



# 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:** CCD Staff **Date:** September 7, 2021  
**Email:** David.renn@denvergov.org **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
<b>IBC</b>	<b>International Building Code</b>	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:**

**IBC 713.13.1 Waste, recycling and linen chute enclosures**

**713.13.1 Waste, recycling and linen chute enclosures.** A shaft enclosure containing a recycling, or waste or linen chute shall not be used for any other purpose and shall be enclosed in accordance with Section 713.4. A shaft enclosure shall be permitted to contain recycling and waste chutes. Openings into the shaft, from access rooms and discharge rooms, shall be protected in accordance with this section and Section 716. Openings into chutes shall not be located in corridors. Doors into chutes shall be self-closing. Discharge doors shall be self-or automatic-closing upon the actuation of a smoke detector in accordance with Section 716.2.6.6, except that heat-activated closing devices shall be permitted between the shaft and the discharge room.

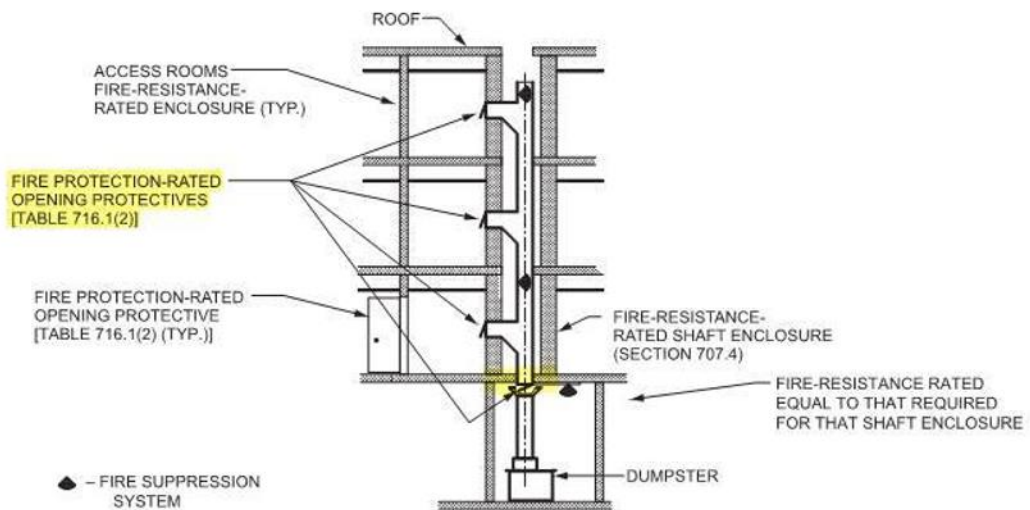
**Exception:** Where a chute extends below the bottom of the shaft and the shaft opening at the chute is not protected in accordance with this section and Section 716, the annular space between the chute and the bottom of the shaft enclosure shall be filled with an *approved* material to retard the spread of fire and hot gases.

**Supporting Information (Required):** The problem with this code section comes in at the highlighted section in the code language below. Also included is a picture from the IBC Code Commentary to show the location that we see the most issues with. Typically, we have been allowing mineral wool packed around the chute to fill the annular space instead of strict compliance with 716, which is difficult and impractical to achieve where the chute extends through the bottom enclosure to the place of discharge. In 716 it is unclear how to protect that opening when you have the chute coming through it. Something has to protect that annular space, we understand that. But the code language in 716 just doesn't tell us what we should absolutely require.

We feel that this method of filling the annular space with mineral wool or other approved materials meets the intent of the code and should be made an exception since it is what we are already allowing. Note that the discharge door of the chute in this condition would still be required to have an automatic closing or self-closing fire rated door per NFPA 82, Chapter 6, which is referenced in IBC 713.13 - IBC 713.13.1 has similar requirements. Also, waste and linen shafts must discharge into a room with a fire-resistance rating not less than required for the shaft (IBC 713.13.4), which is typically allowed as a means to protect the bottom of a shaft enclosure (IBC 713.11 Item 2).

