



Linda McCulloch
MONTANA SECRETARY OF STATE

HOME SEARCH ABOUT US CONTACT US HELP

Rule: 24.301.301

Rule Title: INCORPORATION BY REFERENCE OF UNIFORM PLUMBING CODE

Department: [LABOR AND INDUSTRY](#)
Chapter: [BUILDING CODES](#)
Subchapter: [Plumbing Requirements](#)

[Prev](#) [Up](#) [Next](#)



[Add to Favorites](#)

Latest version of the adopted rule presented in Administrative Rules of Montana (ARM):

[Printer Friendly Version](#)

24.301.301 INCORPORATION BY REFERENCE OF UNIFORM PLUMBING CODE

(1) The department adopts and incorporates by reference the Uniform Plumbing Code, 2012 edition, unless another edition is specifically stated, together with the following appendix chapters and amendments:

- (a) Appendix A, Recommended Rules for Sizing the Water Supply System is adopted.
- (b) Appendix B, Explanatory Notes on Combination Waste and Vent Systems is adopted.
- (c) Appendix D, Sizing Stormwater Drainage Systems is adopted.
- (d) Subsection [103.1.2](#), is amended with the addition of the following language: The requirements for who must be licensed to perform plumbing work is regulated by Title 37, chapter 69, MCA.
- (e) Subsections 102.3, 102.4, 102.5, 103.1, 103.2, 103.3, 103.4, 103.5, and 103.6 will be left as is for use by local governments (i.e., municipalities and counties), but will not be used by the department and the state of Montana. For the purposes of enforcement by the department, these subsections are replaced with provisions of Title 50, chapter 60, part 5, MCA.
 - (i) No permit is required for any minor replacement or repair work, the performance of which does not have a significant potential for creating a condition hazardous to public health and safety.
 - (ii) No permit is required where the installation is exempt under the provisions of [50-60-503](#) or [50-60-506](#), MCA.
 - (iii) The requirements for permits do not apply to regularly employed maintenance personnel doing maintenance work on the business premises of their employer unless work is subject to the permit provisions of these rules.
 - (iv) Factory-built buildings covered by an insignia issued by the department need not have a plumbing permit for the construction of the unit; however, a permit will still be required for on-site work, as provided for in these rules.
- (f) Delete Table 103.4 - PLUMBING PERMIT FEES and replace with the following schedule:
 - (i) for each plumbing fixture \$10
 - (ii) water service - domestic or commercial 20
 - (iii) for each building sewer and each trailer park sewer 20
 - (iv) storm drains and storm drainage 20
 - (v) for each water heater (replacement or new) 25
 - (vi) for each industrial water pretreatment interceptor, including its tray and vent, excepting kitchen type grease interceptors functioning as fixture traps 30
 - (vii) for alteration or repair of water piping and/or water treatment equipment 30
 - (viii) for repair or alteration of drainage or vent piping 30
 - (ix) for each lawn sprinkler system and fire protection system or any one meter, including backflow protection devices therefore 30
 - (x) for each hose bibb, vacuum breakers, or backflow protective devices on tanks, vats, etc., or for installation on unprotected plumbing fixtures, including necessary water piping 6 each
 - (xi) requested plumbing inspection fee

(provided that such service is not in excess of one hour in duration, and then \$35 for each 30 minutes or fractional part thereof in excess of one hour. Travel and per diem may be charged as per the state of Montana's existing rate for these items) 75

(xii) reinspection (provided the \$30 does not exceed the original permit fee, in which case the original fee will be charged) 45

(xiii) for each medical gas type/piping system as follows:

(A) oxygen piping 100

(B) nitrogen piping 100

(C) medical compressed air piping 100

(D) nitrous oxide piping 100

(E) carbon dioxide piping 100

(F) medical vacuum piping 100

(G) any other medical gas piping not included above in (A) through (F) 100

(H) if total outlets for all gases/vacuum piping exceed 20 outlets, then there is an additional fee for each outlet over 20 10

(xiv) for each gray water system (commercial or residential) 60

(g) Section 218, Definition of Plumbing System, is amended to read: "Includes all potable water supply and distribution pipes, all plumbing fixtures and traps, all drainage and vent pipes, building drains and building sewers, including their respective joints and connections, devices, receptacles, and appurtenances within the property line of any premises, and includes water heaters and vents for the premises."

