ORDINANCE NO. 10589

AN ORDINANCE adopting the 1991 Uniform Plumbing Code and State and local amendments thereto; abolishing the Plumbing Advisory Board and providing for more consumer representation on the plumbing Board of Appeals; establishing a fee for appeals thereto; amending Ordinance 6746 Section 5 as last amended by Ordinance 9151 and K.C.C. 16.32.030; Sections 6, 12, 23, 31, 33, 34, 35, and 39 of Ordinance 6746 and K.C.C. 16.32.040, 16.32.100, 16.32.210, 16.32.290, 16.32.310, 16.32.320, 16.32.330, 16.32.370 and Ordinance 7136 Section 2 and K.C.C. 16.32.360 and repealing Section 2 of Ordinance 7120 and Sections 22, 24, 25, 28, and 29 of Ordinance 6746 and K.C.C. 16.32.160, 16.32.180, 16.32.220, 16.32.230, 16.32.260, and 16.32.270; and adding new sections.

BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

<u>SECTION 1</u>. Ordinance 6746, Section 5 as last amended by Ordinance 9151 Section 1, and K.C.C. 16.32.030 are hereby amended as follows:

Adoption of Uniform Plumbing Code. The Uniform Plumbing Code, Chapters 1 through 10, with Appendices "A" through "D", ((1988)) 1991 Edition, IAPMO Installation Standards ((1988)) 1991 Edition, ((2-82)) 2-90, ((3-87)) 3-89, ((4-82)) 4-90, ((5-87)) 5-90, ((6-82)) 6-89, ((7-83)) 7-90, ((8-86)) 8-89, ((9-87)) 9-90, ((10-86)) 10-90, 11-87, ((12-85)) 12-90, 13-84, ((17-82)) 17-90, 18-85, ((20-85)) 20-90, ((21-80)) 21-89, ((22-84)) 22-90, ((23-84)) 23-90, ((24-85)) 24-90, ((25-85)) 25-90 and Chapter 22 of the ((1988)) 1991 Uniform ((Plumbing)) Mechanical Code all published by the International Association of Plumbing and Mechanical Officials are hereby adopted and together with the provisions of this chapter shall constitute the official Plumbing Code of King County. This chapter shall have precedence over documents adopted by reference.

SECTION 2. Ordinance 6746, Section 6 and K.C.C. 16.32.040 are hereby amended as follows:

Administrative authority. The administrative authority is the Seattle-King County Director of Public Health or his authorized representative who shall administer and enforce the provisions of the plumbing and mechanical code (Chapter 22 of the 1982 Uniform Mechanical Code) as adopted or amended except as provided herein. The water purveyor shall administer and enforce provisions relating to the inspection and approval of water meters and where applicable, the building supply piping. ((There may be a joint-enforcement and administration between the Director of Public Health and the water purveyor for installation and approval of backflow prevention devices installed in the building supply and water distributing piping in a building where cross connections exist or are likely to occur. The administrative authority may adopt such rules and regulations consistent with this code as he may deem necessary for its enforcement.))

<u>SECTION 3</u>. Ordinance 6746, Section 12 and K.C.C. 16.32.100 are hereby amended as follows: Permit Application.

Applications for permits shall be made on forms provided by the administrative authority for such purpose and shall give a description of the work proposed to be done, the name of the contractor and permit applicant, and the location, ownership, and occupancy upon which such work is to be done. The administrative authority may require to be furnished plans, specifications or drawings and may require such that other information as he shall deem necessary for the administration and enforcement of this code.

If the administrative authority determines that the plans, specifications, drawings, descriptions, and other information furnished by the applicant are in compliance with this code and that the applicant is licensed to perform the work to be permitted, he shall issue the permit applied for upon payment of the prescribed fee.

