

RBC Amendments to the 2003 IPC *Second Draft 4.2.07*

RBC306.1 Short title. This section will be known and cited as the Plumbing Code.

RBC306.2 Scope. The Plumbing Code shall apply to the erection, installation, alteration, repair, relocation, replacement, addition to or use of plumbing systems within the Jurisdiction.

Additions, alterations, repairs and replacement of plumbing systems shall comply with the provisions for new systems.

RBC306.2.1 Repairs and Alterations.

RBC306.2.1.1 In existing buildings or premises in which plumbing installations are to be altered, repaired or renovated; deviations from the provisions of the Plumbing Code are permitted, provided such deviations are found to be necessary and are first approved by the Building Official.

RBC306.2.1.2 All openings into a drainage or vent system, excepting those openings to which plumbing fixtures are properly connected or which constitute vent terminals, shall be permanently plugged or capped in an approved manner, using the appropriate materials required by the Plumbing Code.

RBC306.2.2 Existing Construction.

No provision of the Plumbing Code shall be deemed to require a change in any portion of a plumbing or drainage system or any other work regulated by the Plumbing Code in or on an existing building or lot

when such work was installed and is maintained in accordance with the law in effect prior to the effective date of the Plumbing Code, except when any such plumbing or drainage system or other work regulated by the Plumbing Code is determined by the Building Official to be in fact dangerous, unsafe, unsanitary or a nuisance and menace to life, health or property.

RBC306.2.3 Conflicts between codes. When the requirements of the Plumbing Code conflict with the requirements of the Mechanical Code, the Plumbing Code shall prevail.

RBC306.3 Code adopted by reference. There is hereby adopted by reference the International Plumbing Code of the International Code Council, Inc, 4051 West Flossmoor Road, Country Club Hills, Il; 60478-5795, 2003 edition. Three copies of the Code are now filed in the office of the Clerk of the Jurisdiction and may be inspected during regular business hours. The Code is being adopted as if set out at length, to include appendices B, D, E, F, save and except the following which are declared to be non-applicable and therefore expressly deleted:

- 1. Chapter 1, Administration except Section 107**
- 2. Chapter 5, Water Heaters.**
- 3. Chapter 12, Special Piping and Storage System**

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RBC306.4 Additions and modifications. The adopted Code is subject to the following additions and modifications:

RBC306.4.1 Section 201.3 Terms defined in other codes. Delete ICC Electrical Code and insert National Electrical Code.

RBC306.4.2 Section 202. General definitions

BACKFLOW. Delete the definition for **Backwater valve**.

BUILDING DRAIN. Delete the definition for **Combined**.

BUILDING SEWER. Delete the definition for **Combined**.

COMBINED BUILDING DRAIN. Delete in its entirety.

COMBINED BUILDING SEWER. Delete in its entirety.

CONDUCTOR. Delete the words “or combined building” from the definition.

GREASE INTERCEPTOR. Delete the definition and insert the following:

An interceptor of at least 750 gallons capacity to serve one (1) or more fixtures and which shall be remotely located.

RBC306.4.3 Section 301.6 Prohibited locations. Delete the exception and replace with the following:

Exception: Floor drains; sumps and sump pumps shall be permitted at the base of the shaft provided they are in accordance the ASME Elevator Code.

RBC306.4.4 Table 303.4 Delete table 303.4 and insert the following:

PRODUCTS AND MATERIALS REQUIRING THIRD-PARTY TESTING AND THIRD PARTY CERTIFICATION

PRODUCT OR MATERIAL	THIRD-PARTY CERTIFIED	THIRD-PARTY TESTED
Potable water supply system components and potable water fixture fittings	Required	
Sanitary drainage and vent system components	Plastic pipe, fittings and pipe related components	All others
Waste fixture fittings	Plastic pipe, fittings and pipe related components	All others
Storm drainage system components	Plastic pipe, fittings and pipe related components	All other

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Plumbing fixtures	Required	
Plumbing appliances	Required	
Backflow prevention devices	Required	
Water Distribution system safety devices	Required	
Special waste system components	Required	

RBC306.4.5 Section 305.5 Pipes through or under footings or foundation walls.

Delete the last sentence and insert the following:

The minimum annular space between the pipe and the sleeve shall be 1/2 inch.

RBC306.4.6 Section 305.6 Freezing.

Delete the last sentence and insert the following:

Exterior water supply system piping shall be installed not less than 12 inches below the frost line and not less than 60 inches below grade.

RBC306.4.7 Section 305.6.1 Sewer depth.

Delete the section in its entirety.

RBC306.4.8 Section 308.6 Sway bracing.

Delete in its entirety.

RBC306.4.9 Table 308.5 Hanger spacing.

