

**California Plumbing Code
(Part 5, Title 24, California Code of Regulations)**

September 29, 2003 Supplement

It is suggested that the section number as well as the page number be checked when inserting this material and removing the superseded material. In case of doubt, rely on the section numbers rather than the page numbers since the section numbers must run consecutively.

It is further suggested that the superseded material be retained with this revision record sheet so that the prior wording of any section can be easily ascertained.

Please keep the removed pages with this revision for future reference.

Remove Old White Pages

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**Chapter 9
VENTS**

| ENFORCING AUTHORITY Adopting Agency | LOCAL BUILDING OFFICIAL | | | | | LOCAL FIRE OFFICIAL | LOCAL HEALTH OFFICIAL | STATE AGENCIES | | | | | | | | | | | |
|---|-------------------------|----|-----|-----|---|---------------------|-----------------------|----------------|-----|-----|-----|-----|--------|--------|---|---|---|--------|----|
| | CEC | CA | HCD | | | DSA AC | SFM | DHS | DWR | AGR | BOC | BSC | DSA SS | OSHDPD | | | | * DOSH | SL |
| | | | 1 | 1AC | 2 | | | | | | | | | 1 | 2 | 3 | 4 | | |
| Adopt entire UPC chapter without amendments | | | | | | | | | | | | X | X | | | | | | |
| Adopt entire UPC chapter as amended (amendments listed below) | | | X | | X | | | | | | | | | X | X | X | X | | |
| Adopt only those sections which are listed below | | | | | | | | | | | | | | | | | | | |
| 903.1.2.1 CA | | | | | | | | | | | | | | X | X | X | X | | |
| 903.1.2.2 CA | | | X | | X | | | | | | | | | | | | | | |
| 903.3.1 CA | | | X | | X | | | | | | | | | | | | | | |
| 906.2.1 CA | | | | | | | | | | | | | | X | X | | X | | |

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**Chapter 10
TRAPS AND INTERCEPTORS**

| ENFORCING AUTHORITY Adopting Agency | LOCAL BUILDING OFFICIAL | | | | | LOCAL FIRE OFFICIAL | LOCAL HEALTH OFFICIAL | STATE AGENCIES | | | | | | | | | | | |
|---|-------------------------|----|-----|-----|---|---------------------|-----------------------|----------------|-----|-----|-----|-----|--------|--------|---|---|---|--------|----|
| | CEC | CA | HCD | | | DSA AC | SFM | DHS | DWR | AGR | BOC | BSC | DSA SS | OSHDPD | | | | * DOSH | SL |
| | | | 1 | 1AC | 2 | | | | | | | | | 1 | 2 | 3 | 4 | | |
| Adopt entire UPC chapter without amendments | | | | | | | | | | | | X | X | | | | | | |
| Adopt entire UPC chapter as amended (amendments listed below) | | | X | X | X | | | | X | | | | | X | X | X | X | | |
| Adopt only those sections which are listed below | | | | | | | | | | | | | | | | | | | |
| 1005.0 CA | | | | X | X | | | | | | | | | | | | | | |
| 1010.1 CA | | | | | | | | | X | | | | | | | | | | |
| 1010.2 CA | | | | | | | | | X | | | | | | | | | | |
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| 1010.4 CA | | | | | | | | | X | | | | | | | | | | |
| 1013.0 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1014.1.1 CA | | | | | | | | | | | | | | X | X | X | X | | |
| 1014.9 CA | | | | | | | | | | | | | | X | X | X | X | | |
| 1014.10 CA | | | | | | | | | | | | | | X | X | X | X | | |
| 1016.0 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1016.1 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1016.1.1 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1016.1.2 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1016.2 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1016.3 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1016.4 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1017.0 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1017.1 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1017.2 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1017.3 UPC | | | † | | † | | | | | | | | | | | | | | |

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* DOSH has not adopted the 1997 edition of the Uniform Plumbing Code. The 1995 edition of the California Plumbing Code remains effective.

Chapter 15 of the 1998 California Plumbing Code "Plumbing Requirements for Design Safety for Accessibility" has been removed and incorporated into Chapter 11A of the 2000 California Building Code "Housing Accessibility" • The ♦ designation indicates that this State Fire Marshal's adoption of this Chapter or individual sections is (See Section 101.11.1 of the California Plumbing Code) applicable to structures subject to HCD 1 and/ or HCD 2. • This state agency adopts the entire chapter except for those sections indicated by the following symbol: †.