- A. Owner's Permit. Nothing contained in this Code shall prohibit any bona fide owner from installing plumbing or making alterations or repairs in his own ((residence or accessory)) building, as permitted under the following terms and conditions, but this exemption shall not apply to any person who constructs an improvement on his/her own property with the intention and for the purpose of selling the improved property:
- 1. Such owner shall apply in person, secure a permit, and pay the required fee as set forth in the Schedule of Fees in this Code. 2. Such owner shall do the work in the manner required by this Code subject to inspection and approval by the Administrative Authority. It is unlawful for any person having an owner's permit to allow any other person, including a licensed plumber, to do any work under such owner's permit.
- B. Existing Permits. Any work authorized by a permit in effect on the effective date of this Code shall be performed pursuant to the laws and ordinances under which such permit was issued, and any conflicting requirement of this Code shall not apply to such work.

SECTION 4. The following are hereby repealed:

Ordinance 7120 and K.C.C. 16.32.160 (Plumbing advisory board);

Ordinance 6746, Section 22 and K.C.C. 16.32.180 (Water saver toilet tanks);

Ordinance 6746, Section 24 and K.C.C. 16.32.220 (Double Check Valve Assembly - Approved);

Ordinance 6746, Section 25 and K.C.C. 16.32.230 (Finish Plumbing);

Ordinance 6746, Section 28 and K.C.C. 16.32.260 (Pressure Vacuum Breaker Assembly - Approved);

Ordinance 6746, Section 29 and K.C.C. 16.32.270 (Reduced Pressure Principle Backflow Preventor - Approved).

SECTION 5. Ordinance 6746 Section 19 and K.C.C. 16.32.170 are amended as follows:

Board of Appeals. A. A board of appeals shall be established and shall consist of ((the five (5))) 6 voting members ((ef the plumbing advisory board)): one member representing journeyman plumbers, plumbing contractors, professional mechanical engineers and ((sanitary engineers)) building owners and two members representing the public. The administrative authority shall serve as ((an ex-officio)) a non-voting member of the board. The board of appeals shall elect a chairman and a secretary who shall serve at the pleasure of the board.

- B. The board of appeals shall determine whether a correct interpretation of the code has been made by the administrative authority in any case which results in an appeal. ((The)) Any party aggrieved by the action of the administrative authority shall file a written petition for appeal to the board, accompanied by a non-refundable twenty-five dollar (\$25) fee. Appeals shall be heard at reasonable times at the convenience of the board, but not later than thirty (30) days after receipt of such petition. The appellant shall be entitled to appear in person before the board, to be represented by an attorney, and to introduce evidence in support of such petition. The appellant shall cause to be made at his own expense any test or research required by the board for the substantiation of any claims(s) made by the appellant.
- C. Decisions of the board shall be in writing; shall be distributed to the administrative authority and the appellant; and shall apply only to the case being heard. Either the appellant or the administrative authority may appeal the decision of the board to the King County hearing examiner. The board may make recommendations to the administrative authority for changes in the code where an appeal heard by the board may indicate the need for a code change.

SECTION 6. Ordinance 6746 Section 23 and K.C.C. 16.32.210 are amended as follows:

- 16.32.210 Section 105. Section 105, of the Uniform Plumbing Code is amended by adding definition "(d-1) Domestic Water Heater" to read as follows:
- (d-1) Domestic Water Heater. A domestic water heater is a tank with a self-contained heating unit which stores potable hot water for residential or commercial use with a nominal water containing capacity of one-hundred twenty (120) gallons or less, having a heating input of two-hundred thousand (200,000) Btu's per hour or less used for hot water supply at pressure of one-hundred sixty pounds per square inch (160 psi) or less and at operating temperatures of two-hundred ten degrees Fahrenheit (((200 ° F))) (210 ° F) or less.
- <u>SECTION 7</u>. Ordinance 6746, Section 31 and K.C.C. 16.32.290, Section 308, Improper Location, of the Uniform Plumbing Code is amended as follows:
- (a) <u>General</u>. Piping, fixtures or equipment shall not be so located as to interfere with the normal use thereof or with the normal operation and use of windows, doors or other required facilities.

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	

(b) <u>Elevators</u>. Pipes or ducts conveying gases, vapors or liquids and not used in connection with the operation of the elevator shall not be installed or replaced in any hoistway, elevator machine room or elevator machinery space.

