

GENERAL SUMMARY OF THE CHANGES TO THE ILLINOIS PLUMBING CODE

The following is a general summary of the changes to the Illinois Plumbing Code which became effective April 24, 2014. To access the Code electronically, visit www.ilphcc.com and click on the Illinois Plumbing Code under the Quick Links tab. The Illinois PHCC will be printing code books in the near future and will provide more detailed information as it is available.

	All sections	Date removed from Standard except in the Tables	
	Various sections	"Proper" replaced with "Approved"; "Appropriate" replaced with "the required", etc. General grammar and style corrections.	
SUBPART A	Changes "General Regulations" to "General Provisions".		
890.110	Changed the name of the section from "General Regulations" to "Applicability".		
890.120 Definitions	<p>Circuit Vent; deleted "which depend on siphonage for proper operation" from the definition.</p> <p>Code; changed to use the official reference to the Code. In reference to the local level, changed "code" to "rule or ordinance".</p> <p>Continuous Vent; deletes the sentence "A continuous vent is also known as a back vent or an individual vent".</p> <p>CCCDI; replaces the "Illinois EPA" with reference to the Title 35 rules.</p> <p>Department; new definition referring to the Illinois Department of Public Health.</p> <p>Drainage Fixture Unit; replaces "Fixture Unit, Drainage". Definition is the same.</p> <p>Existing Work; changes the date – "A plumbing system or any part of a plumbing system that has been installed prior to January 1, 2014".</p> <p>Graywater; Definition changed to read "Untreated waste water that has not come into contact with toilet waste, kitchen sink waste, dishwasher waste or similarly contaminated sources. Graywater includes waste water from bathtubs, showers, lavatories, clothes washers and laundry tubs. Also known as gray water, grey water, and grey water".</p> <p>Individual Vent changed to Individual Dry Vent. Changed to read; "a pipe installed to vent a single fixture trap that connects with the vent system above the fixture served, or that terminates in the outside atmosphere". Added; See Appendix B. Illustration CC.</p> <p>Island Fixture Vent; changed to read "a vent in which the vent pipe rises as near as possible to or above the highest water level in the fixture vented and then turns down before <u>rising to connect to the vent system 6 inches above the flood level rim or terminating to the atmosphere</u>".</p>		<p>Kitchen or Bar Sink Faucet; new definition - "a faucet that discharges into a kitchen or bar sink in domestic or commercial applications. Supply fittings that discharge into other types of sinks, including, clinic sinks, floor sinks, service sinks and laundry trays are not included".</p> <p>Labeled; new definition – "an indication that an agency approved by the Department or that is an ANSI-accredited certification program has certified the plumbing material to be in compliance with applicable standards in accordance with this Part".</p> <p>Lavatory Faucet; new definition – "a faucet that discharges into a lavatory basin in a domestic or commercial installation".</p> <p>Lead Free; wording changed to meet the 2014 federal Safe Drinking Water Act.</p> <p>Loop Vent; deletes the phrase "which depend on self siphonage for proper operation".</p> <p>Main Vent; adds "a main vent may be a vent stack or a stack vent".</p> <p>Metering Faucet; new definition – "a self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable".</p> <p>Multi-person Showers; "shower compartments designed and intended for use by two or more persons simultaneously.</p> <p>Non-Potable Water; corrects the standard referenced.</p> <p>Pipe Increments; adds 1-1/4" to the list of pipe sizes.</p> <p>Potable Water; changed to read "water that meets drinking water standards specified in the Pollution Control Board's rules titled Primary Drinking Water Standards (35 Ill. Adm. Code 611), and is suitable for human consumption or culinary use".</p> <p>Pre-Rinse Spray Valve; new definition – "a hand-held device for use with commercial dishwashing and ware-washing equipment that sprays water on dishes, flatware, and other food service items for the purpose of removing food residue before cleaning and sanitizing items".</p> <p>Private Water Supply; deletes the reference to the Illinois Groundwater Protection Act.</p> <p>Self Closing Faucet; new definition – "a faucet that closes itself after the actuation or control mechanism is deactivated. The actuation or control mechanism can be mechanical or electronic".</p> <p>Water Closet; new definition – "a fixture with a water-containing receptor that receives</p>

