



# RULE-MAKING ORDER

## CR J3 (June 2004) (Implements RCW 34.05.360)

Agency: State Building Code Council

- Permanent Rule
- Emergency Rule

Effective date of rule:  
**Permanent Rules**  
 31 days after filing.  
 Other (specify) July 1, 2005 (If less than 31 days after filing, a specific finding under RCW 34.05.380(3) is required and should be stated below)

Effective date of rule:  
**Emergency Rules**  
 Immediately upon filing.  
 Later (specify) \_\_\_\_\_

Any other findings required by other provisions of law as precondition to adoption or effectiveness of rule?  
 Yes  No If Yes, explain:

**Purpose:** To amend the Washington State Amendments to the 2003 International Building Code to adopt and amend ICC A117.1-2003 *Accessible and Usable Buildings and Facilities*; to provide for approved locks in nursing homes; to amend minimum ceiling height for corridors; to amend requirements for anchored masonry veneer, structural load combinations, steel reinforcement lap splices and anchor bolt placement; and to amend plumbing fixture requirements.

**Citation of existing rules affected by this order:**

Repealed:  
 Amended: WAC 51-50, Sections 003, 005, 0407, 1101, 1109, 1208, 1210, 1405, 1605, 2107, 2108, and 2900.  
 Suspended:

**Statutory authority for adoption:** RCW 19.27.020, 19.27.031 and 19.27.074

**Other authority:** RCW 19.27 and RCW 34.05

**PERMANENT RULE ONLY (Including Expedited Rule Making)**

Adopted under notice filed as WSR 04-17-019 on August 9, 2004 (date).  
 Describe any changes other than editing from proposed to adopted version: For 1101.2.11 the automatic door control switch height is changed from "36 inches" to "32 to 40 inches". WAC 51-50-1707 is not adopted. The occupancy column of Table 2902.1 is amended for clarity, including the addition of footnote 8.

If a preliminary cost-benefit analysis was prepared under RCW 34.05.328, a final cost-benefit analysis is available by contacting: N/A

Name: \_\_\_\_\_ phone ( ) \_\_\_\_\_  
 Address: \_\_\_\_\_ fax ( ) \_\_\_\_\_  
 e-mail \_\_\_\_\_

**EMERGENCY RULE ONLY**

- Under RCW 34.05.350 the agency for good cause finds:
- That immediate adoption, amendment, or repeal of a rule is necessary for the preservation of the public health, safety, or general welfare, and that observing the time requirements of notice and opportunity to comment upon adoption of a permanent rule would be contrary to the public interest.
  - That state or federal law or federal rule or a federal deadline for state receipt of federal funds requires immediate adoption of a rule.

Reasons for this finding:

Date adopted: November 12, 2004

NAME (TYPE OR PRINT)  
Stan Price

SIGNATURE

TITLE  
Council Chair

**CODE REVISER USE ONLY**

PLANNING AND REVISIONS DIVISION  
STATE OF WASHINGTON

DEC 2 2004

1053

08:01-014

AM  
PM

TIME \_\_\_\_\_  
 WST \_\_\_\_\_

(COMPLETE REVERSE SIDE)

**Note: If any category is left blank, it will be calculated as zero.  
No descriptive text.**

**Count by whole WAC sections only, from the WAC number through the history note.  
A section may be counted in more than one category.**

**The number of sections adopted in order to comply with:**

<b>Federal statute:</b>	New	_____	Amended	_____	Repealed	_____
<b>Federal rules or standards:</b>	New	_____	Amended	_____	Repealed	_____
<b>Recently enacted state statutes:</b>	New	_____	Amended	_____	Repealed	_____

**The number of sections adopted at the request of a nongovernmental entity:**

New	_____	Amended	<u>12</u>	Repealed	_____
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**The number of sections adopted in the agency's own initiative:**

New	_____	Amended	_____	Repealed	_____
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**The number of sections adopted in order to clarify, streamline, or reform agency procedures:**

New	_____	Amended	_____	Repealed	_____
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**The number of sections adopted using:**

<b>Negotiated rule making:</b>	New	_____	Amended	_____	Repealed	_____
<b>Pilot rule making:</b>	New	_____	Amended	_____	Repealed	_____
<b>Other alternative rule making:</b>	New	_____	Amended	<u>12</u>	Repealed	_____

AMENDATORY SECTION (Amending WSR 04-01-108, filed 12/17/03, effective 7/1/04)

**WAC 51-50-003 International Building Code.** The 2003 edition of the *International Building Code*, including (~~Sections 101 through 106 of~~) Appendix E, published by the International Code Council is hereby adopted by reference with the exceptions noted in this chapter of the Washington Administrative Code.