Exceptions to Subsection (b) are as follows:

- (1) Steam and hot water pipes may be installed in hoistways, machine rooms and machinery spaces for the purpose of heating these areas only, subject to the following:
 - (A) Heating pipes shall convey only low pressure steam (fifteen (15) pounds per square inch or less) or hot water at pressures of one hundred sixty (160°) pounds per square inch or less and temperatures of two hundred fifty (250°) degrees Fahrenheit or less.
 - (B) All risers and return pipes shall be located outside the hoistway.
 - (C) Traps and shut-off valves shall provided in accessible locations outside these spaces.
- (2) Ducts for heating, cooling, ventilating and venting these spaces only may be installed in the machine room and machinery space.
- (3) Pipes for sprinklers only may be installed in these spaces subject to the following:
 - (A) All risers and returns shall be located outside these spaces.
 - (B) Branch lines in hoistway shall supply sprinklers at not more than one floor level.
 - (C) Shut-off valves shall be provided in accessible locations outside these spaces.
- (4) Piping for pit and sump pumps may be installed.

NEW SECTION. SECTION 8. There is added to K.C.C. 16.32 a new section to read as follows: 16.32.292, Section 310 of the Uniform Plumbing Code is replaced by the following:

Section 310, Prohibited Fittings and Practices

- (a) No double hub fitting, single or double tee branch, single or double tapped tee branch, side inlet quarter bend, running thread, band, or saddle shall be used as a drainage fitting, except that a double hub sanitary tapped tee may be used on a vertical line as a fixture connection.
- (b) No drainage or vent piping shall be drilled and tapped for the purpose of making connections thereto, and no cast iron soil pipe shall be threaded.
- (c) No waste connection shall be made to a closet bend or stub of a water closet or similar fixture.
- (d) Except as hereinafter provided in Sections 613, 614, and 615, no vent pipe shall be used as a soil or waste pipe, nor shall any soil or waste pipe be used as a vent.
- (e) No fitting, fixture and piping connection, appliance, device or method of installation which obstructs or retards the flow of water, wastes, sewage or air in the drainage or venting systems in an amount greater than the normal frictional resistance to flow, shall be used unless it is indicated as acceptable in this Code or is approved by the Administrative Authority as having a desirable and

acceptable function and of ultimate benefit to the proper and continuing functioning of the plumbing system. The enlargement of a three (3) inch (76.2 mm) closet bend or stub to four (4) inches (101.6 mm) shall not be considered an obstruction.

- (f) Except for necessary valves, where intermembering or mixing of dissimilar metals occur, the point of connection shall be confined to exposed or accessible locations.
 - (g) All valves, pipes, and fittings shall be installed in correct relationship to the direction of flow.

 NEW SECTION. SECTION 9. There is added to K.C.C. 16.32 a new section to read as follows:

 16.32.297 Section 315 of the Uniform Plumbing Code is replaced by the following:

Section 315. Protection of Piping Materials and Structures.

- (a) All piping passing under or through walls shall be protected from breakage. All piping passing through or under cinders or other corrosive materials shall be protected from external corrosion in an approved manner. Approved provisions shall be made for expansion of hot water piping. Voids around piping passing through concrete floors on the ground shall be appropriately sealed.
- (b) All piping in connection with a plumbing system shall be so installed that piping or connections will not be subject to undue strains or stresses, and provisions shall be made for expansion, contraction, and structural settlement. No piping shall be directly embedded in concrete or masonry walls or footings. No structural member shall be seriously weakened or impaired by cutting, notching, or otherwise.
- (c) All trenches deeper than the footing of any building or structure and paralleling the same must be at least forty-five (45) degrees therefrom, unless permission be otherwise granted by the Administrative Authority.
- (d) No building sewer or other drainage piping or part thereof, constructed of materials other than those approved for use under or within a building, shall be installed under or within two (2) feet (.6 m) of any building or structure, or less than one (1) foot (.3 m) below the surface of the ground.
- (e) Piping subject to undue corrosion, erosion, or mechanical damage shall be protected in an approved manner.
- (f) No water, soil, or waste pipe shall be installed or permitted outside of a building or in an exterior wall unless, where necessary, adequate provision is made to protect such pipe from freezing.

