



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:** Robby Schwarz **Date:** 6/11/2021
Email: robby@btankinc.com **Representing (organization or self):** Denver

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

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.

Add New Section

Equipment sizing HVAC Filtration

Proposal:

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

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

Add New underlined Section as Follows

401.7 Equipment sizing and filtration. Heating and cooling *equipment* shall be sized in accordance with ACCA Manual S based on *building* loads calculated in accordance with ACCA Manual J or other *approved* heating and cooling calculation methodologies. ACCA manual D shall be used to size and design the HVAC systems associated supply and return duct system ensuring that proper flow and pressures are maintained to accommodate a minimum MERV 13 filter installed in the system. New or replacement heating and cooling *equipment* shall be such as required by this code. ~~have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.~~

401.7.1 HAVC System Cleaning. Prior to certificate of occupancy, all dwelling units governed by the International Residential Code shall have the entirety of the HVAC system cleaned, and documentation of such cleaning shall be provided at final inspection.

Supporting Information (Required):

- Purpose: Post Covid, the purpose is to ensure health of the air circulated within the home by ensuring that Manual D calculations are performed properly so Static pressure associated with MERV 13 filters are taken into account.
- Reason: Significant efficiency is lost from a HVAC system when the static pressure across the air filter is not properly taken into account during the design process. In addition, the efficiency of the HVAC system suffers when HVAC system is operated during construction and is saturated with drywall dust and other filth during the construction process. In theory this voids the warranty but in reality systems are being delivered to the homebuyer that are filthy and underperforming. Denver's goal is not just efficiency and carbon reduction but also health and safety of the occupants of newly constructed homes. This proposal addresses both efficiency and health and safety.
- This proposal is based off of 2021 IECC Section R403.7. it specifically addresses new and replacement equipment efficiency. This section was changed as the Denver Green Code requires all electric high efficiency equipment be installed.

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: Increase ___ Decrease ___ No Impact
Cost of design: Increase ___ Decrease ___ No Impact
Restrictiveness: Increase ___ Decrease ___ 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.