

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

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

www.broward.org/codeappeals

Chair

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

Vice-Chair

Mr. Kenneth B. Wynn

2017 Voting Members

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

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-

BROWARD COUNTY BOARD OF RULES AND APPEALS

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

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****

Page 1 of 1 F.I #1

g:\shared\formal interpretations\2017 - 6th edition\original documents\fi #1 6th edition - materials exposed within