 All hot and cold water pipes installed outside the conditioned space shall be insulated to a minimum R-3.

NEW SECTION. SECTION 10. There is added to K.C.C. 16.32 a new section to read as follows: 16.32.305, Section 401 Materials of the Uniform Plumbing Code is replaced by the following:

- (a) Drainage piping shall be cast iron, galvanized steel, galvanized wrought iron, lead, copper, brass, Schedule 40 ABS, DWV, Schedule 40 PVC DWV, extra strength vitrified clay pipe, or other approved materials having a smooth and uniform bore, except that:
 - (1) No galvanized wrought iron or galvanized steel pipe shall be used underground and shall be kept at least six (6) inches (152.4 mm) above ground.
 - (2) No vitrified clay pipe or fittings shall be used above ground or where pressurized by a pump or ejector. They shall be kept at least twelve (12) inches (.3 m) below ground.
- (b) Drainage fittings shall be of cast ron, malleable iron, lead, brass, copper, ABS, PVC, vitrified clay, or other approved materials having a smooth interior waterway of the same diameter as the piping served and all such fittings shall be compatible with the type of pipe used.
 - (1) Fittings on screwed pipe shall be of the recessed drainage type. Burred ends shall be reamed to the full bore of the pipe.
 - (2) The threads of drainage fittings shall be tapped so as to allow one-fourth (1/4) inch per foot (20.9 mm/m) grade.
 - SECTION 11. Ordinance 6746, Section 33 and K.C.C. Section 16.32.310 is hereby repealed.
 - SECTION 12. Ordinance 6746, Section 34 and K.C.C. Section 16.32.320 is amended as follows:
 - Section 410 Rainwater Leaders
- (a) Rainwater Leaders are pipes within a building which drain storm water from roofs or other similar areas of such building. Rainwater leaders shall discharge outside such building and shall not discharge into the sanitary drainage system within a building conveying domestic sewage.
- (b) Materials. Pipe used in rainwater leaders shall be approved cast iron, or galvanized steel, ((1ead))

 ABS, PVC, copper or brass, having a smooth and uniform bore. No galvanized steel pipe shall be used underground, and such pipe shall be kept at least six (6) inches above ground. Burred ends shall be reamed to the full bore of the pipe. ((A.B.S. or P.V.C. may be used in accordance with limitations provided in this Code relating to approvals for plastic pipe and fittings.))
- (c) Fittings. Fittings used in rainwater leaders shall be approved cast iron, or malleable iron, lead, copper, or brass, or other material approved by the Administrative Authority having a smooth interior way of the same diameter as the piping served. Such fittings shall conform to the type of pipe used, and such threaded fittings shall be of the recessed drainage type. Short sweep fittings may be used in rainwater leaders.
- (d) Roof Drains. Roof drains shall be approved cast iron, or malleable iron, lead, copper, brass, or other approved materials.
- (e) Prohibited Uses. Rainwater leaders shall not be used as soil, waste or vent pipes, and soil, waste or vent pipes shall not be used as rainwater leaders.

1	
2	
3	
4	
5	
6	
7	
8	
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	

- (f) Traps. Rainwater leaders which terminate less than three (3) feet above or ten (10) feet from, any window, door, opening, air intake, exhaust vent or vent shaft, or less than three (3) feet from line of any property which may be built upon, shall be equipped with traps, but are not required to be vented. Cleanouts are not required in rainwater leaders.
- (g) Capacity. The combined capacity of rainwater leaders serving any building shall be not less than as calculated by approved engineering procedure or as set forth in Table 4-4.
 - (h) Testing. All rainwater leaders shall be tested.

