



**GOVERNMENT OF THE DISTRICT OF COLUMBIA
CONSTRUCTION CODES COORDINATING BOARD**
c/o DCRA– 1100 4th Street SW, Washington, DC 20024

CODE CHANGE PROPOSAL FORM

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CODE: IgCC **SECTION NO.** 606.3 **SUBCOMMITTEE AMENDMENT NO.** GC-G-6-29-13

PROPOSING SUBCOMMITTEE: Green

CHAIR: Updike **PHONE:** 202-535-1337 **E-mail:** William.updike@gc.gov

DATES OF PROPOSAL: 6/14/12 **CCCB PRESENTATION:** **CCCB APPROVAL:** 7/26/12

CHECK ONE *Revise section to read as follows:* *Delete section and substitute the following:*
 Add new section to read as follows: *Delete section without substitution.*

TYPE ALL TEXT IN 12-POINT TIMES NEW ROMAN FONT
~~LINE THROUGH TEXT TO BE DELETED~~ *-(highlight text, under Format, click font and check strikethrough)*
UNDERLINE TEXT TO BE ADDED
 Use additional sheets of the form, if necessary.

See attached page.

Anticipated impact of code change on cost of construction (CHECK ONE)
 Increase *Decrease* *Negligible* *Unknown*

Per 1,000 SF single-family dwelling NA to NA
Per 1,000SF of commercial building to see below

- JUSTIFICATION OF CHANGE:**
 Please reference one or more of the criteria required
- To address a critical life/safety, health, general welfare need.
 - To address a specific District of Columbia policy or statute
 - For consistency with federal, or with reference to the Metro DC area (MD, VA) codes
 - Address a unique character issue in the District of Columbia
 - Correction of errors and omissions
 - Other (explain)

The TAG thought that the exceptions provided for in 2012 IECC are worthwhile and should be left in place. The duct insulation, sealing and testing referred to in this section is standard best practice in the field. In fact, the 25% testing threshold required in the IgCC is generally less than what is done as best practice according to the engineering firms represented on the TAG.



Strike Section 606.3 of the International Green Construction Code in its entirety and insert new Section 606.3 in the Green Construction Code as follows.

606.3 Duct and plenum insulation, sealing and testing.

Supply and return air ducts and plenums, air handlers and filter boxes shall be insulated and sealed in accordance with Section C403.2.7.1.1 of the IECC. ~~The exception in Section C403.2.7.1.1 shall not apply.~~

606.3.1 Duct air leakage testing. Ductwork that is designed to operate at static pressures greater than 3 inches water column and all ductwork located outdoors shall be leak-tested in accordance with the SMACNA *HVAC Air Duct Leakage Test Manual*. Representative sections totaling not less than 25 percent of the total installed duct area for the designated pressure class shall be tested. Positive pressure testing is acceptable for negative pressure ductwork. Duct systems with pressure ratings in excess of 3 inches water column shall be identified on the construction documents. Duct leakage shall not exceed the rate determined in accordance with Equation 6-3.

$$F = CLP^{0.65} \qquad \text{(Equation 6-3)}$$

Where:

F = maximum leakage in cfm/100 ft² duct surface area;
CL = 4, duct leakage class, cfm/100 ft² at 1 inch water column.

P = test pressure, which shall be equal to the design duct pressure class rating inches of water column.