**Chapter 11
STORM DRAINAGE**

| ENFORCING AUTHORITY Adopting Agency | LOCAL BUILDING OFFICIAL | | | | | LOCAL FIRE OFFICIAL SFM | LOCAL HEALTH OFFICIAL DHS | STATE AGENCIES | | | | | | | | | | | |
|---|-------------------------|----|-----|-----|---|----------------------------|------------------------------|----------------|-----|-----|-----|-----|--------|-------|---|---|---|--------|----|
| | CEC | CA | HCD | | | | | DSA AC | DWR | AGR | BOC | BSC | DSA SS | OSHPD | | | | * DOSH | SL |
| | | | 1 | 1AC | 2 | | | | | | | | | 1 | 2 | 3 | 4 | | |
| Adopt entire UPC chapter without amendments | | | | | | | | | | X | X | | | | | | | | |
| Adopt entire UPC chapter as amended (amendments listed below) | | | X | | X | | | | | | | X | X | X | X | | | | |
| Adopt only those sections which are listed below | | | | | | | | | | | | | | | | | | | |
| 1101.1.1 CA | | | X | | X | | | | | | | | | | | | | | |
| 1101.3.1 CA | | | X | | X | | | | | | | | | | | | | | |
| 1101.3.2 CA | | | | | | | | | | | | X | X | X | X | | | | |
| 1101.3.3 CA | | | X | | X | | | | | | | | | | | | | | |
| 1101.5.1.1 CA | | | X | | X | | | | | | | | | | | | | | |
| 1102.1.2 CA | | | | | | | | | | | | X | X | X | X | | | | |
| 1102.1.2.1 CA | | | X | | X | | | | | | | | | | | | | | |

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**Chapter 12
FUEL PIPING**

| ENFORCING AUTHORITY Adopting Agency | LOCAL BUILDING OFFICIAL | | | | | LOCAL FIRE OFFICIAL SFM | LOCAL HEALTH OFFICIAL DHS | STATE AGENCIES | | | | | | | | | | | |
|---|-------------------------|----|-----|-----|---|----------------------------|------------------------------|----------------|-----|-----|-----|-----|--------|-------|---|---|---|--------|----|
| | CEC | CA | HCD | | | | | DSA AC | DWR | AGR | BOC | BSC | DSA SS | OSHPD | | | | * DOSH | SL |
| | | | 1 | 1AC | 2 | | | | | | | | | 1 | 2 | 3 | 4 | | |
| Adopt entire UPC chapter without amendments | | | | | | X | | | | X | | X | X | X | X | | | | |
| Adopt entire UPC chapter as amended (amendments listed below) | | | X | | X | | | | | | X | | | | | | | | |
| Adopt only those sections which are listed below | | | | | | | | | | | | | | | | | | | |
| 1202.2.1 CA | | | | | | | | | | X | | | | | | | | | |
| 1210.1 CA | | | X | | X | | | | | | | | | | | | | | |
| 1211.21 CA | | | | | | | | | | X | | | | | | | | | |
| 1216.4 UPC | | | † | | † | | | | | | | | | | | | | | |
| 1216.4.1 CA | | | X | | X | | | | | | | | | | | | | | |

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**Chapter 13
MEDICAL GAS SYSTEMS**

| ENFORCING AUTHORITY Adopting Agency | LOCAL BUILDING OFFICIAL | | | | | LOCAL FIRE OFFICIAL SFM | LOCAL HEALTH OFFICIAL DHS | STATE AGENCIES | | | | | | | | | | | |
|---|-------------------------|----|-----|-----|---|----------------------------|------------------------------|----------------|-----|-----|-----|-----|--------|-------|---|---|---|--------|----|
| | CEC | CA | HCD | | | | | DSA AC | DWR | AGR | BOC | BSC | DSA SS | OSHPD | | | | * DOSH | SL |
| | | | 1 | 1AC | 2 | | | | | | | | | 1 | 2 | 3 | 4 | | |
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| Adopt entire UPC chapter as amended (amendments listed below) | | | | | | | | | | | | | | | | | | | |
| Adopt only those sections which are listed below | | | | | | | | | | | | X | X | X | X | | | | |
| 1301.0 CA | | | | | | X | | | | | | X | X | X | X | | | | |