AMENDATORY SECTION (Amending WSR 04-01-108, filed 12/17/03, effective 7/1/04)

**WAC 51-50-005 International Building Code requirements for barrier-free accessibility.** Chapter 11 and other International Building Code requirements for barrier-free access, including ICC A117.1-~~((1998))~~ 2003 and Appendix E (~~Sections 101 through 106~~), are adopted pursuant to chapters 70.92 and 19.27 RCW.

Pursuant to RCW 19.27.040, Chapter 11 and requirements affecting barrier-free access shall not be amended by local governments.

NEW SECTION

**WAC 51-50-0407 Section 407--Group I-2.**

**407.8 Locks on exit doors.** Approved, listed locks without delayed egress shall be permitted in nursing homes or portions of nursing homes, provided that:

1. The clinical needs of one or more patients require specialized security measures for their safety.
2. The doors unlock upon actuation of the automatic sprinkler system or automatic fire detection system.
3. The doors unlock upon loss of electrical power controlling the lock or lock mechanism.
4. The lock shall be capable of being deactivated by a signal from a switch located in an approved location.
5. There is a system, such as a keypad and code, in place to inform visitors, staff persons and appropriate residents how they can exit. Instructions for exiting shall be posted within six feet of the door.

AMENDATORY SECTION (Amending WSR 04-01-108, filed 12/17/03, effective 7/1/04)

**WAC 51-50-1101 Section 1101--General.**

**1101.2 Design.** Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1, except those portions of ICC A117.1 amended by this section.

**1101.2.1 (ICC A117.1 Section 403) Landings for walking surfaces.** The maximum rise for any run is 30 inches (762 mm). Landings shall be provided at the top and bottom of any run. Landings shall be level and have a minimum dimension measured in the direction of travel of not less than 60 inches (1525 mm).

**1101.2.2 (ICC A117.1 Section 403.5) Clear width of accessible route.** Clear width of an accessible route shall comply with ICC A117.1 Table 403.5. For exterior routes of travel, the minimum clear width shall be 44 inches (1118 mm).

**1101.2.3 (ICC A117.1 Section 404.2.9) Door-opening force.** Fire doors shall have the minimum opening force allowable by the appropriate administrative authority. The maximum force for pushing open or pulling open doors other than fire doors shall be as follows:

1. Interior hinged door: 5.0 pounds (22.2 N)
2. Sliding or folding doors: 5.0 pounds (22.2 N)

At exterior doors where environmental conditions require a closing pressure greater than 8.5 pounds, power operated doors shall be used within the accessible route of travel.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.

~~((1101.2.4 (ICC A117.1 Section 502.6) Identification of accessible parking spaces. Where accessible parking spaces are required to be identified by signs, the signs shall include the International Symbol of Accessibility complying with ICC A117.1 Section 703.7. Such signs shall be 60 inches (1525 mm) minimum above the floor or ground surface of the parking space, measured to the bottom of the sign. Van accessible parking spaces shall have an additional sign mounted below the International Symbol of Accessibility identifying the spaces as "Van Accessible."))~~

**1101.2.5 (ICC A117.1 Sections 603.4 and 604.11) Coat hooks, shelves, dispensers, and other fixtures.** Coat hooks provided ((within toilet rooms)) shall accommodate a forward reach or side reach complying with ICC A117.1 Section 308. Where provided, shelves shall be installed so that the top of the shelf is 40



inches (1015 mm) maximum above the floor or ground. Drying equipment, towel or other dispensers, and disposal fixtures shall be located 40 inches (1015 mm) maximum above the floor or ground to any rack, operating controls, receptacle or dispenser.

**1101.2.6 (ICC A117.1 Section 604.6) Flush controls.** (~~Flush controls shall be hand operated or automatic.~~) Hand operated flush controls for water closets shall be mounted (~~for use from the wide side of the water closet area and~~) not more than 44 inches (1118 mm) above the floor.

