on allowing the BOA systems to be signed, sealed by a professional engineer and the engineer of record designing that system be responsible for the system as it is designed and installed.

Unidentified: Can you change that slightly?

Rice: The next question, ok, do you want to go the long process and have another meeting or authorize myself and staff, two members of staff, Mr. DiPietro, to write the report.

Kropp: That is the motion I thought I just made. Maybe I worded it wrong.

Melamed: Ok, I second that motion.

Unidentified: Before we vote on that, I'd like to hear from Mr. Castronovo because

Castronovo: No that's ok. I'm glad we are here.

Unidentified: Does that meet your essential request?

Castronovo: No listen, it is up to the individual AHJ (Authority Having Jurisdiction). I don't sign on permits. I'm getting a lot of questions from the vendors. I'm getting questions from board members and other people and I just take it all in because I am not out in the field. I am not the person who signs it. My goal is to make it not just clear but uniform. I don't want you going to Fort Lauderdale and he saying one thing and him going, that's not what I do. I have really no, I mean I can give my input. I can't vote on anything on this board. So, what's happening here is

AUGUST 28, 2017 JOINT AD HOC BI-DIRECTIONAL AMPLIFIER & ELECTRICAL COMMITTEE MEETING - MINUTES EXCERPT

good.

Kropp: One fear as an inspector is, that we have, is we don't want to do something and then Ken come knocking on our door, saying what are you guys doing. The key point is there is a lot of inspectors here, we are all meeting.

Rice: That is the purpose of the formal interpretation.

Melamed: I just want to make sure that doesn't take away the responsibility of the electrical inspector to ensure that the unit's ? is properly connected (inaudible - multiple people speaking) it only has to do with the BDA... so that it doesn't have to be UL

Parks: Mr. Chairman, I believe the motion is already covered in code, what are you asking to interpret?

Rice: I want to have a formal interpretation sent out to all of the electrical chiefs.

Parks: That plans have to be drawn and engineer sealed?

Rice: That's already said but basically this refers specifically to BDAs. When he specifies the BOA, that's his approval on that BOA.

Unidentified: And that is part of the inspection process.

Rice: And the inspector would take that.

Unidentified: And we are really asking for it to be county-wide.

Rice: That is the purpose of the formal interpretation.

Travers: Just remind the subcommittees that are here today a year ago we had an issue with mechanical equipment and we formed two special subcommittees, one structural and one mechanical chaired by Dan Lavrich. We used the same process to come up with ? informed considering wind load calculations and fastening devices, we were able to resolve it at this level. It went through the interpretation level, distributed to all of the municipalities in Broward County and it made it clear that we could do things in a standard and uniform way throughout the county.

Parks: Ok, so we have a motion and it was seconded, Mr. Chairman.

Rice: Ok, any other discussion from board members?

Castronovo: We are just talking about BOAs. We are not talking about installation.

Rice: BOA only.

Unidentified: This eliminates the UL question.

Rice: Ok, all those in favor, raise your hand and say aye.

Rice: Ok, that is unanimous.



**BROWARD COUNTY
BOARD OF RULES AND APPEALS
FBC 6th Edition (2017)
FORMAL INTERPRETATION (#21)**

1 N. University Drive Suite 3500B
Plantation, Florida 33324

Phone: 954-765-4500
Fax: 954-765-4504
broward.org/CodeAppeals

DATE: June 14, 2018.

TO: All Building Officials

FROM: James DiPietro, Administrative Director

SUBJECT: Alteration of existing smoke evacuation or smoke control systems.

2018 Voting Members

Chair

Mr. Daniel Lavrich, P.E.,
Structural Engineer

Vice-Chair

Mr. Kenneth B. Wynn,
Representative Disabled Community

Mr. John Famularo,
Roofing Contractor
Mrs. Shalanda Giles Nelson,
General Contractor
Mr. Jeffrey Lucas, FM, CFI, CFEL,
Fire Service Professional
Mr. Daniel Rourke,
Master Plumber
Mr. Gregg D'Attile,
Mechanical Contractor
Mr. Stephen E. Bailey, P.E.,
Electrical Engineer
Mr. Ron Burr,
Swimming Pool Contractor
Mr. John Sims,
Master Electrician
Mr. Dennis A. Ulmer,
Consumer Advocate
Mr. Abbas H. Zackria, CSI,
Architect
Robert A. Kamm, P.E.,
Mechanical Engineer

2018 Alternate Board Members

Mr. Jeff Falkanger,
Architect
Mr. Steven Feller, P.E.,
Mechanical Engineer
Mr. Alberto Fernandez,
General Contractor
Mr. Robert Taylor,
Fire Service
Mr. Gary Elzweig, P.E.,
Structural Engineer
Mr. David Rice, P.E.,
Electrical Engineer
Mr. James Terry,
Master Plumber
Mr. David Tringo,
Master Electrician
Mr. William Flett,
Roofing Contractor

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

James DiPietro

—ESTABLISHED 1971—

At its meeting of June 14, 2018, the Board approved an interpretation of the 6th Edition FBC.

Formal Interpretation of the following sections:

6th Edition (2017), FBC Existing Building, Chapter 14 Performance Compliance Methods; FBC Building Chapter 4, Special detailed requirements based on use and occupancy; FBC Building, Section 909 Smoke Control Systems.

Formal Interpretation.

The alteration of an existing smoke evacuation or smoke control system, including elimination; is possible, if all the following is provided and demonstrated to the Authority Having Jurisdiction for review, rejection for just cause, or acceptance:

1. A comprehensive evaluation of the building's life safety, fire safety, means of egress, general safety, etc. is performed by a registered architect and/or engineer, in accordance with Chapter 14 Performance Compliance Methods of the 2017 Florida Building Code - Existing Building, Sixth Edition.
2. The result of the alteration or elimination is to maintain or increase the degree of public safety, health and general welfare in existing buildings or structures. The alteration can include the upgrade of existing safety systems and or building safety fixtures; and or the installation of additional safety systems and or building safety fixtures in the building or structure.
3. Any proposed work is permitted and inspected, in accordance with Florida Building Code 6th Edition (2017), Chapter 1, Administration — Broward County.
4. Smoke control systems currently required by the FBC or FFPC shall not be eliminated.

EFFECTIVE DATE: June 15, 2018.

******PLEASE POST AT YOUR PERMIT COUNTER******

Page 1 of 1 F.I. #21