

The 2007 triennial edition of the California Code of Regulations, Title 24 (California Building Standards Code) applies to all occupancies that applied for a building permit on or after January 1, 2008, and remains in effect until the effective date of the next triennial edition. The following errata items will be officially published and distributed by ICC and IAPMO as a second errata issue at the end of 2008. (Note: Items shown underlined denote the errata item that was revised)

Errata items for the 2007 Triennial Edition of Title 24, Part 2, 2007 California Building Code

(Updated on 6-27-08)

• **Part 2 - California Building Code, Vol. 1 & 2**

- **Index to CBC**, both Vol. 1 & 2 – Correct section ref. from 2111.14.1 to 2111.13.1 for “FIREPLACES, FACTORY-BUILT.

FIREPLACES, FACTORY-BUILT~~2111.14.1~~ 2111.13.1

- **Chapter 1 – Section 107** – Change the name of the “DEPARTMENT OF HEALTH SERVICES” to the new agency name of CALIFORNIA DEPARTMENT OF PUBLIC HEALTH. Additionally, change the other name references within the same section and acronym modification from DHS to CDPH within Chapter 1 and preface.
- **Chapter 4 – Section 419.4 & 419.4.2** – Correct internal references to the “Townhouses” and “Parapets” sections as shown:

419.4 Townhouses. [HCD 1] *Each townhouse unit shall be considered a separate building and shall comply with the following:*

1. *Adjacent townhouse units shall each be provided with a 1-hour fire-resistance-rated wall assembly separating the units.*
2. *Openings are not permitted.*
3. *Penetrations shall comply with Section ~~705.9~~ 712.*

Exception: *In lieu of the...* (Remaining text for this section to remain unchanged)

419.4.2 Parapets. [HCD 1] *Parapets constructed in accordance with Section ~~704.11.1~~ 419.4.3 shall be constructed for townhouses as an extension of exterior walls or common walls in accordance with the following:*

(Remaining text for this section to remain unchanged)

- **Chapter 7 –Table 720.1(2) Correction** – Item #14 Wood studs – interior partition with gypsum wallboard each side – 14-1.5

In the first sentence of the paragraph for item 14-1.5 the stud spaces is listed as 1”. This is incorrect and should read 16”. The following is a reprint of the paragraph with the corrected information shown:

2” x 4” wood studs 16” on center with two layers of 5/8” Type X gypsum wallboard each side. Base layers applied vertically and nailed with 6d cooler or wallboard nails at 9” on center. Face layer applied vertically or horizontally and nailed with 8d cooler or wallboard nails at 7” on center. For nail-adhesive application, base layers are nailed at 6” on center. Face layers applied with coating of approved wallboard adhesive and nailed 12” on center.

- **Chapter 10** – Matrix Table Correction – Add an ‘X’ to the matrix adoption table for the HCD agency under Section number 1003.1.
- **Chapter 16A of Vol. 2** – Definitions – Change the word ~~preclude~~ to the correct word “preclude”

SUBSTANTIAL IMPROVEMENT. Any repair, reconstruction, rehabilitation, addition or improvement of a building or structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the improvement or repair is started. If the structure has sustained substantial damage, any repairs are considered substantial improvement regardless of the actual repair work performed. The term does not, however, include either:

1. Any project for...
2. Any alteration of a historic structure provided that the alteration will not ~~preclude~~ preclude the structure’s continued designation of a historic structure.

- **Chapter 16A – Matrix Adoption Table Correction** (Both Vol.’s) – 2007 California Building Code, Chapter 16A, Matrix Adoption Table.

Under the DSA/AC banner in the Chapter 16A Matrix Adoption Table, Section 1607A.2 should be changed to be Section **1607A.7.2** to mirror the DSA/AC Chapter 16 Matrix Adoption of Section 1607.7.2.

