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BOARD OF RULES AND APPEALS

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2010 FLORIDA BUILDING CODE

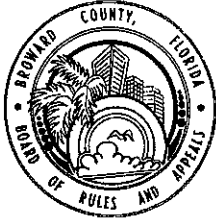
FORMAL

INTERPRETATIONS

2010 FLORIDA BUILDING CODE

FORMAL INTERPRETATIONS

1. FL 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. Use of Louvered Doors for Returning Air to Air Handlers
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FBC Existing Building, Alteration Level I
7. Solar Assisted Air Conditioning Systems
8. Residential Clothes Washing Machines Drains
9. Installation of 100% Wireless Network Low Voltage Alarm Systems



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**2010 FBC FORMAL
INTERPRETATION**

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Russell White, Esq.

Board Administrative Director
James DiPietro

—ESTABLISHED 1971—

TO: All Building Officials
FROM: James DiPietro, Administrative Director
DATE: July 11, 2008 / **Revised September 11, 2008 RE-ISSUED: MARCH 1, 2009**
RE-ISSUED: MARCH 15, 2012
SUBJ: **FL 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 July 10, 2008 the Broward County Board of Rules and Appeals approved the following Formal Interpretation.

Section 602.2.1 of the 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 (2001 Edition).

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

.5 inch (nominal) water filled CPVC pipe: SwRI Project No. 01.04017.01.301b [1]

2 inch (nominal) water filled CPVC Pipe: SwRI Project No. 01.04017.01.301c [1]

.5 inch (nominal) empty CPVC Pipe: SwRI Project No. 01.10083.01.158e

.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 .5 inch (nominal) thru 2 inch (nominal) water filled CPVC and .5 inch (nominal) and .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:

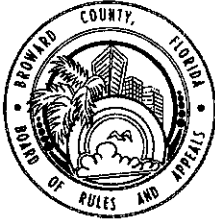
CPVC piping may be accepted for use in plenums in instances where the manufacturers have tested their product with an approved testing agency to an acceptable alternate method to ASTM E-84 – "Standard Test Method for Surface Burning Characteristics of Building Materials". Evidence must be submitted to 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, 2001 Edition, Pipe can be tested empty or water filled and in various pipe diameters.

EFFECTIVE DATE: OCTOBER 20, 2005

RE-ISSUED: MARCH 1, 2009

RE-ISSUED: MARCH 15, 2012

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—ESTABLISHED 1971—

2010 FBC FORMAL
INTERPRETATION

DATE: October 20, 2005
TO: All Building Officials
FROM: James DiPietro 
Administrative Director
SUBJECT: **Identification of Mechanical Equipment**

At the meeting of October 20, 2005 the Board approved an interpretation of Sec. 304.11(section 304.12, 2010 FBC, Mechanical) of the Florida Mechanical Code (FMC) and identical language in Sec. 304.9 of the 2001 Florida Mechanical Code (FMC). These sections of the code require 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.

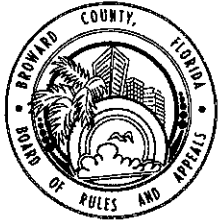
The purpose of these sections is to easily identify equipment for servicing and in case of an emergency. An example would be multiple installations of appliances on a roof top of an office building, condominium, apartment building, etc. There is no requirement for identification of appliances contained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

Formal Interpretation:

Sections 304.11 (section 304.12, 2010 FBC, Mechanical) of the FMC and 304.9 of the 2001 FMC do 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: March 1, 2009
RE-ISSUED: March 15, 2012

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James DiPietro

—ESTABLISHED 1971—

DATE: October 20, 2005
TO: All Building Officials
FROM: James DiPietro 
Administrative Director
SUBJECT: Attachments of Ductwork to Air Handling Equipment

At its meeting of October 20, 2005 the Board approved an interpretation of Sec.603.4.2, Sec. 603.4.2.2 and Sec. 603.1.6 of the Florida Mechanical Code (FMC) [section 603.1, 603.1.1, and 603.1.6, 2010 FBC, Mechanical]. Sec. 1601.6.2, Sec. 1601.6.2.2 and Sec. 1601.3.6 of the Florida Residential Code (FRC) [section 1601.4, 1601.4.1.6, 2010 FBC, Residential] contain identical language.