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PLUMBING FIXTURES AND FIXTURE FITTINGS

Table 4-1

| Type of Building or Occupancy ² | Water Closets ¹⁴ (Fixtures per Person) | Urinals ^{5, 10} (Fixtures per Person) | Lavatories (Fixtures per Person) | Bathtubs or Showers (Fixtures per Person) | Drinking Fountains ^{3, 13} (Fixtures per Person) |
|---|---|--|---|--|--|
| Board of Corrections Juvenile Halls | 1 per 6 | | 1 per 6 | 1 per 6 | Access to drinking fountain |
| Camp | 1 per 10 | | 1 per 10 | 1 per 7 | Access to drinking fountain |
| Board of Corrections Local Detention Facilities Locked Sleeping Rooms ¹¹ | 1 per 8 1 | | 1 per 8 1 | 1 per 20 | |
| Restaurants, Pubs and Lounges ¹¹ | Male 1: 1-50 Female 1: 1-50 2: 51-150 2: 51-150 3: 151-300 4: 151-300 Over 300, add 1 fixture for each additional 200 persons | Male 1: 1-150 Over 150, add 1 fixture for each additional 150 males | Male 1: 1-150 Female 1: 1-150 2: 151-200 2: 151-200 3: 201-400 3: 201-400 Over 400, add 1 fixture for each additional 400 persons | | |
| Schools – for staff use All schools | Male 1: 1-15 Female 1: 1-15 2: 16-35 2: 16-35 3: 36-55 3: 36-55 Over 55, add 1 fixture for each additional 40 persons | Male 1 per 50 | Male 1 per 40 Female 1 per 40 | | |
| Schools – for student use Nursery | Male 1: 1-20 Female 1: 1-20 2: 21-50 2: 21-50 Over 50, add 1 fixture for each additional 50 persons | | Male 1: 1-25 Female 1: 1-25 2: 26-50 2: 26-50 Over 50, add 1 fixture for each additional 50 persons | | 1 per 150 ¹² |
| Elementary | Male 1 per 30 Female 1 per 25 | Male 1 per 75 | Male 1 per 35 Female 1 per 35 | | 1 per 150 ¹² |
| Secondary | Male 1 per 40 Female 1 per 30 | Male 1 per 35 | Male 1 per 40 Female 1 per 40 | | 1 per 150 ¹² |
| Others (Colleges, Universities, Adult Centers, etc.) | Male 1 per 40 Female 1 per 30 | Male 1 per 35 | Male 1 per 40 Female 1 per 40 | | 1 per 150 ¹² |
| Worship Places Educational and Activities Unit | Male 1 per 150 Female 1 per 75 | Male 1 per 150 | 1 per 2 water closets | | 1 per 150 ¹² |
| Worship Places Principal Assembly Place | Male 1 per 150 Female 1 per 75 | Male 1 per 150 | 1 per 2 water closets | | 1 per 150 ¹² |

1. 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.
3. 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 one (1) laundry tray or one (1) automatic washer standpipe, or combination thereof, for each twelve (12) apartments. Kitchen sinks, one (1) for each dwelling or apartment unit.
5. For each urinal added in excess of the minimum required, one water closet may be deducted. The number of water closets shall not be reduced to less than two-thirds (2/3) of the minimum requirement.
6. As required by ANSI Z4.1-1986, 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 (610 mm) of wash sink or eighteen (18) inches (457 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. Service sinks, one (1) for each hundred (100) persons.
10. General. In applying this schedule of facilities, consideration shall be given to the accessibility of the 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.
 - a. Surrounding materials, wall and floor space to a point two (2) feet (610 mm) in front of urinal lip and four (4) feet (1219 mm) above the floor, and at least two (2) feet (610 mm) to each side of the urinal shall be lined with non-absorbent materials.
 - b. Trough urinals shall be 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 shall not be included in the above restaurant requirements. Hand washing facilities shall be available in the kitchen for employees.
12. Where food is consumed indoors, water stations may be substituted for drinking fountains. Offices, or public buildings for use by more than six (6) persons shall have one (1) drinking fountain for the first one hundred fifty (150) persons and one (1) additional fountain for each three hundred (300) 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. 15.
15. Fixtures need not to be located within the locked room provided a communication system or procedure is in effect to give the minor immediate access to a lavatory, toilet and drinking fountain.
16. Fixtures serving individual patient rooms shall not be considered as meeting the required rates for bedrooms not served by individual adjoining toilets or bathrooms.

