



## 2015 PLUMBING CODE CHANGES

### Chapter 3 General Regulations

301.3 Flood Hazard Areas. Plumbing not allowed unless system is designed to stop water from entering system.

310.1 Fittings. Must use only double hub sanitary tapped tee for vertical connection, no double tee on drains.

312.9 Steel Nail Plates. Plastic and copper piping penetrating framing members to within 1 inch of the exposed framing shall be protected by steel nail plates not less than No. 18 gauge in thickness. The steel nail plate shall extend along the framing member not less than 1 1/2 " beyond the outside diameter of the pipe or tubing.

Table 313.1 Hangers and supports. Support every 4', allow for expansion at 30', No more 35' rule. Support at each horizontal branch connection.

318.2 Pressure Test gauges. Required pressure tests of 10 psi or less shall be performed with gauges of 0.10 psi incrimination or less.

318.5 Pressure Range. Test gauges shall have a pressure range not exceeding twice the test pressure applied.

### Chapter 4 Plumbing Fixtures and Fittings

403.4 Metered Faucets. Self-closing faucets shall be installed on lavatories at service stations, restaurants, convention halls and similar transient businesses. Maximum of .26 gallons per use.

404.1 Overflows. Tubs are not required to have overflows if not provided with one.

408.4 Showers shall have a waste outlet and fixture tailpiece not less than 2" in diameter.

408.7 Lining for Showers. Regulated.

408.7.1 Testing of Shower Receptors required.

414.3 Dishwasher Drainage Connection. Discharge air gap fitting required per 807.4.

418.3 Floor Drain Location. Required in public restrooms containing more than one toilet or containing at least one toilet and one urinal and commercial kitchens and laundry rooms.

421.2 Limitation of Hot Water Temperature for Public Lavatories. Hot water delivered from public-use lavatories shall be limited to a maximum temperature of 110°F by a device that is in accordance with ASSE 1070 or CSA B 125.3 The water heater thermostat shall not be considered a control for meeting this provision.

Chapter 5 Water Heaters

Number of bathrooms	1 to 1.5			2 to 2.5				3 to 3.5			
Number of bedrooms	1	2	3	2	3	4	5	3	4	5	6
First hour rating <sup>2</sup> (Gallons)	42	54	54	54	67	67	80	67	80	80	80

1. First hour rating is on "Energy Guide" label.
2. Solar Water heaters shall be sized to meet the appropriate first hour rating as shown in table.

507.3 Ground support for water heaters. Must be on 3" platform.

507.5 Relief Valve Discharge. Discharge from a relief valve into a water heater pan shall be prohibited. Discharge relief valves shall terminate to a safe place of disposal within 18" of floor.

Chapter 6 Water supply and distribution

601.12 Hot Water Recirculation. Over 100' length or more than 3 stories required.

603.2 Testing of All Backflow Prevention Devices. PVB as well as RPZ and all other testable backflow valves must be tested annually.

603.5.10 or Hot Water Boilers. Potable water connections to steam or hot water boilers shall be protected from backflow by a double check valve backflow prevention assembly or reduced pressure principle backflow prevention assembly in accordance with Table 603.2. Where chemicals are introduced into the system a reduced pressure principle backflow prevention assembly shall be provided in accordance with Table 603.2.

603.5.12 Beverage Dispensers. The ASSE 1012 device is no longer listed as an approved backflow prevention device (not listed as a mandatory standard in chapter 14); they are also not listed for residential boilers. If the installer is going to need a device larger than 3/8, they would have to use a dual check assembly (1015) for low hazard taste and odor. For carbonated beverages larger than 3/8 they may be looking for an RPZ on the carbonator.

603.5.23 All testable backflow preventers must be tested each year. (Faribault Requirement: Separate Lawn Irrigation permit required on all installs, including new homes).

604.9 Plastic service outside underground to have tracer wire.

605.10 PEX Plastic Tubing and Joints. "Sharkbite" fitting approved per ASSE 1061 (Table 604.1)

606.0 Valves. Stop valve required per city ordinance and installed between curb and meter.

609.10 Shock Arrestors. Where solenoids are located.

Table 610.3 Hose bibb can be 1/2". Also footnote 3? 3/4 of the total listed value.

Table 610.4 Fixture unit table has changed.

611.2 Air Gap Water Softeners. 3/4" supply = 1 1/2" gap, 1" supply = 2" gap.

Table 611.4 Sizing of Water Softeners. Bathroom group sizing must be taken into account.

## Chapter 7 Sanitary Drainage

Table 701.1. Only schedule 40 building sewers.

Table 702.1 & 703.2. Fixture unit value changed, 1 ½" drain is 1 horizontal & 2 vertical, this will affect kitchen sinks, & bathtubs. 8 horizontal & 16 vertical on 2", 3" toilets on 3" horizontal.

Table 702.1. Footnote 2. Kitchen sink, laundry (tubs) & urinals (with 1 ½" trap) required to have 2" drains. Showers minimum 2" trap clothes washer 2" trap.

Table 703.2. Loading Rate for Drainage and Vent Piping. 1-DFU on 1 ½" horizontal branch drains, 8-DFU on 2" horizontal branch drains, no toilets.

704.2. (NO more cross T fittings) Must discharge into approved double-fixture drainage fitting.