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.

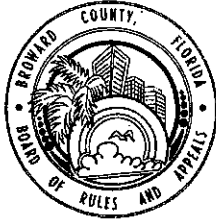
Broward County has a long successful history of using UL181 A/P listed pressure-sensitive aluminum foil tape and UL 181 A/M glass fabric and mastic for attaching rigid fibrous glass duct board to cleaned sheet metal equipment flanges in residential applications. North American Insulation Manufacturers 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: March 1, 2009
RE-ISSUED: March 15, 2012

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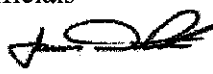
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Board Administrative Director
James DiPietro

---ESTABLISHED 1971---

DATE: October 20, 2005
TO: All Building Officials
FROM: James DiPietro 
Administrative Director
SUBJECT: **Insulation Requirements for Primary Condensate Drains**

At its meeting of October 20, 2005 the Board approved an interpretation of Sec. 307.2.5 of the Florida Mechanical Code (FMC). This section states "All horizontal primary condensate drains within unconditioned areas shall be insulated to prevent condensation from forming on the exterior of the drain pipe."

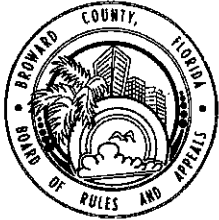
Questions have been raised about the code requirement to insulate condensate drains that were installed vertically or at an angle (pitched). All condensate drain lines are required to have a slope to insure proper drainage and therefore are not perfectly horizontal. The code does not address the insulation 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:

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: March 1, 2009
RE-ISSUED: March 15, 2010

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James DiPietro

—ESTABLISHED 1971—

DATE: October 20, 2005

TO: All Building Officials

FROM: James DiPietro 
Administrative Director

SUBJECT: **Use of Louvered Doors for Returning Air to Air Handlers**

At its meeting of October 20, 2005, the Board approved an interpretation of the Florida Residential Code (FRC) sec. 1601.3.13 (section 1601.4.13, 2010 FBC, Residential) and sec. 603.17 of the Florida Mechanical Code (FMC). These identical language sections require registers, grilles, and diffusers to have a flame spread not over 25 and a smoke developed rating not over 50 when tested in accordance with ASTM E 84.

Often in SFR and residential portions of multi-family residences a louvered door is utilized to direct the return air to an air handler located in a closet or uninhabited space.

This method is used in lieu of having a return air duct attached to the air handler. If the louvered door was removed return air would still be directed to the air handler. These louvered doors are usually constructed of wood, plastic or metal.

Formal Interpretation:

In Single Family Residences and Residential Portions of Multi-Family Residences louvered doors utilized to direct return air to an air handler located in a closet or uninhabited space are not considered registers, grilles or diffusers and therefore do not have to meet the requirements of Sec. 1601.3.13 of the FRC (section 1601.4.13, 2010 FBC, Residential) or Sec. 603.17 of the 2007 (and 2010) FMC.

EFFECTIVE DATE: October 20, 2005
RE-ISSUED: March 1, 2009
RE-ISSUED: March 15, 2012

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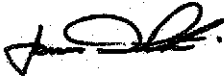
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2010 FBC FORMAL INTERPRETATION

DATE: September 14, 2012
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 September 13, 2012 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. 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 the Broward County Fenestration Voluntary Wind Load Chart. (see attached chart).
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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Effective Date: September 14, 2012

Page 1 of 2

F.I #6

G:\SHARED\Formal Interpretations\2012\FI-6 Retro Wind update.doc

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—ESTABLISHED 1971—

Broward County Fenestration Voluntary Wind Load Chart*
 Per ASCE 7-10 Method 1, Part 1 and FBC 2010 for Retrofitting in Accordance with Formal Interpretation #6
 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

* 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 2			Zone 3			Zone 1			Zone 2			Zone 3			Zone 1			Zone 2			Zone 3		
		+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
10	Gable/Hip	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	Roof	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	θ ≤ 7°	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	(0 to 1.5:12)	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	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	Roof***	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	7° < θ ≤ 27°	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	(1.5 to 6:12)	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	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	27° < θ ≤ 45°	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	(6 to 12:12)	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 30.4-2B, 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 4			Zone 5			Zone 4			Zone 5			Zone 4			Zone 5			Zone 4			Zone 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	0 - 10 degrees	35.2
10		34.1
14	> 10 degrees	32.3
16		36.8

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, 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.