- **Chapter 17** – Replace an incorrect word – Change the word “instructions” to “inspections” in Section 1704.1, exception 3 – Chapter 17 should match Chapter 17A which is shown with the correct text.
- **Chapter 31A** (Missing from July publication)

Chapter 31A

SYSTEMS FOR WINDOW CLEANING OR EXTERIOR BUILDING MAINTENANCE

- **Chapter 34** (Incorrect reference to Section in Exit Chapter 10. Also, Change the word “maximum” to “minimum” in the first sentence of Section 3411.3)

3410.6.13 Maximum exit access travel distance. Evaluate the length of exit access...

... and general safety. The maximum allowable exit access travel distance shall be determined in accordance with Section ~~4045.4.~~ 1016.1.

3411.3 Stair construction. All stairs shall have a minimum run of 9 inches (229 mm) and a maximum rise of 8 inches (203 mm) and a ~~maximum~~ minimum width exclusive of handrails of 30 inches (762 mm). Every stairway shall have...

- **Part 4 – California Mechanical Code**
 - **Chapter 4, Section 418.5 Alarm Systems.** (Change the word “an” to “and” in the first sentence of the paragraph and change the word “cubit” to “cubic” at the end of the paragraph as follows)

An Audible ~~an~~ and visual alarm system shall be installed to alert sterilizer operating personnel if the air flow falls below design ~~cubit~~ cubic feet per minute(L/S).

- **Part 5 – California Plumbing Code**
 - **Table 4-1 Instructional Language** (Modification to clarify the use of a reference Table A)

Table 4-1

Minimum Plumbing Facilities¹

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department Having Jurisdiction¹⁹.
 For requirements for persons with disabilities, Chapter 11A or 11B of the California Building Code shall be used.
~~The total occupant load shall be determined by the minimum existing requirements.~~ The minimum number of fixtures shall be calculated by fifty (50) percent male and fifty (50) percent female based on the total occupant load.
 The occupant load and use of building...

“Remaining language and exceptions for Table 4-1 are to remain as printed in the 2007 edition of the CPC”.

- **Part 8 - California Historical Building Code**
 - *Section 8-812, Table 8-8A & Table 8-8B* (Missing tables from July publication)

Chapter 8-8, Section 8-812

Table 8-8A ALLOWABLE VALUES FOR EXISTING MATERIALS

<u>EXISTING MATERIALS OR CONFIGURATIONS OF MATERIALS¹</u>	<u>ALLOWABLE VALUES</u>
	<u>x14.594 for N/m</u>
<u>1. Horizontal diaphragms²</u>	
<u>1.1 Roofs with straight sheathing and roofing applied directly to the sheathing</u>	<u>100 lbs. Per foot for seismic shear</u>
<u>1.2 Roofs with diagonal sheathing and roofing applied directly to the sheathing</u>	<u>250 lbs. Per foot for seismic shear</u>
<u>1.3 Floors with straight tongue-and-groove sheathing</u>	<u>100 lbs. Per foot for seismic shear</u>
<u>1.4 Floors with straight sheathing and finished wood flooring with board edges offset or perpendicular</u>	<u>500 lbs. Per foot for seismic shear</u>
<u>1.5 Floors with diagonal sheathing and finished</u>	<u>600 lbs. Per foot for seismic shear</u>
<u>2. Crosswalls^{2,3}</u>	
<u>2.1 Plaster on wood or metal lath</u>	<u>Per side: 200 lbs. Per foot for seismic shear</u>
<u>2.2 Plaster on gypsum lath</u>	<u>175 lbs. Per foot for seismic shear</u>
<u>2.3 Gypsum wallboard, unblocked edges</u>	<u>75 lbs. Per foot for seismic shear</u>
<u>2.4 Gypsum wallboard, blocked edges</u>	<u>125 lbs. Per foot for seismic shear</u>
<u>Existing footings, wood framing, structural steel and reinforced</u>	<u>f_c=1,500 psi (10.34 MPa) unless otherwise</u>

<u>steel</u> 3.1 Plain concrete footings 3.2 Douglas fir wood 3.2 Reinforcing steel 3.4 Structural steel	<u>shown by tests⁴</u> Allowable stress same as D.F. No. 1 ⁴ $f_t = 18,000$ lbs. Per square inch (124.1 N/mm ²) <u>maximum</u> $f_t = 200.00$ lbs. Per square inch (137.9 N/mm ²) <u>maximum⁴</u>
--	---

¹Material must be sound and in good condition.

