

**EXPRESS TERMS  
FOR  
PROPOSED BUILDING STANDARDS  
OF THE  
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT  
REGARDING THE ADOPTION BY REFERENCE OF THE  
2012 EDITION OF THE INTERNATIONAL BUILDING CODE  
WITH PROPOSED AMENDMENTS INTO THE  
2013 CALIFORNIA BUILDING CODE  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2  
(HCD)**

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The Department of Housing and Community Development (HCD) proposes to adopt the 2012 edition of the International Building Code (IBC) for codification and effectiveness into the 2013 edition of the California Building Code (CBC) as presented on the following pages, including any necessary amendments. HCD further proposes to:

- Repeal the 2009 edition of the International Building Code;
  - Repeal the 2010 edition of the California Building Code, which includes amendments to the model code that are no longer necessary;
  - Repeal or amend building standards that are not addressed by a model code;
  - Relocate or codify existing adopted and necessary amendments to the model code into the format of the model code proposed for adoption, the action of which has no regulatory effect; and/or
  - Adopt new building standards that are not addressed by the model code proposed for adoption.
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**LEGEND FOR EXPRESS TERMS:**

1. **IBC language with new California amendments:** IBC language shown in normal Arial 9 point; California amendments to IBC text shown *underlined and in italics*.
  2. **Existing California amendments or code language being modified:** *All such language shown in italics, modified language is underlined or shown in ~~strikeout~~.*
  3. **Text not being modified:** All language not displayed in full is shown as “...” (i.e., ellipsis).
  4. **Repealed text:** All language shown in ~~strikeout~~.
  5. **Amended, adopted or repealed language after public hearing:** All such language appears in double underline or ~~double strikeout~~.
  6. **Notation:** Authority and Reference citations are provided at the end of each action.
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**NOTE OF EXPLANATION:**

For the **2012 Triennial Code Adoption Cycle**, the Express Terms are displayed as follows:

- PART 1 includes the California Amendments HCD proposes to bring forward from the 2010 California Building Code **with changes** as shown, and also identifies the model code standards from the 2012 International Building Code HCD proposes for adoption into the 2013 California Building Code.
- PART 2 displays the standards HCD proposes to bring forward from the 2010 California Building Code **without change**, except for nonsubstantive editorial corrections, for adoption into the 2013 California Building Code; the text is provided for context and the convenience of the code user.

## **SUMMARY OF REGULATORY ACTION**

### **\*\*PART 1\*\***

#### **HCD PROPOSES TO:**

- Adopt standards from the 2012 International Building Code into the 2013 California Building Code **without amendment.**
- Adopt standards from the 2012 International Building Code into the 2013 California Building Code **with amendment.**
- Bring forward existing California Amendments from the 2010 California Building Code for adoption into the 2013 California Building Code **with amendment.**
- Repeal 2010 California Amendments, which are **not** brought forward into the 2013 California Building Code.

### **\*\*PART 2\*\***

**NOTE:** *The language in Part 2 is brought forward from the previous code adoption cycle without change, except for nonsubstantive editorial corrections, and is displayed for context and for the convenience of code users.*

#### **HCD PROPOSES TO:**

- Bring forward existing California Amendments from the 2010 California Building Code for adoption into the 2013 California Building Code **without amendment,** except for editorial corrections.

**\*\*PART 1\*\***

**1. HCD proposes to bring forward existing California Amendments in Chapter 1, Division I, Section 1.1.1, from the 2010 California Building Code for adoption into the 2013 California Building Code with amendment as follows:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 1  
SCOPE AND ADMINISTRATION**

**DIVISION I  
CALIFORNIA ADMINISTRATION**

**SECTION 1.1  
GENERAL**

**1.1.1 Title.** These regulations shall be known as the California Building Code, may be cited as such and will be referred to herein as "this code." The California Building Code is Part 2 of twelve parts of the official compilation and publication of the adoption, amendment and repeal of building regulations to the California Code of Regulations, Title 24, also referred to as the California Building Standards Code. This part incorporates by adoption the ~~2009~~ 2012 International Building Code of the International Code Council with necessary California amendments.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**2. HCD proposes to adopt Chapter 1, Sections 105.2 "Building: 1 – 13" only, 107.1, 107.2.1, 107.2.4, 107.2.5, 110.3.1, 110.3.2, 110.3.3, 110.3.4, 110.3.5, 110.3.6, 110.3.8, 110.3.9 and 110.3.10, from the 2012 International Building Code into the 2013 California Building Code, Chapter 1, Division II without amendment:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**DIVISION II  
SCOPE AND ADMINISTRATION**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**3. HCD proposes to adopt Chapter 1, Division II, Sections 110.3.4.1 and 110.3.10.2 as follows:**

110.3.4 Frame inspection. ... (No change to text)

110.3.4.1 (HCD 1) Moisture content verification. Moisture content of framing members shall be verified in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.5.

110.3.10 Final inspection. ... (No change to text)

110.3.10.1 Flood hazard documentation. ... (No change to text)

110.3.10.2 (HCD 1) Operation and maintenance manual. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency shall be placed in the building in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.4.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**4. HCD proposes to adopt Chapter 2 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 2  
DEFINITIONS**

**SECTION 201  
GENERAL**

**201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in the *International Energy Conservation Code, International Fuel Gas Code, International California Fire Code, International California Mechanical Code* or *International California Plumbing Code*, such terms shall have the meanings ascribed to them as in those codes.

**SECTION 202  
DEFINITIONS**

**ACCESSIBILITY. (HCD 1-AC)** See Chapter 11A, Section 1107A.1-A, and ~~Chapter 11B, Section 1102B.~~

**ACCESSIBLE.** A site, building, facility or portion thereof that complies with Chapter 11. **(HCD 1-AC)** See Chapter 11A, Section 1107A.1-A, and ~~Chapter 11B, Section 1102B.~~

**APPROVED.** Acceptable to the building official or authority having jurisdiction.

*(HCD 1 & HCD 2) "Approved" means meeting the approval of the enforcing agency, except as otherwise provided by law, when used in connection with any system, material, type of construction, fixture or appliance as the result of investigations and tests conducted by the agency, or by reason of accepted principles or tests by national authorities or technical, health or scientific organizations or agencies.*

**Notes: (HCD 1 & HCD 2)**

1. See Health and Safety Code Section 17920 for "Approved" as applied to residential construction and buildings or structures accessory thereto, as referenced in Section 1.8.2.1.1.
2. See Health and Safety Code Section 17921.1 for "Approved" as applied to the use of hotplates in residential construction referenced in Section 1.8.2.1.1.
- ~~3. See Health and Safety Code Section 17921.3 for "Approved" as applied to low flush water closets in residential construction, as referenced in Section 1.8.2.1.1.~~
- ~~4.3.~~ See Health and Safety Code Section 19966 for "Approved" as applied to factory-built housing as referenced in Section 1.8.3.2.5.
- ~~5.4.~~ See Health and Safety Code Section 18201 for "Approved" as applied to mobilehome parks as referenced in Section 1.8.2.1.3.
- ~~6.5.~~ See Health and Safety Code Section 18862.1 for "Approved" as applied to special occupancy parks as referenced in Section 1.8.2.1.3.

**AUTOMATIC DOOR. (HCD 1-AC)** See Chapter 11A, Section 1107.A.1-A, and Chapter 11B, Section 1102B.

**CELLULAR CONCRETE. (HCD 1 & HCD 2)** A lightweight product consisting of portland cement and selected gas-forming chemicals or foaming agents which create homogeneous voids in the hardened concrete.

**CONCRETE**

. . . (No change to text)

**Cellular.** A lightweight insulating concrete made by mixing a preformed foam with Portland cement slurry and having a dry unit weight of approximately 30 pcf (480 kg/m<sup>3</sup>). **See CELLULAR CONCRETE.**

**CIRCULATION PATH.** An exterior or interior way of passage from one place to another for pedestrians. ~~(DSA-AC & HCD 1-AC). See Chapter 11B, Section 1102B.~~

**COMMON USE AREAS. (HCD 1-AC)** See Chapter 11A, Section 1107A.3-C, and Chapter 11B, Section 1102B.

**CROSS SLOPE. (HCD 1-AC)** See Chapter 11A, Section 1107A.3-C, and Chapter 11B, Section 1102B.

**CURB CUT. (HCD 1-AC)** See Chapter 11A, Section 1107A.3-C, and Chapter 11B, Section 1102B.

**CURB RAMP. (HCD 1-AC)** See Chapter 11A, Section 1107A.3-C, and Chapter 11B, Section 1102B.

**DETACHED SINGLE-FAMILY DWELLING. (HCD 1 & HCD 2)** Any single-family dwelling which is separated (*detached*) from adjacent property lines by 3 feet (914 mm) or more or is separated from adjacent buildings by 6 feet (1829 mm) or more.

**DETECTABLE WARNING.** A standardized surface feature built in or applied to walking surfaces or other elements to warn visually impaired persons of hazards on a circulation path.

**(HCD 1-AC)** See Chapter 11A, Section 1107A.4-D, and Chapter 11B, Section 1102B.

**DWELLING UNIT.** A single unit providing complete, independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation.

**(HCD 1-AC)** See Chapter 11A, Section 1107A.4-D, and Chapter 11B, Section 1102B.

**EQUIVALENT FACILITATION. (HCD 1-AC)** See Chapter 11A, Section 1107A.5-E, and Chapter 11B, Section 1102B.

**FACILITY (OR FACILITIES). (HCD 1-AC)** See Chapter 11A, Section 1107A.6-F, and Chapter 11B, Section 1102B.

**GRAB BAR. (HCD 1-AC)** See Chapter 11A, Section 1107A.7-G, and Chapter 11B, Section 1102B.

~~**IMPACT INSULATION CLASS (IIC).** See Chapter 12, Section 1207.2.~~

**INTERNATIONAL SYMBOL OF ACCESSIBILITY. (HCD 1-AC)** See Chapter 11A, Section 1107A.9-I, and Chapter 11B, Section 1102B.

**KICK PLATE. (HCD 1-AC)** See Chapter 11A, Section 1107A.11-K, and Chapter 11B, Section 1102B.

**LEVEL AREA. (HCD 1-AC)** See Chapter 11A, Section 1107A.12-L, and Chapter 11B, Section 1102B.

**LIFT, PLATFORM (WHEELCHAIR). (HCD 1-AC)** See "Platform (Wheelchair) Lift" Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.

**MARKED CROSSING. (HCD1-AC)** See Chapter 11A, Section 1107A.13-M, and Chapter 11B, Section 1102B.

**NOSING (OR NOSE).** The leading edge of treads of stairs and of landings at the top of stairway flights. **(HCD 1-AC)** See Chapter 11A, Section 1107A.14-N, and Chapter 11B, Section 1102B.

**OPEN RISER. (HCD 1-AC)** See Chapter 11A, Section 1107A.15-O, and Chapter 11B, Section 1102B.

**PASSAGE DOOR. (HCD 1-AC)** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.

~~**PEDESTRIAN. (HCD 1-AC)** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.~~

~~**PEDESTRIAN RAMP. (HCD 1-AC)** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.~~

~~**PEDESTRIAN WAY. (HCD 1-AC)** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.~~

~~**PLATFORM (WHEELCHAIR) LIFT. (HCD1-AC)** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.~~

~~**PUBLIC ENTRANCE. (HCD 1-AC)** An entrance that is not a service entrance or a restricted entrance.~~

An entrance that is not a service entrance or a restricted entrance.

~~**PUBLIC-USE AREAS.** Interior or exterior rooms or spaces that are made available to the general public. **(HCD 1-AC)** See Chapter 11A, Section 1107A.16-P, and Chapter 11B, Section 1102B.~~

**PUBLICLY FUNDED. (HCD 1 & HCD-2 HCD 1-AC)** For the purpose of housing, all buildings, structures, sidewalks, curbs and related facilities constructed in the state and used or intended to be used as a public use area, as defined in Section 1107A.16-P, shall comply with the accessibility standards of Chapter 11B of this code when state, county or municipal funds, or funds of any political subdivision of the state are used.

**RAMP.** A walking surface that has a running slope steeper than one unit vertical in 20 units horizontal (5-percent slope)

~~**(HCD 1-AC)** See Chapter 11A, Section 1107A.18-R and Chapter 11B, Section 1102B.~~

~~**RESTRICTED ENTRANCE (HCD 1, HCD 2 & HCD 1-AC)** is an entrance that is made available for common use on a controlled basis, but is not public use, and that is not a service entrance.~~

An entrance that is made available for common use on a controlled basis, but not public use, and that is not a service entrance.

**RISER. (HCD 1-AC)** See Chapter 11A, Section 1107A.18-R, and Chapter 11B, Section 1102B.

**SANITARY FACILITY. (HCD 1 & HCD-2 HCD 1-AC)** Any single water closet, urinal, lavatory, bathtub or shower, or a combination thereof, together with the room or space in which they are housed.

**SERVICE ENTRANCE. (HCD 1-AC)** An entrance intended primarily for delivery of goods or services.  
An entrance intended primarily for delivery of goods or services.

**SHOPPING CENTER (OR SHOPPING MALL). (HCD 2)** See Chapter 11B, Section 1102B.

**SIDEWALK. (HCD 1-AC)** A surfaced pedestrian way contiguous to a street used by the public. (As differentiated from the definition of "Walk" in Chapter 11A, Section 1107A.23-W, and Chapter 11B, Section 1102B.)

**SITE. (DSA-AC, HCD 1 & HCD 2)** A parcel of land bounded by a property line or a designated portion of a public right-of-way.  
A parcel of land bounded by a lot line or a designated portion of a public right-of-way.

**SLEEPING ACCOMMODATIONS. (HCD 1-AC)** See Chapter 11A, Section 1107A.19-S, and Chapter 11B, Section 1102B.

**SOUND TRANSMISSION CLASS (STC). (HCD 1 & HCD 2)** See Chapter 12, Section 1207.2.

**TRANSIENT LODGING. (HCD 1-AC)** See Chapter 11A, Section 1107A.20-T, and Chapter 11B, Section 1102B.

**TREAD. (HCD 1-AC)** See Chapter 11A, Section 1107A.20-T, and Chapter 11B, Section 1102B.  
Horizontal member to a step.

**WALK. (HCD 1-AC)** See Chapter 11A, Section 1107A.23-W, and Chapter 11B, Section 1102B.

**WHEELCHAIR SPACE. (HCD 1-AC)** Space for a single wheelchair and its occupant.

**WHEELCHAIR SPACE.** Space for a single wheelchair and its occupant.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**5. HCD proposes to proposes to adopt Chapter 3, except Section 308.2, from the 2012 International Building Code into the 2013 California Building Code without amendment:**

**NOTE:** See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.

**CHAPTER 3  
USE AND OCCUPANCY CLASSIFICATION**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and

19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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## **6. HCD proposes to adopt Chapter 4 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**NOTE:** See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.

### **CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY**

#### **SECTION 406 MOTOR-VEHICLE-RELATED OCCUPANCIES**

**406.3.4 Separation.** Separations shall comply with the following:

1. The private garage shall be separated from the dwelling unit and its attic area by means of gypsum board, not less than 1/2 inch (12.7 mm) in thickness, applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than a 5/8-inch (15.9 mm) Type X gypsum board or equivalent and 1/2-inch (12.7 mm) gypsum board applied to structures supporting the separation from habitable rooms above the garage. Door openings between a private garage and the dwelling unit shall be equipped with either solid wood doors or solid or honeycomb core steel doors not less than 13/8 inches (34.9 mm) in thickness, or doors in compliance with Section 716.5.3 with a fire protection rating of not less than 20 minutes. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Doors shall be self-closing and self-latching.

2. Ducts in a private garage and ducts penetrating the walls or ceilings separating the dwelling unit, including its attic area, from the garage shall be constructed of sheet steel of not less than 0.019 inches (0.48 mm), in thickness, and shall have no openings into the garage.

*(HCD 1) Ducts shall be permitted to be constructed of any approved material when the duct penetrations through the walls or ceilings separating the dwelling unit, including its attic area, from the garage, are protected by fire dampers installed in accordance with Section 717 of this code.*

3. A separation is not required between a Group R-3 and U carport, provided the carport is entirely open on two or more sides and there are not enclosed areas above.

**406.4.1 (Formerly 406.2.2) Clear height.** The clear height of each floor level in vehicle and pedestrian traffic areas shall not be less than 7 feet (2134 mm). ~~Vehicle and pedestrian areas accommodating van accessible parking shall comply with Section 1106.5.~~ **(HCD 1-AC)** *The clear height of vehicle and pedestrian areas required to be accessible shall comply with Chapter 11A or Chapter 11B, as applicable.*

#### **SECTION 419 LIVE/WORK UNITS**

**419.7 Accessibility.** Accessibility shall be designed in accordance with ~~Chapters 11A and/or 11B, when applicable~~ Chapter 11A for the function served.

**419.9 Plumbing facilities.** The nonresidential area of the live/work unit shall be provided with minimum plumbing facilities as specified by ~~Chapter 29~~ the California Plumbing Code, based on the function of the nonresidential area. Where the nonresidential area of the live/work unit is required to be accessible by ~~Section 1103.2.13~~, the plumbing fixtures specified by ~~Chapter 29~~ the California Plumbing Code shall be accessible.

**SECTION 420**  
**GROUPS I-1, R-1, R-2, R-3**

**420.7 (HCD 1) Construction waste management.** *Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction and demolition waste in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.4.*

**420.7.1 Excavated soil and land clearing debris.** *100 percent of trees, stumps, rocks and associated soils resulting primarily from land clearing shall be recycled, salvaged or reused in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.4.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**7. HCD proposes to adopt Chapter 5 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

**NOTE:** *See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 5**  
**GENERAL BUILDING HEIGHTS AND AREAS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**8. HCD proposes to adopt Chapter 6 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**NOTE:** See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.

**CHAPTER 6  
TYPES OF CONSTRUCTION**

**SECTION 602  
CONSTRUCTION CLASSIFICATION**

**TABLE 602  
FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE<sup>a, e</sup>**

FIRE SEPARATION DISTANCE = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP H <sup>f</sup>	OCCUPANCY GROUP F-1, M, S-1 <sup>g</sup>	OCCUPANCY GROUP A, B, E, F-2, I, R <sup>h</sup> , S-2 <sup>g</sup> , U <sup>b, h</sup>
X < 5 <sup>c</sup>	All	3	2	1
5 ≤ X < 10	IA	3	2	1
	Others	2	1	1
10 ≤ X < 30	IA, IB	2	1	1 <sup>d</sup>
	IIB, VB	1	0	0
	Others	1	1	1 <sup>d</sup>
X ≥ 30	All	0	0	0

For SI: 1 foot = 304.8 mm.

- a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
- b. For special requirements for Group U occupancies, see Section 406.3.
- c. See Section 706.1.1 for party walls.
- d. Open parking garages complying with Section 406 shall not be required to have a fire-resistance rating.
- e. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located.
- f. For special requirements for Group H occupancies, see Section 415.5.
- g. For special requirements for Group S aircraft hangars, see Section 412.4.1.
- h. Where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the required fire-resistance rating for the exterior walls is 0 hours.
- h. Group R-3 and Group U, when used as accessory to Group R-3, shall not be required to have a fire-resistance rating where the fire separation distance is 3 feet or more.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**9. HCD proposes to adopt Chapter 7 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 7  
FIRE AND SMOKE PROTECTION FEATURES**

**NOTE**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**10. HCD proposes to adopt Chapter 8 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

**CHAPTER 8  
INTERIOR FINISHES**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**11. HCD proposes to adopt Chapter 9, except Section 908.7, from the 2012 International Building Code, into the 2013 California Building Code with amendment as follows:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 9  
FIRE PROTECTION SYSTEMS**

**SECTION 908  
EMERGENCY ALARM SYSTEMS**

**908.7 Carbon monoxide alarms.** *(See Section 420.6)* Group I or R occupancies located in a building containing a fuel burning appliance or in a building which has an attached garage shall be equipped with single station carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage ventilated in accordance with Section 404 of the *International Mechanical Code* shall not be considered an attached garage.

**Exception:** ~~Sleeping units or dwelling units which do not themselves contain a fuel burning appliance or have an attached garage, but which are located in a building with a fuel burning appliance or an attached garage, need not be equipped with single station carbon monoxide alarms provided that:~~

- ~~1. The sleeping unit or dwelling unit is located more than one story above or below any story which contains a fuel burning appliance or an attached garage;~~
- ~~2. The sleeping unit or dwelling unit is not connected by duct work or ventilation shafts to any room containing a fuel burning appliance or to an attached garage; and~~
- ~~3. The building is equipped with a common area carbon monoxide alarm system.~~

~~**908.7.1 Carbon monoxide detection systems.** Carbon monoxide detection systems, which include carbon monoxide detectors and audible notification appliances, installed and maintained in accordance with this section for carbon monoxide alarms and NFPA 720 shall be permitted. The carbon monoxide detectors shall be listed as complying with UL 2075.~~

## SECTION 909 SMOKE CONTROL SYSTEMS

**909.13.1 Materials.** Control-air tubing shall be hard drawn copper, Type L, ACR in accordance with ASTM B 42, ASTM B 43, ASTM B 68, ASTM B 88, ASTM B 251 and ASTM B 280. Fittings shall be wrought copper or brass, solder type in accordance with ASME B 16.18 or ASME B16.22. Changes in direction shall be made with appropriate tool bends. Brass compression-type fittings shall be used at final connection to devices; other joints shall be brazed using a BCuP-5 brazing alloy with solidus above 1,100°F (593°C) and liquids below 1,500°F (816°C). Brazing flux shall be used on copper-to-brass joints only.

**Exception:** Nonmetallic tubing used within control panels and at the final connection to devices provided all of the following conditions are met:

1. Tubing shall comply with the requirements of ~~Section 602.2.1.3~~ Chapter 6 of the ~~International~~ California Mechanical Code.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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## **12. HCD proposes to adopt Chapter 10 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**NOTE:** See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.

### CHAPTER 10 MEANS OF EGRESS

#### SECTION 1003 GENERAL MEANS OF EGRESS

**1003.1 Applicability.** The general requirements specified in Sections 1003 through 1013 shall apply to all three elements of the means of egress system, in addition to those specific requirements for the exit access, the exit and the exit discharge detailed elsewhere in this chapter.

**(HCD 1-AC)** In addition to the requirement of this chapter, means of egress, which provide access to, or egress from, buildings or facilities where accessibility is required for applications listed in Section 1.8.2.1.2 regulated by

*the Department of Housing and Community Development, or Section 1.9.1 regulated by the Division of the State Architect Access Compliance, shall also comply with Chapter 11A or Chapter 11B, as applicable.*

**1003.2 Ceiling height.** The means of egress shall have a ceiling height of not less than 7 feet 6 inches (2286 mm).

**Exceptions:**

1. Sloped ceilings in accordance with Section 1208.2.

... (No change to text)

7. The clear height of floor levels in vehicular and pedestrian traffic areas in parking garages in accordance with Section 406.2.2.

*(HCD 1-AC) The clear height of vehicle and pedestrian areas required to be accessible, or identified as accessible, shall comply with Chapter 11A or Chapter 11B, as applicable.*

8. Areas above and below mezzanine floors in accordance with Section 505.1.

... (No change to text)

**1003.3 Protruding objects.** ... (No change to text)

**1003.3.4 Clear width.** Protruding objects shall not reduce the minimum clear width of accessible routes as required in Chapter 11A or Chapter 11B, Section 1133B.8.6.

**1003.5 Elevation change.** Where changes in elevation of less than 12 inches (305 mm) exist in the means of egress, sloped surfaces shall be used. Where the slope is greater than one unit vertical in 20 units horizontal (5 percent slope), ramps complying with Section 1010 shall be used. Where the difference in elevation is 6 inches (152 mm) or less, the ramp shall be equipped with either handrails or floor finish materials that contrast with adjacent floor finish materials.

**Exceptions:**

1. A single step with a maximum riser height of 7 inches (178 mm) is permitted for buildings with occupancies in Groups F, H, R-2, R-3, S and U at exterior doors not required to be accessible by Chapter 11A or 11B.

2. A stair with a single riser or with two risers and a tread is permitted at locations not required to be accessible by Chapter 11A or 11B, provided that the risers and treads comply with Section 1009.7, the minimum depth of the tread is 13 inches (330 mm) and at least one handrail complying with Section 1012 is provided within 30 inches (762 mm) of the centerline of the normal path of egress travel on the stair.

3. A step is permitted in aisles serving seating that has a difference in elevation less than 12 inches (305 mm) at locations not required to be accessible by Chapter 11A or 11B, provided that the risers and treads comply with Section 1028.11 and the aisle is provided with a handrail complying with Section 1028.13.

Throughout a story in a Group I-2 occupancy, any change in elevation in portions of the means of egress that serve nonambulatory persons shall be by means of a ramp or sloped walkway.

## SECTION 1007 ACCESSIBLE MEANS OF EGRESS

**1007.1 Accessible means of egress required.** Accessible means of egress shall comply with this section. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress are required by Section 1015.1 or 1021.1 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress *in at least the same number as required by Section 1015.1 or 1021.1. In addition to the requirements of this chapter, means of egress, which provide access to, or egress from, buildings for persons with disabilities, shall also comply with the requirements of Chapter 11A or 11B as applicable.*

**Exceptions:**

1. Accessible means of egress are not required in alterations to existing buildings.

2. One accessible means of egress is required from an accessible mezzanine level in accordance with Section 1007.3, 1007.4 or 1007.5, ~~and Chapter 11A or 11B, as applicable.~~
3. In assembly areas with sloped or stepped aisles, one accessible means of egress is permitted where the common path of travel is accessible and meets the requirements in Section 1028.8, ~~and Chapter 11A or Chapter 11B, as applicable.~~

**1007.2 Continuity and components.** Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components:

1. Accessible routes complying with ~~Section 1104 Chapter 11A, Sections 1110A.1 and 1120A, or Chapter 11B, Section 1114B.1.2, as applicable.~~
2. Interior exit stairways complying with Sections 1007.3 and 1022, ~~and Chapter 11A, Section 1123A, or Chapter 11B, Section 1133B.4, as applicable.~~
3. Interior exit access stairways complying with Sections 1007.3 and 1009.3, ~~and Chapter 11A, Section 1123A.~~
4. Exterior exit stairways complying with Sections 1007.3 and 1026, ~~and Chapter 11A, Section 1115A, or Chapter 11B, Section 1133B.4, as applicable;~~ and serving levels other than the level of exit discharge.
5. Elevators complying with Section 1007.4, ~~and Chapter 11A, Section 1124A, or Chapter 11B, Section 1116B.1, as applicable.~~
6. Platform lifts complying with Section 1007.5 ~~and Chapter 11A, Section 1124A, or Chapter 11B, Section 1116B.2 as applicable.~~
7. Horizontal exits complying with Section 1025.
8. ~~Ramps~~ complying with Section 1010, ~~and Chapter 11A, Sections 1114A and 1122A, or Chapter 11B, Section 1133B.5, as applicable.~~
9. Areas of refuge complying with Section 1007.6.
10. Exterior area for assisted rescue complying with Section 1007.7.

**1007.3 Stairways.** In order to be considered part of an accessible means of egress, a stairway between stories shall have a clear width of 48 inches (1219 mm) minimum between handrails and shall either incorporate an area of refuge within an enlarged floor-level landing or shall be accessed from either an area of refuge complying with Section 1007.6 or a horizontal exit. Exit access stairways that connect levels in the same story are not permitted as part an accessible means of egress.

~~(DSA-AC HCD 1-AC)~~ *In addition, exit stairways shall comply with Chapter 11A, Sections 1115A and 1123A, or Chapter 11B, Section 1133B.4, as applicable.*

**1007.5 Platform lifts.** Platform (wheelchair) lifts shall not serve as part of an accessible means of egress, except where allowed as part of a required accessible route in ~~Section 1109.7, Items 1 through 9 Chapter 11A, Sections 1121A and 1124A.11, or Chapter 11B, Section 1116B.2 Items 1 through 4, as applicable.~~ Standby power shall be provided in accordance with Chapter 27 for platform lifts permitted to serve as part of a means of egress.

**1007.9 Signage.** Signage indicating special accessibility provisions shall be provided as shown:

1. Each door providing access to an area of refuge from an adjacent floor area shall be identified by a sign stating: AREA OF REFUGE.
2. Each door providing access to an exterior area for assisted rescue shall be identified by a sign stating: EXTERIOR AREA FOR ASSISTED RESCUE.

Signage shall comply with ~~the ICC A117.1 Section 1117B.5.1, Items 2 and 3, Chapter 11A, Section 1143A~~ requirements for visual characters and include the International Symbol of Accessibility. Where exit sign

illumination is required by Section 1011.2, the signs shall be illuminated. Additionally, raised character and Braille signage complying with ~~ICC A117.1, Section 1117B.5.1, Item 1, