

Welcome to the PMG Educational Program

Sponsored by:



2018 IPC, IMC, IFGC Significant Changes

Based on the

2018 International Plumbing Code[®], (IPC[®])

2018 International Mechanical Code[®], (IMC[®])

2018 International Plumbing Code[®], (IFGC[®])

Course Icons



Addition



Deletion



Modification



Clarification

2018 International Mechanical Code[®], IMC[®]

Definitions

Chapter 2

Section 202



COMMERCIAL COOKING APPLIANCE

Section 202 – 2015 IMC

COMMERCIAL COOKING APPLIANCES. Appliances used in a commercial food service establishment for heating or cooking food and which produce grease vapors, steam, fumes, smoke or odors that are required to be removed through a local exhaust ventilation system. Such appliances include deep fat fryers; upright broilers; griddles; broilers; steam-jacketed kettles; hot-top ranges; under-fired broilers (charbroilers); ovens; barbecues; rotisseries; and similar appliances. For the purpose of this definition, a food service establishment shall include any building or a portion thereof used for the preparation and serving of food.

Section 202 – 2018 IMC



COMMERCIAL COOKING APPLIANCES. Appliances used in a commercial food service establishment[®] for heating or cooking food. For the purpose of this definition, a commercial food service establishment is where food is prepared for sale or is prepared on a scale that is by volume and frequency not representative of domestic household cooking.

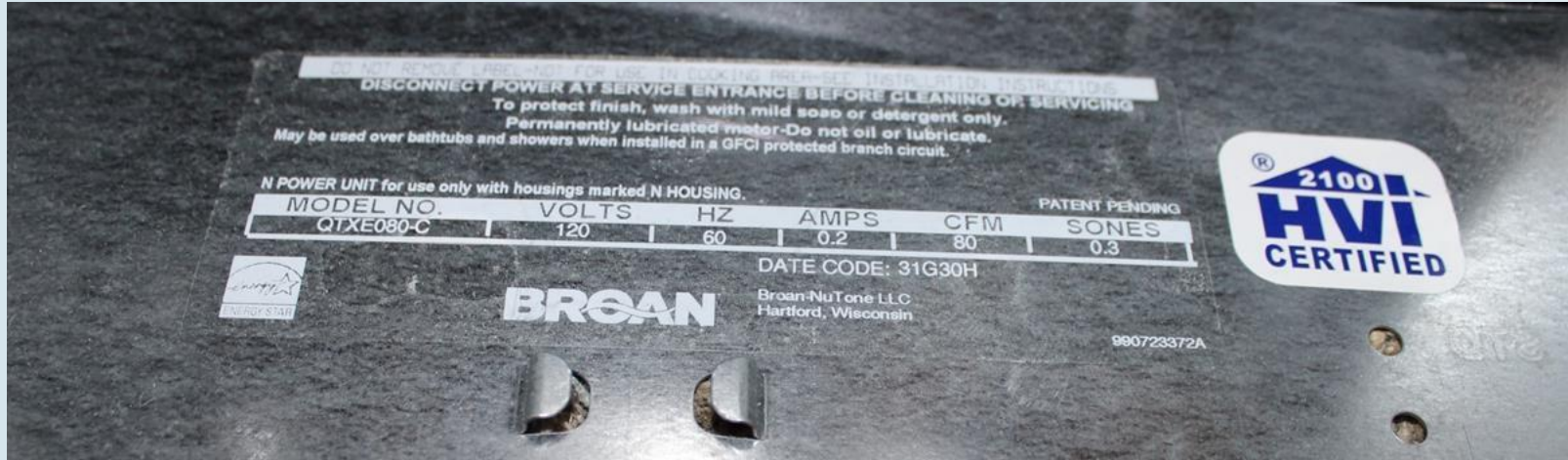
Ventilation

Chapter 4

403.3.2.4 System Controls



403.3.2.5 Ventilating Equipment



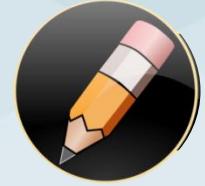
404.1 Enclosed Parking Garages



Exhaust Systems

Chapter 5

504.4 Exhaust Installation



504.4.1 Exhaust Termination Outlet and Passageway Size



Using the blower unit from an electric dryer and a Magnehelic Gauge we ran some random pressure testing on popular roof vent caps. Back pressures provided in some were equal to what three or more elbows would provide.



.21 inches of water column pressure
2 times as much as a typical elbow



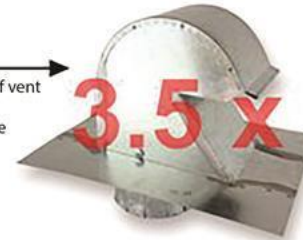
.30 inches of water column pressure
3 times as much as a typical elbow



=

Popular 4 inch wide galvanized roof vent

.35 inches of water column pressure
3.5 times as much pressure
as a typical elbow