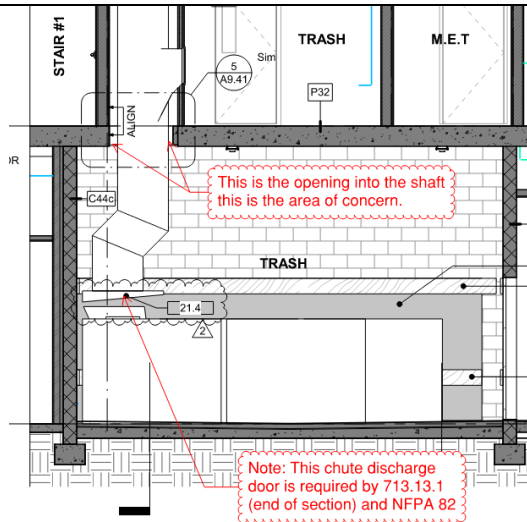
Commonly installed with opening into:

**713.13.1 Waste and linen.** A shaft enclosure containing a recycling, or waste or linen chute shall not be used for any other purpose and shall be enclosed in accordance with Section 713.4. A shaft enclosure shall be permitted to contain recycling and waste chutes. Openings into the shaft, from access rooms and discharge rooms, shall be protected in accordance with this section and Section 716. Openings into chutes shall not be located in corridors. Doors into chutes shall be self-closing. Discharge doors shall be self- or automatic-closing upon the actuation of a smoke detector in accordance with Section 716.2.6.6, except that heat-activated closing devices shall be permitted between the shaft and the discharge room.

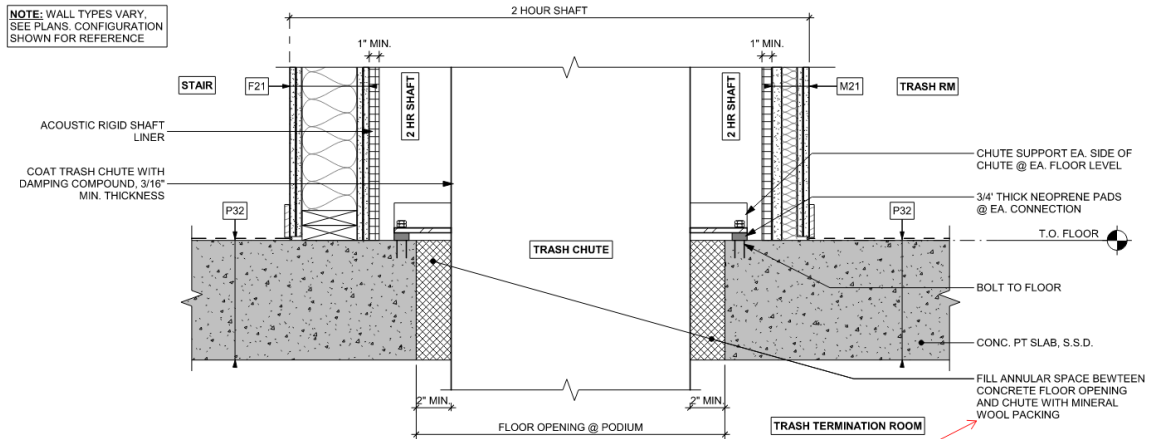


Commentary Figure 713.13.3  
REFUSE CHUTE (FIRE BARRIER OPTION)

Here are some common details that we see on plans:



**4 E/W TRASH CHUTE SECTION**  
 A7.31 SCALE: 1/4" = 1'-0"



**5 TRASH CHUTE OPENING @ CONC. FLOOR**  
 A9.41 Subtitle SCALE: 1 1/2" = 1'-0"

This is what we are proposing / allowing

**Other Regulations Proposed to be Affected**

N/A

**Referenced Standards:**

N/A

**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.