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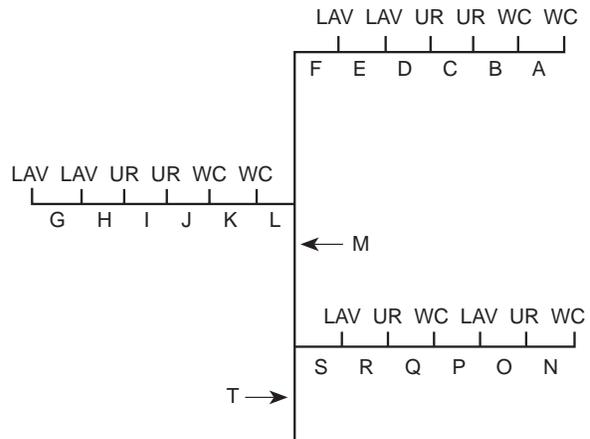
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fixture units assigned to every section of pipe, whether branch or main, shall be determined by the number and category of flushometer valves served by that section of pipe, in accordance with Table 6-7. Piping supplying a flushometer valve shall not be less in size than the valve inlet.

Table 6-6
Minimum Required Air Chamber Dimensions

| Nominal Pipe Diameter | Length of Pipe (ft.) | Flow Pressure P.S.I.G. | Velocity in Ft. Per. Sec. | Required Air Chamber Vol. in Cubic Inch | Phys. Size in Inches |
|-----------------------|----------------------|------------------------|---------------------------|---|----------------------|
| 1/2" (15 mm) | 25 | 30 | 10 | 8 | 3/4" x 15" |
| 1/2" (15 mm) | 100 | 60 | 10 | 60 | 1" x 69.5" |
| 3/4" (20 mm) | 50 | 60 | 5 | 13 | 1" x 5" |
| 3/4" (20 mm) | 200 | 30 | 10 | 108 | 1.25" x 72.5" |
| 1" (25 mm) | 100 | 60 | 5 | 19 | 1.25" x 12.7 " |
| 1" (25 mm) | 50 | 30 | 10 | 40 | 1.25" x 27" |
| 1-1/4" (32 mm) | 50 | 60 | 10 | 110 | 1.25" x 54" |
| 1-1/2" (40 mm) | 200 | 30 | 5 | 90 | 2" x 27" |
| 1-1/2" (40 mm) | 50 | 60 | 10 | 170 | 2" x 50.5" |
| 2" (50 mm) | 100 | 30 | 10 | 329 | 3" x 44.5" |
| 2" (50 mm) | 25 | 60 | 10 | 150 | 2.5" x 31" |
| 2" (50 mm) | 200 | 60 | 5 | 300 | 3" x 40.5" |

Sizing Method
Example Using TABLE 6-7
Public Use Fixtures



When using Table 6-7 to size water piping, care must be exercised to assign flushometer fixture units based on the number and category of fixtures served. In the example above, fixture units assigned to each section of pipe are computed as follows: Note: Each capital letter refers to the section of pipe above it, unless otherwise shown.

- A: 1 WC = 40 F.U.
- B: 2 WC = 70 F.U.
- C: 2 WC (70) + 1 UR (20) = 90 F.U.
- D: 2 WC (70) + 2 UR (35) = 105 F.U.
- E: 2 WC (70) + 2 UR (35) + 1 LAV (1) = 106 F.U.
- F: 2 WC (70) + 2 UR (35) + 2 LAV (2) = 107 F.U.
- G: 1 LAV = 1 F.U.
- H: 2 LAV = 2 F.U.
- I: 2 LAV (2) + 1 UR (20) = 22 F.U.
- J: 2 LAV (2) + 2 UR (35) = 37 F.U.
- K: 2 LAV (2) + 2 UR (35) + 1 WC (40) = 77 F.U.
- L: 2 LAV (2) + 2 UR (35) + 2 WC (70) = 107 F.U.
- M: 4 WC (105) + 4 UR (53) + 4 LAV (4) = 162 F.U.
- N: 1 WC = 40 F.U.
- O: 1 WC (40) + 1 UR (20) = 60 F.U.
- P: 1 WC (40) + 1 UR (20) + 1 LAV (1) = 61 F.U.
- Q: 2 WC (70) + 1 UR (20) + 1 LAV (1) = 91 F.U.
- R: 2 WC (70) + 2 UR (35) + 1 LAV (1) = 106 F.U.
- S: 2 WC (70) + 2 UR (35) + 2 LAV (2) = 107 F.U.
- T: 6 WC (125) + 6 UR (63) + 6 LAV (6) = 194 F.U.