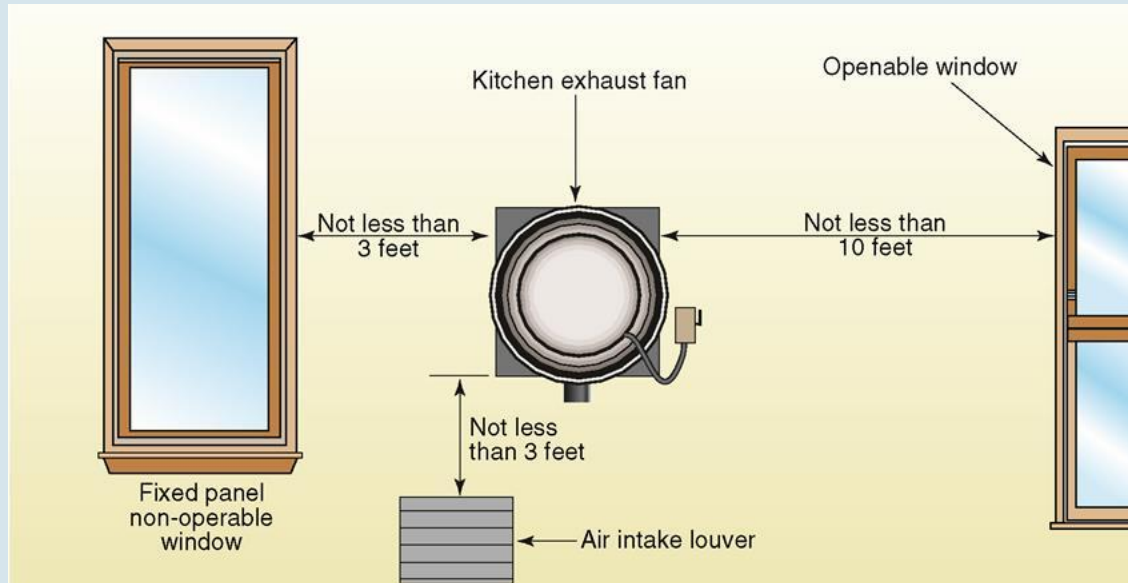


504.8.2 Duct Installation

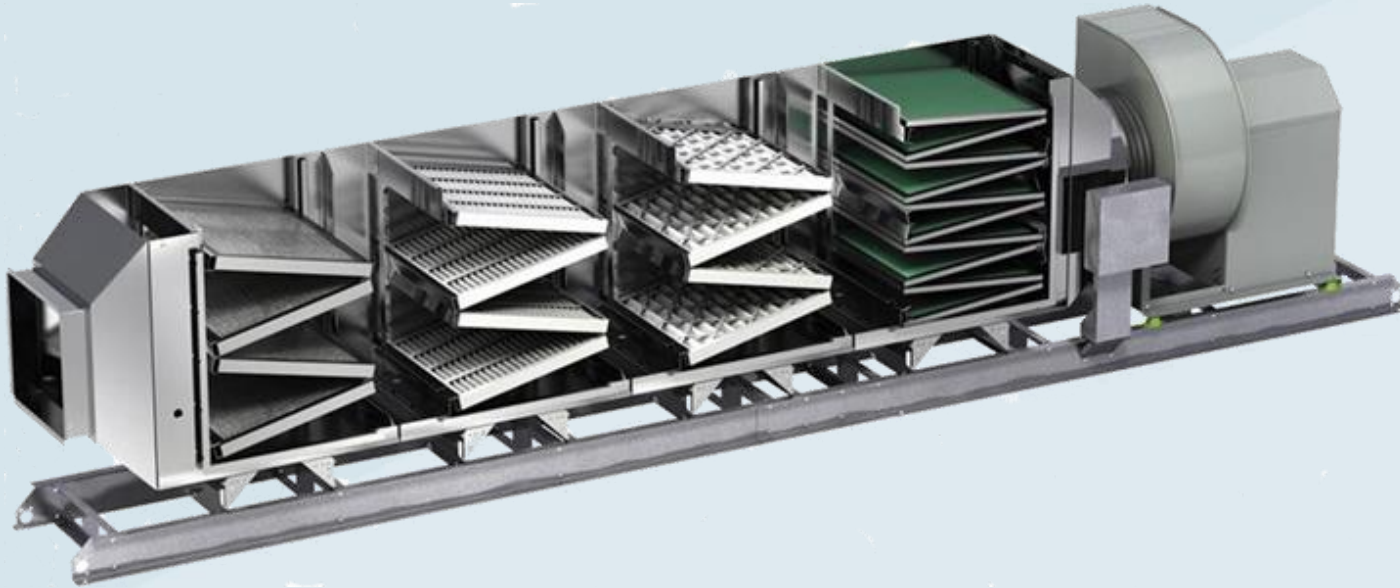


Examples of "mechanical walls" showing the abundance of utilities in this wall, demonstrating the need to provide more than 3.5"

