

ICC SPRING INTERCHANGE

2021 PMG Update

Based on the 2021 International Plumbing Code®, (IPC®),
2021 International Mechanical Code®, (IMC®), and
2021 International Fuel Gas Code®, (IFGC®)

IPC IMC IFGC

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2021 PMG Significant Changes

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GOAL

Identify significant changes between
the 2018 and 2021 IPC, IMC, and IFGC

Apply code requirements to design, plan
submittals and/or inspection



IPC IMC IFGC

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Objectives

- Explain the key differences between the 2018 and the 2021 Codes
- Identify changes in organization and code requirements
- Apply the codes to design, plan review, and inspection requirements

2021 PMG Significant Changes

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Informational Icons






Addition Deletion Modification Clarification



2021 PMG Significant Changes

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2021 International Plumbing Code




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Definitions

Chapter 2

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Section 202 Definition Public and Private

PUBLIC OR PUBLIC UTILIZATION. In the classification of plumbing fixtures, "public" applies to fixtures ~~in general toilet rooms of schools, gymnasiums, hotels, airports, bus and railroad stations, public buildings, bars, public comfort stations, office buildings, stadiums, stores, restaurants and other installations where a number of fixtures are installed so that their utilization is similarly unrestricted~~ with unrestricted exposure to walk-in traffic.

PRIVATE. In the classification of plumbing fixtures, "private" applies to fixtures ~~in residences and apartments, and to fixtures in nonpublic toilet rooms of hotels and motels and similar installations in buildings where the plumbing fixtures are intended for utilization by a family or an individual~~ that are not public.

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Section 202 Definition Public and Private

PUBLIC and PRIVATE

HOTEL ROOM
"PRIVATE"
PLUMBING FIXTURES

HOTEL LOBBY
"PUBLIC"
PLUMBING FIXTURES

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Section 202 Definition Water Dispenser

WATER DISPENSER. A plumbing fixture that is manually controlled by the user for the purpose of dispensing potable drinking water into a receptacle such as a cup, glass or bottle. Such fixture is connected to the potable water distribution system of the premises. ~~This definition includes a freestanding apparatus for the same purpose that is not connected to the potable water distribution system and that is supplied with potable water from a container, bottle or reservoir.~~

410.4 Substitution. Where restaurants provide drinking water in a container free of charge, drinking fountains shall not be required in those restaurants. In other occupancies where three or more drinking fountains are required, water dispensers shall be permitted to be substituted for not more than 50 percent of the required number of drinking fountains.







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General Regulations





Chapter 3

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308.2 Piping Seismic Support

308.2 Piping seismic supports. Where earthquake loads are applicable in accordance with the International Building Code, plumbing piping supports, anchorage, and bracing shall be designed and installed for the seismic forces in accordance with Chapter 16 of the International Building Code.

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Fixtures, Faucets, and Fixture Fittings

Chapter 4

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403.1.1 Fixture Calculations

403.1.1 Fixture calculations. Text remains unchanged.

Exceptions:

1. [Text unchanged.]
2. [Where multiple-user facilities are designed to serve all genders, the minimum fixture count shall be calculated 100 percent, based on total occupant load. In such multiple-user facilities, each fixture type shall be in accordance with ICC A117.1 and each urinal that is provided shall be located in a stall.](#)
3. [Distribution of the sexes is not required where single-user water closets and bathing room fixtures are provided in accordance with Section 403.1.2.](#)

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403.1.2 Fixtures in Single-user Toilet Rooms Count Towards Total Required Quantities

403.1.2 Single-user toilet facility and bathing room fixtures. The plumbing fixtures located in single-user toilet facilities and bathing rooms, including family or assisted-use toilet and bathing rooms that are required by Section 1109.2.1 of the *International Building Code*, shall contribute toward the total number of required plumbing fixtures for a building or tenant space. Single-user toilet facilities and bathing rooms, and family or assisted-use toilet rooms and bathing rooms shall be identified as being available for use either by all persons regardless of their sex.

[The total number of fixtures shall be permitted to be based on the required number of separate facilities or based on the aggregate of any combination of single-user or separate facilities.](#)

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403.2 Multiple-user Nonseparated Toilet Facilities

403.2 Separate facilities. Where plumbing fixtures are required, separate facilities shall be provided for each sex.

Exceptions:

1. through 4. remain unchanged.
5. Separate facilities shall not be required to be designated by sex where single-user toilets rooms are provided in accordance with Section 403.1.2.
6. Separate facilities shall not be required where rooms having both water closets and lavatory fixtures are designed for use by both sexes and privacy for water closets is provided in accordance with Section 405.3.4. Urinals shall be located in an area visually separated from the remainder of the facility or each urinal that is provided shall be located in a stall.

The diagram shows a floor plan of a toilet facility. It includes a row of stalls labeled 'WC'S (NOT SEX IDENTIFIED)', a row of lavatories labeled 'LAVS', and an 'ENTRY SIGN "TOILET FACILITY"'. A callout bubble shows a close-up of a toilet fixture.

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403.3.3 Group S Toilet Facility Location

403.3.3 Location of toilet facilities in occupancies other than malls. In occupancies other than covered and open mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet (152 m).

Exceptions:

1. The location and maximum distances of travel to required employee facilities in factory and industrial occupancies shall be permitted to exceed that required by this section, provided that the location and maximum distances of travel are approved.
2. The location and maximum distances of travel to required public and employee facilities in Group S occupancies shall be permitted to exceed that required by this section, provided that the location and maximum distances of travel are approved.

The diagram shows a layout for a storage facility. It includes 'SELF STORAGE UNITS' at the top, a 'SINGLE USER TOILET FACILITY' in the middle, and an 'OFFICE/SALES' area at the bottom. A 'PARKING' area is also shown. A dashed line indicates an 'UNLIMITED DISTANCE OF TRAVEL "AS APPROVED"' from the toilet facility to the storage units.

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403.3.3 Group S Toilet Facility Location

The diagram shows a layout for a storage facility. It includes 'SELF STORAGE UNITS' at the top, a 'SINGLE USER TOILET FACILITY' in the middle, and an 'OFFICE/SALES' area at the bottom. A 'PARKING' area is also shown. A dashed line indicates an 'UNLIMITED DISTANCE OF TRAVEL "AS APPROVED"' from the toilet facility to the storage units.

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403.6 Service Sink Location

403.6 Service sink location. Service sinks shall not be required to be located in individual tenant spaces in a covered mall provided that service sinks are located within a distance of travel of 300 feet (91 m) of the most remote location in the tenant space and not more than one story above or below the tenant space. Service sinks shall be located on an accessible route.

LESS THAN 300 FEET

TILET FACILITIES

SANITARY CLOSET

SERVICE SINK

EXCEEDS 300 FEET

Location of service sink

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405.4.3 Wall Hung Fixture Carrier Standard for Water Closets

405.4.3 Securing wall-hung water closet bowls. Wall-hung water closet bowls shall be supported by a concealed metal carrier that is attached to the building structural members so that strain is not transmitted to the closet fixture connector or any other part of the plumbing system. The carrier shall conform to ASME A112.6.1M or ASME A112.6.2.