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	liquid and solid body waste and on actuation conveys the waste through an exposed integral trap into a drainage system. Also referred to as a toilet.” Water Supply Fixture Unit ; replaces Fixture Unit, Water Supply. Definition is the same.	890.640 c) 3)	Corrects the standard for bathtub liners/ inserts.
890.130	Incorporated <u>and Referenced</u> Materials (List)	890.650 f)	Adds; “Seats for accessible water closets may be open or closed front, and may have a lid or not have a lid”.
890.140	Replaces “Repairs and Alterations” with “Compliance with This Part”.	890.650 g)	Corrects the standard for flushometer tank valves.
890.140 b) 1	Deletes part of the variance language.	890.680 e)	Changes the standard reference from ASSE 1016 to 1070 on water temperature for lavatories.
890.140 b) 2	Adds; “The Department will consider variances to this Part when the applicant has provided documentation citing the particular portion of this Part for which a variance is sought and has provided justification sufficient, in the opinion of the Department, to demonstrate that the variance will not create a condition less protective than that portion of this Part addressed in the variance request. Issuance of variances to this Part is at the sole discretion of the Department and may not be delegated or assumed by any other authority identified in this Part. Variance authorizations may be conditioned as determined by the Department and are not precedential”.	890.690 b)	Water temperature for showers; corrects the standard.ASSE 1016/ASME A112.1016/ CSA B125.16 and adds ASSE 1070. Changes “gang” shower to “multi-person” shower.
890.180 e) & f)	Adds a note to see Appendix B. Illustration BB.	890.700 d)	Adds; “Service sinks, mop sinks, laundry trays or similar utility sinks shall be provided with hot water”.
890.320 l)3)	Joints in Plastic Drainage; adds “listed in Section 890. Appendix A. Table A.	890.700 e)	Adds; “Sinks in laboratories that are not designated for hand washing or personal hygiene may be supplied with cold water only”.
890.330 b)	Corrects the standard to ASME B31.1.	890.720 f)	Adds the Illinois Safe Bottled Water Act to the requirements. Deletes reference to “IDPH’s Public Area Sanitary Practice Code”.
890.330 c)	Straight stops are added for push-on stops.	890.730 b)	Adds <u>high-density polyethylene (HDPE)</u> to the materials allowed for trench drains.
890.340 c)	Corrects the standard for cast iron joints in water supply pipe to AWWA C151.	890.750	Added “Hydromassage” in front of Whirlpool.
890.340 g) 1)	Plastic-Commingling; adds “or approved solvent as listed in 890. Appendix A. Table A. for connections transitioning from one material to another, only.	890.750 b)	Corrects the standards and addresses suction fittings.
890.410	Changed “Traps” to “Fixture Traps/ Continuous Waste”	890.810 a) 1)	Adds “Individual businesses within the same building or within an enclosed mall may share public or employee restroom facilities, provided that the access to the restrooms does not require trespass on adjoining businesses or leased space. Restrooms shall be open at all times when any individual business within the same building or within an enclosed mall is open”. Deletes the example given.
890.510 a) 3)	Deletes the prohibition of discharging a commercial dishwashing machine into the <u>grease interceptor</u> .	890.810 a) 2) A) ii)	Changes the floor area per person for “Assembly Places –Facilities for Spectator Events; Worship Places and Funeral Homes; Museums, Libraries,Exhibition Areas and Similar Uses” from 15 sq. ft. to 50 sq. ft.
890.520 d) 3)	Gas & Oil Interceptors; “Two or more vents may be connected to a header, which shall be 6 inches higher than the lowest floor or <u>trench drain served</u> ”.	890.1010 e)	Clear water wastes; adds “refrigerated cases” and “vacuum waste systems”. Deletes “building sewer”.
890.520 d) 6)	Corrects Office of State Fire Marshal Code to add 174, 175, 176, 177 and deletes 170.		
890.630 e)	Adds; “Potable” in front of “Water Supply Connection”.		