²A one-third increase in allowable stress is not allowed.

³Shear values of these materials may be combined, except the total combined value shall not exceed 300 pounds per foot (4380 N/m).

⁴Stresses given may be increased for combinations of loads as specified in the regular code.

Table 8-8B ALLOWABLE VALUES OF NEW MATERIALS USED IN CONNECTION WITH EXISTING CONSTRUCTION

<u>NEW MATERIALS OR CONFIGURATIONS OF MATERIALS</u>	<u>ALLOWABLE VALUES¹</u>
1. <u>Horizontal diaphragms²</u> <u>Plywood sheathing nailed directly over existing straight sheathing with ends of plywood sheets bearing on joists or rafters and edges of ply- wood located on center of individual sheathing boards</u> <u>Plywood sheathing nailed directly over existing diagonal sheathing with ends of plywood sheets bearing on joists or rafters</u> 1.3 <u>Plywood sheathing nailed directly over existing straight or diagonal sheathing with ends of ply- wood sheets bearing on joists or rafters with edges of plywood located over new blocking and nailed to provide a minimum nail penetration into framing and blocking of 1 inches (41 mm)</u>	<u>225 lbs. Per foot (3283 N/m)</u> <u>375 lbs. Per foot (5473 N/m)</u> <u>75 percent of the values specified in the regular code</u>
<u>Shear walls: (general procedure)</u> <u>Plywood sheathing applied directly over wood studs. No value shall be given to plywood applied over existing plaster or wood sheathing</u>	<u>100 percent of the value specified in the regular code for shear walls</u>
3. <u>Crosswalls: (special procedure only)</u> <u>Plywood sheathing applied directly over wood studs. No value shall be given to plywood applied over existing plaster or wood sheathing</u> <u>Drywall or plaster applied directly over wood studs</u> <u>Drywall or plaster applied to sheathing over existing wood studs</u>	<u>133 percent of the value specified in the regular code for shear walls</u> <u>100 percent of the values in the regular code</u> <u>The values specified in the regular code reduced as noted.³ (UBC Table 25-I, Footnote 1)</u>
4. <u>Tension bolts</u> <u>Bolts extending entirely through unreinforced masonry walls secured with bearing plates on far side of a three-wythe- minimum wall with at least 30 square inches (19 350 mm²) of area^{4,5}</u> <u>Bolts extending to the exterior face of the wall with a 2½-inch (63.5 mm) round plate under the head and drilled at an angle of 22½ degrees to the horizontal, installed as specified for shear bolts^{4,5,7}</u>	<u>1,800 lbs. (8006 N) per bolt⁶</u> <u>900 lbs. (4003 N) per bolt for two-wythe walls⁶</u> <u>1,200 lbs. (5338 N) per bolt</u>
5. <u>Shear bolts</u> <u>Bolts embedded a minimum of 8 inches (203 mm) into unreinforced masonry walls and centered in a 2½-inch-diameter (63.5 mm) hole filled with dry-pack or nonshrink grout. Through bolts with first 8 inches (203 mm) as noted above and embedded bolts as noted in Item 4.2^{5,7}</u>	<u>½ inch (12.7 mm) diameter = 350 lbs. (1557 N)⁶</u> <u>⅝ inch (15.9 mm) diameter = 500 lbs. (2224 N)⁶</u> <u>¾ inch (19 mm) diameter = 750 lbs. (3336 N)⁶</u>
6. <u>Infilled walls</u> <u>Reinforced masonry infilled openings in existing unreinforced masonry walls. Provide keys or dowels to match reinforcing</u>	<u>Same as values specified for unreinforced masonry walls</u>
7. <u>Reinforced masonry</u> <u>Masonry piers and walls reinforced per the regular code</u>	<u>Same as values specified in the regular code</u>

