

2019 California Plumbing Code (CPC) Changes

SUMMARY

Some of the significant changes are:

The 2019 Plumbing Code now addresses additional requirements for the removal and replacement of existing and residential fixtures, and maximum flow rates have been revised.

Although 'Manufacturer's Installation Instructions' continues to be common place within the Code, additional requirements have been added regarding the use and labeling of certain pipe types, i.e. Plastic Piping, B-W vents, Cast Iron soil pipe and fittings and stainless steel.

New limitations have also been introduced with limit the installation of trenchless sewers.

Fuel gas piping has had a considerable addition of Code items.

SIGNIFICANT CHANGES

NEW - CHANGE	CPC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO	
<input type="checkbox"/> <input checked="" type="checkbox"/>	309.5	Plumbing piping to be designed/installed per sound limitations of CBC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	401.3	Noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Required prior to issuance of a certificate of final completion, C of O, or final permit approval. See Civil Code Section 1101.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	402.4	Metered faucets shall deliver a maximum of 0.2 gallons per metering cycle.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	407.3	Water heater thermostat shall not be considered a control form meeting the maximum 120 degree temperature at public lavatories.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	408.2	Water Consumption limitations. Showerheads.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	408.5	Finished Curb or Threshold. Showers without thresholds shall be considered as wet locations and shall comply with CBC, CRC and CEC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	411.2	ALL water closets shall not exceed 1.28 gpf.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	414.3	Drainage Connection. Commercial dishwashing indirect and direct discharge specifications.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	416.2	Emergency Eyewash and Shower Equipment. Water supply temperature specifications.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	422.2.1	Single use restroom facilities to be identified with signage indicating use by either sex.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	Table 501.1(2)	New table for First Hour Rating of water heaters.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SIGNIFICANT CHANGES (cont'd)

NEW - CHANGE	CPC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO	
<input checked="" type="checkbox"/> <input type="checkbox"/>	506.1.1	Power burners shall be provided with combustion, ventilation, and dilution air in accordance with manuf. Instructions.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	507.27	Clearance to combustible materials. See Section 509.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	509.3.6	Where venting system passes through an above-ceiling air space or other non-ducted portion of an air-handling system, it shall conform to one of three requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	509.45.1	Plastic piping. Appliance shall be listed for use with such venting materials and the appliance manuf. Install. Instruction shall specify plastic piping material.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	509.6	Gas vents. B-W gas vent shall have a listed capacity not less than that of the listed vented wall furnace to which it is connected. Gas vents installed within masonry chimneys shall be installed in accordance with man. Inst. Instruct. Gas vents installed within masonry chimneys shall be identified with permanent label installed at the point where the vent enters the chimney. "This gas vent is for appliances that burn gas. Do not connect to solid or liquid fuel burning appliances or incinerators."	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	510.2.6 and Table 510.2.1	Vent Connectors. Calculations considered for additional elbows in Connectors.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	601.2.1	Sub-meters. Multi-family and mixed-use residential and commercial. Quantity of water to be measured.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	603.5.12	Beverage Dispensers. Potable water supply to beverage dispensers carbonated beverage dispensers, or coffee machines shall be protected by an air gap or a vented backflow preventer that complies with ASSE 1022. For carbonated beverage dispensers, piping material installed downstream of the backflow preventer shall not be affected by carbon dioxide gas.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	603.5.21	Chemical Dispensers. Backflow protections-5 options.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	604.10.1	Requirements for Tracer Wire. Electrically continuous corrosion resistant blue insulated copper tracer wire. Size changed from 18 AWG to 14 AWG	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	605.12	Water supply and distribution PVC plastic pipe. Shall not be exposed to direct sunlight unless less than 24 inches and is wrapped with minimum .04 inch tape or protected from UV.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	609.4	Testing. New requirements and exceptions for PEX, PP or PE-RT.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	610.9	Size of Branches. Direction regarding calculations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	701.2	Directs to...per standards referenced in Table 701.2....and firestop protection requirements in the CBC. NOTE: ABS and PVC installations are limited to not more than two stories of areas of residential accommodation. Cast-iron soil pipe and fittings and the stainless steel couplings shall be listed, tested, and marked with country of origin, manufacturer's name or trademark....	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SIGNIFICANT CHANGES (cont'd)

NEW - CHANGE	CPC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT YES - NO	
<input type="checkbox"/> <input checked="" type="checkbox"/>	715.3	Existing sewers. Limitations of trenchless sewer installations.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	906.1	Vent termination through roof. 6 inches through roof and 1 foot from vertical surfaces. ABS and PVC piping exposed to sunlight to be protected with water based synthetic latex paints.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1007.2	Trap seal primers shall comply with ASSE 1018. Drainage and electronic design type trap seal primer devices shall comply with ASSE 1044. (needed for floor drains and floor sinks, subject to infrequent use. 1007.1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1208.6.5	Fuel Gas Piping: Plastic Pipe, Tubing, and Fittings. Polyethylene plastic pip, tubing, and fittings used to supply fuel gas shall conform to ASTM D2513. Pipe to be used shall be marked "gas" and "ASTM D25133".	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1208.9 1208.10 1208.10.1 1208.10.2 1208.10.3 1208.10.4	Fuel Gas Piping: New requirements for overpressure protection devices, pressure limitation requirements, Detection of Failure, Flow Capacity.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1210.1.3.1 1210.1.3.2	Fuel Gas Piping: 1210.1.3.1 Zinc coating not adequate protection for underground gas piping. 1210.1.3.2 Provides options of compliance for underground piping.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1213.1.3.3	Cathodic Protection: systems shall be monitored by testing, and the results documented. Results shall demonstrate per one of four items listed.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1210.1.3.4 through 1210.1.3.9	Additional Fuel Piping system.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1210.2.4.3	Fuel gas piping on roof tops. Shall be elevated above the roof surface and shall be supported in accordance with Table 1210.2.4.1.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1210.12	Systems containing flammable gas air mixtures shall be in accordance with Section 1210.12.1 through 1210.12.6.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1211.0 through 1211.2.5	Electrical Bonding and Grounding. 1211.1 Pipe and Tubing other than CSST. 1211.2 Bonding of CSST Gas Piping	<input checked="" type="checkbox"/>	<input type="checkbox"/>