506.3.13 Termination Through an Exterior Wall, Termination Location



506.5.2 Pollution-Control Units



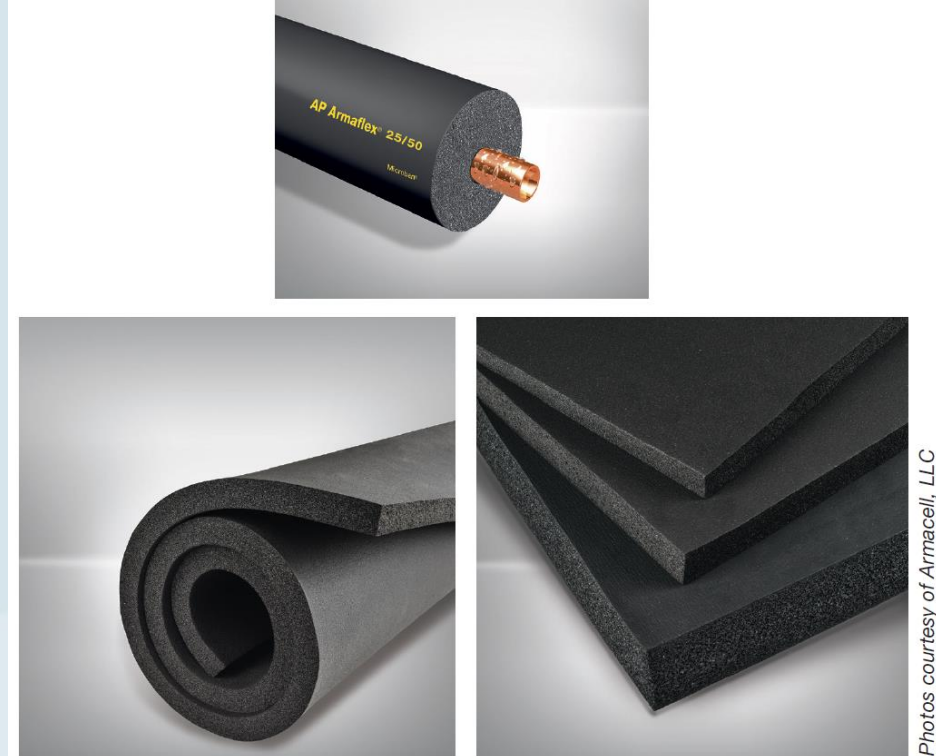
507.2.6 Clearances for Type I Hood



Duct Systems

Chapter 6

602.2.1.8 Pipe and Duct Insulation with Plenums



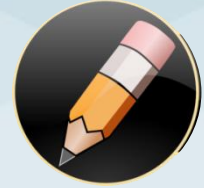
Photos courtesy of Armacell, LLC

Pipe and duct insulation for use in plenums must meet the limitations and conditions specified in Section 602.2.1.8.

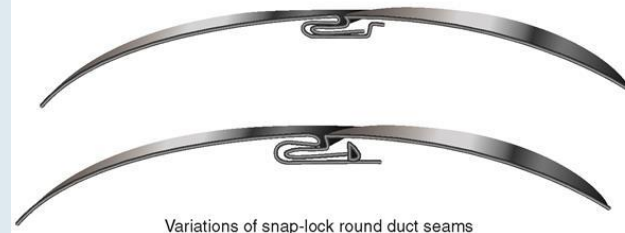
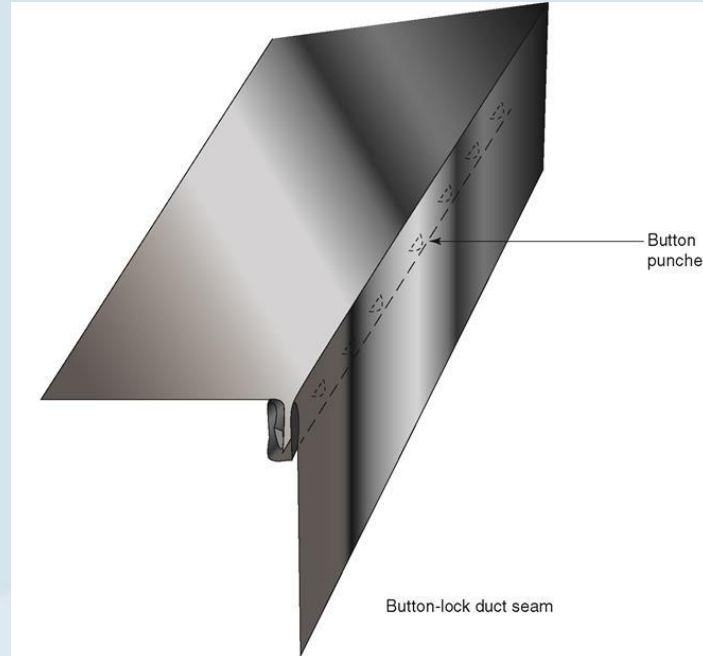
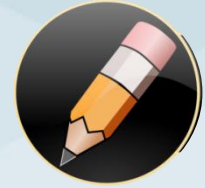
603.5.2 Phenolic ducts