Table No. 4-4 RAINWATER LEADERS

Roof or Other Area Served (Square Feet)	Size of Rainwater Leader (Inches)
1 - 1050	2
1051 - 3150	3
3151 - 6450	4
6451 - 10800	5
10801 - 18000	6
18001 - 37500	8
<u> 37501 - 58800</u>	<u>10</u>
<u> 58801 - 95400</u>	<u>12</u>

(1) If Table 4-4 does not provide a practical solution for sizing rainwater leaders, refer to Appendix D Rainwater Systems in this Code for more comprehensive engineering design information relating to installation of rainwater systems. <u>Use two inch (2") column.</u>

NEW SECTION. SECTION 13. There is added to K.C.C. a new section to read as follows:

16.32.325, Materials of the Uniform Plumbing Code is added to read as follows:

- (a) Vent pipe shall be cast iron, galvanized steel, galvanized wrought iron, lead, copper, brass, Schedule 40 ABS DWV, Schedule 40 PVC DWV or other approved materials having a smooth and uniform bore except that:
 - (1) No galvanized wrought iron or galvanized steel pipe shall be used underground and shall be kept at least six (6) inches above ground.
- (b) Vent fittings shall be cast iron, galvanized malleable iron or galvanized steel, lead, copper, brass, ABS, PVC, or other approved materials, except that no galvanized malleable iron or galvanized steel fittings shall be used underground and shall be kept at least six (6) inches (152.4 mm) above ground.
- (c) Changes in direction of vent piping shall be made by the appropriate use of approved fittings and no such pipe shall be strained or bent. Burred ends shall be reamed to the full bore of the pipe.

SECTION 14. Ordinance 6746, Section 35 and K.C.C. 16.32.330 are amended as follows:

Section 608 Appliances, of the Uniform Plumbing Code is amended by adding subsections (e), (f) and (g) to read as follows:

1	(((d))) (e) Commercial dishwashers shall be connected to the building drainage system with an
2	indirect waste pipe air-gaped to a floor sink or as defined in Chapter 1 - Definitions in this Code.
3	(({e})) (<u>f</u>) Drainage piping for residential dishwashers required in new construction shall be installed
4	as a part of the roughing-in plumbing system.
5	((\(\frac{(\(\frac{1}{1}\))}{1}\)) (\(\frac{1}{2}\)) Approved countertop and in-sink air-gap fittings are acceptable for residential remodel
6	dishwasher installations, when installed in accordance with the plumbing Code as amended. (Refer
7	to Subsection (({e}))) (<u>f)</u> above for new construction.)
8	SECTION 15. Ordinance 7136, Section 2 and K.C.C. 16.32.360 Section 803 of the Uniform
9	Plumbing code is amended as follows:
0	((A. Amending subsection (e), Copper Water Tube, to read as follows:
1	(e) Joints in copper tubing shall be made by the appropriate use of approved fittings properly
2	soldered or brazed together, or by means of approved compression fittings as provided in Subsection
3	(d) or (e) of Section 802. Solder shall meet ASTM Specification B 32-76 and shall have a maximum
4	lead content of no more than 0.20%.
5	B.—)) Adding new subsection (($\{g\}$)) (\underline{i}) to read as follows:
6	$(((g))(\underline{i})$ Insulated Couplings - When connecting piping of dissimilar conductive materials, an
7	approved dielectric fitting may be used to diminish the possible damage due to electrolysis. This
8	section shall take effect on April 1, 1985. (Ordinance 7136 § 2, 1985).
9	SECTION 16. Ordinance 6746, Section 39 and K.C.C. Section 16.32.370 is amended as follows:
0	Section 910, Plumbing Fixtures Required, of the Uniform Plumbing Code is amended to read as
.1	follows:
2	(a) Plumbing Fixtures Required. (a) Each building shall be provided with sanitary facilities as
3	prescribed by the Administrative Authority.
.4	An amended list of minimum plumbing facilities for various occupancies is set forth in Appendix
.5	C of this Code.
:6	(b) Water Efficiency Standards.
.7	(1) Standards for waterclosets. The guideline for maximum water use allowed in gallons per
.8	flush (gpf) for any of the following waterclosets is the following:
.9	Tank-type toilets 3.5 gpf
30	Flushometer-valve toilets 3.5 gpf
31	Flushometer-tank toilets 3.5 gpf
32	Electromechanical hydraulic toilets 3.5 gpf
33	(2) Standard for urinals. The guideline for maximum water use allowed for any urinal is 3.0
34 .	gallons per flush.