TABLE 6-7

Flushometer Fixture Units for Water Sizing Using Table 6-5

Fixture Category: Water Closet w/ Flushometer Valves

| Number of Flushometer Valves | Individual Fixture Units Assigned in Decreasing Value | Fixture Units Assigned for Water Closets and Similar 10 Unit Fixtures in Accumulative Values |
|------------------------------|---|--|
| 1 | 40 | 40 |
| 2 | 30 | 70 |
| 3 | 20 | 90 |
| 4 | 15 | 105 |
| 5 or more | 10 each | 115 plus 10 for each additional fixture in excess of 5 |

Fixture Category: Urinals w/ Flushometer Valves

| Number of Flushometer Valves | Individual Fixture Units Assigned in Decreasing Value | Fixture Units Assigned for Urinals and Similar 5 Unit Fixtures in Accumulative Values |
|------------------------------|---|---|
| 1 | 20 | 20 |
| 2 | 15 | 35 |
| 3 | 10 | 45 |
| 4 | 8 | 53 |
| 5 or more | 5 each | 58 plus 5 for each additional fixture in excess of 5 |

CHAPTER 9

VENTS

901.0 Vents Required

Each plumbing fixture trap, except as otherwise provided in this Code, shall be protected against siphonage and back-pressure, and air circulation shall be assured throughout all parts of the drainage system by means of vent pipes installed in accordance with the requirements of this chapter and as otherwise required by this Code.

902.0 Vents Not Required

902.1 Where permitted by the Administrative Authority, vent piping may be omitted on an interceptor when such interceptor acts as a primary settling tank and discharges through a horizontal indirect waste pipe into a secondary interceptor. The second interceptor shall be properly trapped and vented.

902.2 Traps serving sinks which are part of the equipment of bars, soda fountains, and counters, need not be vented when the location and construction of such bars, soda fountains, and counters is such as to make it impossible to do so. When such conditions exist, said sinks shall discharge by means of approved indirect waste pipes into a floor sink or other approved type receptor.

903.0 Materials

903.1 Vent pipe shall be cast iron, galvanized steel, galvanized wrought iron, copper, brass, Schedule 40 ABS DWV, Schedule 40 PVC DWV or other approved materials having a smooth and uniform bore except that:

903.1.1 No galvanized wrought iron or galvanized steel pipe shall be used underground and shall be kept at least six (6) inches (152 mm) above ground.

903.1.2 ABS and PVC DWV piping installations shall be installed in accordance with IS 5, IS 9 and Chapter 15 "Firestop Protection for DWV and Stormwater Application". 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.).

903.1.2.1 [OSHPD 1, 2, 3 & 4] ABS or PVC

installation are limited to residential construction not more than two stories in height.

903.1.2.2 [For HCD 1 & HCD 2] ABS or PVC installations are limited to not more than two stories of areas of residential accomodation.

903.2 Use of Copper Tubing

903.2.1 Copper tube for underground drainage and vent piping shall have a weight of not less than that of copper drainage tube type DWV.

903.2.2 Copper tube for above ground drainage and vent piping shall have a weight of not less than that of copper drainage tube type DWV.

903.2.3 Copper tube shall not be used for chemical or industrial wastes as defined in Section 811.0.

903.2.4 In addition to the required incised marking, all hard drawn copper tubing shall be marked by means of a continuous and indelibly colored stripe at least one quarter (1/4) inch (6.4 mm) in width, as follows: Type K, green; Type L, blue; Type M, red; Type DWV, yellow.

903.3 Vent fittings shall be cast iron, galvanized malleable iron or galvanized steel, 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 mm) above ground.

903.3.1 [For HCD 1 & HCD 2] All malleable iron vents shall be galvanized.

903.4 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.