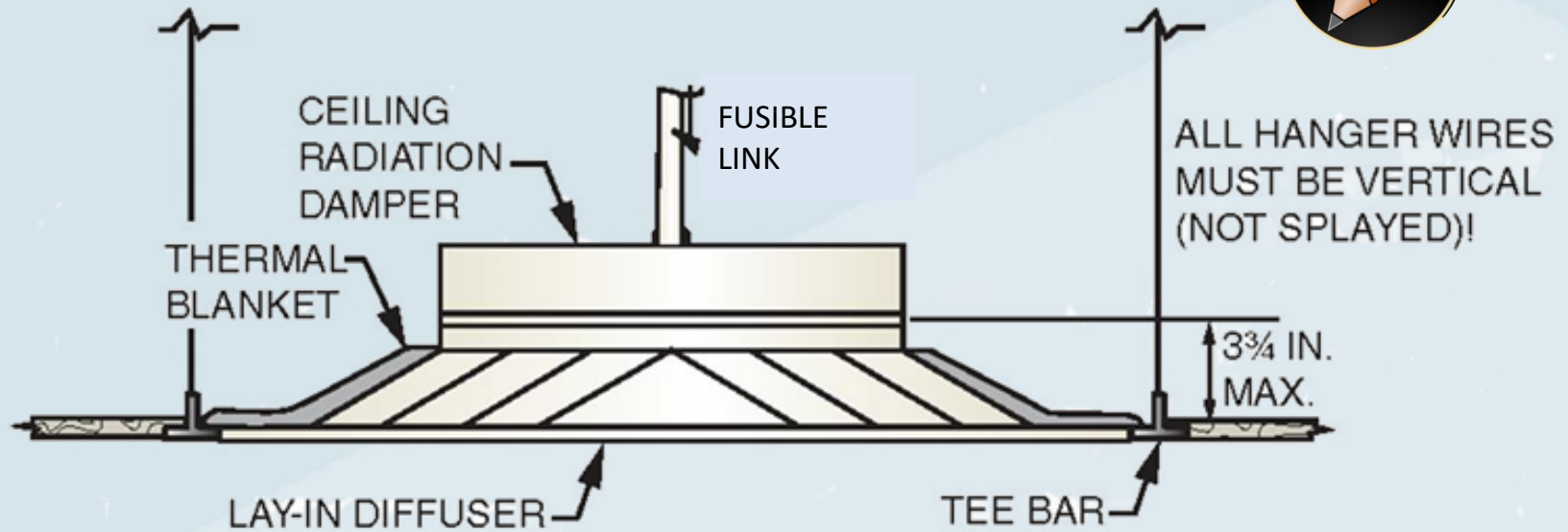
603.8.2 Sealing



603.9 Joints, Seams and Connections



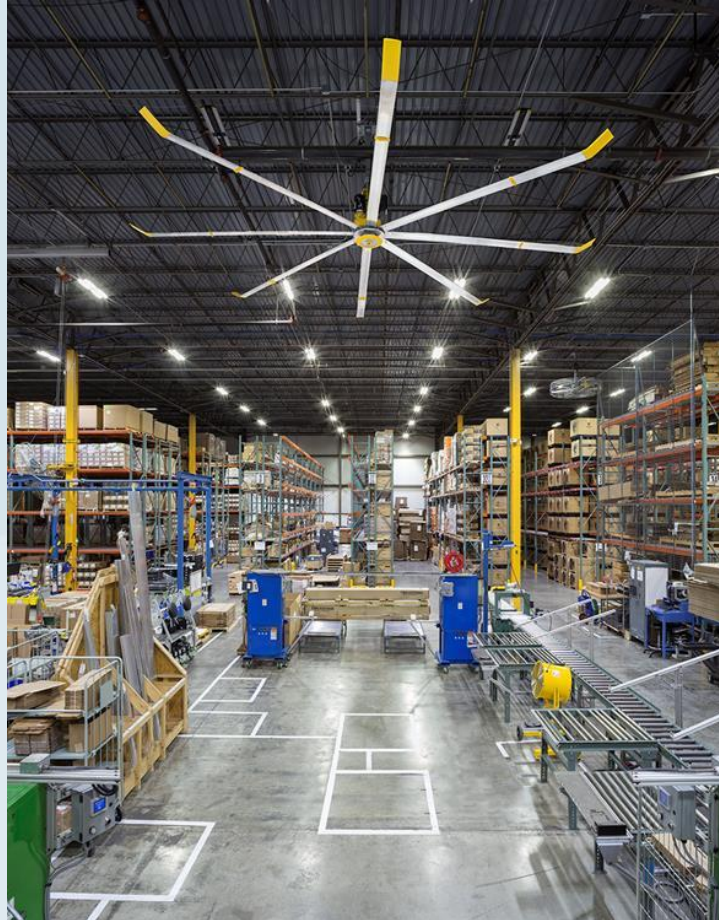
607.3.1 Damper Testing



Specific Appliances, Fireplaces and Solid- Fuel-burning Equipment

Chapter 9

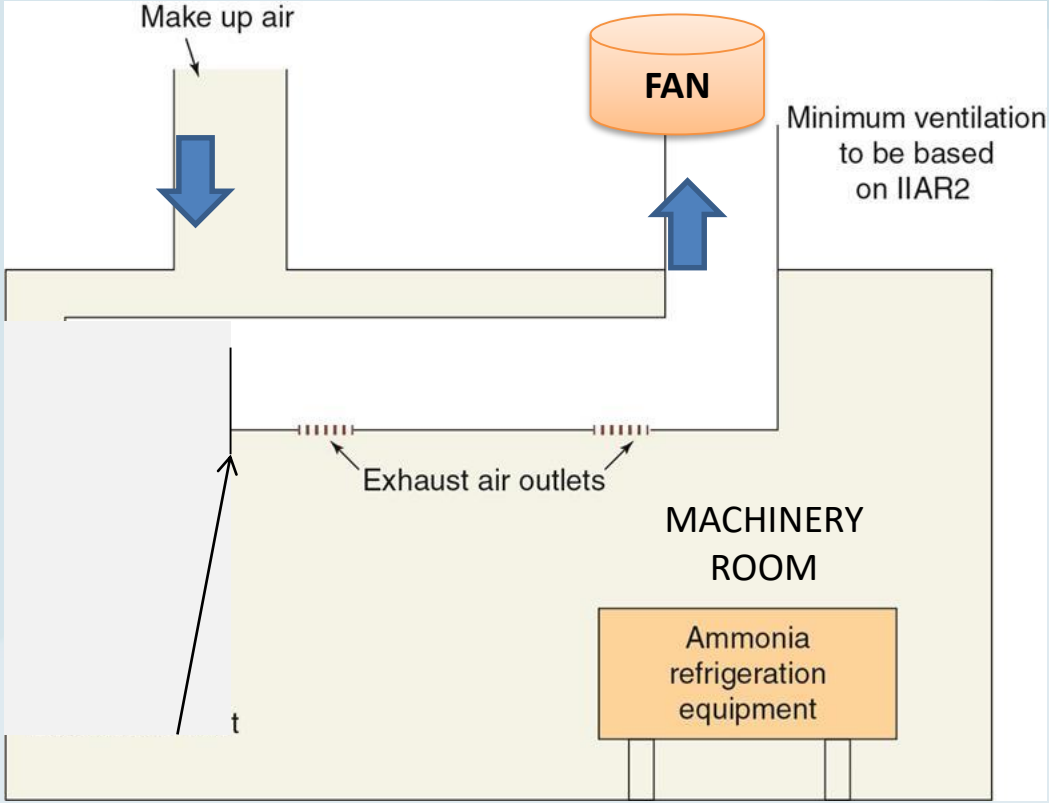
929 High-Volume Large-Diameter Fans



Refrigeration

Chapter 11

1105.6.3 Ventilation Rate



