

24.301.301 INCORPORATION BY REFERENCE OF UNIFORM PLUMBING CODE

(1) The department adopts and incorporates by reference the Uniform Plumbing Code, 2021 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 C, Alternate Plumbing Systems is adopted.

(d) Appendix D, Sizing Stormwater Drainage Systems is adopted.

(e) Appendix K, Potable Rainwater Catchment Systems is adopted.

(f) Appendix L, Sustainable Practices is adopted.

(g) Appendix M, Peak Water Demand Calculator is adopted.

(h) Appendix N, Impact of Water Temperature on the Potential for Scalding and Legionella Growth is adopted.

(i) Subsection 103.3.1, Licensing, 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.

(j) Subsections 104.1, 104.2, 104.3, 104.3.2, 104.4, 104.5, 105.0, 105.4, 106.1, 106.3, and 107.0 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.

(k) Delete Table 104.5 - 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

(l) Section 218, Definition of Plumbing System, is amended to read: "Includes all potable water and alternate water sources including 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."

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

(n) Delete Subsection 603.4.2.

(o) 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."

(p) Subsection 604.3, 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.

(q) Subsection 605.12.2, 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."

(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 612.0, Residential Fire Sprinkler Systems, is deleted in its entirety.

(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 705.6.2, 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 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.

(y) Subsection 807.3, Domestic Dishwashing Machine, add exception as follows: "Exception #1: The waste connection of a residential dishwasher shall connect directly to a wye branch fitting on the tailpiece of the kitchen sink, directly to the dishwasher connection of a food waste disposer, or through an air break to a standpipe. The waste line of a residential dishwasher shall rise and be securely fastened to the underside of the sink rim or countertop."

(z) Subsection 906.1, the first sentence 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.

(aa) 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.

(ab) 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.

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

(ad) 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."

(ae) 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."

(af) Subsection 908.2 is amended with addition of the following: "Bathroom group locations include private bathrooms, private patient hospital rooms, commercial toilet rooms with only one toilet, one lavatory and may include one floor drain."

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

(ah) Chapter 13, Health Care Facilities and Medical Gas and Vacuum Systems, is deleted except for Subsections 1301.0, 1302.0, and 1303.0, Health Care Facilities. In lieu of Chapter 13, except for the subsections not deleted, the department adopts and incorporates by reference the National Fire Protection Association's Standard NFPA 99, 2018 edition, Chapters 1 through 5 and Chapter 15 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 at www.nfpa.org.

(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 International Association of Plumbing and Mechanical Officials at www.iapmo.org.

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; [AMD](#), 2019 MAR p. 2242, Eff. 12/7/19; [AMD](#), 2022 MAR p. 911, Eff. 6/11/22.

24.301.351 MINIMUM REQUIRED PLUMBING FIXTURES

(1) The following table will be used to determine the minimum number of plumbing fixtures to be installed in new buildings:

[ARM 24.301.351](#) – Minimum Required Plumbing Fixtures

(1) The following table will be used to determine the minimum number of plumbing fixtures to be installed in new buildings:

Minimum Number of Required Plumbing Fixtures ^{a, i, j, l, m, n, o, p, q, r}								
Classification	Description	Water Closets (Urinals - see footnotes f, g & o)		Lavatories		Bathtubs/Showers	Drinking Fountains ^s	Other
		Male	Female	Male	Female			
Assembly	Theaters and other buildings for the performing arts and motion pictures ^j	1 per 125	1 per 65	1 per 200		-	1 per 500	1 service sink
	Nightclubs, bars, taverns, dance halls and buildings for similar purposes ^{f, g, h, i}	1 per 40	1 per 40	1 per 75		-	1 per 500	1 service sink
	Restaurants, banquet halls and food courts ^{f, g, h, i}	1 per 75	1 per 75	1 per 200		-	1 per 500	1 service sink
	Casino gaming areas	1 per 100 for the first 400 and 1 per 250 for the remainder exceeding 400	1 per 50 for the first 400 and 1 per 150 for the remainder exceeding 400	1 per 250 for the first 750 and 1 per 500 for the remainder exceeding 750		-	1 per 1000	1 service sink
	Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums ^j	1 per 125	1 per 65	1 per 200		-	1 per 500	1 service sink
	Passenger terminals and transportation facilities ^j	1 per 500	1 per 500	1 per 750		-	1 per 1000	1 service sink
	Places of worship and other religious services ^{b, h, i}	1 per 150	1 per 75	1 per 200		-	1 per 1000	1 service sink
	Coliseums, arenas, skating rinks, pools and tennis courts for indoor sporting events and activities ⁱ	1 per 75 for the first 1500 and 1 per 120 for the remainder exceeding 1500	1 per 40 for the first 1520 and 1 per 60 for the remainder exceeding 1520	1 per 200	1 per 150	-	1 per 1000	1 service sink
	Stadiums, amusement parks, bleachers and grandstands for outdoor sporting events and activities ⁱ	1 per 75 for the first 1500 and 1 per 120 for the remainder exceeding 1500	1 per 40 for the first 1520 and 1 per 60 for the remainder exceeding 1520	1 per 200	1 per 150	-	1 per 1000	1 service sink
Business	Buildings for the transaction of business, professional services, other services involving merchandise, office buildings, banks, light industrial, ambulatory care and similar uses ^{i, k, m, n, q}	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80		-	1 per 100	1 service sink ^k
Educational	Educational Facilities	1 per 50		1 per 50		-	1 per 100	1 service sink
Factory and Industrial	Structures in which occupants are engaged in work fabricating, assembly or processing of products or materials ⁱ	1 per 100		1 per 100		-	1 per 400	1 service sink
Institutional	Custodial care facilities	1 per 10		1 per 10		1 per 8	1 per 100	1 service sink
	Medical care recipients in hospitals and nursing homes ^c	1 per room ^d		1 per room ^d		1 per 15	1 per 100	1 service sink
	Employees in hospitals and nursing homes ^c	1 per 25		1 per 35		-	1 per 100	-
	Visitors in hospitals and nursing homes	1 per 75		1 per 100		-	1 per 500	-
	Prisons ^c	1 per cell		1 per cell		1 per 15	1 per 100	1 service sink
	Reformatories, detention centers and correctional centers ^c	1 per 15		1 per 15		1 per 15	1 per 100	1 service sink
	Employees in reformatories, detention centers and correctional centers ^c	1 per 25		1 per 35		-	1 per 100	-
Mercantile	Retail stores, service stations, shops, sales-rooms, markets and shopping centers ^{i, k, m, n, q}	1 per 500		1 per 750		-	1 per 1000	1 service sink ^k
Residential	Hotels, motels, boarding houses (transient)	1 per sleeping unit		1 per sleeping unit		1 per sleeping unit	-	1 service sink
	Dormitories, fraternities, sororities and boarding houses (not transient)	1 per 10		1 per 10		1 per 8	1 per 100	1 service sink
	Apartment house	1 per dwelling unit		1 per dwelling unit		1 per dwelling unit	-	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per 20 dwelling units
	One- and two-family dwellings and lodging houses with five or fewer guestrooms	1 per dwelling unit		1 per 10		1 per dwelling unit	-	1 kitchen sink per dwelling unit; 1 automatic clothes washer connection per dwelling unit
	Congregate living facilities with 16 or fewer persons	1 per 10		1 per 10		1 per 8	1 per 100	1 service sink

[ARM 24.301.351](#) – Minimum Required Plumbing Fixtures

- a. The fixtures shown are based on one fixture being the minimum required for the number of persons indicated or any fraction of the number of persons indicated. The number of occupants shall be determined by the building code.
- b. Fixtures located in adjacent buildings under the ownership or control of the church shall be made available during periods the church is occupied.
- c. Toilet facilities for employees shall be separate from facilities of inmates or patients.
- d. A single-occupant toilet room with one water closet and one lavatory serving not more than two adjacent patient rooms shall be permitted where such room is provided with direct access from each patient room and with provisions for privacy.
- e. For day nurseries, a maximum of one bathtub shall be required.
- f. Food service establishments or any establishment that sells alcoholic beverages for on-site consumption requires at least one urinal.
- g. Single-user facilities designated to serve all genders shall include a urinal in food service establishments or any establishment that sells alcoholic beverages for on-site consumption.
- h. Contact the Department of Public Health and Human Services for additional requirements for food service establishments.
- i. At the discretion of the building official, certain non-assembly buildings where food and beverages are not consumed on the premises, may be allowed to furnish only one unisex public toilet if it is accessible in accordance with ICC A117.1.
- j. At the discretion of the building official, business and mercantile classifications intended for quick transactions, including takeout, pickup and drop off businesses having a floor area less than 1200 sq. ft. may utilize facilities located in another building within 500 feet provided the building is open and available during business hours and is accessible in accordance with ICC A117.1.
- k. For business and mercantile classifications with an occupant load of 15 or fewer, a service sink shall not be required.
- l. Keyed toilets under employee control of the type available at service stations are permitted.
- m. Where urinals are provided, notwithstanding the required urinal in footnote g. above, one water closet less than the number specified may be provided for each urinal installed, except the number of water closets in such cases shall not be reduced to less than one-half of the minimum specified.
- n. Where single-user unisex facilities are present, the aggregate fixture count shall be equal to the required number of separate facilities. Where single-user unisex toilet rooms or bathing rooms are clustered at a single location, at least 50 percent but not less than one room for each user at each cluster shall be accessible.
- o. Riding arenas as defined in ARM 24.301.146(11) are required to provide separate male and female accessible restrooms which contain a minimum of one water closet and one lavatory.
- p. See ARM 24.301.903 for additional requirements and provisions concerning building accessibility.
- q. If a specific occupancy is not shown in the table, the building official shall determine on an individual case-by-case basis the requirements for that occupancy.
- r. On an individual case-by-case basis the building official may approve an alternative source of potable drinking water, such as, but not limited to, a bottled water cooler, in lieu of a drinking fountain.

