REVISION RECORD FOR THE
STATE OF CALIFORNIA

ERRATA

January 1, 2009

2007 Title 24, Part 8, California Historical Building Code

PLEASE NOTE: The date of this Errata is for identification purposes only. See the History Note Appendix for the adoption and effective dates of the provisions.

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suggested that the section number as well as the page number be checked when inserting this material and removing the superseded material.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 because the section numbers must run consecutively.

It is further suggested that the 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 page for future reference.

Note

Due to the fact that the application date for a building permit establishes the California Building Standards Code provisions that are effective at the local level, which apply to the plans, specifications, and construction for that permit, it is strongly recommended that the removed pages be retained for historical reference.

Remove Existing Pages
vii and viii
17 and 18
29 and 30

Insert New Pages
vii and viii
17 and 18
29 and 30
CALIFORNIA CODE OF REGULATIONS, TITLE 24
California Agency Information Contact List

California Energy Commission
Energy Hotline ........................ (800) 772-3300
Building Efficiency Standards
Appliance Efficiency Standards
Compliance Manual/Forms

California State Lands Commission
Marine Oil Terminals .................. (562) 499-6317

California State Library
Construction Standards ................ (916) 445-9604

Corrections Standards Authority
Local Adult Jail Standards .......... (916) 324-1914
Local Juvenile Facility Standards .... (916) 324-1914

Department of Consumer Affairs—Acupuncture Board
Office Standards ................ (916) 445-3021

Department of Consumer Affairs—Board of Pharmacy
Pharmacy Standards ................ (916) 574-7900

Department of Consumer Affairs—Bureau of Barbering and Cosmetology
Barber and Beauty Shop and College Standards ........ (916) 952-5210

Department of Consumer Affairs—Bureau of Home Furnishings and Thermal Insulation
Insulation Testing Standards .......... (916) 574-2041

Department of Consumer Affairs—Structural Pest Control Board
Structural Standards ................ (800) 737-8188

Department of Consumer Affairs—Veterinary Medical Board
Veterinary Hospital Standards ...... (916) 263-2610

Department of Food and Agriculture
Meat & Poultry Packing Plant Standards .... (916) 654-0509
Dairy Standards ................ (916) 654-0773

Department of Health Services
Organized Camps Standards ........ (916) 449-5661
Public Swimming Pools Standards .... (916) 449-5661
Asbestos Standards ................ (510) 620-2874

Department of Housing and Community Development
Residential—Hotels, Motels, Apartments Single-Family Dwellings ........ (916) 445-9471
Permanent Structures in Mobilehome and Special Occupancy Parks .... (916) 445-0481
Factory-Built Housing, Manufactured Housing and Commercial Modular .... (916) 445-3338
Mobile Homes—Permits & Inspections
Northern Region ................ (916) 255-2501
Southern Region ................ (951) 782-4420
Employee Housing Standards .......... (916) 445-9471

Department of Water Resources
Gray Water Installations Standards .... (916) 651-9667

Division of the State Architect—Access Compliance
Access Compliance Standards ........ (916) 445-8100

Division of the State Architect—Structural Safety
Public Schools Standards .......... (916) 445-8100
Essential Services Building Standards .... (916) 445-8100

Division of the State Architect—State Historical Building Safety Board
Alternative Building Standards ........ (916) 445-8100

Office of Statewide Health Planning and Development
Hospital Standards ........ (916) 440-8409
Skilled Nursing Facility Standards .... (916) 440-8409
Clinic Standards ................ (916) 440-8409

Office of the State Fire Marshal
Code Development and Analysis .... (916) 445-8200
Fire Safety Standards ........ (916) 445-8200
Fireplace Standards ........ (916) 445-8200
Day Care Centers Standards .......... (916) 445-8200
Exit Standards ................ (916) 445-8200
HOW TO DETERMINE WHERE CHANGES HAVE BEEN MADE

Symbols in the margins indicate where changes have been made or language has been deleted.

This symbol indicates that a change has been made.

This symbol indicates deletion of language.
SECTION 8-810
HOLLOW CLAY TILE
The historical performance of hollow clay tile in past earthquakes shall be carefully considered in evaluating walls of hollow clay tile construction. Hollow clay tile bearing walls shall be evaluated and strengthened as appropriate for lateral loads and their ability to maintain support of gravity loads. Suitable protective measures shall be provided to prevent blockage of exit stairways, stairway enclosures, exit ways and public ways as a result of an earthquake.

SECTION 8-811
VENEERS
8-811.1 Terra cotta and stone. Terra cotta, cast stone and natural stone veneers shall be investigated for the presence of suitable anchorage. Steel anchors shall be investigated for deterioration or corrosion. New or supplemental anchorage shall be provided as appropriate.

8-811.2 Anchorage. Brick veneer with mechanical anchorage at spacings greater than required by the regular code may remain, provided the anchorages have not corroded. Nail strength in withdrawal in wood sheathing may be utilized to its capacity in accordance with code values.

SECTION 8-812
GLASS AND GLAZING
8-812.1 Glazing subject to human impact. Historical glazing material located in areas subject to human impact may be approved subject to the concurrence of the enforcing agency when alternative protective measures are provided. These measures may include, but not be limited to, additional glazing panels, protective film, protective guards or systems, and devices or signs which would provide adequate public safety.

8-812.2 Glazing in fire-rated systems. See Section 8-402.3.