1107.2 Piping Location



Solar Thermal Systems

Chapter 14

Chapter 14 Solar Thermal Systems

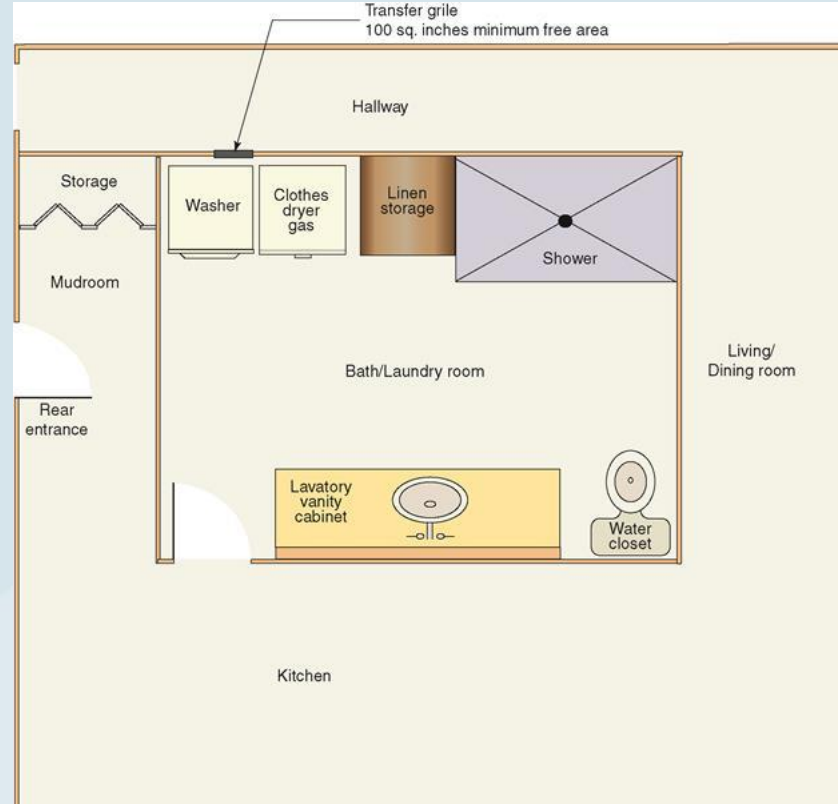


2018 International Fuel Gas Code®[®], (IFGC®[®])

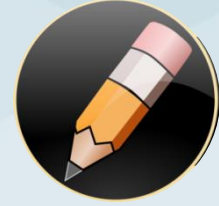
General Regulations

Chapter 3

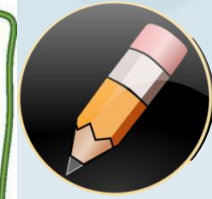
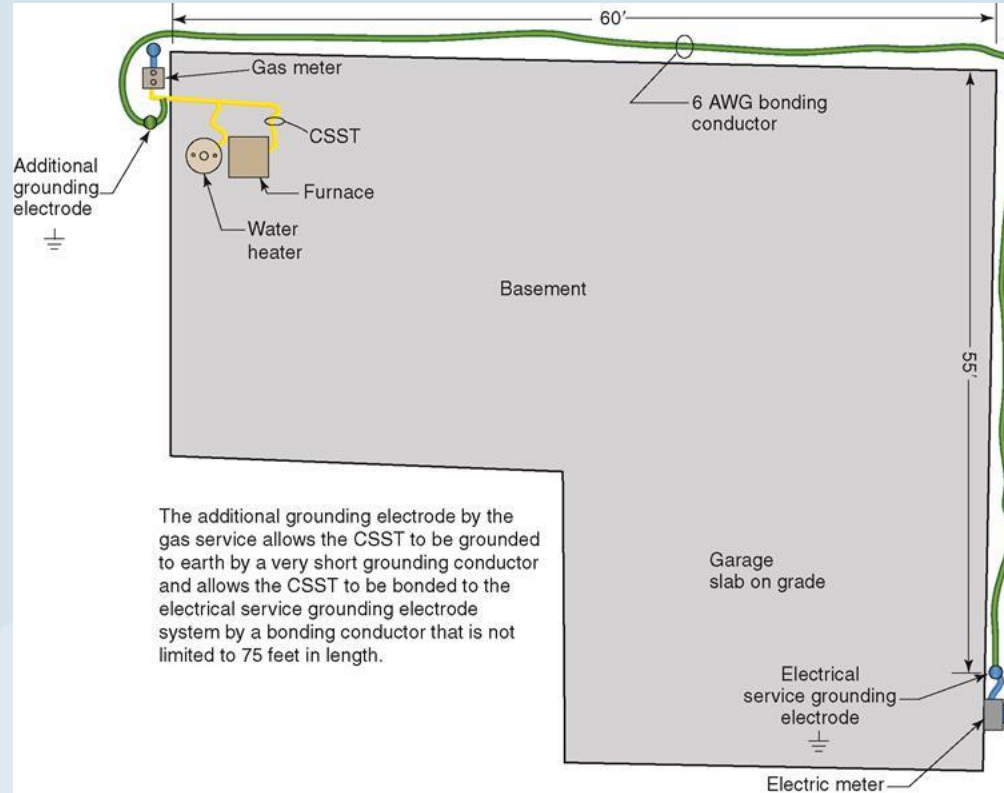
303.3 Prohibited Locations #6



