

# 2016 California Plumbing Code (CPC) Changes

## SUMMARY

Some of the significant changes are:

New product standards for plumbing fixtures such as lavatories, showers, bathtubs and whirlpool bathtubs, bidets, urinals, drinking fountains, and sinks. Lead-content provisions have been revised to address the minimum acceptable percentage lead content for pipes and fittings. New provisions for residential fire sprinkler systems. New requirements for the insulation of hot water piping. New requirements for medical gas and vacuum systems based on NFPA 99. New testing and inspection provisions for non-potable alternate water source systems. New requirements for testing, inspection, and maintenance of non-potable rainwater catchment systems. Also, many locations where brass was previously allowed are now required to be copper or copper alloy.

Additionally, several code sections have been reorganized, meaning the previous requirements have been included in other or new sections. A 'Section Relocation' Table has been provided on pages xix-xxii.

## SIGNIFICANT CHANGES

NEW - CHANGE	CPC SECTION/TABLE NUMBER	COMMENTARY	MASTER PLAN IMPACT	
			YES	NO
<input type="checkbox"/> <input checked="" type="checkbox"/>	1.1.7.3 Except.	<b>Exception:</b> Rather than having to comply with the most restrictive requirement, detached one a two family dwellings, efficiency dwelling units, lodging houses, live/work units, and townhouses not more than three stories above grade shall not be required to comply with the California Residential Code if they are constructed to comply with the California Building Code.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	105.2	Required Inspections outlined.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	203.0	Definitions of Low Heat and Medium Heat Appliances.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	205.0	Definition of Category 1, 2, and 3 systems.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	205.0	Chimney types defined.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	312.14	ABS and PVC exposed to sunlight must be protected with water based synthetic latex paint or tape.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	314.1	Trenches deeper than the footing must be installed outside the surcharge path of the footing.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	314.4.1	Trench size requirements for Thermoplastic Pipe and Fittings.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	316.1	Copper alloy cleanout fittings may not be used as a reducer or adapter from cast-iron drainage pipe to iron pipe size (IPS) pipe.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	316.1	Essential plumbing provisions for OSHPD facilities requiring electrical power.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	Table 313.1	Hanger and support table some pipe types re-categorized with other pipe types.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	403.3	Protectors and insulators at accessible lavatory pipes must comply with ASME A112.18.9.	<input type="checkbox"/>	<input checked="" 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"/>	407.4	Self-Closing or metered faucets required on transient public lavatories (i.e.; service stations, train stations, airports, restaurants, and convention halls.).	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	408.5	Areas immediately adjacent to showers without thresholds shall be considered wet locations and shall comply with the requirements of the California Building, California Residential, and California Electrical Codes.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	408.7	Requirements for specific shower liner materials outlined.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	409.6.1	Flexible PVC hoses and tubing for whirlpool bathtubs must comply with IAPMO Z1033.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	411.2	The effective flush volume of all water closets shall not exceed 1.28 gallons per flush.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	412.1	Wall mounted urinals shall have an average water consumption not to exceed 0.125 gallons per flush. Others shall not exceed 0.5 gallons.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	413.1	Clinical sinks now require flushing devices.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	415.2	Bottle filling stations shall be permitted to be substituted for drinking fountains of up to 50 percent of the requirements for drinking fountains.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	417.1.1	Maximum flow rates for wash fountains.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	418.3(4)	Floor drains shall be provided in boiler rooms.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	420.2.1	Adjusted maximum flow rate for kitchen faucets to 1.8 gallons per minute (temporary boost to 2.2 allowed, default must be 1.8).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	422.1	Fixture count now based on occupant load as calculated in the California Building Code.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	422.2.1	Two Family or assisted-use toilet facilities may be permitted in place of separate facilities for each sex (1 each) when each requires only one water closet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	505.4.1	Changes to allowable mediums for single wall heat exchangers.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	507.5	Minimum depth for water heater drainage pan when required shall be 1-1/2".	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	509.6.2.7	Insulation Shield required when gas vent passes through an insulated assembly. Shield must extend a minimum of 2" above simulation surface.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	604.2	Lead content maximum for material intended to convey or dispense water for human consumption shall not exceed 0.25 percent and 0.2 percent for solder and flux used on these materials.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	607.0	Potable water supply tank requirements for venting, overflow, and valves.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	609.11	Most exceptions for providing insulation on domestic hot water lines eliminated.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	612.1	Required residential fire sprinkler systems must be installed by an ASSE Series 7000 certified installer.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	612	Provisions for Residential Fire Sprinkler systems.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	705.1.3 & 705.5.2	Low VOC primer, cement, and solvent cement required for plastic pipe and fittings. <b>[HCD 1 &amp; 2]</b>	<input type="checkbox"/>	<input checked="" 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"/>	707.4	A cleanout shall be installed at each urinal above the fixture connection fitting.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	707.9	Cleanout clearance in front of the cleanout shall be a minimum of 18" for 2" cleanout or less and 24" for cleanouts larger than 2". Underfloor cleanouts shall not be greater than 5' from the under floor access point.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	814.0	Additional condensate controls required for units installed in areas where damage can occur.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	908.2	Additional requirements for horizontal wet venting of bathrooms.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	1102.1	Additional materials allowed for roof drains.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	1211.7	Earthquake-Actuated Gas Shutoff Valves to be installed when required by local ordinance.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 13	Extensive changes to allowances for Health Care Facilities and requirements for medical gas systems. <b>[SFM and OSHPD 1, 2, 3, and 4]</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 15	Extensive changes to allowances for Alternative Water Sources for non-potable applications.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <input checked="" type="checkbox"/>	Chapter 16	Various changes to allowances for non-potable rainwater catchment systems.	<input type="checkbox"/>	<input checked="" type="checkbox"/>