Vent

Water closet carrier system

Water closet

Sealing gasket for water closet outlet

Wall framing

Wall covering

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407.2 Bathtub Waste Outlets and Overflow

407.2 Bathtub waste outlets and overflows. Bathtubs shall be equipped with a waste outlet and an overflow outlet. The outlets shall be connected to waste tubing or piping that is not less than 1½ inches (38 mm) in diameter. The waste outlet shall be equipped with a watertight stopper. Where an overflow is installed, the overflow shall be not less than 1½ inches (38 mm) in diameter.

WALL

TO VENT

TO DRAIN SYSTEM

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410.3.2 Quantities of Standing versus Wheelchair Drinking Fountains

410.3.2 More than the minimum number. Where more than the minimum number of drinking fountains specified in Section 410.3.1 is provided, 50 percent of the total number of drinking fountains provided shall comply with the requirements for persons who use a wheelchair and 50 percent of the total number of drinking fountains provided shall comply with the requirements for standing persons.

Exceptions:

- Where 50 percent of the drinking fountains yields a fraction, 50 percent shall be permitted to be rounded up or down, provided that the total number of drinking fountains complying with this section equals 100 percent of the drinking fountains.
- Where drinking fountains are primarily for children's use, drinking fountains for people using wheelchairs shall be permitted to comply with the children's provisions in ICC A117.1 and drinking fountains for standing children shall be permitted to provide the spout at 30 inches (762 mm) minimum above the floor.

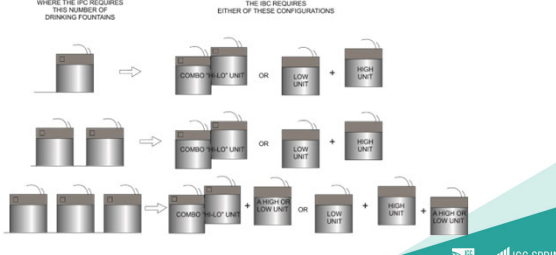


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410.3.2 High and Low Drinking Fountains

WHERE THE IBC REQUIRES THIS NUMBER OF DRINKING FOUNTAINS

THE IBC REQUIRES EITHER OF THESE CONFIGURATIONS








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410.4 Drinking Fountain Substitution using Water Dispensers

410.4 Substitution. Where restaurants provide drinking water in a container free of charge, drinking fountains shall not be required in those restaurants. In other occupancies where three or more drinking fountains are required, water dispensers shall be permitted to be substituted for not more than 50 percent of the required number of drinking fountains.






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411.3 Water Heaters for Emergency Showers and Eye Wash Stations

411.3 Water supply. Where hot and cold water is supplied to an emergency shower or eyewash station, the temperature of the water supply shall only be controlled by a temperature-actuated mixing valve complying with ASSE 1071. Where water is supplied directly to an emergency shower or eyewash station from a water heater, the water heater shall comply with ASSE 1085.




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412.3 Shower Control Valves to be Rated for the Installed Shower Head

412.3 Individual shower valves. Individual shower and tub-shower combination valves shall be balanced-pressure, thermostatic or combination balanced-pressure/thermostatic valves that conform to the requirements of ASSE 1016/ASME A112.1016/CSA B125.16 or ASME A112.18.1/CSA B125.1. Such valves shall be installed at the point of use. Shower control valves shall be rated for the flow rate of the installed shower head. Shower and tub-shower combination valves required by this section shall be equipped with a means to limit the maximum setting of the valve to 120°F (49°C), which shall be field adjusted in accordance with the manufacturer's instructions to provide water at a temperature not to exceed 120°F (49°C). In-line thermostatic valves shall not be utilized for compliance with this section.




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412.5 Methods for Limiting Water Temperature Discharged to Bathtubs

412.5 Bathtub and whirlpool bathtub valves. ~~The hot water supplied to~~ Bathtubs and whirlpool bathtub valves shall ~~be limited to not greater than~~ have or be supplied by a water-temperature-limiting device that conforms to ASSE 1070/ASME A112.1070/CSA B125.70 or by a water heater complying with ASSE 1082 or ASSE 1084, except where ~~such protection is otherwise provided by a~~ such valves are combination tub/shower valves in accordance with Section 412.3. The water-temperature-limiting device required by this section shall be equipped with a means to limit the maximum setting of the device to 120°F (49°C), and, where adjustable, shall be field adjusted in accordance with the manufacturer's instructions to provide hot water at a temperature not to exceed 120°F (49°C). Access shall be provided to water-temperature-limiting devices that conform to ASSE 1070/ASME A112.1070/CSA B125.70.



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412.10 Temperature Limitation at Head Shampoo Sinks

412.10 Head shampoo sink faucets. Head shampoo sink faucets shall be supplied with hot water that is limited to not more than 120°F (49°C) ~~by a water temperature limiting device that conforms to ASSE 1070/ASME A112.1070/CSA B125.70.~~ Each faucet shall have integral check valves to prevent crossover flow between the hot and cold water supply connections. The means for regulating the maximum temperature shall be one of the following:

1. A limiting device conforming to ASSE 1070/ASME A112.1070/CSA B125.70.
2. A water heater conforming to ASSE 1082.
3. A temperature-actuated, flow-reduction device conforming to ASSE 1062.



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421.3.1 Standard for Shower Waste Fittings

421.3.1 Waste fittings. Waste fittings shall conform to ASME A112.18.2/CSA B125.2.



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Water Supply and Distribution


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602.3.5 Potable Water Pumps to Comply with NSF

602.3.5 Pumps. Pumps shall be rated for the transport of potable water. Pumps in an individual water supply system shall be constructed and installed so as to prevent contamination from entering a potable water supply through the pump units. [Pumps intended to supply drinking water shall conform to NSF 61.](#) Pumps shall be sealed to the well casing or covered with a water-tight seal. Pumps shall be designed to maintain a prime and installed such that ready access is provided to the pump parts of the entire assembly for repairs.



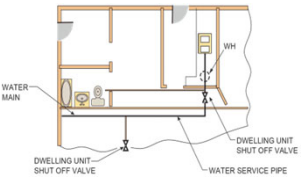
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606.1 Individual Tenant Water Shut-off Valve



606.1 Location of full-open valves. Full-open valves shall be installed in the following locations:

1. On the building water service pipe from the public water supply near the curb.
2. On the water distribution supply pipe at the entrance into the structure.

[2.1. In multiple-tenant buildings, where a common water supply piping system is installed to supply other than one- and two-family dwellings, a main shutoff valve shall be provided for each tenant.](#)

(3. through 8. remain unchanged)

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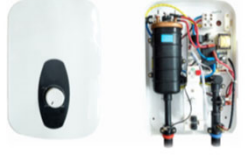
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607.1.1 Water Heaters Providing Tempered Water to Fixtures

607.1.1 Temperature limiting means. A thermostat control for a water heater shall ~~not~~ [only](#) serve as the temperature limiting means for the purposes of complying with the requirements of this code for maximum allowable hot or tempered water delivery temperature at fixtures [where the water heater complies with ASSE 1082 or ASSE 1085.](#)



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607.1.2 Tempered Water Temperature Control

607.1.2 Tempered water temperature control. Tempered water shall be ~~supplied through a water temperature controlled by one of the following:~~

1. A limiting device ~~that conforms conforming~~ to ASSE 1070/ASME A112.1070/CSA B125.70 ~~and shall limit the tempered water to not greater than and set to not greater than~~ 110°F (43°C).
2. A thermostatic mixing valve conforming to ASSE 1017.
3. A water heater conforming to ASSE 1082.
4. A water heater conforming to ASSE 1084.