(h) Table 422.1, Minimum Plumbing Facilities, is deleted and replaced with ARM [24.301.351](#), Minimum Required Plumbing Fixtures.

(i) Subsection 507.13, paragraph one is amended to read as follows: "Gas utilization equipment, or any equipment that generates a glow, spark, or flame, in residential garages and in adjacent spaces that open to the garage and are not part of the living space for a dwelling unit shall be installed so that all burners, burner-ignition devices, and heating elements are located not less than 18 inches (450 mm) above the floor unless listed as flammable vapor ignition resistant."

(j) Delete Subsection [603.4.2](#).

(k) Subsection 603.2, Approval of Devices or Assemblies, is amended to read as follows: "Before any device or assembly is installed for the prevention of backflow, it shall have first been approved by the authority having jurisdiction. Devices or assemblies shall be tested for conformity with recognized standards or other standards acceptable to the authority having jurisdiction, so long as those standards are consistent with the intent of this code. All devices or assemblies installed in a potable water supply system for protection against backflow shall be maintained in good working condition by the person or persons having control of such devices or assemblies. If found to be defective or inoperative, the device or assembly shall be repaired or replaced. No device or assembly shall be removed from use or relocated or other device or assembly substituted, without the approval of the authority having jurisdiction."

(l) Subsection [603.5.10](#), is amended with the addition of the following language: "Boiler feed lines, in single-family dwellings on their own private well, may be protected with a dual check valve with intermediate atmospheric vent when a nontoxic transfer fluid is utilized in the boiler."

(m) Subsection [603.5.12](#), Beverage Dispensers, delete the first sentence and replace with: "Potable water supply to carbonated beverage dispensers or coffee machines that may produce back pressure shall be protected by an air gap or a vented backflow preventer in accordance with ASSE 1022."

(n) Subsection 604.0, Materials, is amended to read as follows:

(i) "Water pipe and fittings shall be of brass, copper, cast iron, galvanized malleable iron, galvanized wrought iron, galvanized steel, or other approved materials."

(ii) Cast iron fittings used for water need not be galvanized if over 2 inches (51 mm) in size.

(iii) Asbestos-cement, PB, CPVC, PE, PEX, PEX-AL-PEX or PVC water pipe manufactured to recognized standards may be used for cold water distribution systems outside a building. These approved outside cold water piping materials except for asbestos-cement may extend to a point within the foundation perimeter of the building provided that the piping is buried a minimum of 12 inches, the piping is contained within a protective sleeve where it passes

through concrete construction and the piping does not extend for more than 24 inches out of the ground at such point where it connects to approved interior cold water piping material.

(iv) All materials used in the water supply system, except valves and similar devices shall be of a like material, except where otherwise approved by the administrative authority.

(v) Table 604.1 is amended to add the following: "PB is allowed for hot and cold water distribution."

(o) Subsection 604.2, the exception is amended to read as follows: Exception: Type M copper tubing may be used for water piping when piping is above ground in, or on, a building.

(p) Subsection [605.13.2](#), Solvent Cement Joints, delete the third sentence and replace with the following: "Where surfaces to be joined are cleaned and free of dirt, moisture, oil, and other foreign material, apply approved primer in accordance with ASTM F 656."

(q) Subsection 701.1 is amended to read as follows: "Drainage piping shall be cast iron, galvanized steel, galvanized wrought iron, lead, copper, brass, Schedule 40 ABS DWV, Schedule 40 ABS DWV cellular core, Schedule 40 PVC DWV, Schedule 40 PVC DWV cellular core, extra strength vitrified clay pipe, or other approved materials having a smooth and uniform bore, except that:

"(1) Galvanized wrought iron or galvanized steel pipe shall not be used underground, and it shall be kept at least six inches (152 mm) above ground.

"(2) ABS and PVC DWV piping installations must be installed in accordance with Chapter 15, "Firestop Protection." Except for individual single-family dwelling units, materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a smoke-developed index of not more than 50, when tested in accordance with the Test for Surface-Burning Characteristics of the Building Materials (See the building code standards based on ASTM E-84 and ANSI/UL 723).

