



Major Commercial Plumbing Changes for 2018 IPC and Colorado State Amendments

Effective June 14th 2021

(This list is not inclusive of all changes)

- 1) **State Defines Domestic Appliance:** Clarifies that a shower valve/tub and shower valves shall not be considered as faucets, therefore do not fall under exemptions for permits. **(Permit required to replace tub and shower valves)**
- 2) **State Defines Direct Supervision:** Direct supervision means that the supervising licensed master plumber, journeyman plumber, or residential plumber is physically present at the same physical addresses listed on the permits and where the apprentice is working or no more than five minutes distance from the apprentice. **(Random Contemporaneous Reviews will be performed)**
- 3) **State Amendment to IPC 305.1 - Protection Against Contact:** Closet wrap required on base inspection.
- 4) **IPC Section 305.4 - Freeze Protection:** Heat and insulation required when piping is installed outside of the building envelope.
- 5) **IPC Section 305.6 - Nail Protection:** changed from 1-1/2" to 1-1/4" from face of the stud to the pipe. **(A little less restrictive)**
- 6) **IPC Section 308.10 - Thermal Expansion Tank Support:** Expansion tanks must have support to the structure.
- 7) **State Amendment 410.4 - Substitution:** Change first sentence to read: Where restaurants (or spaces classified as an A2 occupancy) provide drinking water in a container free of charge, drinking fountains shall not be required in (these restaurants and A2 occupancies).
- 8) **State Amendment 421.7 - Shower Head Location:** Showerheads shall be located on the sidewall of shower compartments or be arranged so the shower head does not discharge directly at the entrance to the compartment and the bather can adjust the valve prior to stepping into the shower spray.
Exception: Showers of the roll in type installed in accordance with 2009 ANSI A117.1.

- 9) **State Amendment IPC Section 504.6.1 - Collection of Relief Valve Discharge:** T&P shall discharge to the sanitary drainage system or indirect to the outside. (Including basements)
- 10) **IPC Section 504.6 - Requirements for Discharge Pipe:** Item #14 requires 1 pipe size larger than the T&P outlet for insert fittings. (PEX)
- 11) **State Amendment IPC Section 504.7 - Required pan:** Add new exception to read: Replacements for water heaters that did not have a pan previously installed to code in effect at the time of the original installation.
- 12) **State Amendment IPC Section 504.7 - Required pan. Add new sentence at end of the section to read:** Unless the pan is constructed of material having a flame spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84 or UL 723
- 13) **State Amendment IPC Section 605.15.2 - Solvent Cementing:** Delete the exception in its entirety. (CPVC/AL/CPVC will require primer)
- 14) **IPC Section 607.3 - Thermal Expansion Control Device:** Code now allows a device and not just a tank for thermal expansion control.
- 15) **IPC Section 608.8 - Valves and Outlets Prohibited Below Grade:** Yard hydrants will require signage that reads as follows: "CAUTION, NONPOTABLE WATER. DO NOT DRINK."
- 16) **IPC Sections 608.17.1.1 and 608.17.1.2 - Beverage Dispensers:** Specific requirements for backflow devices for beverage dispensers (carbonated and non-carbonated)
- 17) **IPC Section 608.17 - Connections to the Potable Water Systems:** Add new subsection 608.17.2.1 to read: Section 608.17.2.1 essentially nontoxic fluid conditioning chemical. When the conditioning chemical introduced is an essentially nontoxic transfer fluid the potable supplier to the boiler shall, at a minimum, be equipped with a backflow preventer with an intermediate atmospheric vent complying with ASSE 1012 or CSA B64.3.
- 18) **IPC Section 704.1 - Slope of Horizontal Drainage Piping:** Grease waste shall slope minimum $\frac{1}{4}$ " per foot
- 19) **IPC Section 705.16.4 - Plastic Pipe or Tubing to Other Piping Material:** ABS and PVC shall be allowed 1 glued transition joint at the building sewer and building drain connection. Cannot be installed beneath concrete.
- 20) **State Amendment IPC Section 706.3:** Add sentence to end of IPC Section 706.3: fixture crosses will not be required to meet the exception of IPC Section 706.3
- 21) **State Amendment IPC Section 708.1.3 - Building drain and building sewer junction.** Add new sentence at the end of the section to read: When the cleanout is installed at the junction of the building drain and building sewer, it shall be an approved two way fitting with a single riser not to exceed 4 feet in depth or a two riser cleanout using back to back combination fittings or equal of schedule 40 material.
- 22) **IPC Section 713 - Health Care: Deleted**



- 23) **IPC Section 712.3.2 - Ejector pit cover:** Shall be not more than 2" below grade or floor level
- 24) **IPC Section 714 - Backwater Valves:** Will be required for fixtures below the elevation of the next upstream manhole cover.
- 25) **State Amendment IPC Section 802.4 - Waste receptors:** Add new exception to read:
Exception: Where equipment is installed in a crawl space, a waste receptor shall be allowed with an approved backwater valve installed.
- 26) **IPC Section 912.1 - Horizontal Wet Vent Permitted:** Add a new exception to read:
Exception: Fixtures other than those considered to be bathroom group fixtures, of equivalent drainage fixture units, may be included in the wet vented section provided the total number of drainage fixture units does not exceed the total number included in two bathroom groups and the fixtures not considered bathroom fixtures are valued at one drainage fixture unit or less.
- 27) **IPC Section 1003.3.2 - Food waste disposers restriction:** Shall not connect to a grease interceptor.
- 28) **State Amendment IPC.1003.3.2 - Food Waste Disposers Restriction:** Add exception to read: When using a gravity interceptor equal to or greater than 500 gallon capacity.
- 29) **State Amendment IPC Section 1101.3 - Prohibited drainage:** Add a new sentence to the end of the section reading: Storm water from roof drains shall not discharge over public walkways except when an approved grated trough or trench drain sized to accept the calculated discharge is installed in the walkway. The discharge shall be diverted vertically from a height not greater than 12 inches to the grate. Exception: Secondary drains.
- 30) **State Amendment to IFGC 503.4.1 - Plastic Piping:** Where installed as an exhaust vent for a gas fired water heater, the new plastic pipe shall be tested with 5 psi maximum air pressure at the time of inspection prior to being connected to the water heater.