This provision shall not supersede the requirement for protective shower valves in accordance with Section 412.3.

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608.15.2.1 Discharge from Backflow Preventer Relief Opening




608.15.2.1 Relief port piping. The termination of the piping from the relief port or air gap fitting of a backflow preventer shall discharge to an approved indirect waste receptor or to the outdoors where it will not cause damage or create a nuisance. ~~The indirect waste receptor and drainage piping shall be sized to drain the maximum discharge flow rate from the relief port as published by the backflow preventer manufacturer.~~

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609.2 Two Water Service Pipes for Group I-2, Condition 2 Healthcare Facilities


609.2 Water service for Group I-2, Condition 2 facilities. ~~Hospitals Group I-2, Condition 2 facilities shall have not fewer than two water service pipes installed in such a manner so as to minimize the potential for an interruption of the supply of water in the event of a water main or water service pipe failure, sized such that with the loss of the largest service pipe, the remaining service pipes will meet the water demand for the entire facility. Each water service shall have a shutoff valve in the building and a shutoff valve at the utility-provided point of connection to the water main or other source of potable water.~~

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609.2.1 Tracer Wire for Buried Nonmetallic Water Service Piping

609.2.1 Tracer wire for nonmetallic piping. An insulated tracer wire listed for the purpose or other approved conductor shall be installed adjacent to underground nonmetallic piping serving as a water service for a hospital. Access shall be provided to the tracer wire or the tracer wire shall terminate above ground at each end of the nonmetallic piping. The tracer wire size shall be not less than 18 AWG and the wire insulation type shall be suitable for direct burial.



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Sanitary Drainage

Chapter 7


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705.2.4, 705.10.4 PVC and ABS Push-fit DWV Fittings

705.2.4 Push-fit joints. Push-fit DWV fittings shall be listed and labeled to ASME A112.4.4 and shall be installed in accordance with the manufacturer's instructions.

705.10.4 Push-fit joints. Push-fit joints shall conform to ASME A112.4.4 and shall be installed in accordance with the manufacturer's instructions.




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708.1.6 Removable Fixture Traps Serving as Cleanouts

708.1.6 Cleanout equivalent. A fixture trap or a fixture with integral trap, removable without altering concealed piping, shall be acceptable as a cleanout equivalent.



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717 Methods for Restoring Building Sewer Piping

SECTION 717 RELINING BUILDING SEWERS AND BUILDING DRAINS

717.1 General. This section shall govern the relining of existing building sewers and building drainage piping.

717.2 Applicability. The relining of existing building sewers and building drainage piping shall be limited to gravity drainage piping 4 inches (102 mm) in diameter and larger. The relined piping shall be of the same nominal size as the existing piping.



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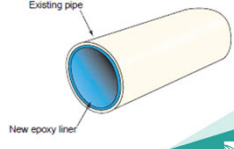
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718 Methods for Restoring Building Sewer Piping

SECTION 718 REHABILITATION OF BUILDING SEWERS AND BUILDING DRAINS

718.1 Cure-in-place. Sectional cure-in-place rehabilitation of building sewer piping and sewer service lateral piping shall be in accordance with ASTM F2599. Main and lateral cure-in-place rehabilitation of building sewer and sewer service lateral pipe and their connections to the main sewer pipe shall be in accordance with ASTM F2561. Hydrophilic rings or gaskets in cure-in-place rehabilitation of building sewer piping and sewer service laterals shall be in accordance with ASTM F3240 to ensure water tightness and elimination of ground water penetration.



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Storm Drainage

Chapter 11

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1102.6 Roof Drains to be Tested and Rated for Flow

1102.6 Roof drains. Roof drains shall conform to ASME A112.3.1 or ASME A112.6.4. [Roof drains, other than siphonic roof drains, shall be tested and rated in accordance with ASME A112.6.4 or ASPE/IAPMO Z1034.](#)

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1106.2.1 Rainfall Rate Conversion Method

1106.2.1 Rainfall rate conversion method. [The rainfall rate falling on a roof surface shall be converted to a gallon per minute \(L/m\) flow rate in accordance with Equation 11-1.](#)

$$GPM = R \times A \times 0.0104 \quad (\text{Equation 11-1})$$

where,

R = Rainfall intensity in inches per hour

A = Roof area in square feet

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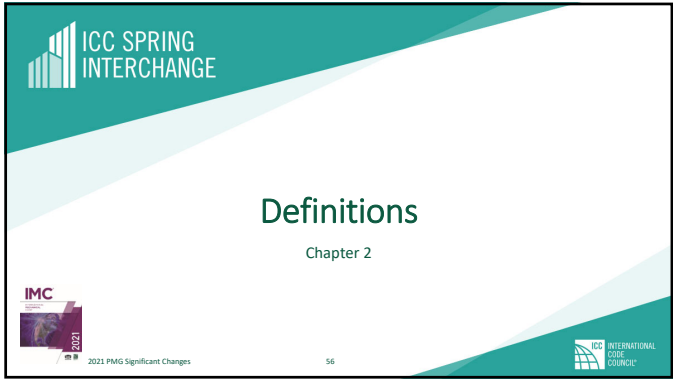
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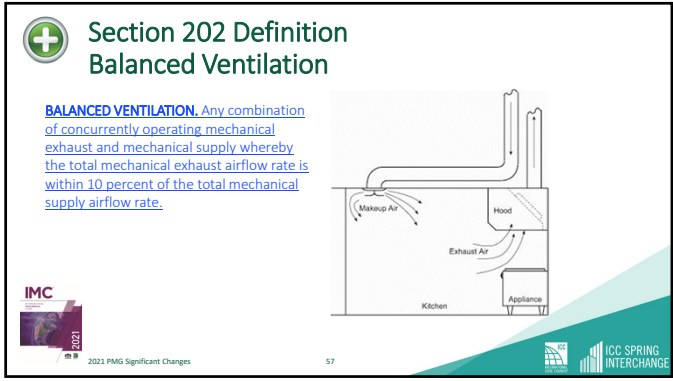
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Section 202 Definition
Unvented Alcohol Fuel Burning Decorative Appliance

UNVENTED ALCOHOL FUEL-BURNING DECORATIVE APPLIANCE. A stationary, self-contained appliance intended to be directly or indirectly secured to a wall or floor and not intended for duct connection. Such appliance burns alcohol and is made in a manufacturing facility for subsequent delivery to the installation site.



Unvented alcohol fuel-burning decorative appliance

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General Regulations
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301.18 Seismic resistance

301.18 Seismic resistance. Where earthquake loads are applicable in accordance with the International Building Code, mechanical system supports, anchorage and bracing shall be designed and installed for the seismic forces in accordance with Chapter 16 of the International Building Code.



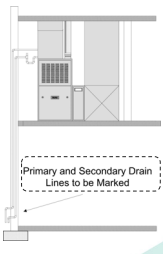
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307.1.1, 307.2.3.3 Identification

(Fuel-burning appliances) **307.1.1 Identification.** The termination of concealed condensate piping shall be marked to indicate whether the piping is connected to the primary or to the secondary drain.

(Evaporators and Cooling coils) **307.2.3.3 Identification.** The termination of concealed condensate piping shall be marked to indicate whether the piping is connected to the primary or to the secondary drain.