### TABLE 8-8A
ALLOWABLE VALUES FOR EXISTING MATERIALS

<table>
<thead>
<tr>
<th>EXISTING MATERIALS OR CONFIGURATIONS OF MATERIALS</th>
<th>ALLOWABLE VALUES x14.594 for N/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Horizontal diaphragms^2</td>
<td></td>
</tr>
<tr>
<td>1.1 Roofs with straight sheathing and roofing applied directly to the sheathing</td>
<td>100 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>1.2 Roofs with diagonal sheathing and roofing applied directly to the sheathing</td>
<td>250 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>1.3 Floors with straight tongue-and-groove sheathing</td>
<td>100 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>1.4 Floors with straight sheathing and finished wood flooring with board edges offset or perpendicular</td>
<td>500 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>1.5 Floors with diagonal sheathing and finished</td>
<td>600 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>2. Crosswalls^2,3</td>
<td></td>
</tr>
<tr>
<td>2.1 Plaster on wood or metal lath</td>
<td>Per side: 200 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>2.2 Plaster on gypsum lath</td>
<td>175 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>2.3 Gypsum wallboard, unblocked edges</td>
<td>75 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>2.4 Gypsum wallboard, blocked edges</td>
<td>125 lbs per foot for seismic shear</td>
</tr>
<tr>
<td>Existing footings, wood framing, structural steel and reinforced steel</td>
<td></td>
</tr>
<tr>
<td>3.1 Plain concrete footings</td>
<td>( f'_{c} = 1,500 ) psi (10.34 MPa) unless otherwise shown by tests^4</td>
</tr>
<tr>
<td>3.2 Douglas fir wood</td>
<td>Allowable stress same as D.F. No. 1^4</td>
</tr>
<tr>
<td>3.3 Reinforcing steel</td>
<td>( f_{c} = 18,000 ) lbs per square inch (124.1 N/mm^2) maximum</td>
</tr>
<tr>
<td>3.4 Structural steel</td>
<td>( f_{c} = 200.00 ) lbs per square inch (137.9 N/mm^2) maximum</td>
</tr>
</tbody>
</table>

^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

<table>
<thead>
<tr>
<th>NEW MATERIALS OR CONFIGURATIONS OF MATERIALS</th>
<th>ALLOWABLE VALUES¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Horizontal diaphragms²</td>
<td></td>
</tr>
<tr>
<td>1.1 Plywood sheathing nailed directly over existing straight sheathing with ends of plywood sheets bearing on joists or rafters and edges of plywood located on center of individual sheathing boards</td>
<td>225 lbs per foot (3283 N/m)</td>
</tr>
<tr>
<td>1.2 Plywood sheathing nailed directly over existing diagonal sheathing with ends of plywood sheets bearing on joists or rafters</td>
<td>375 lbs per foot (5473 N/m)</td>
</tr>
<tr>
<td>1.3 Plywood sheathing nailed directly over existing straight or diagonal sheathing with ends of plywood 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 17/8 inch (41 mm)</td>
<td>75 percent of the values specified in the regular code</td>
</tr>
<tr>
<td>2. Shear walls: (general procedure)</td>
<td></td>
</tr>
<tr>
<td>Plywood sheathing applied directly over wood studs. No value shall be given to plywood applied over existing plaster or wood sheathing</td>
<td>100 percent of the value specified in the regular code for shear walls</td>
</tr>
<tr>
<td>3. Crosswalls: (special procedure only)</td>
<td></td>
</tr>
<tr>
<td>3.1 Plywood sheathing applied directly over wood studs. No value shall be given to plywood applied over existing plaster or wood sheathing</td>
<td>133 percent of the value specified in the regular code for shear walls</td>
</tr>
<tr>
<td>3.2 Drywall or plaster applied directly over wood studs</td>
<td>100 percent of the values in the regular code</td>
</tr>
<tr>
<td>3.3 Drywall or plaster applied to sheathing over existing wood studs</td>
<td>The values specified in the regular code reduced as noted.³ (UBC Table 25-1, Footnote 1)</td>
</tr>
<tr>
<td>4. Tension bolts</td>
<td></td>
</tr>
<tr>
<td>4.1 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 area⁴⁵</td>
<td>1,800 lbs (8006 N) per bolt⁶</td>
</tr>
<tr>
<td>4.2 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 bolts⁴⁵⁷</td>
<td>900 lbs (4003 N) per bolt for two-wythe walls⁶</td>
</tr>
<tr>
<td>5. Shear bolts</td>
<td></td>
</tr>
<tr>
<td>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 4.2⁵⁷</td>
<td>¹/₂ inch (12.7 mm) diameter = 350 lbs (1557 N)⁶</td>
</tr>
<tr>
<td>5/8 inch (15.9 mm) diameter = 500 lbs (2224 N)⁶</td>
<td>³/₄ inch (19 mm) diameter = 750 lbs (3336 N)⁹</td>
</tr>
<tr>
<td>6. Infilled walls:</td>
<td></td>
</tr>
<tr>
<td>Reinforced masonry infilled openings in existing unreinforced masonry walls. Provide keys or dowels to match reinforcing.</td>
<td>Same as values specified for unreinforced masonry walls</td>
</tr>
<tr>
<td>7. Reinforced masonry</td>
<td></td>
</tr>
<tr>
<td>Masonry piers and walls reinforced per the regular code</td>
<td>Same as values specified in the regular code⁸</td>
</tr>
<tr>
<td>8. Reinforced concrete</td>
<td></td>
</tr>
<tr>
<td>Concrete footings, walls and piers reinforced as specified in the regular code and designed for tributary loads</td>
<td>Same values as specified in the regular code⁸</td>
</tr>
</tbody>
</table>

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 ¹/₂-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.
For prior history, see History Note Appendix to the *California Historical Building Code*, 2001 Triennial Edition, effective November 1, 2002.


2. Editorial correction to Chapter 8-8, Section 8-812, Tables 8-8A and 8-8B. Include missing tables in 2007 annual code adoption supplement.