<u>8. Reinforced concrete</u> <u>Concrete footings, walls and piers reinforced as specified in the regular code and designed for tributary loads</u>	<u>Same values as specified in the regular code⁸</u>
---	---

¹A one-third increase in allowable stress is not allowed, except as noted.

²Values and limitations are for nailed plywood. Higher values may be used for other fastening systems such as wood screws or staples when approved by the enforcing authority.

³In addition to existing sheathing value.

⁴Bolts to be ½-inch (12.7 mm) minimum diameter.

⁵Drilling for bolts and dowels shall be done with an electric rotary drill. Impact tools shall not be used for drilling holes or tightening anchors and shear bolt nuts.

⁶Other bolt sizes, values and installation methods may be used provided a testing program is conducted in accordance with regular code standards. Bolt spacing shall not exceed 6 feet. (1830 mm) on center and shall not be less than 12 inches (305 mm) on center.

⁷Embedded bolts to be tested as specified in regular code standards.

⁸Stresses given may be increased for combinations of loads as specified in the regular code

- **Part 9 California Fire Code**

- Chapter 9, Section 904.11.6.5. Add missing language missing from California Fire Code publication. Corrected version follows: (Underlined portion is the missing text)

904.11.6.5 Fusible link sprinkler head replacement. Fusible links and automatic sprinkler heads shall be replaced at least annually, and other protection devices shall be serviced or replaced in accordance with the manufacturers instructions.

Exception: Frangible bulbs are not required to be replaced annually.

- Chapter 34, Table 3403.1.1. Add missing language “Locations” missing from California Fire Code publication. Corrected version follows: (Underlined portion is the missing text)

LOCATION	GROUP D DIVISION	EXTENT OF CLASSIFIED AREA
Underground tank fill opening	1	Pits, boxes or spaces below grade level, any part of which is within Division 1 or 2
	2	Up to 18 inches above grade level within a horizontal radius of 10 feet from a loose-fill connection and within a horizontal radius of 5 feet from a tight-fill connection.
Vent – Discharging upward	1	Within 3 feet of open end of vent, extending in all directions.
	2	Area between 3 feet and 5 feet of open end of vent, extending in all directions.
Drum and container filling – Outdoor or indoor with adequate ventilation	1	Within 3 feet of vent and fill opening, extending in all directions.
	2	Area between 3 feet and 5 feet from vent of fill opening, extending in all directions. Also up to 18 inches above floor or grade level within a horizontal radius of 10 feet from vent or fill opening.
Pumps, bleeders, withdrawal fittings, meters and similar devices		
	Indoor	2
Outdoor	2	Within 3 feet of any edge of such devices, extending in all directions. Also up to 18 inches above floor or grade level