1	(3) Standard for showerheads. The guideline for maximum water use allowed for any
2	showerhead is 3.0 gallons per minute.
3	(4) Standards for faucets. The guideline for maximum water use allowed in gallons pe
4	minute (gpm) for any of the following faucets and replacement aerators is the following:
5	Bathroom faucets 3.0 gpm
6	Lavatory faucets 3.0 gpm
7	Kitchen faucets 3.0 gpm
8	Replacement aerators 3.0 gpm
9	(5) No urinal or watercloset that operates on a continuous flow or continuous flush basis shal
0	be permitted.
1	(c) Exceptions. Except where designed and installed for use by the physically handicapped
2	lavatory faucets located in restrooms intended for use by the general public must be equipped with a
3	metering valve designed to close by spring or water pressure when left unattended (self-closing).
4	SECTION 17. 16.37.420 Appendix C is hereby repealed.
5	NEW SECTION. SECTION 18. 16.32.421 Appendix C of the Uniform Plumbing Code is replaced
6	by the following:
17	

APPENDIX C - CHAPTER 22 MINIMUM PLUMBING FACILITIES

Each building shall be provided with sanitary facilities, including provisions for the physically handicapped as prescribed by the Department having jurisdiction. In the absence of such requirements, this Appendix--which provides a guideline for the minimum facilities for the various types of occupancies (see Section 910, Plumbing Fixtures Required, of the Uniform Plumbing Code) may be used. For handicapped requirements ANSI A117.1-1961 (R1971), Specifications for Making Buildings and Facilities Accessible to, and Usable by, the Physically Handicapped, may be used.

The number of occupants shall be that determined by minimum exiting requirements.

Type of Building or Occupancy	Water Closets (Fixtures per Person)	Urinals ¹⁰ (Fixtures per Person)	Lavatories (Fixtures per Person)	Bathtubs or Showers (Fixtures per Person)	Drinking 3,13 Fountains 3,13 (fixtures per Person)
Assembly Places- Theaters, Auditoriums, Convention Halls,	Hale Female 14 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55	0:1-9 1:10-50	Hale Female 1 per 40 1 per 40		
etcfor permanent employee use	Over 55, add 1 fixture for each additional 40 persons.	Add one fixture for each additional 50 males.			
Assembly Places- Theatres, Auditoriums, Convention Halls, etcfor public	Male Female ¹⁴ 1:1-100 3:1-50 2:101-200 4:51-100 3:201-400 8:101-200 11:201-400	1:1-100 2:101-200 3:201-400 4:401-600	Male Female 1:1-200 1:1-200 2:201-400 2:201-400 3:401-750 3:401-750		1 per 75 ¹²
use.	Over 400, add one fixture for each additional 500 males and 2 for each 300 females.	Over 600, add 1 fixture for each additional 500 males.	Over 750, add one fixture for each additional 500 persons.		
Dormitories ⁹ School or Labor	Male Female ¹⁴ 1 per 10 1 per 8	1 per 25	Hale Female 1 per 12 1 per 12	1 per 8	1 per 75 ¹²
	Add 1 fixture for each additional 25 males (over 10) and 1 for each additional 20 females (over 8).	Over 150, add 1 fixture for each additional 50 males.	Over 12 add one fixture for each additional 20 males and 1 for each 15 additional females.	For females, add 1 bathtub per 30. Over 150, add 1 per 20.	
Dormitories for staff use	Male Female 14 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55	1 per 50	Hale Female 1 per 40 1 per 40	1 per 8	
	Over 55, add 1 fixture for each additional 40 persons.				
Dwellings ⁶ Single Dwelling Multiple Dwelling or Apartment House	1 per dwelling 1 per dwelling - " spartment unit		1 per dwelling 1 per dwelling or apartment unit	1 per dwelling 1 per dwelling or apartment unit	