Add footnote “c” reading: c. 4 inch and smaller cast iron pipe shall be supported at every joint, pipe larger than 4 inch, at every other joint.

RBC306.4.10 Section 308.9 Stacks. Delete in its entirety.

RBC306.4.11 Section 310.1 Light and ventilation. Delete in its entirety.

RBC306.4.12 Section 310.2 Location of fixtures and piping. Delete in its entirety.

RBC306.4.13 Section 310.3 Interior finish.

Delete in its entirety.

RBC306.4.14 Add Section 310.5 and its exceptions to read:

Urinal partitions. Each urinal utilized by the public or employees shall occupy a separate area with walls or partitions to provide privacy. The construction of such walls or partitions shall incorporate waterproof, smooth, readily cleanable and nonabsorbent finish surfaces. The walls or partitions shall begin at a height not more than 12 inches (305mm) from and extend not more than 60 inches (1524mm) above the finished floor surface. The walls or partitions shall extend from the wall surface at each side of the urinal a minimum 18 inches (457mm) or to a point not less than 6 inches (152mm) beyond the outermost lip of the urinal measured from the finished back wall, whichever is greater.

Exceptions:

1. Urinal partitions shall not be required in a single occupancy or unisex toilet room with a lockable door.
2. Toilet rooms in a daycare and child care facilities containing two or more urinals shall be permitted to have one urinal without partitions.

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RBC306.4.15 Section 311 Toilet facilities for workers. Delete in its entirety.

RBC306.4.16 Section 312.1 Required tests. Delete the words “for piping systems other than plastic” from the section.

RBC306.4.17 Section 312.1.1 Test gauges. Delete items 1, 2, and 3, insert the following: Test pressure gauge scales shall be graduated over a range of not less than one and one-half times and not greater than four times the maximum test pressure. Gauge increments shall be no greater than one pound for tests of 10 pounds or less nor greater than 2 pounds for tests over 10 pounds.

RBC306.4.18 Section 312.2 Drainage and vent water test. Add an exception to read: **Exception:** An underslab plumbing base inspection may be tested with no less than a 5-foot head of water.

RBC306.4.19 Section 312.4 Drainage and vent final test. Delete in its entirety

RBC306.4.20 Section 312.5 Water supply test. Delete the words “for piping systems other than plastic” from the section.

RBC306.4.21 Section 312.6 Gravity sewer test. Delete in its entirety.

RBC306.4.22 Section 312.7 Forced sewer test. Delete in its entirety.

RBC306.4.23 Section 312.9 Inspection and testing of backflow prevention assemblies. Delete in its entirety.

RBC306.4.24 Section 314 Condensate disposal. Delete in its entirety.

RBC306.4.25 Section 402.4 Sheet Lead. Delete the section and insert the following:

Sheet lead shall not be used for plumbing fixtures.

RBC306.4.26 Table 403.1

1. Change the wording for lavatories for row 2, Business, to read: 1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80.
2. Delete the requirement for Bathtubs/Shower from NO. 8, Storage.

RBC306.4.27 Table 403.1 Add the following exceptions after the footnotes:
Exception:

1. Bar sinks may be substituted for drinking fountains
2. A service sink and drinking fountain are not required if separate facilities are not required for each gender.
3. Building categories not shown on this table shall be considered separately by the building official.

RBC306.4.28 Section 403.2 Separate facilities. Delete Exception #4 and replace with: 4. In mercantile or storage occupancies with a total floor area of 3,000 square feet (278.7 m) or less, one toilet facility, designed for use by no more than one person at a time, shall satisfy the requirements for serving customers and employees of both genders.

RBC306.4.29 Section 405.3.2 Public lavatories. Add an exception to read:
Exception: E occupancies.

RBC306.4.30 Section 405.5 Water-tight joints. Add an exception to read:
Exception: Floor mounted water closets or bidets.

RBC306.4.31 Section 406.1 Approval. Delete in its entirety.

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RBC306.4.32 Section 406.3 Waste connection Delete the last sentence.

Add an exception to read:

Exception: Gravity drain clothes washers may drain into an indirect waste receptor.

RBC306.4.33 Section 409.1 Approval. Delete in its entirety.

RBC306.4.34 Section 410.1 Approval. Delete the last sentence.

RBC306.4.35. Add new Section 412.5 with exceptions to read:

Section 412.5 Floor drain locations.

Emergency floor drains shall be provided at the following locations in the same room:

1. Within five (5) feet of a water meter and/or water service backflow prevention device.
2. At each water heater equipped with a T&P relief valve and/or water connected appliance location.

Exceptions:

1. Backflow preventers with the drain piped to an approved location.
2. Water heaters provided with a drain pan piped to an approved location.
3. Crawl spaces or attics.

A floor drain with a strainer diameter of six (6) inches or larger may be considered an “approved type” waste receptor as required in Section 802.3 Waste receptors.