History: [50-60-203](#), [50-60-504](#), MCA; [IMP](#), [50-60-203](#), [50-60-504](#), MCA; [NEW](#), 1978 MAR p. 1483, Eff. 10/27/78; [AMD](#), 1981 MAR p. 515, Eff. 5/29/81; [AMD](#), 1982 MAR p. 483, Eff. 3/12/82; [TRANS](#), from Dept. of Admin., Ch. 352, L. 1985, Eff. 7/1/85; [AMD](#), 1987 MAR p. 2237, Eff. 12/11/87; [AMD](#), 1990 MAR p. 2041, Eff. 11/16/90; [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; [TRANS](#), from Commerce, 2001 MAR p. 2301; [AMD](#), 2004 MAR p. 571, Eff. 3/12/04; [AMD](#), 2010 MAR p. 1733, Eff. 7/30/10; [AMD](#), 2019 MAR p. 2242, Eff. 12/7/19; [AMD](#), 2022 MAR p. 911, Eff. 6/11/22.

24.301.361 PLUMBING PERMITS

(1) Any person who is required under [50-60-505](#), MCA, to obtain a plumbing permit, and the work is not covered by a local government inspection program, shall do so prior to installation through the department.

(2) The exception to the plumbing permit requirement listed in [50-60-503](#), MCA, for plumbing installations on farms having their own individual water supply or sewage disposal system applies to farm or ranch installations used in conjunction with an agricultural or livestock raising operation which are not connected to either a public water supply or public sewer system. Any building used as or in conjunction with a hotel, motel, inn, motor court, guest or dude ranch, tourist home, public lodging house, bed and breakfast establishment, or other place where sleeping accommodations are furnished to transient guests for a fee is subject to fee requirements of ARM [24.301.301](#).

(3) The exception to the plumbing permit requirement listed in [50-60-506](#)(4), MCA, for the owner of residential property applies to the owner of a single-family dwelling who does the work on the plumbing installation in the dwelling in which they will reside. The "homeowner exemption" applies to those dwellings intended for the owner's personal use and not for dwellings built on speculation of resale or intended as rental property.

(4) The exception to permit requirements listed in [50-60-506](#)(5), MCA, for regularly employed maintenance personnel doing maintenance work on the business premises applies to personnel on the regular payroll rather than personnel under contract. Maintenance work includes the stopping of leaks in drains, soil, waste, or vent pipe, clearing of stoppages, and repairing of leaks in pipes, valves, or fixtures, when such repairs do not involve or require the replacement or rearrangement of valves, pipes, or fixtures.

(5) The applicant shall complete the plumbing application form and designate in the spaces provided the items to be covered by the plumbing permit.

(6) No plumbing permit shall be issued for a building or structure under the jurisdiction of the department, until the building permit has been issued for said building or structure.

(7) After review and approval of the application, the department shall issue a permit to the applicant.

History: [50-60-203](#), [50-60-501](#), [50-60-504](#), MCA; [IMP](#), [50-60-201](#), [50-60-504](#), [50-60-505](#), [50-60-506](#), [50-60-507](#), [50-60-508](#), MCA; [NEW](#), 1978 MAR p. 380, Eff. 3/25/78; [TRANS](#), from Dept. of Admin., Ch. 352, L. 1985, Eff. 7/1/85; [AMD](#), 1987 MAR p. 2237, Eff. 12/11/87; [AMD](#), 1994 MAR p. 299, Eff. 2/11/94; [AMD](#), 1999 MAR p. 1885, Eff. 10/1/99; [TRANS](#), from Commerce, 2001 MAR p. 2301; [AMD](#), 2014 MAR p. 2776, Eff. 11/7/14.

24.301.371 PLUMBING INSPECTIONS

(1) Cover (rough-in) inspections are made by a state plumbing inspector wherever possible. Insulation and wallboard shall not be applied prior to inspection unless 48 hours, excluding Saturdays, Sundays, and holidays, have expired after the plumbing installation is complete and notice to inspect has been received.

(2) The permit holder shall be responsible for assuring that plumbing work is not covered before the department has granted permission to cover said work. The inspection shall be made during daylight hours unless it is more convenient to all parties involved to make the inspection at night.

(3) Upon completion of the final inspection and approval of the plumbing work, the department shall, if requested, issue the permit holder a certificate of compliance.

(4) If the inspection reveals code violations, the permit holder shall be given an opportunity to make corrections. If after reinspection the violation has been corrected, the permit holder shall be issued a certificate of compliance. If such violation is not corrected, the permit holder or other responsible persons will be charged as per [50-60-110](#), MCA.

(5) Plumbing inspectors shall not inspect any plumbing work in which they have any financial or personal interest, or which they have installed or repaired.

History: [50-60-203](#), [50-60-504](#), MCA; [IMP](#), [50-60-510](#), [50-60-511](#), MCA; [NEW](#), 1978 MAR p. 380, Eff. 3/25/78; [TRANS](#), from Dept. of Admin., Ch. 352, L. 1985, Eff. 7/1/85; [TRANS](#), from Commerce, 2001 MAR p. 2301; [AMD](#), 2010 MAR p. 1733, Eff. 7/30/10; [AMD](#), 2014 MAR p. 2776, Eff. 11/7/14; [AMD](#), 2022 MAR p. 911, Eff. 6/11/22.