~~((1101.2.7 (ICC A117.1 Section 604.7) Toilet paper dispensers. Toilet paper dispensers shall comply with ICC A117.1 Section 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1015 mm) maximum above the floor or ground. There shall be a clearance of 1 1/2 inches (38 mm) minimum below and 12 inches (305 mm) minimum above the grab bar. Dispensers shall not be of a type that control delivery, or that do not allow continuous paper flow. Other dispensers, and disposal fixtures shall be located 40 inches (1015 mm) maximum above the floor or ground to any rack, operating controls, receptacle or dispenser.~~

~~1101.2.8 (ICC A117.1 Section 609.2) Grab bars size. Grab bars shall have an outside diameter of not less than 1 1/4 inch (32 mm) nor more than 1 1/2 inches (38 mm) and shall provide a clearance of 1 1/2 inches (38 mm) between the grab bar and the wall.)~~

**1101.2.9 (ICC A117.1 Section ((703.7.2.1)) 703.6.3.1) International Symbol of Accessibility.** Where the International Symbol of Accessibility is required, it shall be proportioned complying with ICC A117.1 Figure 703.7.2.1. All interior and exterior signs depicting the International Symbol of Accessibility shall be white on a blue background.

~~((1101.2.10 (ICC A117.1 Section 802.8) Lines of sight. Wheelchair spaces shall be located in places with unobstructed sight lines.))~~

**1101.2.11 (ICC A117.1 Section 404.3.5) Control switches.** Control switches shall be mounted ((36)) 32 to 40 inches above the floor and not less than 18 inches nor more than 36 inches horizontally from the nearest point of travel of the moving doors.

AMENDATORY SECTION (Amending WSR 04-01-108, filed 12/17/03, effective 7/1/04)

**WAC 51-50-1109 Section 1109--Other features and facilities.**

~~((1109.2 Toilet and bathing facilities. Toilet rooms and bathing facilities shall be accessible. Where a floor level is not~~

~~required to be connected by an accessible route, the only toilet rooms or bathing facilities provided within the facility shall not be located on the inaccessible floor. At least one of each type of fixture, element, control or dispenser in each accessible toilet room and bathing facility shall be accessible.~~

EXCEPTIONS:

- ~~1. In toilet rooms or bathing facilities accessed only through a private office, not for common or public use, and intended for use by a single occupant, any of the following alternatives are allowed:~~
  - ~~1.1 Doors are permitted to swing into the clear floor space provided the door swing can be reversed to meet the requirements in ICC A117.1;~~
  - ~~1.2 The height requirements for the water closet in ICC A117.1 are not applicable;~~
  - ~~1.3 Grab bars are not required to be installed in a toilet room, provided that reinforcement has been installed in the walls and located so as to permit the installation of such grab bars; and~~
  - ~~1.4 The requirement for height, knee and toe clearance shall not apply to a lavatory.~~
- ~~2. This section is not applicable to toilet and bathing facilities that serve dwelling units or sleeping units that are not required to be accessible by Section 1107.~~
- ~~3. Where multiple single-user toilet rooms or bathing facilities are clustered at a single location and contain fixtures in excess of the minimum required number of plumbing fixtures, at least 5 percent, but not less than one room for each use at each cluster, shall be accessible.~~
- ~~4. Toilet room fixtures that are in excess of those required by the State Building Code and that are designed for use by children in day care and primary school occupancies.~~
- ~~5. Where no more than one urinal is provided in a toilet room or bathing facility, the urinal is not required to be accessible.~~
- ~~6. Toilet rooms that are part of critical care or intensive care patient sleeping rooms are not required to be accessible.~~
- ~~7. In dwelling units where a separate bathtub and shower are provided in the same room, at least one shall be accessible.))~~

**1109.5 Drinking fountains.** On floors where drinking fountains are provided, at least 50 percent, but not less than one fountain, shall be accessible. At least one fountain shall be mounted at a standard height.

**1109.6 Elevators.** Passenger elevators on an accessible route shall be accessible and comply with ICC A117.1. Elevators required to be accessible shall be designed and constructed to comply with chapter 296-96 of the Washington Administrative Code.

**1109.9 Detectable warnings.** Passenger transit platform edges bordering a drop-off and not protected by platform screens or guards shall have a detectable warning. Curb ramps shall have detectable warnings. ~~((Detectable warnings shall extend the full width and depth of the curb ramp.))~~

EXCEPTION: Detectable warnings are not required at bus stops.