RBC306.4.36 Section 413.1 Approval. Delete the first and second sentences.

RBC306.4.37 Section 416.2 Cultured marble lavatories. Delete in its entirety.

RBC306.4.38 Section 417.5.2.3 Sheet lead. Delete in its entirety.

RBC306.4.39 Chapter 5 Water Heaters. Delete in its entirety; see RBC305.4.103 Section 624 Water Heaters.

RBC306.4.40 Section 601.1 Scope. Add an exception to read:

Exception: Water supply systems owned and operated by municipalities, rural water districts, privately owned water purveyors and other such entities.

RBC306.4.41 Section 602.3.3 Water quality Delete the words, “prior to connection to the plumbing system” in the last sentence.

RBC306.4.42 Section 602.3.4 Disinfection of system. Delete in its entirety.

RBC306.4.43 Section 602.3.5 Pumps Delete the last two sentences.

RBC306.4.44 Section 602.3.5.1 Pump enclosure Delete the first sentence.

RBC306.4.45 Section 604.2 System interconnection. Delete in its entirety.

RBC306.4.46 Section 604.3 Add an exception to read:

Exception: For 3- and 4- plex residential occupancies, one- and two-family residential occupancies use Appendix E Section E201.

RBC306.4.47 Section 604.9 Water hammer. Add exception:
Exception: Single family dwellings.

RBC306.4.48 Section 605.5 Fittings. Delete the sentence reading: The fittings shall not have ledges, shoulders or reductions capable of retarding or obstructing flow in the piping.

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RBC306.4.49 Section 605.9 Prohibited joints and connections.

Delete item #4. Saddle type fittings.

RBC306.4.50 Section 606.1 Location of full open valves. Change item # 4 to read:

4. On the base of every water pipe riser in occupancies other than 3- and 4-plex residential occupancies that are two stories or less in height and in one- and two-family residential occupancies.

Add item #9 to read:

9. On the water supply pipe to each irrigation system.

RBC306.4.51 Section 606.2 Location of shutoff valves. Change item #1 to read:

1. On the fixture supply at each plumbing fixture other than bathtubs and showers in one- and two-family residential occupancies, and other than in guestrooms that are provided with individual shutoff valves in hotels, motels, boarding houses, and similar occupancies.

Delete item #2 in its entirety.

Add an exception to read:

Exception: Manifold systems with individual shutoff valves for each fixture at the manifold.

RBC306.4.52 Section 606.4 Valve identification. Delete in its entirety.

RBC306.4.53 Section 607.2.1 Piping insulation. Add exception.

Exception: Where the circulating hot water system pump is controlled by an integral timer.

RBC306.4.54 Section 607.2.3 Recirculating pump. Add to the end of the sentence: or install per manufacturer's instructions.

RBC306.4.55 Section 607.4 Flow of hot water to fixtures. Add an exception to read:

Exception: Deck mounted tub faucets.

RBC306.4.56 Section 608.15 Add an exception to read:

Exception: This section shall not apply to kitchen sink and personal shower sprays in R occupancies.

RBC306.4.57 Section 608.16.3 Heat exchangers Add exception to read:

Exception: R-3 occupancies

RBC306.4.58 Section 608.17 Protection of individual water supplies. Delete the words "in accordance with Sections 608.13.1, 608.13.2, 608.13.3, 608.13.7, or 608.13.8.

RBC306.4.59 Section 608.17.1 Well locations. Delete in its entirety.

RBC306.4.60 Section 608.17.2 Elevation. Delete in its entirety.

RBC306.4.61 Section 608.17.3 Depth. Delete in its entirety.

RBC306.4.62 Section 608.17.4 Water-tight casing. Delete in its entirety.

RBC306.4.63 Section 608.17.5 Drilled or driven well casings. Delete in its entirety.

RBC306.4.64 Table 608.17.1 Distance from contamination to private water supplies and pump suction lines. Delete in its entirety.

RBC306.4.65 Section 608.17.6 Dug or bored well casings. Delete in its entirety.

RBC306.4.66 Section 608.17.7 Cover. Delete in its entirety.

RBC306.4.67 Section 608.17.8 Drainage. Delete in its entirety.

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RBC306.4.68 Section 610 Disinfection of potable water system. Delete in its entirety.

RBC306.4.69 Section 701.2 Sewer required. Delete the words “in accordance with the *International Private Sewage Disposal Code*.”

RBC306.4.70 Section 701.5 Damage to drainage system or public sewer. Delete the words “as directed by the code official”.

RBC306.4.71 Section 702.3 Building sewer pipe. Delete in its entirety.

RBC306.4.72 Section 702.6 Lead bends and traps. Delete in its entirety.