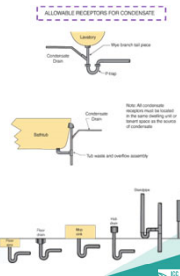


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307.2.1.1 Condensate Discharge

307.2.1.1 Condensate discharge. Condensate drains shall not directly connect to any plumbing drain, waste or vent pipe. Condensate drains shall not discharge into a plumbing fixture other than a floor sink, floor drain, trench drain, mop sink, hub drain, standpipe, utility sink or laundry sink. Condensate drain connections to a lavatory wye branch tailpiece or to a bathtub overflow pipe shall not be considered as discharging to a plumbing fixture. Except where discharging to grade outdoors, the point of discharge of condensate drains shall be located within the same occupancy, tenant space or dwelling unit as the source of the condensate.



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Ventilation



Chapter 4

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401.2 Ventilation Required
 Mechanical Ventilation for Dwelling Units




401.2 Ventilation required. Every occupied space shall be ventilated by natural means in accordance with Section 402 or by mechanical means in accordance with Section 403. ~~Where the air infiltration rate in a dwelling unit is less than 5 air changes per hour when tested with a blower door at a pressure of 0.2 inch water column (50 Pa) in accordance with Section R402.4.1.2 of the International Energy Conservation Code, the dwelling unit shall be ventilated by mechanical means in accordance with Section 403. Ambulatory care facilities and Group I-2 occupancies.~~ Dwelling units complying with the air leakage requirements of the International Energy Conservation Code or ASHRAE 90.1 shall be ventilated by mechanical means in accordance with Section 403. Ambulatory care facilities and Group I-2 occupancies shall be ventilated by mechanical means in accordance with Section 407.

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403.1 Ventilation System
 Mechanical Ventilation for Dwelling Units

403.1 Ventilation system. Mechanical ventilation shall be provided by a method of supply air and return or exhaust air except that mechanical ventilation air requirements for Group R-2, R-3 and R-4 occupancies ~~three stories and less in height above grade plane~~ shall be provided by an exhaust system, supply system or combination thereof. The amount of supply air shall be approximately equal to the amount of return and exhaust air. The system shall not be prohibited from producing negative or positive pressure. The system to convey ventilation air shall be designed and installed in accordance with Chapter 6.

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401.4 Intake Opening Location

401.4 Intake opening location. Air intake openings shall comply with all of the following:

1. and 2. (Text remains unchanged)
3. Intake openings shall be located not less than 3 feet (914 mm) below contaminant sources where such sources are located within 10 feet (3048 mm) of the opening. ~~Separation is not required between intake air openings and living space exhaust air openings of an individual dwelling unit or sleeping unit where an approved factory-built intake/exhaust combination termination fitting is used to separate the air streams in accordance with the manufacturer's instructions.~~
4. (Text remains unchanged)







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403.2.1.2 Recirculation of Air to a Swimming Pool and Associated Deck Areas

403.2.1 Recirculation of air. The outdoor air required by Section 403.3 shall not be recirculated. Air in excess of that required by Section 403.3 shall not be prohibited from being recirculated as a component of supply air to building spaces, except that:

- (Text remains unchanged).
- Supply air to a swimming pool and associated deck areas shall not be recirculated unless such air is dehumidified to maintain the relative humidity of the area at 60 percent or less. Air from this area shall not be recirculated to other spaces where more than 10 percent of the resulting supply airstream consists of air recirculated from these spaces. [The design and installation of dehumidification systems shall comply with ANSI/ACCA 10 Manual SPS](#).
- and 4. (Text remains unchanged).


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Table 403.3.1.1 Minimum Ventilation Rates

Table 403.3.1.1 Minimum Ventilation Rates

Occupancy Classification	Occupant Density #/1000 Ft ^{2a}	People Outdoor Airflow Rate in Breathing Zone, R _p CFM/Person	Area Outdoor Airflow Rate in Breathing Zone, R _a CFM/Ft ^{2a}	Exhaust Airflow Rate CFM/Ft ^{2a}
Commercial Laundry	10	25 5	0.12	-
Kitchens ^b	-	-	-	25 50/100f
Toilet rooms and bathrooms	-	-	-	20 25/50f



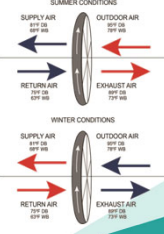
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Note g, Table 403.3.1.1 Recirculation of Mechanical Exhaust Prohibited

Table 403.3.1.1 Minimum Ventilation Rates

Note g: Mechanical exhaust is required and recirculation from such spaces is prohibited except that recirculation shall be permitted where the resulting supply airstream consists of not more than 10 percent air recirculated from these spaces, prohibited. For occupancies other than science laboratories, where there is a wheel-type energy recovery ventilation (ERV) unit in the exhaust system design, the volume of air leaked from the exhaust airstream into the outdoor airstream within the ERV shall be less than 10 percent of the outdoor air volume. Recirculation of air that is contained completely within such spaces shall not be prohibited (see Section 403.2.1, Items 2 and 4).

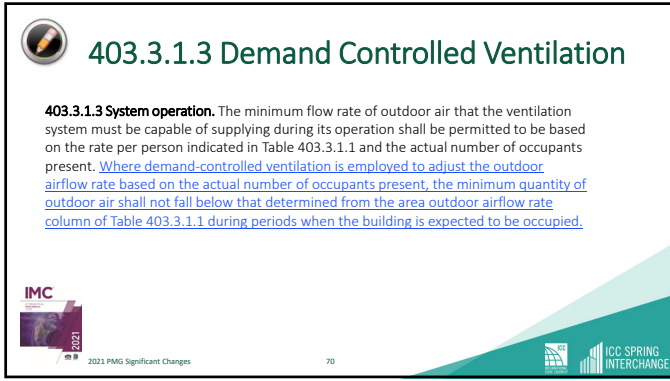


(No changes to notes a through f; No changes to note h)



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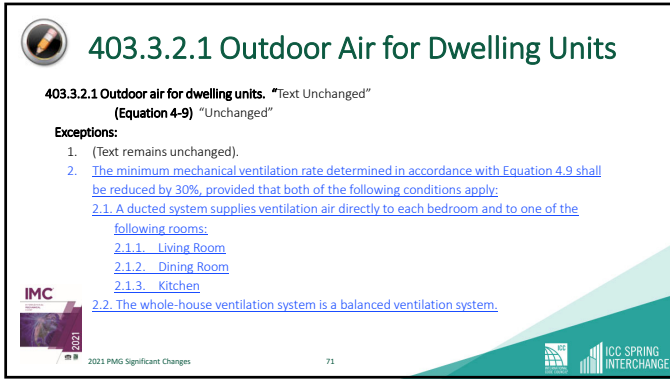


403.3.1.3 Demand Controlled Ventilation

403.3.1.3 System operation. The minimum flow rate of outdoor air that the ventilation system must be capable of supplying during its operation shall be permitted to be based on the rate per person indicated in Table 403.3.1.1 and the actual number of occupants present. Where demand-controlled ventilation is employed to adjust the outdoor airflow rate based on the actual number of occupants present, the minimum quantity of outdoor air shall not fall below that determined from the area outdoor airflow rate column of Table 403.3.1.1 during periods when the building is expected to be occupied.