~~((1109.12.2 Check-out aisles. Where check-out aisles are provided, accessible check-out aisles shall be provided in accordance with Table 1109.12.2. Where check-out aisles serve different functions, at least one accessible check-out aisle shall be provided for each function. Where check-out aisles serve different functions, accessible check-out aisles shall be provided in accordance with Table 1109.12.2 for each function. Where check-out aisles are dispersed throughout the building or facility, accessible check-out aisles shall also be dispersed. Traffic control devices, security devices and turnstiles located in accessible check-out aisles or lanes shall be accessible. Accessible check-out aisles shall be identified by the International Symbol of Accessibility in accordance with ICC A117.1 Section 703.7.2.1.~~

EXCEPTION: Where the area of the selling space is less than 5,000 square feet (465 m<sup>2</sup>), only one check-out aisle is required to be accessible.))

**1109.14.3 Other occupancies.** All recreational facilities not falling within the purview of Section 1109.14.1 or 1109.14.2 shall

be accessible as required by the Americans with Disabilities Act Accessibility Guidelines.

AMENDATORY SECTION (Amending WSR 04-01-108, filed 12/17/03, effective 7/1/04)

**WAC 51-50-1208 Section 1208--Interior space dimensions.**

**1208.2 Minimum ceiling heights.** Occupiable spaces (~~(7)~~) and habitable spaces (~~(and corridors)~~) shall have a ceiling height of not less than 7 feet 6 inches (2286 mm). Bathrooms, toilet rooms, kitchen, storage rooms and laundry rooms shall be permitted to have a ceiling height of not less than 7 feet (2134 mm).

EXCEPTIONS:

1. In one- and two-family dwellings, beams or girders spaced not less than 4 feet (1219 mm) on center and projecting not more than 6 inches (152 mm) below the required ceiling height.
2. If any room in a building has a sloped ceiling, the prescribed ceiling height for the room is required in one-half the area thereof. Any portion of the room measuring less than 5 feet (1524 mm) from the finished floor to the ceiling shall not be included in any computation of the minimum area thereof.
3. Mezzanines constructed in accordance with Section 505.1.
4. Residential Group R Occupancies shall be permitted to have a ceiling height of not less than 7 feet (2134 mm).

**1208.3 Room area.** Every dwelling unit shall have at least one room that shall have not less than 120 square feet (13.9 m<sup>2</sup>) of net floor area. Other habitable rooms shall have a net floor area of not less than 70 square feet (6.5 m<sup>2</sup>).

EXCEPTION: Every kitchen in a one- and two-family dwelling shall have not less than 50 square feet (4.64 m<sup>2</sup>) of gross floor area.

Portions of a room with a sloped ceiling measuring less than 5 feet (1524 mm) or a flat ceiling measuring less than 7 feet (2134 mm) from the finished floor to the finished ceiling shall not be considered as contributing to the minimum habitable area for that room.

NEW SECTION

**WAC 51-50-1210 Section 1210--Surrounding materials.**

**1210.5 Toilet rooms.** This section is not adopted.

(The requirements of this section have been moved to Section 2902.2.1.1)

NEW SECTION

**WAC 51-50-1405 Section 1405--Installation of wall coverings.**

**1405.5.2 Seismic requirements.** Anchored masonry veneer located in Seismic Design Category C, D, E, or F shall conform to the requirements of Section 6.2.2.10, except Section 6.2.2.10.2.2, of ACI 530/ASCE 5/TMS 402.

NEW SECTION

**WAC 51-50-1605 Section 1605--Load combinations.**

**1605.3.1.1 Load reduction.** It is permitted to multiply the combined effect of two or more variable loads by 0.75 and add to the effect of dead load. The combined load used in design shall not be less than the sum of the effects of dead load and any one of the variable loads.

Increases in allowable stresses specified in the appropriate materials section of this code or referenced standard shall not be used with the load combinations of Section 1605.3.1 except that a duration of load increase shall be permitted in accordance with Chapter 23.

NEW SECTION

**WAC 51-50-2107 Section 2107--Working stress design.**

**2107.2.3 ACE 530/ASCE 5/TMS 402, Section 2.1.10.6.1.1, lap splices.** In regions of moment where the design tensile stresses in the reinforcement are greater than 80 percent of the allowable steel stress  $F_s$ , the lap length determined by equation (2.9) shall be increased by 50 percent.