"(3) Vitrified clay pipe and fittings shall not be used above ground or where pressurized by a pump or ejector. They shall be kept at least 12 inches (305 mm) below ground.

"(4) Copper tube for drainage and vent piping shall have a weight not less than that of copper drainage tube type DWV."

(r) Subsection 610.8, last sentence, is amended to read as follows: No building supply pipe shall be less than 3/4 inch (19.1 mm) in inside diameter.

(s) Subsection 701.1 (4), is amended with the addition of the following language: Copper tube for underground drainage and vent piping shall have a weight of not less than that of copper tube type L.

(t) Subsection 704.3, is amended by deleting the first sentence and replacing it with, "There may not be a direct connection between the sewerage system and any drains originating from equipment in which food, portable equipment, or utensils are placed." Exception: A warewashing (3-compartment) sink may have a direct connection only when used as a wash bin, rinse bin, and sanitizing bin and shall not be used for any other purpose. Establishments that use the sanitizing bin of their warewashing sink to wash produce or conduct other food preparation must maintain an indirect connection and are not eligible for this exception.

(u) Subsection [705.7.2](#), Solvent Cement Joints, delete the third sentence and replace with the following: "Where surfaces to be joined are cleaned and free of dirt, moisture, oil, and other foreign material, apply approved primer in accordance with ASTM F 656."

(v) Subsection 707.4 is amended by deleting the first sentence and replacing with, "Each horizontal drainage pipe shall be provided with a cleanout at its upper terminal and each run of piping, which is more than 50 feet in total developed length, shall be provided with a cleanout for each 50 feet, or fraction thereof, in length of such piping."

(w) Section 708.1, is amended to read as follows: Horizontal drainage piping shall be run in practical alignment and a uniform slope of not less than 1/4 of an inch per foot or 2 percent toward the point of disposal provided that, where it is impractical due to the depth of the street sewer or to the structural features or to the arrangement of any building or structure to obtain a slope of 1/4 of an inch per foot or 2 percent, any such pipe or piping 2 inches or larger in diameter may have a slope of not less than 1/8 of an inch per foot or 1 percent.

(x) Subsection 710.1, is amended to read as follows: "Where a fixture is installed on a floor level that is lower than the next upstream manhole cover of the public or private sewer serving such drainage piping may be protected from the backflow of sewage by installing an approved type backwater valve. Fixtures on floor levels above such elevation shall not discharge through the backwater valve."

(y) Subsection 718.1, the exception is amended to read as follows: Exception: Where it is

impractical, due to the depth of the street sewer or to the structural features or to the arrangement of any building or structure, to obtain a slope of 1/4 of an inch per foot, any pipe or piping 3 inches or larger in diameter may have a slope of 1/8 of an inch per foot and any such pipe or piping 8 inches in diameter or larger may have a slope of 1/16 of an inch per foot.

(z) Subsection 807.4, Domestic Dishwashing Machine, add exception as follows: "Exception #1: An approved type of indirect waste receptor may be used to receive discharge from domestic dishwashing machines."

(aa) Subsection [903.2.1](#) is amended to read as follows: "Copper tube for underground drainage and vent piping shall have a weight of not less than that of copper tube Type L."

(ab) Subsection 906.1, is amended to read as follows: Each vent pipe or stack shall extend through its flashing and shall terminate vertically not less than 12 inches above the roof nor less than one foot from any vertical surface.

(ac) Subsection 906.3, is amended to read as follows: Vent pipes shall be extended separately or combined, of full required size, not less than 12 inches above the roof or fire wall.

(ad) Subsection 906.7, is amended to read as follows: Frost and Snow Closure: Where frost or snow closure is likely to occur in locations having a minimum design temperature below zero degrees Fahrenheit vent terminals shall be a minimum of 3 inches in diameter, but in no event smaller than the required vent pipe. The change in diameter shall be made inside the building at least 1 foot below the roof and terminate not less than 12 inches above the roof, or as required by the administrative authority.

(ae) Subsection 908.1 is amended to read, "Wet Venting."

(af) Subsection [908.1.1](#) is deleted and replaced with, "Wet venting is limited to drainage piping receiving the discharge from the trap arm of one and two fixture unit fixtures that also serves as a vent for not to exceed four fixtures. All wet vented fixtures shall be within the same story; provided, further, that fixtures with a continuous vent discharging into a wet vent shall be within the same story as the wet vented fixtures."

(ag) Subsection [908.1.2](#), is amended to read as follows: "The piping between any two consecutive inlet levels shall be considered a wet vented section. Each wet vented section shall be a minimum of one pipe size larger than the required minimum waste pipe size of the upper fixture or shall be one pipe size larger than the required minimum pipe size for the sum of the fixture units served by such wet vented section, whichever is larger, but in no case less than two inches."

(ah) Chapter 12, Fuel Piping, is deleted and replaced with the International Fuel Gas Code.

(ai) Chapter 13, Health Care Facilities and Medical Gas and Vacuum Systems, is deleted except for subsections 1303.0, 1304.0, 1305.0, 1306.0, 1307.0, and 1308.0. In lieu of Chapter 13, except for the subsections not deleted, the Department of Labor and Industry adopts and incorporates by reference the National Fire Protection Association's Standard NFPA 99, 2012 edition, Chapters 1 through 5 for the exclusive use as a standard for medical gas and vacuum systems, unless a different edition date is specifically stated, as the standard for the installation of medical gas and vacuum systems. The requirements of this rule shall not be construed as to replace or supersede any additional requirements for testing and certification of medical gas and vacuum systems, including independent third party certification of systems, as may be applicable. NFPA 99 is a nationally recognized standard setting forth minimum standards and requirements for medical gas and vacuum systems. A copy of NFPA 99 may be obtained from the National Fire Protection Association, One Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.

(2) The purpose of this code is to provide minimum requirements and standards for plumbing installations for the protection of the public health, safety, and welfare. The Uniform Plumbing Code is a nationally recognized model code setting forth minimum standards and requirements for plumbing installations. A copy of the Uniform Plumbing Code may be obtained from the Department of Labor and Industry, Bureau of Building and Measurement Standards, P.O. Box 200517, Helena, MT 59620-0517, at cost plus postage and handling. A copy may also be obtained by writing to the International Association of Plumbing and Mechanical Officials, 20001 South Walnut Drive, Walnut, CA 91789.

History: [50-60-203](#), [50-60-504](#), [50-60-508](#), MCA; [IMP](#), [50-60-201](#), [50-60-203](#), [50-60-504](#), [50-60-508](#), MCA; [NEW](#), 1978 MAR p. 380, Eff. 3/25/78; [AMD](#), 1978 MAR p. 1480, Eff. 10/27/78; [AMD](#), 1979 MAR p. 1662, Eff. 12/28/79; [AMD](#), 1981 MAR p. 1052, Eff. 9/18/81; [AMD](#), 1982 MAR p. 2170, Eff. 12/31/82; [TRANS](#), from Dept. of Admin., Ch. 352, L. 1985, Eff. 7/1/85; [AMD](#), 1986

MAR p. 106, Eff. 1/31/86; AMD, 1989 MAR p. 476, Eff. 4/28/89; AMD, 1992 MAR p. 1133, Eff. 5/29/92; AMD, 1994 MAR p. 299, Eff. 2/11/94; AMD, 1996 MAR p. 420, Eff. 2/9/96; AMD, 1997 MAR p. 44, Eff. 1/17/97; AMD, 1997 MAR p. 2061, Eff. 11/18/97; AMD, 1998 MAR p. 2563, Eff. 9/25/98; AMD, 1999 MAR p. 1885, Eff. 10/1/99; AMD, 2000 MAR p. 3168, Eff. 11/10/00; TRANS, from Commerce, 2001 MAR p. 2301; AMD, 2004 MAR p. 571, Eff. 3/12/04; AMD, 2006 MAR p. 567, Eff. 2/24/06; AMD, 2007 MAR p. 112, Eff. 1/26/07; AMD, 2010 MAR p. 1733, Eff. 7/30/10; AMD, 2014 MAR p. 2776, Eff. 11/7/14; AMD, 2016 MAR p. 316, Eff. 2/20/16.