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403.3.2.1 Outdoor Air for Dwelling Units

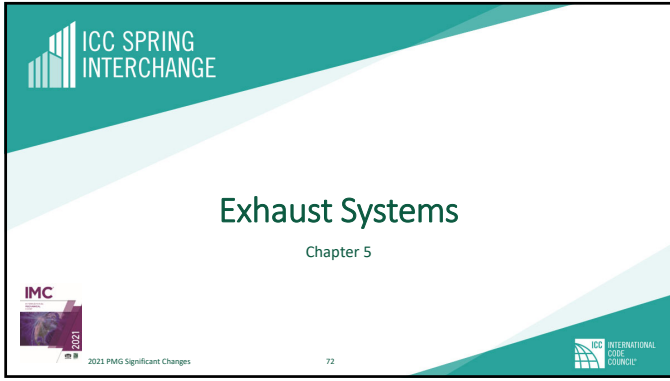
403.3.2.1 Outdoor air for dwelling units. "Text Unchanged"
(Equation 4-9) "Unchanged"

Exceptions:

- (Text remains unchanged).
- The minimum mechanical ventilation rate determined in accordance with Equation 4.9 shall be reduced by 30%, provided that both of the following conditions apply:
 - A ducted system supplies ventilation air directly to each bedroom and to one of the following rooms:
 - Living Room
 - Dining Room
 - Kitchen
 - The whole-house ventilation system is a balanced ventilation system.

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Exhaust Systems

Chapter 5


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501.3.1 Location of Exhaust Opening

501.3.1 Location of exhaust outlets. The termination point of exhaust outlets and ducts discharging to the outdoors shall be located with the following minimum distances:

1. and 2. (Text remains unchanged)
3. For all environmental air exhaust: 3 feet (914 mm) from property lines; 3 feet (914 mm) from operable openings into buildings for all occupancies other than Group U; and 10 feet (3048 mm) from mechanical air intakes. Such exhaust shall not be considered hazardous or noxious. [Separation is not required between intake air openings and living space exhaust air openings of an individual dwelling unit or sleeping unit where an approved factory-built intake/exhaust combination termination fitting is used to separate the air streams in accordance with the manufacturer's instructions.](#)
4. and 5. (Text remains unchanged)



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502.20 Manicure and Pedicure Station Exhaust System

502.20 Manicure and pedicure stations. (Text remains unchanged)

502.20.1 Operation. [The exhaust system for manicure and pedicure stations shall have controls that operate the system continuously when the space is occupied.](#)

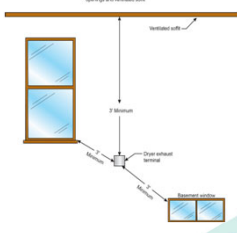


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504.4.1 Termination Location for Dryer Exhaust

504.4.1 Termination location. [Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. Where the manufacturer's instructions do not specify a termination location, the exhaust duct shall terminate not less than 3 feet \(914 mm\) in any direction from openings into buildings including openings in ventilated soffits.](#)



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504.6 Booster fans prohibited

504.6 Booster fans prohibited. Domestic booster fans shall not be installed in dryer exhaust systems.

Dryer exhaust duct power ventilator listed and labeled to UL 705 for use in dryer exhaust duct systems.

Booster fan

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506.3.7 Factory-Built Grease Duct Slope

506.3.7 Prevention of grease accumulation in grease ducts. (Text remains unchanged)

Exception: Factory-built grease ducts shall be installed at a slope that is in accordance with the listing and manufacturer's installation instructions.

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506.3.9 Grease duct horizontal cleanouts

506.3.9 Grease duct horizontal cleanouts. Cleanouts serving horizontal sections of grease ducts shall:

1. to 5. "Unchanged"
6. ~~Shall be~~ Be located at grease reservoirs.
7. Be located within 3 feet of horizontal discharge fans.

Side-wall exhaust fan

Cleanout within 3 ft of exhaust fan

Type I Hood

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507.1 Smoker Ovens with Integral Exhaust

507.1 General. (Text remains unchanged)

Exceptions:

1. to 3. "Unchanged"
4. [Smoker ovens with integral exhaust systems, provided that the appliance is installed in accordance with the manufacturer's installation instructions, is listed and tested for the application and complies with Chapter 5.](#)



Smoker oven with integral exhaust

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514.2 Energy Recovery Ventilation Systems

514.2 Prohibited applications. Energy recovery ventilation systems shall not be used in the following systems:

1. to 3. "Unchanged"
4. Commercial kitchen exhaust systems serving Type I or Type II hoods.
5. "Unchanged"

Exception: "Unchanged"



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Duct Systems




Chapter 6

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602.2.1.8 Pipe and Duct Insulation within Plenums

602.2.1.8 Pipe and duct insulation within plenums. Pipe and duct insulation contained within plenums, including insulation adhesives, shall have a flame spread index of not more than 25 and a smoke developed index of not more than 50 when tested in accordance with ASTM E84 or UL 723, using the specimen preparation and mounting procedures of ASTM E2231. Pipe and duct insulation shall not flame, glow, smolder or smoke when tested in accordance with ASTM C411 at the temperature to which they are exposed in service. The test temperature shall not fall below 250°F (121°C). Pipe and duct insulation shall be listed and labeled. Pipe and duct insulation shall not be used to reduce the maximum flame spread and smoke-developed indices except where the pipe or duct and its related insulation, coatings and adhesives are tested as a composite assembly in accordance with Section 602.2.1.7. Pipe insulation

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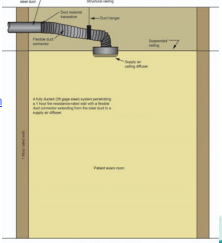


607.5.2 Duct Penetrations of Fire Barriers

607.5.2 Fire barriers; Exception 3:
"New Text Added"

Flexible air connectors shall be permitted in a fully ducted system, limited to the following installations.

3.1. Nonmetallic flexible connections that connect a duct to an air handling unit or equipment located within a mechanical room in accordance with Section 603.9.

3.2. Nonmetallic flexible air connectors in accordance with Section 603.6.2 that connect an overhead metal duct to a ceiling diffuser where the metal duct and ceiling diffuser are located within the same room.

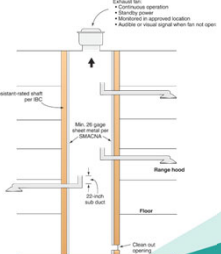






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607.5.5 Subducts Penetrating Shaft Enclosures

607.5.5 Shaft enclosures; Exception 1.1:
"Language modified"


1.1 Steel exhaust subducts having a wall thickness of not less than 0.0187 inch (0.4712 mm) extend not less than 22 inches (559 mm) vertically in exhaust shafts and an exhaust fan is installed at the upper terminus of the shaft that is powered continuously, in accordance with Section 909.11 of the International Building Code, so as to maintain a continuous airflow upward to the outdoors, provided that there is a continuous airflow upward to the outdoors.

84

608.1 Balancing

608.1 Balancing. Air distribution, ventilation and exhaust systems shall be provided with means to adjust the system to achieve the design airflow rates and shall be balanced by an approved method. Ventilation air distribution shall be balanced by an approved method and such balancing shall verify that the air distribution system is capable of supplying and exhausting the airflow rates required by Chapter 4.



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Chimneys and Vents

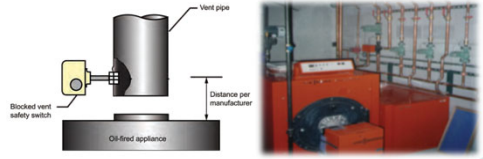
Chapter 8

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801.21 Blocked Vent Switch for Oil-Fired Appliances

801.21 Blocked vent switch. Oil-fired appliances shall be equipped with a device that will stop burner operation in the event that the venting system is obstructed. Such device shall have a manual reset, and shall be installed in accordance with the manufacturer's instructions.