		within a horizontally from an edge of such devices.
Pits		
Without mechanical ventilation	1	Entire area within pit if any part is within a Division 1 or 2 classified area.
With mechanical ventilation	2	Entire area within pit if any part is within a Division 1 or 2 classified area.
Containing valves, fittings or piping, and not within a Division 1 or 2 classified area	2	Entire pit.
<u>Drainage ditches, separators, impounding basins</u>		
<u>Indoor</u>	<u>1 or 2</u>	<u>Same as pits.</u>
<u>Outdoor</u>	<u>2</u>	<u>Area up to 18 inches above ditch, separator or basin. Also up to 18 inches above grade within 15 feet horizontal from any edge.</u>
<u>Tank vehicle and tank car^b</u>		
<u>Loading through open dome</u>	<u>1</u> <u>2</u>	<u>Within 3 feet of edge of dome, extending in all directions.</u> <u>Area between 3 feet and 15 feet from edge of dome, extending in all directions.</u>
<u>Loading through bottom connections with atmospheric venting</u>	<u>1</u> <u>2</u>	<u>Within 3 feet of point of venting to atmosphere, extending in all directions. Also up to 18 inches above grade within a horizontal radius of 10 feet from point of loading connection.</u> <u>Area between 3 feet and 15 feet from point of venting to atmosphere, extending in all directions. Also up to 18 inches above grade within a horizontal radius of 10 feet from point of loading connection.</u>
<u>Office and restrooms</u>	<u>Ordinary</u>	<u>Where there is an opening to these rooms within the extent of an indoor classified location, the roof shall be classified the same as if the wall, curb or partition did not exist.</u>
<u>Loading through closed dome with atmospheric venting</u>	<u>1</u> <u>2</u>	<u>Within 3 feet of open end of vent, extending in all directions.</u> <u>Area between 3 feet and 15 feet from open end of vent, extending in all directions. Also within 3 feet of edge of dome, extending in all directions</u>
<u>Loading through closed dome with vapor control</u>	<u>2</u>	<u>Within 3 feet of point of connection of both fill and vapor lines, extending in all directions.</u>
<u>Bottom loading with vapor control or any bottom unloading</u>	<u>2</u>	<u>Within 3 feet of point of connection, extending in all directions. Also up to 18 inches above grade within a horizontal radius of 10 feet from the point of connection.</u>
<u>Storage and repair garage for tank vehicles</u>	1 2	Pits or spaces below floor level. Area up to 18 inches above floor or grade level for entire storage or repair garage.
<u>Garages for other than tank vehicles</u>	Ordinary	Where there is an opening to these rooms within the extent of an indoor classified area, the room shall be classified the same as the area classification at the point of the opening.
<u>Outdoor drum storage</u>	Ordinary	
<u>Indoor warehousing where there is no flammable liquid transfer</u>	Ordinary	Where there is an opening to these rooms within the extent of an indoor classified area, the room shall be classified the same as if the wall, curb of partition did not exist.
<u>Indoor equipment where flammable vapor/air mixtures could exist under normal operations</u>	1 2	<u>Area within 5 feet of any edge of such equipment, extending in all directions.</u> <u>Area between 5 feet and 8 feet of any edge of such equipment, extending in all directions. Also, area up to 3 feet above floor or grade level within 5 feet to 25 feet horizontally from any edge of such equipment.</u>

<u>Outdoor equipment where flammable vapor/air mixtures could exist under normal operations</u>	<u>1</u>	<u>Area within 3 feet of any edge of such equipment, extending in all directions.</u>
	<u>2</u>	<u>Area between 3 feet and 8 feet of any edge of such equipment, extending in all directions. Also, area up to 3 feet above floor or grade level within 3 feet to 10 feet horizontally from any edge of such equipment.</u>
<u>Tank – Above ground</u> <u>Shell, ends of roof and dike area</u> <u>Vent</u> <u>Floating roof</u>	<u>1</u>	<u>Area inside dike where dike height is greater than the distance from the tank to the dike for more than 50 percent of the tank circumference.</u>
	<u>2</u>	<u>Area within 10 feet from shell, ends of roof tank. Area inside dikes to level of top of dike.</u>
	<u>1</u>	<u>Area within 5 feet of open end of vent, extending in all directions.</u>
	<u>2</u>	<u>Area between 5 feet and 10 feet from open end of vent, extending in all directions.</u>
	<u>1</u>	<u>Area above the roof and within the shell.</u>

“Footnotes stay the same”

- o Chapter 45, Standard Reference for NFPA:

Change NFPA 10-05 reference to NFPA 10-02. (Publisher Error; NFPA has never published a 2005 edition of this standard. Correct standard is shown underlined)