NEW SECTION

**WAC 51-50-2108 Section 2108--Strength design of masonry.**

**2108.2 ACI 530/ASCE 5/TMS 402, Section 3.1.6.** Modify Section 3.1.6 as follows:

**3.1.6 Headed and bent-bar anchor bolts.** All embedded bolts shall



be grouted in place, except that 1/4 inch (6.4 mm) diameter bolts are permitted to be placed in bed joints that are at least 1/2 inch (12.7 mm) in thickness.

AMENDATORY SECTION (Amending WSR 04-01-108, filed 12/17/03, effective 7/1/04)

**WAC 51-50-2900 Chapter 29--Plumbing systems.**

**SECTION 2901--PLUMBING CODE.**

Plumbing systems shall comply with the Plumbing Code.

**SECTION 2902--GENERAL .**

**2902.1 Number of fixtures.**

**2902.1.1 Requirements.** Plumbing fixtures shall be provided in the minimum number shown in Table 2902.1 and in this chapter. Where the proposed occupancy is not listed in Table 2902.1, the building official shall determine fixture requirements based on the occupancy which most nearly resembles the intended occupancy.

Plumbing fixtures need not be provided for unoccupied buildings or facilities.

**2902.1.2 Private offices.** Fixtures only accessible to private offices shall not be counted to determine compliance with this section.

**2902.1.3 Occupancy load distribution.** The occupant load shall be divided equally between the sexes, unless data approved by the building official indicates a different distribution of the sexes.

**2902.1.4 Food preparation areas.** In food preparation, serving and related storage areas, additional fixture requirements may be dictated by health codes.

**2902.1.5 Other requirements.** For other requirements for plumbing facilities, see Sections 419.15 and 1210 and Chapter 11.

**2902.2 Access to fixtures.**

**2902.2.1 Location.** Plumbing fixtures shall be located in each building or conveniently in a building adjacent thereto on the same property.

**2902.2.1.1 Toilet rooms.** Toilet rooms shall not open directly into a room used for the preparation of food for service to the public.

**2902.2.2 Multiple tenants.** Access to toilets serving multiple tenants shall be through a common use area and not through an area controlled by a tenant.

**2902.2.3 Multistory buildings.** Required fixtures shall not be located more than one vertical story above or below the area

served.

### 2902.3 Separate facilities.

**2902.3.1 Requirements.** Separate toilet facilities shall be provided for each sex.

EXCEPTION((5)): ((+)) In occupancies serving ((+0)) 15 or fewer persons, one toilet facility designed for use by no more than one person at a time shall be permitted for use by both sexes.

((2- In Group B and M Occupancies with a total floor area of 1500 square feet (139.5 m<sup>2</sup>) or less, one toilet facility designed for use by no more than one person at a time shall be permitted for use by both sexes.))

**2902.3.2 Food service establishments.** When customers and employees share the same facilities, customers accessing the facilities are excluded from food preparation and storage areas.

**2902.4 Pay facilities.** Required facilities shall be free of charge. Where pay facilities are installed, they shall be in addition to the minimum required facilities.

2902.5 is not adopted.

2902.6 is not adopted.

### SECTION 2903--SPECIAL PROVISIONS .

**2903.1 Dwelling units.** Dwelling units shall be provided with a kitchen sink.

**2903.2 Water closet space requirements.** The water closet stool in all occupancies shall be located in a clear space not less than 30 inches (762 mm) in width, with a clear space in front of the stool of not less than 24 inches (610 mm).

**2903.3 Water.** Each required sink, lavatory, bathtub and shower stall shall be equipped with hot and cold running water necessary for its normal operation.

### 2903.4 Drinking fountains.

**2903.4.1 Number.** Occupant loads over 30 shall have one drinking fountain for the first 150 occupants, then one per each additional 500 occupants.

EXCEPTIONS: 1. Sporting facilities with concessions serving drinks shall have one drinking fountain for each 1000 occupants.  
2. A drinking fountain need not be provided in a drinking or dining establishment.

**2903.4.2 Multistory buildings.** Drinking fountains shall be provided on each floor having more than 30 occupants in schools, dormitories, auditoriums, theaters, offices and public buildings.

**2903.4.3 Penal institutions.** Penal institutions shall have one drinking fountain on each cell block floor and one on each exercise floor.