904.0 Size of Vents

904.1 The size of vent piping shall be determined from its length and the total number of fixture units connected thereto, as set forth in Table 7-5. The diameter of an individual vent shall not be less than one and one-fourth (1-1/4) inches (32 mm) nor less than one-half (1/2) the diameter of the drain to which it is connected. In addition, the drainage piping of each building and each connection to a public sewer or a private sewage disposal system shall be vented by means of one or more vent pipes, the aggregate cross-sectional area of which shall not be less than that of the largest required building sewer, as determined from Table 7-5.

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Exception: When connected to a common building sewer, the drainage piping of two (2) or more buildings located on the same lot and under one (1) ownership may be vented by means of piping sized in accordance with Table 7-5, provided the aggregate cross-sectional area of all vents is not less than that of the largest required common building sewer.

904.2 No more than one-third (1/3) of the total permitted length, per Table 7-5, of any minimum sized vent shall be installed in a horizontal position.

Exception: When a minimum sized vent is increased one (1) pipe size for its entire length, the maximum length limitation does not apply.

905.0 Vent Pipe Grades and Connections

905.1 All vent and branch vent pipes shall be free from drops or sags and each such vent shall be level or shall be so graded and connected as to drip back by gravity to the drainage pipe it serves.

905.2 Where vents connect to a horizontal drainage pipe, each vent pipe shall have its invert taken off above the drainage center line of such pipe downstream of the trap being served.

905.3 Unless prohibited by structural conditions, each vent shall rise vertically to a point not less than six (6) inches (152 mm) above the flood level rim of the fixture served before offsetting horizontally, and whenever two or more vent pipes converge, each such vent pipe shall rise to a point at least six (6) inches (152 mm) in height above the flood level rim of the plumbing fixture it serves before being connected to any other vent. Vents less than six (6) inches (152 mm) above the flood level rim of the fixture shall be installed with approved drainage fittings, material and grade to the drain.

905.4 All vent pipes shall extend undiminished in size above the roof, or shall be reconnected with a soil or waste vent of proper size.

905.5 The vent pipe opening from a soil or waste pipe, except for water closets and similar fixtures, shall not be below the weir of the trap.

905.6 Two (2) fixtures may be served by a common vertical pipe when each such fixture wastes separately into an approved double fitting having inlet openings at the same level.

906.0 Vent Termination

906.1 Each vent pipe or stack shall extend through its flashing and shall terminate vertically not less than six (6) inches (152 mm) above the roof nor less than one (1) foot (305 mm) from any vertical surface.

906.2 Each vent shall terminate not less than ten (10) feet (3048 mm) from, or at least three (3) feet (914 mm) above any openable window, door, opening, air intake, or vent shaft, nor less than three (3) feet (914 mm) in every direction from any lot line; alley and street excepted.

906.2.1 [for OSHPD 1, 2 & 4] Each vent pipe shall terminate not less than twenty-five (25) feet (7620 mm) from any air intake or vent shaft.

906.3 Vent pipes shall be extended separately or combined, of full required size, not less than six (6) inches (152 mm) above the roof or fire wall. Flagpoling of vents shall be prohibited except where the roof is used for purposes other than weather protection. All vents within ten (10) feet (3048 mm) of any part of the roof that is used for such other purposes shall extend not less than seven (7) feet (2134 mm) above such roof and shall be securely stayed.

906.4 Vent pipes for outdoor installations shall extend at least ten (10) feet (3048 mm) above the surrounding ground and shall be securely supported.

906.5 Joints at the roof around vent pipes shall be made watertight by the use of approved flashings or flashing material.

906.6 Lead. See Table 14-1. Sheet lead shall be not less than the following:

For safe pans – not less than four (4) pounds per square foot (19.5 kg/m²) or 1/16 inch (1.6 mm) thick.

For flashings or vent terminals – not less than three (3) pounds per square foot (14.7 kg/m²) or 1.2 mm thick.

Lead bends and lead traps shall not be less than one-eighth (1/8) inch (3.2 mm) wall thickness.

906.7 Frost or Snow Closure. Where frost or snow closure is likely to occur in locations having minimum design temperature below 0°F (-17.8°C), vent terminals shall be a minimum of two (2) inches (51 mm) in diameter but in no event smaller than the required vent pipe. The change in diameter shall be made inside the building at least one (1) foot (305 mm) below the roof in an insulated space and terminate not less than ten (10) inches (254 mm) above the roof, or as required by the Administrative Authority.