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BROWARD COUNTY BOARD OF RULES AND APPEALS **2010 FBC FORMAL INTERPRETATION**

DATE: September 14, 2012

TO: All Building Officials

FROM: James DiPietro 
Administrative Director

SUBJECT: **Solar Assisted Air Conditioning Systems**

At its meeting of September 13, 2012, the Board approved an interpretation of the 2010 Florida Mechanical Code, *Section 301.4 - Listed and Labeled - Appliances regulated by this code shall be listed and labeled for the application in which they are installed and used, unless otherwise approved in accordance with Section 301.4.1.* The Board concurred with the Building Code Advisory Board of Palm Beach County Technical Advisory (attached) issued on 12/13/11.

The interpretation of this section was applicable to solar assisted air conditioning systems (a conventional air conditioning system with a solar 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.

Applicable Code Sections from the 2010 Florida Mechanical Code

301.4 Listed and labeled.

Appliances regulated by this code shall be *listed and labeled* for the application in which they are installed and used, unless otherwise *approved* in accordance with Section 301.4.1.

Exception: Listing and labeling of *equipment* and appliances used for refrigeration shall be in accordance with Section 1101.2.

301.4.1 Alternative materials, methods, equipment and appliances.

The provisions of this code are not intended to prevent the installation of any material or to prohibit any method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material or method of construction shall be approved where the code official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

301.5 Labeling.

Labeling shall be in accordance with the procedures set forth in Sections 301.5.1 through 301.5.2.3.

EFFECTIVE DATE: SEPTEMBER 14, 2012

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

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Board Attorney
Russell White, Esq.

Board Administrative Director
James DiPietro

—ESTABLISHED 1971—

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 Conditioning 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.

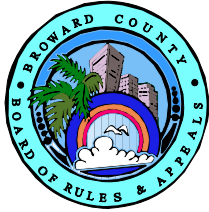
It is the duty and the responsibility of the building official to ensure that products are properly installed in accordance with the manufacturer's instructions, certifications, and their listings. Installation of a system, that is not in compliance with listing and installation standards can lead to 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


Jack Tomask, 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 government's 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 health, safety and general welfare.

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BROWARD COUNTY
BOARD OF RULES AND APPEALS
2010 FBC FORMAL
INTERPRETATION

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www.broward.org/codeappeals

DATE: January 10, 2014

TO: All Building Officials

FROM: James DiPietro

Administrative Director

SUBJECT: Residential Clothes Washing Machines Drains.

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Architect

Board Attorney
Russell White, Esq.

Board Administrative Director
James DiPietro

—ESTABLISHED 1971—

At its regular meeting of January 9, 2014, the Board of Rules and Appeals approved an interpretation of the Florida Building Code – Residential Section P2918.1

The interpretation is to clarify the use of a minimum 2 inch sanitary piping to drain clothes washing machines. The FBC Residential Section P2918.1 is silent on the issue. The Board agrees with Building Officials Association on Florida Informal Interpretations s 4939 and 6501.

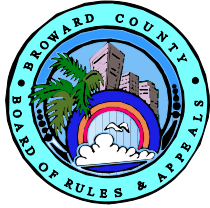
Formal Interpretation:

FBC Residential Section P2918.1: The automatic clothes washing machine fixture drain shall connect to a branch drain or drainage stack a minimum of 2 inches in diameter.

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

Effective Date: January 10, 2014

Page 1 of 1



BROWARD COUNTY BOARD OF RULES AND APPEALS

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2010 FBC FORMAL INTERPRETATION

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Architect

Board Attorney
Russell White, Esq.

Board Administrative Director
James DiPietro

—ESTABLISHED 1971—

DATE: January 10, 2014

TO: All Building Officials

FROM: James DiPietro 
Administrative Director

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

At its regular meeting of January 9, 2014, 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.

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

Effective Date: January 10, 2014

Page 1 of 1

F.I #9

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