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890.1420 c)	Vent Terminals; moved to 890.1430		
890.1430 d) (new d was c)	d) Adds that no vent terminal can be within 4 feet of a vertical obstruction. e) states that wet vents in an exterior wall or adjacent to an unheated space must be protected from freezing.		200 females to 1 for each 150. Bathubs/showers for Dormitories; change in Footnote 13 now reads "The total number of bathing facilities shall include one bathtub for males and one bathtub for females or one individual user restroom with a bathtub." Drinking fountains for assembly places (sports arenas, etc.). Adds High-Low to 1 per each set of male and female restrooms. Drinking fountains for assembly places (theaters, etc.). Adds; "1 High-Low for each set of male and female restrooms. For Mercantile, malls, etc. it adds the same language. Water Closets for Mercantile, malls, etc. Changes the over 800 requirement for females from 1 for 175, to 1 for each 150. Businesses Selling Motor Fuel. Adds "1 service sink where public restrooms are required." Office/Public Buildings. Changes the water closet requirement for additional over 110 from 1 for each 40, to 1 for each 50. Changes additional lavatories for over 125 people from 1 for 45, to 1 for 50. Schools – Elementary and above, Day Care, Nursery, etc. Adds to the requirement for 1 service sink per floor "and kitchen area."
890.1450 b)	Vertical Rise; adds the following "Exception: Wet venting and floor drain vents may connect horizontally."		
890.1450 d)	Deletes: "Horizontal kitchen sink vents shall be above the flood level rim of the fixture".		
Venting Part	General Cleanup and Reorganization.		
890.1720 a)	Corrects the Standard for Correction Facility Water Closets.		
890.1730 a)	Corrects the Standard for Correctional Facility Urinals.		
890.1750 a)	Correct the Standard for Correctional Facility Service Sinks.		
890. Appendix A	Cleanup of addresses/listings on agencies/ organizations.		
Appendix A. Table A	Updates standards for DWV. Adds: CPVC for chemical waste; Identification of Piping Systems; deletes steel. Updates standards for Building Sewer. Adds: HDPE pipe; Polypropylene Pipe; Identification of Piping Systems. Updates standards for Water Service. Adds: Stainless Steel. Updates standards for Water Distribution. Adds: Pex Distribution Systems & Joints; Stainless Steel. Updates standards for Fixtures & Fixture Fittings. Adds: enameled steel fixtures; trench drains; plastic urinals. Updates standards for Appliances/Appurtenances/ Devices. Under mixing valves, adds: automatic compensating valves for individual showers and tub/shower combinations; mixing valves for hot water distribution; automatic temperature control mixing valves; water temperature limiting devices; mixing valves for emergency equipment; also adds; water closet personal hygiene devices; water softener and treatment devices.	Appendix A. Table D	Minimum Water Dist. Pipe Size. Adds "Dishwasher (commercial) 3/4 inch"; Kitchen sink (commercial) 1 faucet 1/2 inch"; Kitchen sink (commercial) 2 faucets 3/4 inch".
Appendix A. Table B	Minimum Number of Fixtures. Drinking fountains for facilities for employee use changed from 1 per 75 to 1 per 100. Other fixtures for single or multiple dwelling, condo, or apt., hotel/motel; changed from 1 laundry tray or clothes washer connection for each 4 units to 1 for each 10 units. Water closets for assembly places (sports arenas, etc.) for over 800 people changed from 1 for each	Appendix A. Table M	Load Values Assigned to Fixtures. Water Closets Public/Private, Flush Tank changed from 5 to 3 WSFU. Lav. Public, Faucet changed from 1.5 to 1 WSFU. Shower Head Public, Mixing Valve changed from 3 to 2 WSFU. Service sink faucets, Office, etc. changed from 2.25 to 2. Shower stall mixing valve, private changed from 1.5 to 1. Laundry tray faucets, private changed from 2.25 to 2.
		Drawings Illustrations.	Cleanup and Clarification of all

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890.1120	Changes color for non-potable water marking from yellow to continuous purple; changes the reference to the correct standard.	890.1220 a) 8-9	Was 9), now 8). Added Z21.10.1 & Z21.10.1b for space heating.
890.1130 g) 7	Adds "with hot water storage" to the section on closed water systems with regards to backflow devices.	890.1220 a) 9) A)	POU water heaters; non-storage and non-pressurized units are exempt from relief valve requirements.
890.1140 h) 1) A)	Adds "and the water supply shall be protected against backflow and back siphonage by an air gap; or an RPZ."	890.1220 a) 9) B)	POU water heaters; units intended to deliver water 110 degrees or less shall have an internal burnout element. Deletes the option of a factory set thermostat. Units are exempt from relief valve requirements.
890.1140 h) 1) B)	Language changed to read "Chemical dispensing units shall have a dedicated water supply and shut-off valves to each unit. Each unit shall have a backflow device installed to protect against backflow and back siphonage".	890.1220 a) 10) (New)	Steam Heat.B) "All steam heat exchangers operating in excess of 15 psi, but less than 50 psi shall be separated by double wall construction, with an air gap open to the atmosphere between the two walls."
890.1140 k)	Adds requirements for the usage of water powered sump pumps.	890.1220 a) 10) C	Adds requirements for steam heat exchangers
890.1180 b) 3)	Changes the reference to labs certified for water testing.	890.1230 b) 2)	Replaces AGA with CSA
890.1190 a)	Requires a full port valve on inlet and outlet side of the meter.	890.1310 a)	Adds "and clear water vacuum waste systems" in reference to drainage materials.
890.1190 b)	Adds that a drain valve shall be installed on the discharge side of the meter valve when located inside of a building.	890.1320 a)	Requires all underground drainage systems to be installed on undisturbed earth or granular fill. Removes exemption for cast iron.
890.1190 d)	Requires that the valve in the cold water branch to a water storage tank or each water heater shall be within 5 developed feet of the tank or heater and be located in the same room.	890.1340 a)	Adds design language for Drainage similar to the requirements for Water Distribution. Also changes CIPE to CPD.
890.1190 e) & f)	"Shut off" replaced with "line" in reference to valves.	890.1340 b) 4)	Adds that the venting system is excluded from the requirement that any piping underground must be at least 2".
890.1190 g)	Deletes "or back to back" in reference to valve requirements in health care facilities.	890.1360 a) 1)	Adds the words "sewage ejection" between automatic and "pumping".
890.1210 a)	Adds "attic" to places where water pipes cannot be run unless provisions are made to prevent freezing.	890.1370 a)	Removes "When plumbing fixtures are installed on the level immediately above a crawl space, at least one trapped and vented floor drain shall be installed."
890.1210 b)	Replaces "CIPE" with "CPD".	890.1370 e) 1)	Deletes the requirement that floor drains in food establishments must be metallic.
890.1210 f)	Replaces "high pressure" with "pressure surges". (Water Hammer)	890.1370 e) 3)	Adds language to isolate these floor drains (in food establishments) from other sanitary discharge.
890.1220 a) 1)	Adds "the CSA" as an approved testing agency for equipment used for heating and storing hot water.	890.1420 a)	Added to (Vents) Design - "All fixture traps shall be protected by the use of a vent or venting system constructed in accordance with this Part".
890.1220 a) 2) A)	Allows the use of a single wall construction hot water heat exchanger in a solar system if a non-toxic transfer fluid is used. (2-5) rearranges the current language on heat exchangers.	890.1420 b)	Added to Installation - "Fixture Traps shall be protected by the appropriate method as follows: an individual dry vent, a wet vent, a common vent, a circuit or loop vent, an island vent, or a combination waste & vent system."
890.1220 a) 8)	Language changed and moved New 9) for P-O-U water heaters. Removed "instantaneous".		

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