Type of Building or Occupancy	Water Closets (Fixtures per Person)	Urinals ¹⁰ (Fixtures per Person)	Lavatories (Fixtures per Person)	Bathtubs or Showers (Fixtures per Person)	Drinking Fountains ^{3,13} (Fixtures per Person)
Penal Institutions- For employee use	Hale Female 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55	0:1-9 1:10-50	Male Female 1 per 40 1 per 40		1 per 75 ¹²
	Over 55, add 1 fixture for each additional 40 persons.	Add one fixture for each additional 50 males.			•
Penal Institutions- for prison use Cell Exercise room	1 per cell 1 per exercise room	1 per exercise room	1 per cell 1 per exercise room		1 per cell block floor 1 per exercise room
Food service 11 establishments; taverns, cocktail bars; restaurants	Male Female 1:1-60 1:1-30 1 for each 1 for each additional additional 30	1:1-30 1 2:31-90 1 1 for each additional 60	Hale Female 1:60 , 1:60		
Schools-For staff use All schools	Male Female 1:1-15 1:1-15 2:16-35 2:16-35	1 per 50	Male Female 1 per 40 1 per 40		
	3:36-55 3:36-55 Over 55, add 1 fixture for each additional 40 persons	•			
Schools-For student use Hursery	Hale Female 1:1-20 1:1-20 2:21-50 2:21-50 Over 50, add 1 fixture for each additional 50 persons		Male Female 1:1-25 1:1-25 2:26-50 2:26-50 Over 50, and 1 fixture for each additional 50 persons		1 per 75 ¹²
Elementary Secondary	Male Female 1 per 30 1 per 25 Male Female 1 per 40 1 per 30	1 per 75 1 per 35	Hale Female 1 per 35 1 per 35 Hale Female 1 per 40 1 per 40		1 per 75 ¹² 1 per 75 ¹²
Others (Colleges, Universities, Adult Centers, etc.)	Hale Female 1 per 40 1 per 30	1 per 35	Hale Female 1 per 40 1 per 40		1 per 75 ¹²
Worship Places Educational and Activities Unit	Male female 14 1 per 125 1 per 75 2:126-250 2:76-125 3:126-250	1 per 125	1 per 2 water closets		1 per 75 ¹²
Worship Places Principal Assembly Place	Hale Female ¹⁴ 1 per 150 1 per 75 2:151-300 2:150 3:151-300	1 per 150	1 per 2 water closets		1 per 75 ¹²

Type of Building or Occupancy	Water Closets (Fixtures per Person)	Urinals ¹⁰ (Fixtures per Person)	Lavatories (Fixtures per Person)	Bathtubs or Showers (Fixtures per Person)	Drinking Fountains ³ ,13 (Fixtures per Person)
Hospital Waiting	1 per room		1 per room		1 per 75 ¹²
Hospital for employee use	Male Female 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55	0:1-9 1:10-50	Mate Female 1 per 40 1 per 40		•
	Over 55, add 1 fixture for each additional 40 persons.	Add one fixture for each additional 50 males.			
Hospitals Individual Room Ward Room	1 per room 1 per 8 patients		1 per room 1 per 10 patients	1 per room 1 per 20 patients	1 per 75 ¹²
Industrial ⁶ Warehouses Workshops, foundries and similar establishments (for employee use)	Hale Female 1:1-10 1:1-10 2:11-25 2:11-25 3:26-50 3:26-50 4:51-75 4:51-75 5:76-100 5:76-100 Over 100, add 1 fixture for each additional 30 persons		Up to 100, 1 per 10 persons Over 100, 8 per 15 persons / , 8	1 shower for each 15 persons exposed to excessive heat or to skin contamination with poisonous, infectious, or irritating material	1 per 75 ¹²
Institutional- Other than Hospitals or Penal Institutions (on each occupied floor)	Male female ¹⁴ 1 per 25 1 per 20	0:1-9 1:10-50 Add one fixture for each additional 50 males.	Male Female 1 per 10 1 per 10	1 per 8	1 per 75 ¹²
Institutional- Other than Hospitals or Penal Institutions (on each occupied	Male Female ¹⁴ 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55	0:1-9 1:10-50	Male Female 1 per 40 1 per 40	1 per 8	1 per 75 ¹²
floor) For employee use	Over 55, add 1 fixture for each additional 40 persons	Add one fixture for each additional 50 males.			
Office or Public Buildings	Male Female ¹⁴ 1:1-100 3:1-50 2:101-200 4:51-100 3:201-400 8:101-200	1:1-100 2:101-200 3:201-400 4:401-600	Hale Female 1:1-200 1:1-200 2:201-400 2:201-400 3:401-750 3:401-750	<u></u>	1 per 75 ¹²
	Over 400, add one fixture for each additional 500 males and 2 for each 300 females.	Over 600, add 1 fixture for each additional 300 males.	Over 750, add one fixture fore each additional 500 persons.		
Office or Public buildings- For employee use	Male Female ¹⁴ 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55	Over 55, add 1 fixture for each additional 40 persons.	0:1-9 1:10-50	Add one fixture for each additional 50 males.	Male Female 1 per 40 1 per 40

Whenever urinals are provided, one (1) 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 two-thirds (2/3) of the minimum specified.

- The figures shown are based upon one (1) fixture being the minimum required for the number of persons indicated or any fraction thereof.
- 2. Building categories not shown on this table shall be considered separately by the Administrative Authority.
- Drinking fountains shall not be installed in toilet rooms.
- 4. Laundry trays. One (1) laundry tray or one (1) automatic washer standpipe for each dwelling unit or two (2) laundry trays or two (2) automatic washer standpipes, or combination thereof, for each ten (10) apartments. Kitchen sinks, one (1) for each dwelling or apartment unit.
- 5. Deleted.
- 6. As required by ANSI 24.1-1968, Sanitation in Places of Employment.
- 7. Where there is exposure to skin contamination with poisonous, infectious, or irritating materials, provide one (1) lavatory for each five (5) persons.
- 8. Twenty-four (24) lineal inches (609.6 mm) of wash sink or eighteen (18) inches (457.2 mm) of a circular basin, when provided with water outlets for such space, shall be considered equivalent to one (1) lavatory.
- 9. Laundry trays, one (1) for each fifty (50) persons. Slop sinks, one (1) for each hundred (100) persons.
- 10. General. In applying this schedule of facilities, consideration must be given to the accessibility of fixtures. Conformity purely on a numerical basis may not result in an installation suited to the need of the individual establishment. For example, schools should be provided with toilet facilities on each floor having classrooms. Temporary workingmen facilities, one (1) water closet and one (1) urinal for each thirty (30) workmen.
 - a. Surrounding materials, wall and floor space to a point two (2) feet (0.6 m) in front of uninal lip and four (4) feet (1.2 m) above the floor, and at least two (2) feet (0.6 m) to each side of the uninal shall be lined with non-absorbent materials.
 - b. Trough urinals are prohibited.
- 11. A restaurant is defined as a business which sells food to be consumed on the premises.
 - a. The number of occupants for a drive-in restaurant shall be considered as equal to the number of parking stalls.
 - b. Employee toilet facilities are not to be included in the above restaurant requirements. Hand washing facilities must be available in the kitchen for employees.
- 12. Where food is consumed indoors, water stations may be substituted for drinking fountains. Theatres, auditoriums, dormitories, offices, or public buildings for use by more than six (6) persons shall have one (1) drinking fountainfor the first seventy-five (75) persons and one (1) additional fountain for each one hundred and fifty (150) persons thereafter.
- 13. There shall be a minimum of one (1) drinking fountain per occupied floor in schools, theatres, auditoriums, dormitories, offices or public building.
- 14. The total number of water closets for females shall be at least equal to the total number of water closets and urinals required for males.