907.0 Vent Stacks and Relief Vents

907.1 Each drainage stack which extends ten (10) or more stories above the building drain or other horizontal drain, shall be served by a parallel vent stack which shall extend undiminished in size from its upper terminal and connect to the drainage stack at or immediately below the lowest fixture drain. Each such vent stack shall also be connected to the drainage

stack at each fifth floor, counting down from the uppermost fixture drain by means of a yoke vent, the size of which shall be not less in diameter than either the drainage or the vent stack, whichever is smaller.

907.2 The yoke vent intersection with the vent stack shall be placed not less than forty-two (42) inches (1067 mm) above the floor level, and the yoke vent intersection with the drainage stack shall be by means of a wye branch fitting placed below the fixture branch serving that floor.

908.0 Vertical Wet Venting

908.1 Wet venting is limited to vertical drainage piping receiving the discharge from the trap arm of one (1) and two (2) fixture unit fixtures that also serves as a vent for not to exceed four (4) 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. No wet vent shall exceed six (6) feet (1829 mm) in developed length.

908.2 The vertical piping between any two (2) consecutive inlet levels shall be considered a wet vented section. Each wet vented section shall be a minimum of one (1) pipe size larger than the required minimum waste pipe size of the upper fixture or shall be one (1) 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 (2) inches (51 mm).

908.3 Common vent sizing shall be the sum of the fixture units served but in no case smaller than the minimum vent pipe size required for any fixture served, or by Section 904.0.

909.0 Special Venting for Island Fixtures

Traps for island sinks and similar equipment shall be roughed in above the floor and may be vented by extending the vent as high as possible, but not less than the drainboard height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical fixture drain. The return vent shall be connected to the horizontal drain through a wye-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a wye-branch immediately below the floor and extending to the nearest partition and then through the roof to the open air or may be connected to other vents at a point not less than six (6) inches (152 mm) above the flood level rim of the fixtures served. Drainage fittings shall be used on all parts of the vent below the floor level

and a minimum slope of one-quarter (1/4) inch per foot (20.9 mm/m) back to the drain shall be maintained. The return bend used under the drainboard shall be a one (1) piece fitting or an assembly of a forty-five (45) degree (0.79 rad), a ninety (90) degree (1.6 rad) and a forty-five (45) degree (0.79 rad) elbow in the order named. Pipe sizing shall be as elsewhere required in this Code. The island sink drain, upstream of the returned vent, shall serve no other fixtures. An accessible cleanout shall be installed in the vertical portion of the foot vent.

910.0 Combination Waste and Vent Systems

910.1 Combination waste and vent systems shall be permitted only where structural conditions preclude the installation of conventional systems as otherwise prescribed by this Code.

910.2 Plans and specifications for each combination waste and vent system shall first be approved by the Administrative Authority before any portion of any such system is installed.

910.3 Each combination waste and vent system, as defined in Chapter 2, shall be provided with a vent or vents adequate to assure free circulation of air. Any branch more than fifteen (15) feet (4572 mm) in length shall be separately vented in an approved manner. The minimum area of any vent installed in a combination waste and vent system shall be at least one-half (1/2) the inside cross-sectional area of the drain pipe served. The vent connection shall be downstream of the uppermost fixture.

910.4 Each waste pipe and each trap in any such system shall be at least two (2) pipe sizes larger than the sizes required by Chapter 7 of this Code, and at least two (2) pipe sizes larger than any fixture tailpiece or connection.

910.5 Unless specifically required or permitted by the Administrative Authority, no vertical waste pipe shall be used in any such system, except the tailpiece or connection between the outlet of a plumbing fixture and the trap therefor. Such tailpieces or connections shall be as short as possible, and in no case shall exceed two (2) feet (610 mm).

Exception: Branch lines may have forty-five (45) degree (0.79 rad) vertical offsets.

910.6 Cleanouts may not be required on any wet vented branch serving a single trap when the fixture tailpiece or connection is not less than two (2) inches (50 mm) in diameter and provides ready access for cleaning through the trap. An accessible cleanout shall be installed in each vent for the combination waste and vent system.