RBC306.4.73 Table 702.3 Building sewer pipe. Delete in its entirety.

RBC306.4.74 Section 703. Building Sewer. Delete in its entirety.

RBC306.4.75 Section 705.8.2 Solvent cementing. Add the following exception:
Exception: Clear primer is acceptable.

RBC306.4.76 Section 705.14.2 Solvent cementing. Add the following exception:
Exception: Clear primer is acceptable.

RBC306.4.77 Table 706.3 Fittings for change of direction. Delete footnotes a. and b.

RBC306.4.78 Section 708.3.1 Horizontal drains within buildings. Delete in its entirety and insert: Each horizontal drainage pipe shall be provided with a clean out at its upper terminal and each run of piping, which is more than one hundred (100) feet in total developed length, shall be provided with a cleanout for each one hundred (100) feet, or fraction thereof in length of such piping.

Exceptions:

1. Cleanouts may be omitted on a horizontal drain line less than five feet in length unless such line is serving sinks or urinals.
2. Cleanouts may be omitted on any horizontal drainage pipe installed on a slope of seventy-two degrees (1.26 rad) or less from the vertical (one-fifth bend).
3. Excepting the building drain and its horizontal branches, a cleanout shall not be required on any pipe or piping which is above the floor level of the lowest floor of the building.
4. An approved type of two-way cleanout fitting, installed inside the building wall near the connection between the building drain and building sewer or installed outside of a building at the lower end of the building drain and extended to grade, may be substituted for an upper terminal cleanout.

RBC306.4.79 Section 708.3.2 Building Sewers Delete in its entirety.

RBC306.4.80 Section 708.3.3 Changes of direction. Delete in its entirety and insert: An additional cleanout shall be provided in a drainage line for each aggregate horizontal change of direction exceeding one hundred thirty five (135) degrees (2.36 rad).

RBC306.4.81 Section 708.3.4 Base of stack. Delete in its entirety.

RBC306.4.82 Section 708.3.6 Manholes. Delete in its entirety.

RBC306.4.83 Section 712.2. Valves required. Delete the **Exception** entirely.

RBC306.4.84 Section 712.4.1 Macerating toilet systems. Delete in its entirety.

RBC306.4.85 Section 715 Backwater Valves. Delete in its entirety.

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RBC306.4.86 Section 802.1.7 Commercial dishwashing machines. Delete and insert the following: The discharge from a commercial dishwashing machine shall be through an air gap or air break into a standpipe or the tailpiece of a waste receptor.

RBC306.4.87 Section 904.1 Roof extensions. Insert the word “six” for [number] and change (mm) to read (152mm).

RBC306.4.88 Section 917.3 Where permitted. Delete the section and insert: Automatic air admittance valves may be permitted for use on fixtures located on the same floor at the following locations: Islands, peninsulas, under windows, at bearing walls, basement finish, renovations, tenant improvements and other applications where conventional venting methods are not possible due to existing construction and structural conditions.

RBC306.4.89 Section 1002.4 Trap seals. Delete the second sentence and insert: Where a trap seal is subject to loss by evaporation, a trap seal primer valve, or other approved automatic method to prevent sewer gas from entering the space shall be installed.

RBC306.4.90 Section 1002.8 Recess for trap connection. Delete entire section.

RBC306.4.91 Section 1002.10.Plumbing in mental health centers. Delete the section and insert:
Plumbing in correctional and mental health centers. In correctional and mental health centers, pipes and traps shall not be exposed.

RBC306.4.92 Section 1003.3.4 Grease traps and grease interceptors. Delete the

words grease interceptor from the section heading and body.

RBC306.4.93 Section 1101.2 Where required. Delete the first sentence and insert: All roofs shall drain into a storm sewer system, or to an approved place of disposal.

RBC306.4.94 Section 1101.8 Cleanouts required. Delete the exception

RBC306.4.95 Section 1101.9 Backwater valves. Delete in its entirety.

RBC306.4.96 Section 1102.5 Subsoil drain pipes. Delete in its entirety.

RBC306.4.97 Section 1103 Traps. Delete in its entirety.

RBC306.4.98 Section 1104.2 Combining storm with sanitary drainage. Delete in its entirety

RBC306.4.99 Section 1108 Combined sanitary and storm system. Delete in its entirety.

RBC306.4.100 Section 1111 Subsoil drains. Delete in its entirety.

RBC306.4.101 Section 1112 Building Subdrains. Delete and insert:
Building Storm Subdrains.

RBC306.4.102 Section 1112.1 Building Subdrains. Delete the section and insert.
Building storm subdrains. Building storm subdrains located below the public storm sewer level shall discharge into a sump or receiving tank, the contents of which shall be automatically lifted and discharged into the storm drainage system as required for building sumps. The sump and pumping equipment shall comply with section 1113.1.