MAR Notices	Effective From	Effective To	History Notes
24-301-309	2/20/2016	Current	History: 50-60-203 , 50-60-504 , 50-60-508 , MCA; <u>IMP</u> , 50-60-201 , 50-60-203 , 50-60-504 , 50-60-508 , MCA; <u>NEW</u> , 1978 MAR p. 380, Eff. 3/25/78; <u>AMD</u> , 1978 MAR p. 1480, Eff. 10/27/78; <u>AMD</u> , 1979 MAR p. 1662, Eff. 12/28/79; <u>AMD</u> , 1981 MAR p. 1052, Eff. 9/18/81; <u>AMD</u> , 1982 MAR p. 2170, Eff. 12/31/82; <u>TRANS</u> , from Dept. of Admin., Ch. 352, L. 1985, Eff. 7/1/85; <u>AMD</u> , 1986 MAR p. 106, Eff. 1/31/86; <u>AMD</u> , 1989 MAR p. 476, Eff. 4/28/89; <u>AMD</u> , 1992 MAR p. 1133, Eff. 5/29/92; <u>AMD</u> , 1994 MAR p. 299, Eff. 2/11/94; <u>AMD</u> , 1996 MAR p. 420, Eff. 2/9/96; <u>AMD</u> , 1997 MAR p. 44, Eff. 1/17/97; <u>AMD</u> , 1997 MAR p. 2061, Eff. 11/18/97; <u>AMD</u> , 1998 MAR p. 2563, Eff. 9/25/98; <u>AMD</u> , 1999 MAR p. 1885, Eff. 10/1/99; <u>AMD</u> , 2000 MAR p. 3168, Eff. 11/10/00; <u>TRANS</u> , from Commerce, 2001 MAR p. 2301; <u>AMD</u> , 2004 MAR p. 571, Eff. 3/12/04; <u>AMD</u> , 2006 MAR p. 567, Eff. 2/24/06; <u>AMD</u> , 2007 MAR p. 112, Eff. 1/26/07; <u>AMD</u> , 2010 MAR p. 1733, Eff. 7/30/10; <u>AMD</u> , 2014 MAR p. 2776, Eff. 11/7/14; <u>AMD</u> , 2016 MAR p. 316, Eff. 2/20/16.
24-301-286	11/7/2014	2/20/2016	History: 50-60-203 , 50-60-504 , 50-60-508 , MCA; <u>IMP</u> , 50-60-201 , 50-60-203 , 50-60-504 , 50-60-508 , MCA; <u>NEW</u> , 1978 MAR p. 380, Eff. 3/25/78; <u>AMD</u> , 1978 MAR p. 1480, Eff. 10/27/78; <u>AMD</u> , 1979 MAR p. 1662, Eff. 12/28/79; <u>AMD</u> , 1981 MAR p. 1052, Eff. 9/18/81; <u>AMD</u> , 1982 MAR p. 2170, Eff. 12/31/82; <u>TRANS</u> , from Dept. of Admin., Ch. 352, L. 1985, Eff. 7/1/85; <u>AMD</u> , 1986 MAR p. 106, Eff. 1/31/86; <u>AMD</u> , 1989 MAR p. 476, Eff. 4/28/89; <u>AMD</u> , 1992 MAR p. 1133, Eff. 5/29/92; <u>AMD</u> , 1994 MAR p. 299, Eff. 2/11/94; <u>AMD</u> , 1996 MAR p. 420, Eff. 2/9/96; <u>AMD</u> , 1997 MAR p. 44, Eff. 1/17/97; <u>AMD</u> , 1997 MAR p. 2061, Eff. 11/18/97; <u>AMD</u> , 1998 MAR p. 2563, Eff. 9/25/98; <u>AMD</u> , 1999 MAR p. 1885, Eff. 10/1/99; <u>AMD</u> , 2000 MAR p. 3168, Eff. 11/10/00; <u>TRANS</u> , from Commerce, 2001 MAR p. 2301; <u>AMD</u> , 2004 MAR p. 571, Eff. 3/12/04; <u>AMD</u> , 2006 MAR p. 567, Eff. 2/24/06; <u>AMD</u> , 2007 MAR p. 112, Eff. 1/26/07; <u>AMD</u> , 2010 MAR p. 1733, Eff. 7/30/10; <u>AMD</u> , 2014 MAR p. 2776, Eff. 11/7/14.