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Specific Appliances, Fireplaces and Solid-Fuel-burning Equipment

Chapter 9

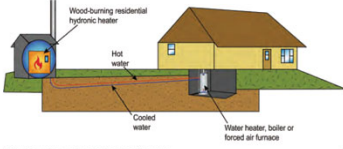


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905.1 Wood-Burning Residential Hydronic Heaters

905.1 General. Fireplace stoves and solid-fuel-type room heaters shall be listed and labeled and shall be installed in accordance with the conditions of the listing. Fireplace stoves shall be tested in accordance with UL 737. Solid-fuel-type room heaters shall be tested in accordance with UL 1482. Fireplace inserts intended for installation in fireplaces shall be listed and labeled in accordance with the requirements of UL 1482 and shall be installed in accordance with the manufacturer's instructions. [New wood-burning residential hydronic heaters shall be EPA certified.](#)

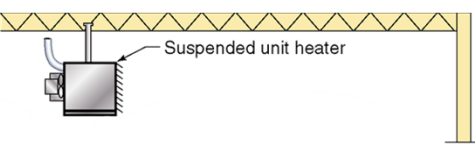


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Section 920 Unit Heaters

920.4 Prohibited Uses. [In Group I-2 and ambulatory care facilities, suspended-type unit heaters are prohibited in corridors, exit access stairways and ramps, exit stairways and ramps and patient sleeping areas.](#)

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929 Unvented Alcohol Fuel Burning Decorative Appliances

SECTION 929. UNVENTED ALCOHOL FUEL-BURNING DECORATIVE APPLIANCES

929.1 General. Unvented alcohol fuel-burning decorative appliances shall be listed and labeled in accordance with UL 1370 and shall be installed in accordance with the conditions of the listing, manufacturer's instructions and Chapter 3.



Unvented alcohol fuel-burning decorative appliance

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Refrigeration

Chapter 11

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1101 General

1101.1 Scope. This chapter shall govern the design, installation, construction and repair of refrigeration systems that vaporize and liquefy a fluid during the refrigerating cycle. ~~Refrigerant piping design and installation, including pressure vessels and pressure relief devices, shall conform to this code.~~ Permanently installed refrigerant storage systems and other components shall be considered as part of the refrigeration system to which they are attached.




1101.1.1 Refrigerants other than ammonia. Refrigerant piping design and installation, including pressure vessels and pressure relief devices, for systems containing a refrigerant other than ammonia shall comply with this chapter and ASHRAE 15.

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1101 General

1101.1.2 Ammonia refrigerant. Refrigeration systems using ammonia as the refrigerant shall comply with IAR 2, IAR 3, IAR 4 and IAR 5, and shall not be required to comply with this chapter.








94

1101 General

Table 1101.2
Factory-built equipment and appliances



EQUIPMENT	STANDARDS
Refrigeration fittings, including press-connect, flared, and threaded	UL 109 and UL 207
Air conditioning equipment	UL 1995 or UL/CSA 60335-2-40
Packaged terminal air conditioners and heat pumps	UL 484 or UL/CSA 60335-2-40
Split-system air conditioners and heat pumps	UL 1995 or UL/CSA 60335-2-40
Dehumidifiers	UL 474 or UL/CSA 60335-2-40
Unit coolers	UL 412 or UL/CSA 60335-2-89
Commercial refrigerators, freezers, beverage coolers, and walk-in coolers	UL 471 or UL/CSA 60335-2-89
Refrigerating units and walk-in coolers	UL 427 or UL 60335-2-89
Refrigerant-containing components and accessories	UL 207

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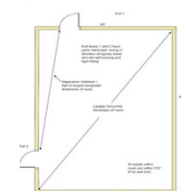
Table 1103.1 Refrigerant Classification, Amount, and OEL

Chemical Refrigerant	Formula	Chemical Name of Blend	Refrigerant Classification	Amount of Refrigerant Per Occupied Space				[F] Degree of Hazard
				Lbs/1000 ft ³	ppm	g/m ³	OEL	
R-407C	zeotropic	R-32/125/134a (2.5/2.5/6.5)	A1	13	92,000	210	1,000	-
R-407H	zeotropic	R-32/125/134a (32.0/15.0/52.5)	A1	19	92,000	300	1,000	-
R-449B	zeotropic	R-32/125/1234yf/134a (25.0/24.0/3/3/2/2/3)	A1	23	110,000	370	800	-
R-449C	zeotropic	R-32/125/1234yf/134a (20.0/20.0/0.5/1.0/29.0)	A1	23	98,000	360	800	-
R-452A	zeotropic	R-32/125/1234yf (11.0/69.0/30.0)	A1	27	100,000 10,000	440	780	-
R-452B	zeotropic	R-32/125/1234yf (87.0/7.0/26.0)	A2	23	30,000	360	870	-






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1105.9 Machinery Room Means of Egress



1105.9 Means of egress. Machinery rooms larger than 1000 square feet (93 m²) in area shall have not less than two exits or exit access doorways. Where two exit access doorways are required, one such doorway is permitted to be served by a fixed ladder or an alternating tread device. Exit access doorways shall be separated by a horizontal distance equal to or greater than one-half of the largest horizontal dimension of the room. All portions of machinery rooms shall be within 150 feet (45.7 m) of an exit or exit access doorway. An increase in exit travel distance is permitted where in accordance with Section 1017.1 of the International Building Code. Exit and exit access doorways shall swing in the direction of egress travel and shall be equipped with panic hardware, regardless of the occupant load served. Exit and exit access doorways shall be tight-fitting and self-closing.


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Sections 1107 through 1110

Section 1107 Refrigerant Piping-Piping Material
Section 1108 Field Test-Joints and Connections
Section 1109 Refrigerant Pipe Installation
Section 1110 Refrigerant Piping System Test



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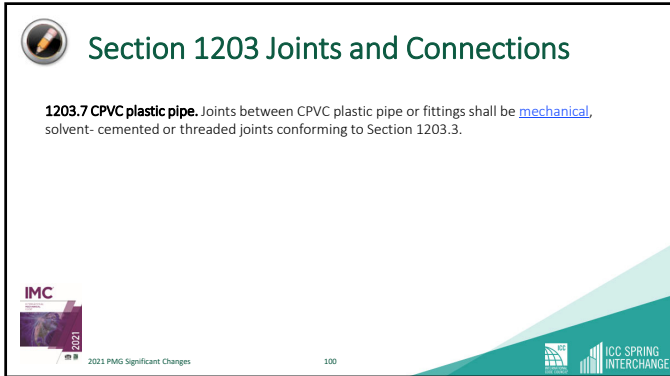
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Hydronic Piping
Chapter 12

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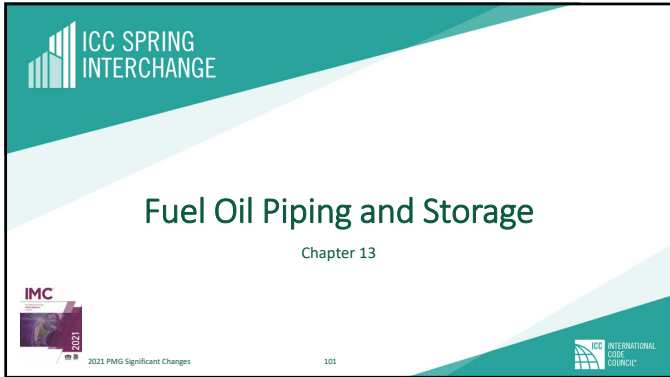


Section 1203 Joints and Connections

1203.7 CPVC plastic pipe. Joints between CPVC plastic pipe or fittings shall be [mechanical](#), solvent- cemented or threaded joints conforming to Section 1203.3.

