**Code Amendment Proposal Form** For public amendments proposed to the 2018 editions of the International Codes

**Instructions:** Upload this form and all accompanying documentation at www.denvergov.org/BuildingCode. If you are submitting your proposal on a separate sheet, make sure it includes all information requested below.

All proposals must be received by **April 26, 2019**.

**CONTACT INFORMATION**

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Signature: 

Name: Miles Dake Date: 5/9/2018 Phone: 720-583-4735 E-mail: miles.d@branchpattern.com Organization: BranchPattern

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**AMENDMENT PROPOSAL**

Please use a separate form for each proposal.

1) Code(s) associated with this proposal. Please use acronym: IECC

   If you submitted a separate coordination change to another code, please indicate which code:

   **Acronym Code Name**
   - IEC Denver Building Code–xxxx (code) amendments (e.g., DBC-IBC, DBC-IEBC)
   - IEC International Existing Building Code
   - IGCC International Energy Conservation Code
   - IFC International Fire Code
   - IFGC International Fuel Gas Code

2) Please check here if a separate graphic file is provided: ☐ Graphics may also be embedded within your proposal below.

3) Use this template to submit your proposal or attach a separate file, but please include all items requested below in your
Code Sections/Tables/Figures Proposed for Revision:
New Section Note: If the proposal is for a new section, indicate (new).

Proposal:

C402.5.2.1 For each separate building component, calculate the allowable building leakage and indicate the results on the construction documents, using the allowable leakage in 402.5.1.2.2 and Table C402.5.2. with a table similar to the example below. Additionally, calculate the building leakage by each unit providing ventilation to an area to ensure adequate pressurization by each ventilation unit. Include area of assemblies served by each ventilation unit in additional sub category table(s) to calculate total leakage airflow in each sub area.

Note: Show the proposal using strikeout, underline format. At the start of each section, give one of the following instructions:

- Revise as follows:
- Add new text as follows:
- Delete and substitute as follows:
- Delete without substitution:

Supporting Information:

Calculating targeted building leakage is very important for proper building design, provides targets for testing and to determine if corrective action needs to be taken. Analysis prior to construction is required for existing buildings to establish a baseline.

Require Leakage Calculations on the plans similar to ventilation calculations. There are maximum leakage requirements in
Table C402.5.2 and Section C402.5.1.2.2. It would be simple to use those values and require the leakage rates be published on the construction documents so there is a benchmark for envelope testing and building pressurization design requirements. It could even be incorporated into ComCheck. Additionally, it is important to break out by ventilation unit zone as well to ensure the outside air will provide adequate pressurization.

This works hand in hand with the NBI proposal to test more buildings.

Substantiation: The author has been involved with some very leaky buildings, and often the design community does not have a fee for the target leakage of a building. Bibliography: None

**Note:** This section MUST include these items:

- **Purpose:** State the purpose of the proposed amendment to physical, environmental and customary characteristics that are specific to the City and County of Denver (e.g., clarify the code; revise outdated material; substitute new or revised material for physical, environmental and customary characteristics; add new requirements to the code; delete current requirements, etc. to reflect physical, environmental and customary characteristics that are specific to the City and County of Denver).

- **Reasons:** Clearly justify the change to current code provisions, stating why the proposal is necessary to reflect physical, environmental and customary characteristics that are specific to the City and County of Denver. Proposals that add or delete requirements shall be supported by a logical explanation that clearly shows why the current code does not reflect physical, environmental and customary characteristics that are specific to the City and County of Denver and explains how such proposal will improve the code.

- **Substantiation:** Substantiate the proposed amendment based on technical information and substantiation. Substantiation provided which is reviewed and determined as not germane to the technical issues addressed in the proposed amendment shall be identified as such.

- **Bibliography:** Include a bibliography when substantiating material is associated with the amendment proposal. The proponent shall make the substantiating materials available for review.

**Referenced Standards:**

**Note:** List any new referenced standards that are proposed to be referenced in the code.

**Impact:**

**Note:** Discuss the impact of this proposal in this section AND indicate the impact of this amendment proposal for each of the following:

- The effect of the proposal on the cost of construction: ☐ Increase ☒ Reduce ☐ No Effect
- The effect of the proposal on the cost of design: ☒ Increase ☐ Reduce ☐ No Effect
- Is the proposal more or less restrictive than the I-codes: ☐ More ☐ Less ☒ Same

**Departmental Impact:** (To be filled out by CPD staff)

**Note:** CITY STAFF ONLY. Discuss the impact of this proposal in this section AND indicate the impact of this amendment proposal for each of the following:
• The effect of the proposal on the cost of review: □ Increase □ Reduce □ No Effect
• The effect of the proposal on the cost of enforcement/inspection: □ Increase □ Reduce □ No Effect