707.4. Location. Each horizontal drainage pipe shall be provided with a clean-out at its upper terminal, and each nm of piping, that is more than 100 feet (30 4SO mm) in total developed length, shall be provided with a clean-out for each 100 feet (304SO mm), or fraction thereof, in length of such piping. An additional clean out shall be provided in a drainage line for each aggregate horizontal change of direction exceeding 135 degrees (2.36 rad).

1. Cleanouts shall be permitted to be omitted on a horizontal drain line less than 5 feet (1524 mm) in length unless such line is serving sinks or urinals.
2. Cleanouts shall be permitted to be omitted on a horizontal drainage pipe installed on a slope of 72 degrees (1.26 rad) or less from the vertical angle (one-fifth bend).
3. Except the building drain and its horizontal branches, a cleanout shall not be required on a pipe or piping that is above the floor level of the lowest floor of the building.

710.1 Backwater valve required when floor is below upstream manhole cover. Cleanouts for drains passing through backwater valve must be labeled "backwater valve downstream". Fixtures on floor levels above such elevations shall not discharge through the backwater valve. Must be able to cleanout pipe on street side of backwater valve.

723 Building sewer line to be air tested.

## Chapter 9 Vents

904.1. Size of Vents: The aggregate cross-sectional area of which shall not be less than that of the largest required building sewer. i.e.: 4" building sewer = 1-4" vent or 2-3" vents or 1-3" and 2' vents or 4-2" vents. One full size vent not required anymore?

908.2 Horizontal Wet Venting: Allowed per section 908.2.1.1 through 908.2.1.5.

## Chapter 10 Traps and Interceptors

Table 1002.2. Trap Arms: Developed length of trap of a toilet (measured from top of closet flange to inner edge of vent) = 6'.

1002.3. Change of direction (trap arms) if over 90 degrees, must install cleanout. Exception: 3" can change 135 degrees without cleanout.

## Chapter 17 Non-potable Rainwater Catchment Systems

New standard

### Installation Standards for ABS DWV

IAPMO IS 5-2006- 2.2.2: Every 30' requires a 24" -45 degree offset

### Installation Standards for PVC DWV

IAPMO IS 9-2006- 2.3.2: Every 30' requires a 24" -45 degree offset



## CODE BOOK FACT SHEET

# 2015 MINNESOTA PLUMBING CODE

### 2015 MINNESOTA PLUMBING CODE

- Regulates the design and installation of plumbing systems statewide for all buildings including new, addition, alteration, repair and replacement.
- Contains requirements for drain, waste, and vent systems, water supply and distribution systems, backflow prevention, water conditioning equipment, roof drainage systems, plumbing fixtures, materials and non-potable rainwater catchment systems.
- Minnesota Rules, Chapter 4714. The rule incorporates by reference Chapters 2 to 11, 14, and 17 of the 2012 edition of the Uniform Plumbing Code (UPC), and UPC Appendices A, B and I, except for IS 12-2006, IS 13-2006, IS 26-2006, SIS 1-2003 and SIS 2-2003 of Appendix I, with Minnesota amendments.

### EFFECTIVE DATE

Minnesota Plumbing Code, Chapter 4714, is effective **Jan. 23, 2016.**

As of Jan. 23, 2016, Chapter 4715 is repealed.

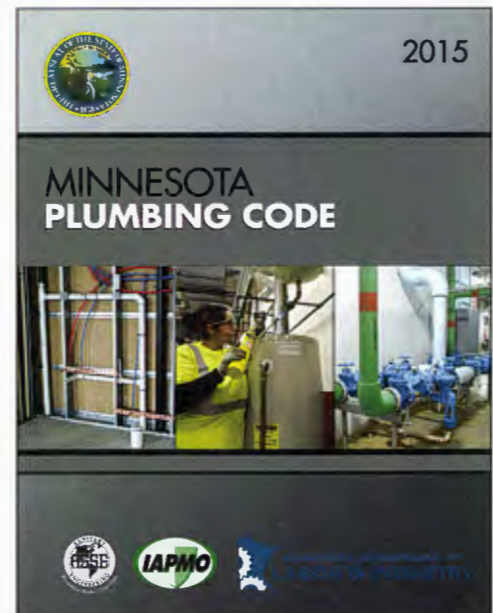
### CODE BOOK

The 2015 Minnesota Plumbing Code is published by the International Association of the Plumbing and Mechanical Officials (IAPMO) for Minnesota in a single, reformatted custom code book. It incorporates Minnesota amendments and reads as a unified code book. It also includes Chapter 4716, Plumber Licensing and Apprentice Registration, and Chapter 1300, Minnesota Administration Code.

The 2015 Minnesota Plumbing Code is anticipated to be available for purchased in January 2016 in a soft-cover format. Online viewing will be available soon after publication of the 2015 Minnesota Plumbing Code.

### TO PURCHASE CODE BOOKS

- Minnesota's Bookstore  
www.minnesotasbookstore.com  
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This flier is an overview of Minnesota's Plumbing Code and can be provided in different forms, such as large print, Braille or audio, by calling (651) 284-5012 or 1-800-657-3944. Visit [www.dli.mn.gov/cclcd/codes.asp](http://www.dli.mn.gov/cclcd/codes.asp) for more information about this code. (Version 1215)