24-301-246	7/30/2010	11/7/2014	History: 50-60-203 , 50-60-504 , 50-60-508 , MCA; <u>IMP</u> , 50-60-201 , 50-60-203 , 50-60-504 , 50-60-508 , MCA; <u>NEW</u> , 1978 MAR p. 380, Eff. 3/25/78; <u>AMD</u> , 1978 MAR p. 1480, Eff. 10/27/78; <u>AMD</u> , 1979 MAR p. 1662, Eff. 12/28/79; <u>AMD</u> , 1981 MAR p. 1052, Eff. 9/18/81; <u>AMD</u> , 1982 MAR p. 2170, Eff. 12/31/82; <u>TRANS</u> , from Dept. of Admin., Ch. 352, L. 1985, Eff. 7/1/85; <u>AMD</u> , 1986 MAR p. 106, Eff. 1/31/86; <u>AMD</u> , 1989 MAR p. 476, Eff. 4/28/89; <u>AMD</u> , 1992 MAR p. 1133, Eff. 5/29/92; <u>AMD</u> , 1994 MAR p. 299, Eff. 2/11/94; <u>AMD</u> , 1996 MAR p. 420, Eff. 2/9/96; <u>AMD</u> , 1997 MAR p. 44, Eff. 1/17/97; <u>AMD</u> , 1997 MAR p. 2061, Eff. 11/18/97; <u>AMD</u> , 1998 MAR p. 2563, Eff. 9/25/98; <u>AMD</u> , 1999 MAR p. 1885, Eff. 10/1/99; <u>AMD</u> , 2000 MAR p. 3168, Eff. 11/10/00; <u>TRANS</u> , from Commerce, 2001 MAR p. 2301; <u>AMD</u> , 2004 MAR p. 571, Eff. 3/12/04; <u>AMD</u> , 2006 MAR p. 567, Eff. 2/24/06; <u>AMD</u> , 2007 MAR p. 112, Eff. 1/26/07; <u>AMD</u> , 2010 MAR p. 1733, Eff. 7/30/10.
1/26/2007	7/30/2010		History: 50-60-203 , 50-60-504 , 50-60-508 , MCA; <u>IMP</u> , 50-60-201 , 50-60-203 , 50-60-504 , 50-60-508 , MCA; <u>NEW</u> , 1978 MAR p. 380, Eff. 3/25/78; <u>AMD</u> , 1978 MAR p. 1480, Eff. 10/27/78; <u>AMD</u> , 1979 MAR p. 1662, Eff. 12/28/79; <u>AMD</u> , 1981 MAR p. 1052, Eff. 9/18/81; <u>AMD</u> , 1982 MAR p. 2170, Eff. 12/31/82; <u>TRANS</u> , from Dept. of Admin., Ch. 352, L. 1985, Eff. 7/1/85; <u>AMD</u> , 1986 MAR p. 106, Eff. 1/31/86; <u>AMD</u> , 1989 MAR p. 476, Eff. 4/28/89; <u>AMD</u> , 1992 MAR p. 1133, Eff. 5/29/92; <u>AMD</u> , 1994 MAR p. 299, Eff. 2/11/94; <u>AMD</u> , 1996 MAR p. 420, Eff. 2/9/96; <u>AMD</u> , 1997 MAR p. 44, Eff. 1/17/97; <u>AMD</u> , 1997 MAR p. 2061, Eff. 11/18/97; <u>AMD</u> , 1998 MAR p. 2563, Eff. 9/25/98; <u>AMD</u> , 1999 MAR p. 1885, Eff. 10/1/99; <u>AMD</u> , 2000 MAR p. 3168, Eff. 11/10/00; <u>TRANS</u> , from Commerce, 2001 MAR p. 2301; <u>AMD</u> , 2004 MAR p. 571, Eff. 3/12/04; <u>AMD</u> , 2006 MAR p. 567, Eff. 2/24/06; <u>AMD</u> , 2007 MAR p. 112, Eff. 1/26/07.

[Home](#) | [Search](#) | [About Us](#) | [Contact Us](#) | [Help](#) | [Disclaimer](#) | [Privacy & Security](#)

For questions regarding the content, interpretation, or application of a specific rule, please contact the agency that issued the rule. A directory of state agencies is available online at <http://www.mt.gov/govt/agencylisting.asp>.

For questions about the organization of the ARM or this web site, contact sosarm@mt.gov.