310.2 CSST



310.2.3 Bonding Jumper Length



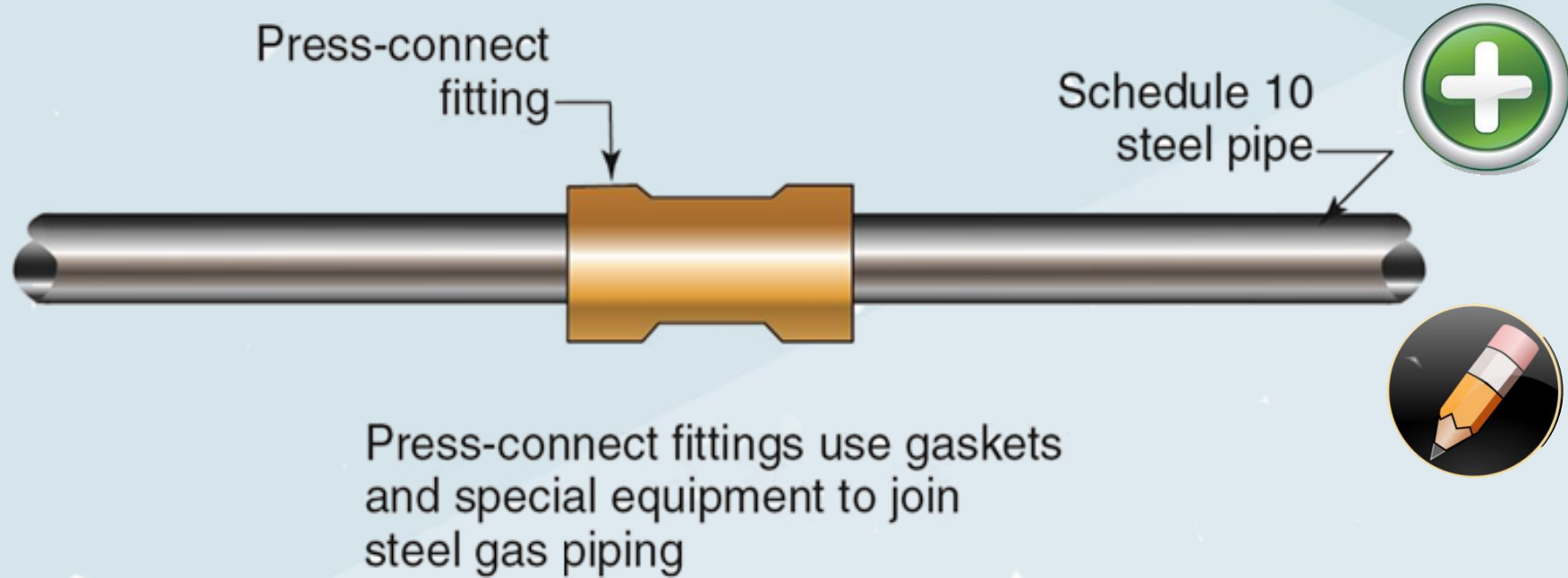
310.3 Arc-resistant CSST



Gas Piping Installations

Chapter 4

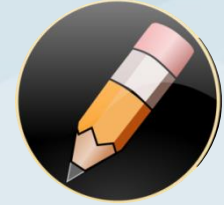
403.4.2 Steel and 403.10 Pipe Joints



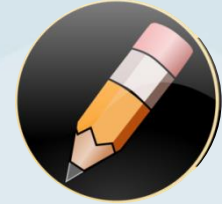
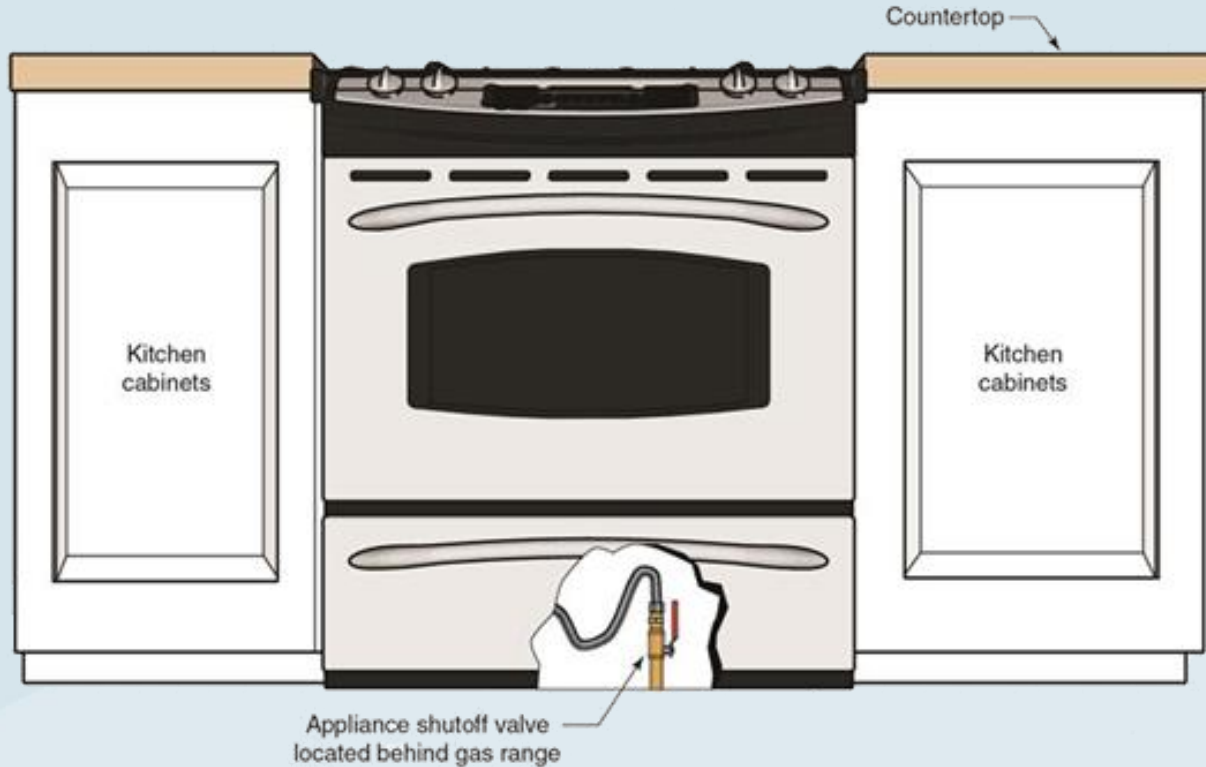
Section 404.11.1-4 Protection Against Corrosion