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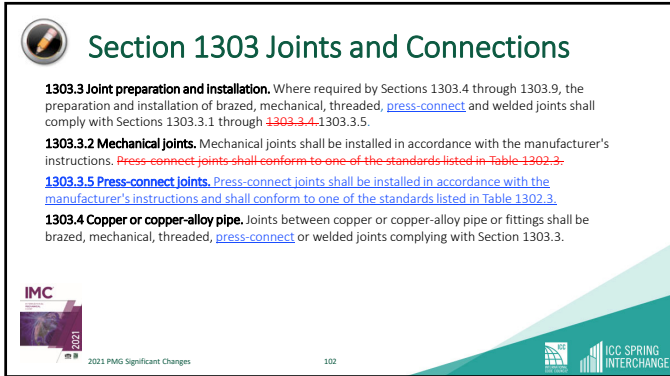
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Fuel Oil Piping and Storage

Chapter 13

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Section 1303 Joints and Connections

1303.3 Joint preparation and installation. Where required by Sections 1303.4 through 1303.9, the preparation and installation of brazed, mechanical, threaded, [press-connect](#) and welded joints shall comply with Sections 1303.3.1 through ~~1303.3.4~~ 1303.3.5.

1303.3.2 Mechanical joints. Mechanical joints shall be installed in accordance with the manufacturer's instructions. ~~Press-connect joints shall conform to one of the standards listed in Table 1302.3.~~

1303.3.5 Press-connect joints. [Press-connect joints shall be installed in accordance with the manufacturer's instructions and shall conform to one of the standards listed in Table 1302.3.](#)

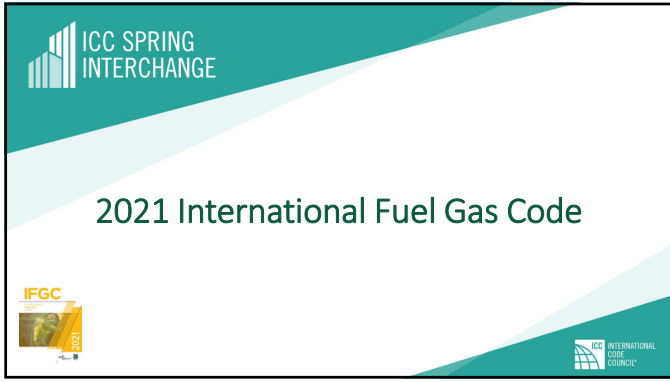
1303.4 Copper or copper-alloy pipe. Joints between copper or copper-alloy pipe or fittings shall be brazed, mechanical, threaded, [press-connect](#) or welded joints complying with Section 1303.3.

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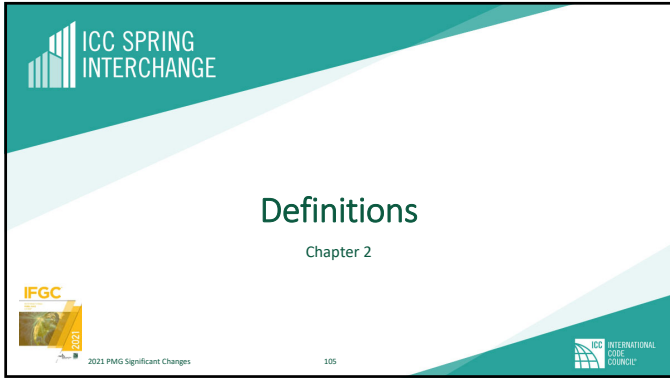
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Section 202 Definition
Point of Delivery

POINT OF DELIVERY. For natural gas systems, the point of delivery is the outlet of the service meter assembly or the outlet of the service regulator or service shutoff valve where a meter is not provided. Where a **system shutoff** valve is provided **after** the outlet of the service meter assembly, such valve shall be considered to be downstream of the point of delivery. For undiluted liquefied petroleum gas systems, the point of delivery shall be considered to be the outlet of the service pressure regulator, exclusive of line gas regulators, in the system.

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Section 202
Definitions Related to Point of Delivery

SERVICE METER ASSEMBLY. The meter, valve, regulator, piping, fittings and equipment installed by the service gas supplier before the point of delivery.

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Section 202
Definitions Related to Point of Delivery

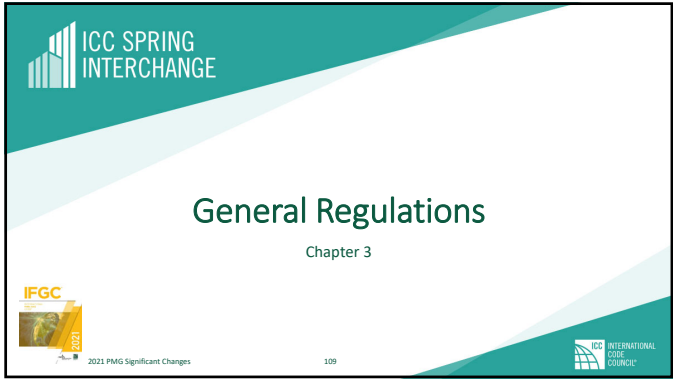
SYSTEM SHUTOFF. A valve installed after the point of delivery to shut off the entire piping system.

VALVE. A device used in piping to control the gas supply to any section of a system of piping or to an appliance.

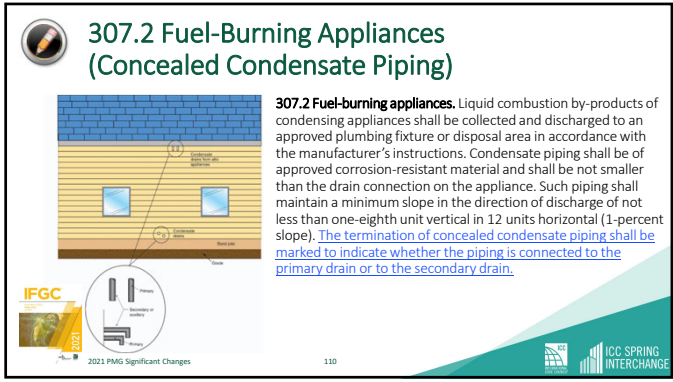
SERVICE SHUTOFF. A valve, installed by the serving gas supplier between the service meter or source of supply and the point of delivery customer piping system, to shut off the entire piping system.