910.7 No water closet or urinal shall be installed on any such system. Other one (1), two (2), or three (3) unit fixtures remotely located from the sanitary

system and adjacent to a combination waste and vent system may be connected to such system in the conventional manner by means of waste and vent pipes of regular sizes, providing that the two (2) pipe size increase required in Section 910.4 is based on the total fixture unit load connected to the system.

Note: See Appendix B of this Code for explanatory notes on the design of combination waste and vent systems.

See also Appendix L, Alternate Plumbing Systems, for sizing vent piping systems.

falling” to “strapped to resist falling”.

Page 63: In Section 601.2.2 and Section 601.2.3 add quotation marks around the words A UNIVERSAL POISON SYMBOL OF SKULL AND CROSSBONES SHALL BE PROVIDED.

Page 69: In Section 603.4.12, add quotation marks around the words A UNIVERSAL POISON SYMBOL OF SKULL AND CROSSBONES SHALL BE PROVIDED.

Page 71: In Section 604.1.2 [HCD 1] revise “Authority to Approved” to “Authority to Approve”.

Page 80: At Section 612.5, add a double line margin tape for the words “The audible/visual device for the high temperature alarm shall annunciate at a continuously occupied location”.

Page 86: In Section 705.1.1.1, revise “Calked” to “Caulked”.

Page 108: At Section 1014.9, for second line, add a double line margin tape.

Page 111: Revise last sentence of Section 1101.3.1 to read: “ABS or PVC installations are limited to not more than two stories of areas of residential accommodations.”

Page 145: In Table 12-13 change Length of Tube, feet, “175” to “200” and “200” to “250” and delete bottom “250”. Immediately below row “150”, insert a new row for “|175|47|97|198|346|491|1050|1890|”. In Table 12-14, in the row for 50 of Length of Tube, feet, revise the right hand column for 1-3/8 to read “7747”.

Page 147: For Section 1301.0, add margin tape L's and double line margin tape.

Page 153: In Section 1321.1.3 revise reference from “Section 1316.0” to “Section 1324”.

Page 170: In Table 14.1, Add margin tape L for NFPA 13, 1999, NFPA 13R, 1999, NFPA 13 D-1999, NFPA 14, 2000, NFPA 54-96, NFPA 58-98 & NFPA 99-93. Add margin tape L and Revise “[For SMF] NFPA 99-99” to “[For SFM, OSHPD 1, 2, 3, &4] NFPA 99-99”, under Standards Title add “ Medical Gas Systems” and under Application add “Piping [For SFM]”. Add margin tape L for NFPA 99C-93. Add margin tape L and Revise “[For

SMF] NFPA 99C-99” to “[For SFM, OSHPD 1, 2, 3, &4]”, under Standard Title add “ Gas and Vacuum Systems” and under Application add “Piping [For SFM]”.

Page 179: For Section 1505.4, Section 1505.5 and Section 1505.6 add margin tape L's.

Page 186: Under the heading Water Supply Fixture Units (WSFU)...., add “Note: [For HCD 1 & HCD 2] See Chapter 6, Section 610.7, Table 6-4, U.P.C., for equivalent fixture units.” In the item “Mobile Home, each, (minimum)” add the words “(Not Adopted by HCD)”.

Page 186: Under the column Assembly, the footnote should read “6” instead of “5”.

8. July 8, 2003 Errata

Page xxv: Revise title to read: “APPENDIX G-A” from “APPENDIX G”. 1. Remove “(NOT ADOPTED BY CBSC)” under APPENDIX G-A title. 2. Under Adopting Agency revise first line to read: “Adopt entire California chapter” and insert “X” under DWR. Delete “Adopt entire UPC chapter as amended (amendments listed below) and “Adopt only those sections which are listed below”. Filed 7/14/03. Issuing Agency: CBSC, Effective date: 11/1/02.

Page xxvi: Remove “(NOT ADOPTED BY CBSC)” from APPENDIX I and APPENDIX K. Filed 7/14/03. Issuing Agency: CBSC, Effective date: 11/1/02.

2001 California Plumbing Code Supplement

1. (OSHPD 1/02) 2001 California Plumbing Code Standards, Chapter 4, 6, and 9, Various Sections. Chapter 4, Table 4-2, Plumbing Fixture Table, Chapter 6 Water Supply and distribution, section 612.2, chapter 9 Vents, section 906.2.1. Approved by the Building Standards Commission on May 14, 2003 and effective 180 days after publication.