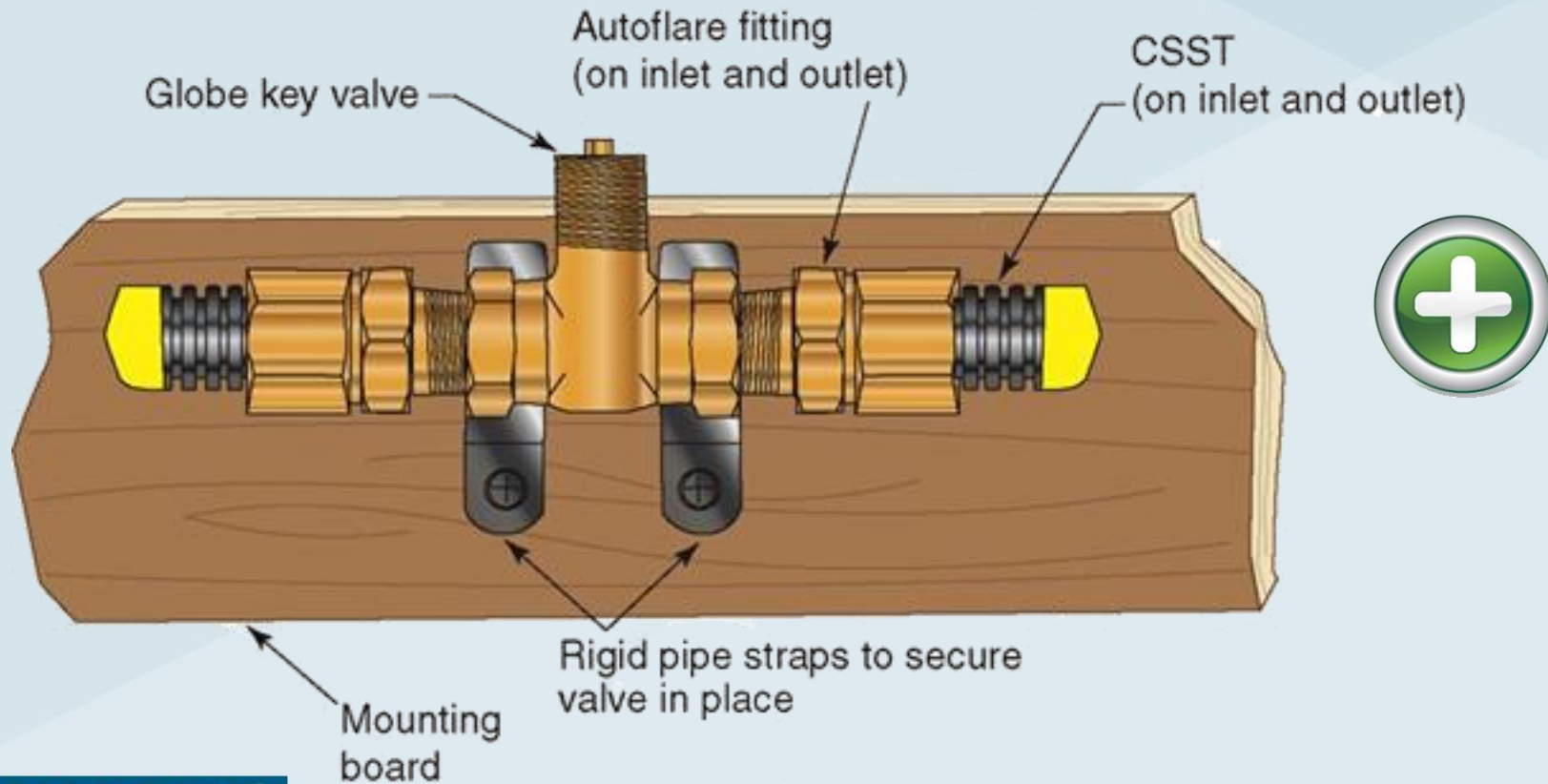
404.14 Piping Underground Beneath Buildings



