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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Organization: City and County of Denver

I, Eric D. Browning, hereby grant and assign to City and County of Denver all rights in copyright I may have in any authorship contributions I make to City and County of Denver in connection with this proposal. I understand that I will have no rights in any City and County of Denver publications that use such contributions in the form submitted by me or another similar form and certify that such contributions are not protected by the copyright of any other person or entity.

Signature: Eric D. Browning

AMENDMENT PROPOSAL

Please use a separate form for each proposal.

1) Code(s) associated with this proposal. Please use acronym: DBC – IBC 1503.2.2

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

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Code Name</th>
<th>Acronym</th>
<th>Code Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBC-xxxx</td>
<td>Denver Building Code–xxxx (code) amendments (e.g., DBC-IBC, DBC-IEBC)</td>
<td>IFGC</td>
<td>International Fuel Gas Code</td>
</tr>
<tr>
<td>IEBC</td>
<td>International Existing Building Code</td>
<td>IMC</td>
<td>International Mechanical Code</td>
</tr>
<tr>
<td>IECC</td>
<td>International Energy Conservation Code</td>
<td>IPC</td>
<td>International Plumbing Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IFC</td>
<td>International Residential Code</td>
</tr>
</tbody>
</table>

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 proposal. The only formatting needed is BOLDING, STRIKEOUT AND UNDERLINING. Please do not provide additional formatting such as tabs, columns, etc., as this will be done by CPD.

Code Sections/Tables/Figures Proposed for Revision:
DBC-IBC 1503.2.2

Note: If the proposal is for a new section, indicate (new).

Proposal:

Add new text to the existing Denver Building Code amendment language by adding clarification for the 8-inch requirement and adding the exception for small units.

SECTION 1503 WEATHER PROTECTION
Section 1503.2.2 Mechanical equipment on roof is added:

1503.2.2 Mechanical equipment on roof. Mechanical equipment placed or reset on roofing shall be supported on 8-inch curbs, platforms, or legs bearing on the decking which shall be flashed to the roofing and made watertight. The 8-inch raised height shall be measured from the top of the installed roofing assembly to the top of the curbs, platforms, or legs.

Exception: Individual equipment units with a weight of 400 pounds or less may be supported on 8-inch legs bearing on the roof membrane if vibration isolation bearing pads are provided between the bearing points and the roof and the roof warranty is not affected by the installation of the units on the roof membrane. All methods must be meet manufacturers requirements and recommendations for the application being proposed.

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:

Small equipment units such as that shown in Figure 1 are commonly used on multi-family residential buildings; often resulting in hundreds of units on the rooftops. The current Denver Building Code Amendment would require every leg to penetrate the roof membrane and bear on the decking, creating hundreds of points of potential failure at the penetrations. The amendment proposal adds an exception so that small, lightweight units can bear directly on the roof membrane if such installation does not affect the roof warranty and when such installations are also in accordance with the manufacturer’s installation requirements. This common-sense approach allows for roof maintenance and future re-roofing without having to uninstall every unit where the legs penetrate the membrane. The maximum weight limit is established based on the likely application of rigid foam insulation below the membrane and accounts for a minimum of 10 psi compression strength, which is easily attainable with any XPS, Polysocyanurate, or EPS ‘board’ below the membrane. The requirement for “vibration isolation bearing pads” is included for two reasons: One, so that the units do not “walk” across the membrane – compromising the membrane, electrical whip, and refrigerant line sets; and two, so that an additional layer of protection is provided between the bottom of the “foot” and the roof membrane.

![Figure 1 - Small Equipment Unit on Legs with Vibration Isolation Bearing Pads](image)

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