**2903.4.4 Location.** Drinking fountains shall not be located in toilet rooms.

TABLE 2902.1--MINIMUM PLUMBING FIXTURES<sup>1,2,4,6</sup>

TYPE OF BUILDING OR OCCUPANCY <sup>8</sup>	WATER CLOSETS (fixtures per person)		LAVATORIES <sup>5</sup> (fixtures per person)		BATHTUB OR SHOWER (fixtures per person)
	MALE <sup>3</sup>	FEMALE	MALE	FEMALE	
For the occupancies listed below, use 30 square feet (2.79 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
<b>Group A</b> <b>Assembly places--</b> Conference rooms, dining rooms, drinking establishments, exhibit rooms, gymnasiums, lounges, stages and similar uses including restaurants classified as Group B Occupancies	1:1-25 2:26-75 3:76-125 4:126-200 5:201-300 6:301-400 Over 400, add one fixture for each additional 200 males or 150 females	1:1-25 2:26-75 3:76-125 4:126-200 5:201-300 6:301-400	One per 2 water closets		
For the assembly occupancies listed below, use the number of fixed seating or, where no fixed seating is provided, use 15 square feet (1.39 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
Assembly places-- Theaters, auditoriums, convention halls, dance floors, lodge rooms, casinos, and such places which have limited time for fixture use (intermissions)	1:1-100 2:101-200 3:201-400 Over 400, add one fixture for each additional 250 males or 50 females	One per 25 Up to 400	1:1-200 2:201-400 3:401-750 Over 750, add one fixture for each additional 500 persons	1:1-200 2:201-400 3:401-750	
Assembly places-- Stadiums, arena and other sporting facilities where fixture use is not limited to intermissions	1:1-100 2:101-200 3:201-400 Over 400, add one fixture for each additional 300 males or 100 females	One per 50 Up to 400	1:1-200 2:201-400 3:401-750 Over 750, add one fixture for each additional 500 persons	1:1-200 2:201-400 3:401-750	
For the assembly occupancies listed below, use the number of fixed seating or, where no fixed seating is provided, use 30 square feet (2.79 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
Worship places Principal assembly area	One per 150	One per 75	One per 2 water closets		
Educational & activity unit	One per 125	One per 75	One per 2 water closets		
For the occupancies listed below, use 200 square feet (18.58 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
<b>Group B</b> and other clerical or administrative employee accessory use	1:1-15 2:16-35 3:36-55 Over 55, add one for each additional 50 persons	1:1-15 2:16-35 3:36-55	One per 2 water closets		
For the occupancies listed below, use 100 square feet (9.3 m <sup>2</sup> ) per student for the minimum number of plumbing fixtures.					

TYPE OF BUILDING OR OCCUPANCY <sup>8</sup>	WATER CLOSETS (fixtures per person)		LAVATORIES <sup>5</sup> (fixtures per person)		BATHTUB OR SHOWER (fixtures per person)
	MALE <sup>3</sup>	FEMALE	MALE	FEMALE	
<b>Group E</b>	1:1-15	1:1-15	One per 2 water closets		
Schools - for staff use	2:16-35	2:16-35			
All schools (One staff per 20 students)	3:36-55	3:36-55			
	Over 55, add one fixture for each additional 40 persons				
Schools - for student use	1:1-20	1:1-20	1:1-20	1:1-20	
Day care	2:21-50	2:21-50	2:21-50	2:21-50	
	Over 50, add one fixture for each additional 50 persons		Over 50, add one fixture for each additional 50 persons		
Elementary	One per 30	One per 25	One per 2 water closets		
Secondary	One per 40	One per 30	One per 2 water closets		
For the occupancies listed below, use 50 square feet (4.65 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
<b>Education facilities other than Group E</b>					
Others (colleges, universities, adult centers, etc.)	One per 40	One per 25	One per 2 water closets		
For the occupancies listed below, use 2,000 square feet (185.8 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
<b>Group F and Group H</b>	1:1-10	1:1-10	One per 2 water closets		
Workshop, foundries and similar establishments, and hazardous occupancies	2:11-25	2:11-25			One shower for each 15 persons exposed to excessive heat or to skin contamination with irritating materials
	3:26-50	3:26-50			
	4:51-75	4:51-75			
	5:76-100	5:76-100			
	Over 100, add one fixture for each additional 30 persons				
For the occupancies listed below, use the designated application and 200 square feet (18.58 m <sup>2</sup> ) per occupant of the general use area for the minimum number of plumbing fixtures.					
<b>Group I'</b>					
Hospital waiting rooms	One per room (usable by either sex)		One per room		
Hospital general use areas	1:1-15	1:1-15	One per 2 water closets		
	2:16-35	3:16-35			
	3:36-55	3:36-55			
	Over 55, add one fixture for each additional 40 persons				
Hospital patient rooms:					



