



DENVER AMENDMENT PROPOSAL FORM FOR PROPOSALS TO THE 2019 DENVER BUILDING CODE AMENDMENTS AND THE 2021 INTERNATIONAL CODES

DENVER
THE MILE HIGH CITY

2021 CODE DEVELOPMENT CYCLE

1) **Name:** John Woycheese **Date:** July 23, 2021
Email: John.Woycheese@denvergov.org **Representing (organization or self):** Organization

2) One proposal per this document is to be provided with clear and concise information.

Is a separate graphic file provided (“X” to answer): ___ Yes or X No

3) Highlight the code and acronym that applies to the proposal

<u>Acronym</u>	<u>Code Name</u>	<u>Acronym</u>	<u>Code Name</u>
DBC-AP	Denver Building Code–Administrative Provisions	IPC	International Plumbing Code
IBC	International Building Code	IRC	International Residential Code
IECC	International Energy Conservation Code	IFGC	International Fuel Gas Code
IEBC	International Existing Building Code	IMC	International Mechanical Code
IFC	International Fire Code	DGC	Denver Green Code

AMENDMENT PROPOSAL

Please provide all the following items in your amendment proposal.

Code Sections/Tables/Figures Proposed for Revision:

Instructions: If the proposal is for a new section, indicate (new), otherwise enter applicable code section.

907.6.4

Proposal:

Instructions: Show the proposal using ~~strikeout~~, underline format.

Place “X” next to choice that best defines your proposal: X Revision ___ New Text ___ Delete/Substitute ___ Deletion

Section 907.6.4 Zones is replaced as follows:

907.6.4 Zones. All fire alarm systems shall be divided into alarm zones. Each floor shall be zoned separately, and a zone shall not exceed 22,500 square feet (2,090 square meters). The length of any zone shall not exceed 300 ft (91.4 m) in any direction. When two or more alarm zones are provided, visible zone indication shall be provided at an *approved* location. Zones shall comply with this section unless otherwise *approved* by the *fire code official*. Trouble and supervisory signals shall be indicated in accordance with this section and NFPA 72. Annunciator panels shall comply with Section 907.6.4.1. Annunciation zones shall comply with the following:

Each building level shall be annunciated separately as follows:

1. All manual devices.
2. All automatic devices.
3. ~~Where standpipes are required in accordance with Section 905, at each~~ Each sprinkler water flow zone ~~detection device.~~
Sprinkler zones shall comply with NFPA 13.

Separate visible indication shall be provided for:

1. Main fire sprinkler flow. Individual risers in accordance with Section 903 ~~of the International Fire Code.~~
2. Each special extinguishing system
3. Each non-required system
4. Each special detection system
5. Each stairway (where detection is provided)
6. Each emergency alarm & gas detection systems in accordance with Sections 908 and 916 and Chapters 50 and 53.

7. Each elevator hoistway and machine room (separate zone indication for smoke and heat detectors as provided)
8. System trouble
9. Sprinkler control valves (supervisory only). Maximum 20 devices per zone
10. Duct detectors (supervisory only). Maximum 20 devices per zone
11. Fire pump running supervisory indication
12. Elevator shunt trip power supervisory indication
13. Radio enhancement system power supervisory indication
14. Area of rescue assistance two-way communication supervisory indication
15. Radio enhancement system malfunction supervisory indication
16. Radio communicator trouble

Supporting Information (Required):

All proposals must include a written explanation and justification as to how they address physical, environmental, and/or customary characteristics that are specific to the City and County of Denver. The following questions must be answered for a proposal to be considered.

- Purpose: What does your proposal achieve?

This proposal clarifies the maximum permitted zone size for a fire alarm system, which aligns with NFPA 72. In addition, it ensures that each sprinkler zone is annunciated, regardless of whether there is a standpipe system.

- Reason: Why is your proposal necessary?

NFPA 72 identifies the maximum zone area in the annex material (A.10.18.5), which is not enforceable. The base code had the same information about maximum zone area, but that was replaced. It is not clear that the loss of this limitation was intended.

- Substantiation: Why is your proposal valid? (i.e. technical justification)

This proposal maintains a key element of the base code, which limits the area of interest for any first responder (i.e., a fire alarm zone can't cover an entire warehouse). It also slightly increases the elements to be included on the annunciator, again in support of the initial response.

No additional restrictiveness.

Bibliography and Access to Materials (as needed when substantiating material is associated with the amendment proposal):

Other Regulations Proposed to be Affected

***For proposals to delete content from the 2019 Denver Green Code in conjunction with adding it to other mandatory Denver codes and/or regulations, only.**

Please identify which other mandatory codes or regulations are suggested to be updated (if any) to accept relocated content.

Referenced Standards:

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

Impact:

How will this proposal impact cost and restrictiveness of code? ("X" answer for each item below)

Cost of construction:	<input type="checkbox"/> Increase	<input type="checkbox"/> Decrease	<input checked="" type="checkbox"/> No Impact
Cost of design:	<input type="checkbox"/> Increase	<input type="checkbox"/> Decrease	<input checked="" type="checkbox"/> No Impact
Restrictiveness:	<input type="checkbox"/> Increase	<input type="checkbox"/> Decrease	<input checked="" type="checkbox"/> No Impact

Departmental Impact (City use only):

This amendment proposal increases/decreases/is neutral to the cost of plans review.

This amendment increases/decreases/is neutral to the cost of inspections.