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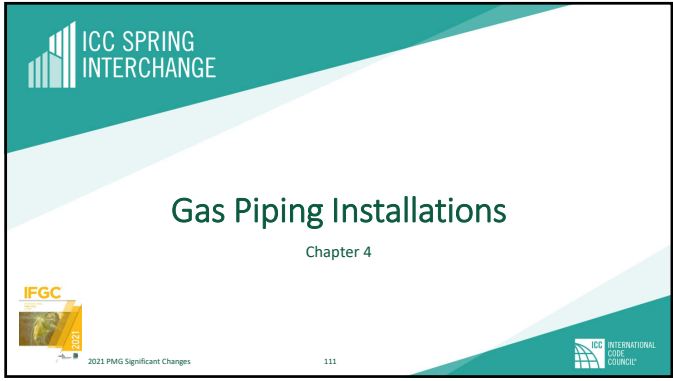
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402.7 Maximum Operating Pressure (Press-Connect Joint)

402.7 Maximum operating pressure. The maximum operating pressure for piping systems located inside buildings shall not exceed 5 pounds per square inch gauge (psig) (34 kPa gauge) except where one or more of the following conditions are met:

1. The piping joints are welded or brazed.
2. [The piping is joined by fittings listed to ANSI LC-4/CSA 6.32 and installed in accordance with the manufacturer's instructions.](#)

(Items 3 through 8 are unchanged)



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403.8.3 Threaded Joint Sealing

403.8.3 Threaded joint compounds sealing. [Threaded joints shall be made using a thread joint sealing material.](#) Thread joint sealing materials compounds shall be nonhardening and shall be resistant to the [action of liquefied petroleum gas or to any other](#) chemical constituents of the gases to be conducted through the piping. [Thread joint sealing materials shall be compatible with the pipe and fitting materials on which the sealing materials are used.](#)




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404.5 Fittings in Concealed Locations

404.5 Fittings in concealed locations. Fittings installed in concealed locations shall be limited to the following types:

1. Threaded elbows, tees, couplings, plugs and caps.
2. Brazed fittings.
3. Welded fittings.
4. Fittings listed to ANSI LC-1/CSA 6.26 or ANSI LC-4/CSA 6.32.



Caps and plugs are permitted to be concealed

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Chimney and Vents

Chapter 5

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503.5.6.1 Chimney Lining

HOUSE IN NEARBY TOWN WITH TEMPERATURE 10°F

BASEMENT

FIRST FLOOR

GRADE

EXISTING MASONRY CHIMNEY

NEW SHELL OF CHIMNEY EXPOSED TO OUTDOORS

CHIMNEY EXTENDS FROM FOUNDATION THROUGH ROOF THROUGH MASONRY OFFSETS

2x4 W/ 1/2" SHEET

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503.5.6.1 Chimney lining. Chimneys shall be lined in accordance with NFPA 211.

Exception: Where an existing chimney complies with Sections 503.5.6 through 503.5.6.3 and its sizing is in accordance with Section 503.5.5, its continued use shall be allowed where the appliance vented by such chimney is replaced by an appliance of similar type, input rating and efficiency.

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503.8 Venting System Terminal Clearances

Clearance	Minimum Clearance To	Minimum Clearance To Combustible
A	Roofs	2 ft
B	Windows or doors or other openings	4 ft
C	Overhead power lines	10 ft
D	Overhead power lines	10 ft
E	Overhead power lines	10 ft
F	Overhead power lines	10 ft
G	Overhead power lines	10 ft
H	Overhead power lines	10 ft
I	Overhead power lines	10 ft
J	Overhead power lines	10 ft
K	Overhead power lines	10 ft
L	Overhead power lines	10 ft
M	Overhead power lines	10 ft

503.8 Venting system termination location terminal clearances. The clearances for through-the-wall direct-vent and nondirect-vent terminals shall be in accordance with Table 503.8 and Figure 503.8.

Exception: The clearances in Table 503.8 shall not apply to the combustion air intake of a direct-vent appliance.

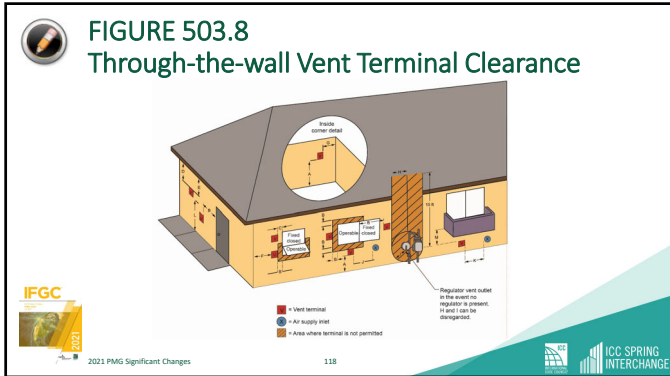
All other section 503.8 text deleted; Table 503.8 replaced, as shown.

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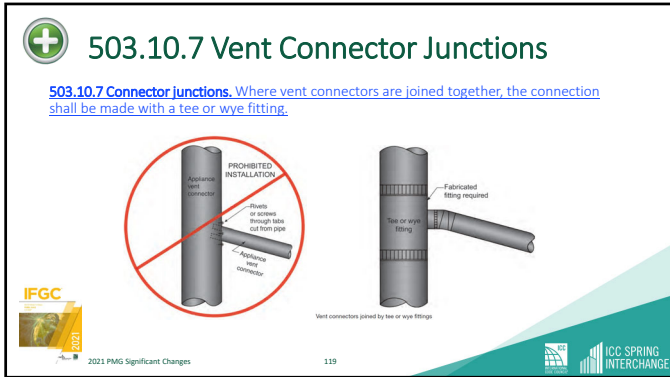
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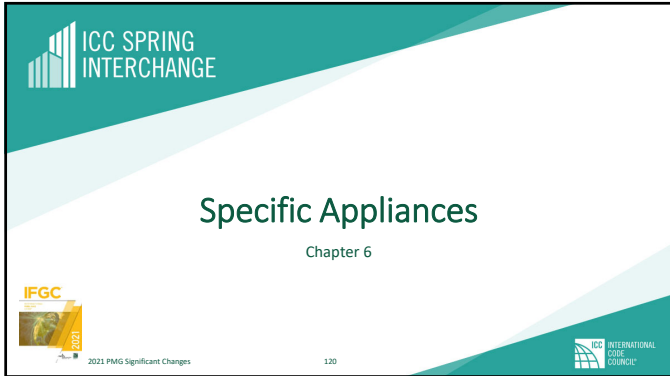
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614.7 Makeup Air (Clothes Dryer)

614.7 Makeup air. Installations exhausting more than 200 cfm (0.09 m3/s) shall be provided with makeup air. **Where a closet is designed for the installation of a clothes dryer, an opening having an area of not less than 100 square inches (645 mm2) for makeup air shall be provided in the closet enclosure, or makeup air shall be provided by other approved means.**

614.7.1 Closet installation. **Where a closet is designed for the installation of a clothes dryer, an opening having an area of not less than 100 square inches (645 mm2) for makeup air shall be provided in the closet enclosure, or makeup air shall be provided by other approved means.**

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618.6 Return Air from Mechanical Room

618.6 Furnace plenums and air ducts. Where a furnace is installed so that supply ducts carry air circulated by the furnace to areas outside of the space containing the furnace, the return air shall be handled by a duct(s) sealed to the furnace casing and terminating outside of the space containing the furnace. **Return air shall not be taken from the mechanical room containing the furnace.**

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623.2 Commercial Cooking Appliances

623.2 Prohibited location. Cooking appliances designed, tested, listed and labeled for use in commercial occupancies shall not be installed within dwelling units or within any area where domestic cooking operations occur.

Exceptions Exception:

1. Appliances that are also listed as domestic cooking appliances.
2. **Where the installation is designed by a licensed Professional Engineer, in compliance with the manufacturer's installation instructions.**

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