1) Name: David Renn, PE, SE  Date: 2/21/2019

2) Proposals should be drafted in Word with the only formatting that is needed being BOLDING, STRIKEOUT AND UNDERLINING. Please do not provide additional formatting such as tabs, columns, etc.

Please use a separate form for each proposal submitted.

Is separate graphic file provided?  ☒ Yes  ☐ No

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Code Name</th>
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<tbody>
<tr>
<td>DBC-IBC</td>
<td>Denver Building Code–IBC base</td>
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<tr>
<td>DBC-IEBC</td>
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<td>Denver Building Code– xxx code base</td>
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<tr>
<td>IBC</td>
<td>International Building Code</td>
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<tr>
<td>IECC</td>
<td>International Energy Conservation Code</td>
</tr>
</tbody>
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**AMENDMENT PROPOSAL**

Please provide all of the following items in your amendment proposal.

**Code Sections/Tables/Figures Proposed for Revision:**
DBC-IBC 705.2

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

**Proposal:**

Revise as follows

**Section 705.2** Projections is amended by replacing replaced 705.2, 705.2.1, 705.2.2 and 705.2.3 in its entirety with the following: Sections 705.2.3.1 and 705.2.4 remain without revisions.

705.2 **Projections.** Cornices, eave overhangs, exterior balconies and similar cantilevered or wall hung projections extending beyond the exterior wall floor area shall conform to the requirements of this section and Section 1405.4. Exterior egress balconies and exterior exit stairways and exterior ramps shall also comply with Sections 1021 and 1027, respectively. The distance from exterior edges of projections to the closest interior lot line or to an imaginary line between two buildings on the property shall not be less than four feet (1220 mm).

705.2.1 **Type I and II construction.** Projections from walls of Type I or II construction shall be of noncombustible materials or combustible materials as allowed by Sections 705.2.3.1, 1406.3 and 705.2.4, 1406.4.

705.2.2 **Type III, IV or V construction.** Projections from walls of Type III, IV or V construction shall be of any approved material.
705.2.3 Combustible projections. Combustible projections located where the distance from the exterior edges of projection to the closest interior lot line or to an imaginary line between two buildings on the property is less than 6 feet (1830 mm) shall be of at least 1-hour fire-resistance rated construction, heavy timber Type IV construction, complying with Section 2304.11, fire-retardant-treated wood fire-retardant treated wood or as required by Section 705.2.3.1 1406.3.

Exceptions:
Exception:
Type V construction shall be allowed for R-3 and U occupancies.

1. In buildings required by this Section to have fire resistance rated roof assemblies, vent openings in the bottom membrane of fire resistance rated roof overhangs are permitted when buildings are protected by an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.

Noncombustible projections. Nonecombustible projections shall not be required to have a fire-resistance rating.

Note: Show the proposal using strikeout, underline format. At the beginning of each section, one of the following instruction lines are also needed:
- Revise as follows
- Add new text as follows
- Delete and substitute as follows
- Delete without substitution

Supporting Information:

This proposal is the second of two options for DBC-IBC 705.2. The first and preferred option is to delete Denver’s amendments to 705.2. This second option is offered in the event the first option is not approved and is intended to carry forward Denver’s current amendments but with revisions to better align with the 2018 IBC code language and to delete unnecessary amendments. The proposed revisions are justified as follows:

- Scope of amendment is revised to specifically replace certain sections and subsections of 705.2 instead of replacing 705.2 in its entirety. This is needed since 705.2 now includes 705.2.3.1 (Balconies and similar projections) and 705.2.4 (Bay and oriel windows) that have been relocated from Chapter 14. These two sections are indicated to remain without revisions.
- Sections references are updated to align with new section numbers of the 2018 IBC.
- Defined terms are changed to be in italics which indicates that the definitions in IBC Chapter 2 apply. This is simply a cleanup of the current amendment that should have used italics for these terms.
- In the first sentence of 705.2, “floor area” is revised to “exterior wall” to match wording in the 2018 IBC. The term “floor area” has been carried over from previous codes and matched the wording in the 2000, 2003 and 2006 IBC’s. However, per code change proposal FS14-07/08, this term changed to “exterior wall” in the 2009 IBC since “floor area” is measured to the inside perimeter of the exterior walls which meant projections start at the inside of the wall and include the exterior wall, which was confusing and incorrect. Also note that “floor area” is no longer a defined term in the IBC and has been changed “building area”, which creates more confusion with the current wording in Denver’s amendment.
- Wording in the second sentence of 705.2 is revised to match wording the 2018 IBC, with no technical change.
- In 705.2.3, “Type IV construction” is revised to “heavy timber construction, complying with Section 2304.11” to match wording in the 2018 IBC. This is technically correct term to use since a projection cannot comply with all of the requirements for Type IV construction – only compliance with heavy timber requirements is needed.
- Exception 2 is proposed to be deleted from 705.2.3. This exception states that vent openings are allowed in the bottom membrane of fire-resistance rated roof overhangs (when sprinklers are provided); however, there is nothing in the code that would prohibit these openings to begin with, so the exception is not needed. To further clarify, there is an option for 1-hour fire-resistance rated “construction” and the term “construction” is meant to only apply to the structure of the projections and there are no requirements for openings. If openings were intended to be regulated, the term “horizontal assembly” would have been used instead of “construction”, which would have imposed the horizontal assembly opening requirements from IBC 711.2.2.
DBC-IBC 705.2.4 Noncombustible projections is proposed to be deleted. This section is simply a clarification that noncombustible projections are not required to have a fire-resistance rating. IBC Table 601 does not list projections as a building element that requires a fire-resistance rating so an amendment to specifically state this is unnecessary.


Note: The following items are required to be included:
Purpose: The proponent shall clearly 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.)
Reasons: The proponent shall justify changing the 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 which clearly shows why the current does not reflect physical, environmental and customary characteristics that are specific to the City and County of Denver and explains how such proposals will improve the Code.
Substantiation: The proponent shall 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 (as needed): The proponent shall submit a bibliography when substantiating material is associated with the amendment proposal. The proponent shall make the substantiating materials available for review.

Referenced Standards:

None.

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

Impact:
There is essentially no impact for this proposal since it is intended to update a current amendment to better align with the 2018 IBC with little technical change. This amendment is more restrictive than the I-codes since projections must be further from an interior lot line or imaginary line than the IBC would allow, but this is currently the case with Denver’s amendments.

Note: The proponent shall discuss the impact of the proposed amendment and indicate one of the following for each point below regarding the amendment proposal:

- The effect of the amendment proposal on the cost of construction; □ Increase □ Reduce ☒ No Effect
- The effect of the amendment proposal on the cost of design; □ Increase □ Reduce □ No Effect
- Is the amendment proposal more- or less-restrictive than the I-Codes; ☒ More □ Less □ Same

Departmental Impact:

None.

Note: The proponent shall discuss the impact of the proposed amendment and indicate one of the following for each point below regarding the amendment proposal:

- The effect of the amendment proposal on the cost of review; □ Increase □ Reduce □ No Effect
- The effect of the amendment proposal on the cost of enforcement/inspection; □ Increase □ Reduce □ No Effect