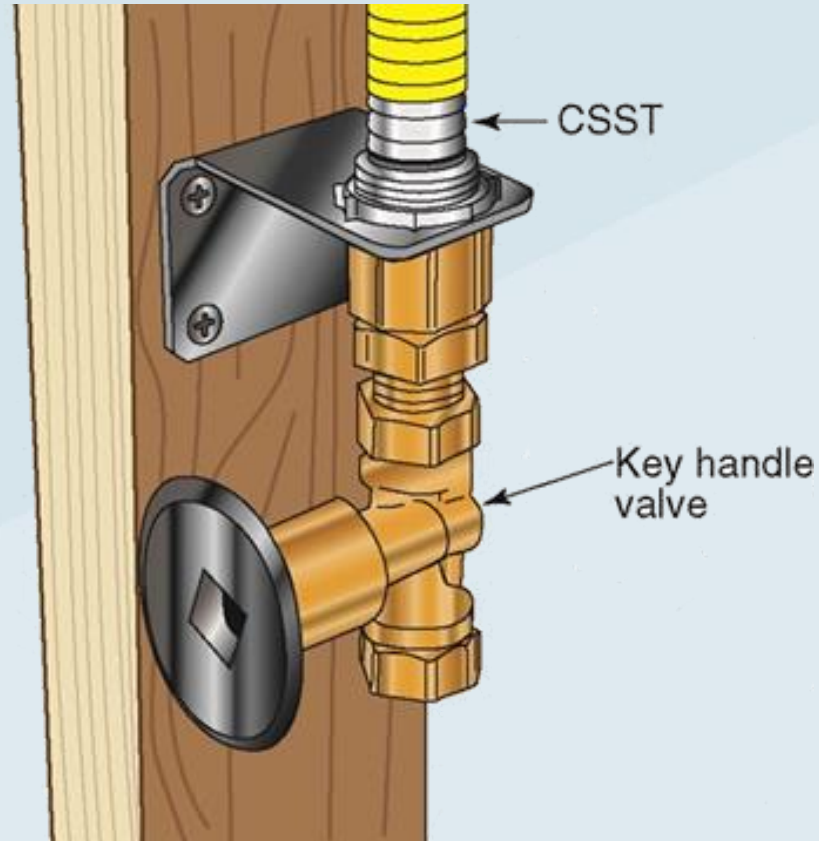
409.5.1 Located within same room



409.7 Shutoff Valves in Tubing Systems



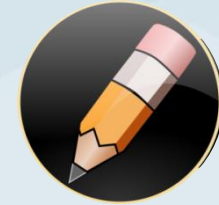
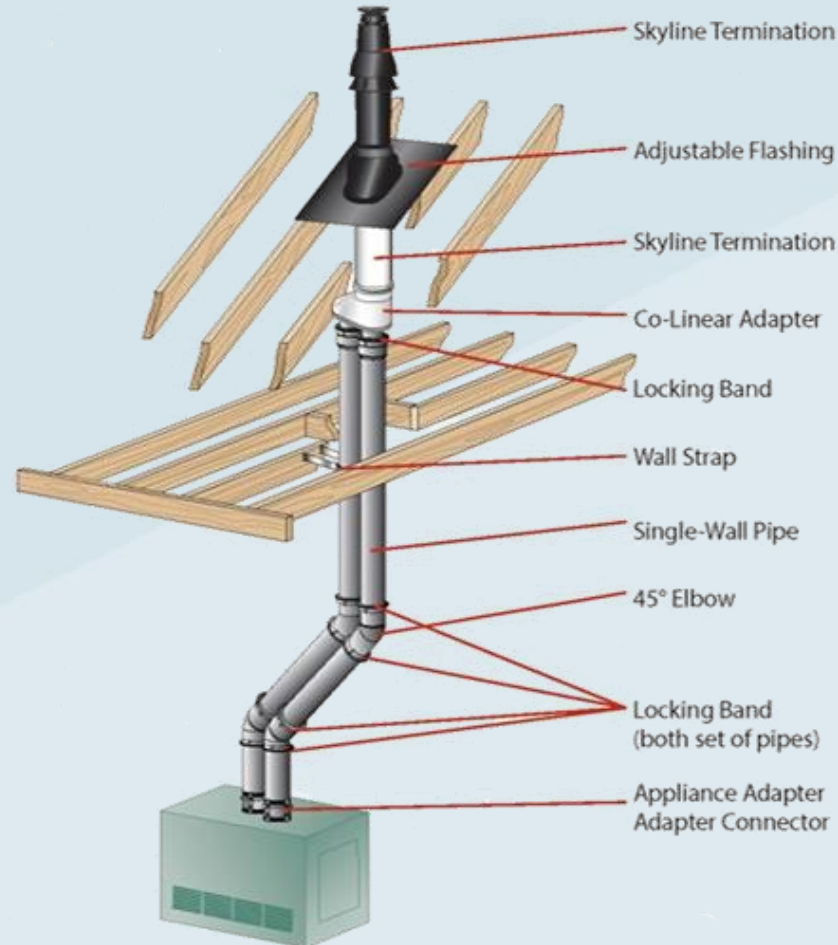
409.7 Shutoff Valves in Tubing Systems



Chimney and Vents

Chapter 5

Section 503.4.1 Plastic Piping, 503.4.1.1 Plastic Vent Joints and 503.4.2 Special Gas Vent

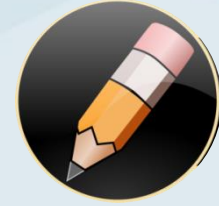


503.8 #2 and #3 and Table 503.8

**TABLE 503.8
THROUGH-THE-WALL,
DIRECT-VENT TERMINATION CLEARANCES**

DIRECT-VENT APPLIANCE INPUT RATING (Btu/hr)	THROUGH-THE-WALL VENT TERMINAL CLEARANCE FROM ANY AIR OPENING INTO THE BUILDING (inches)
< 10,000	6
≥ 10,000 ≤ 50,000	9
> 50,000 ≤ 150,000	12
> 150,000	In accordance with the appliance manufacturer's instructions and not less than the clearances specified in Section 503.8, Item 2

For SI: 1 inch = 25.4 mm, 1 Btu/h = 0.2931 W.



Discussion Activity



Final Reflection

- This slide will help the learner to reflect on the day and what they will take back to the job and apply.
- What? What happened and what was observed in the training?
- So what? What did you learn? What difference did this training make?
- Now what? How will you do things differently back on the job as a result of this training?

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