TYPE OF BUILDING OR OCCUPANCY <sup>8</sup>	WATER CLOSETS (fixtures per person)		LAVATORIES <sup>5</sup> (fixtures per person)		BATHTUB OR SHOWER (fixtures per person)
	MALE <sup>3</sup>	FEMALE	MALE	FEMALE	
Single Bed	One adjacent to and directly accessible from		One per toilet room		One per toilet room
Isolation	One adjacent to and directly accessible from		One per toilet room		One per toilet room
Multibed	One per 4 patients		One per 4 patients		One per 8 patients
Long-term	One per 4 patients		One per 4 patients		One per 15 patients
Jails and reformatories					
Cell	One per cell		One per cell		
Exercise room	One per exercise room		One per exercise room		
Other institutions (on each occupied floor)	One per 25	One per 25	One per 2 water closets		One per 8
<b>Group LC</b>	For Group LC Occupancies, the minimum number of plumbing fixtures is specified in Section 419.15.				
For the occupancies listed below, use 200 square feet (18.58 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
<b>Group M</b>					
Retail or wholesale stores	1:1-50 2:51-100 3:101-400 4:201-300 5:301-400 Over 400, add one fixture for each additional 300 males or 150 females	1:1-50 2:51-100 3:101-200 4:201-300 5:301-400	One per 2 water closets		
For Group R Occupancies containing dwelling units or guest rooms, use the table below. For dormitories, use 200 square feet (18.58 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
<b>Group R</b>					
Dwelling units	One per dwelling unit		One per dwelling unit		One per dwelling unit
Hotel, motel, and boarding house guest rooms	One per guest room		One per guest room		One per guest room
Dormitories	One per 10 Over 10, add one fixture for each additional 25 males and over 8, add one for each additional 20 females	One per 8 Over 8, add one fixture for each additional 25 males and over 8, add one for each additional 20 females	One per 12 Over 12, add one fixture for each additional 20 males and one for each additional 15 females	One per 12	One per 8 For females, add one additional unit per each additional 30. Over 150 persons, add one additional unit per each additional 20 persons
For the occupancies listed below, use 5,000 square feet (464.5 m <sup>2</sup> ) per occupant for the minimum number of plumbing fixtures.					
<b>Group S</b>					
Warehouses	1:1-10 2:11-25	1:1-10 2:11-25	One per 40 occupants of each sex		One shower for each 15 persons exposed to excessive heat or to skin contamination with poisonous, infectious or irritating materials

TYPE OF BUILDING OR OCCUPANCY <sup>2</sup>	WATER CLOSETS (fixtures per person)		LAVATORIES <sup>5</sup> (fixtures per person)		BATHTUB OR SHOWER (fixtures per person)
	MALE <sup>3</sup>	FEMALE	MALE	FEMALE	
	3:26-50	3:26-50			
	4:51-75	4:51-75			
	5:76-100	5:76-100			
	Over 100, add one for each 30 persons				

<sup>1</sup>The figures shown are based on one fixture being the minimum required for the number of persons indicated or any fraction thereof.

<sup>2</sup>For occupancies not shown, see Section 2902.1.1.

<sup>3</sup>Where urinals are provided, 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 quarter (25%) of the minimum specified. For men's facilities serving 26 or more persons, not less than one urinal shall be provided.

<sup>4</sup>For drinking fountains, see Section 2903.4.

<sup>5</sup>Twenty-four inches (610 mm) of wash sink or 18 inches (457 mm) of a circular basin, when provided with water outlets for such space, shall be considered equivalent to one lavatory.

<sup>6</sup>For when a facility may be usable by either sex, see Section 2902.3.1.

<sup>7</sup>See WAC 246-320 for definitions, other fixtures and equipment for hospitals.

<sup>8</sup>When a space is accessory to or included as a part of a different occupancy group per Chapter 3, the area per occupant for the minimum plumbing fixture number is to be determined by its own specific use or purpose, not by that of the building's occupancy group.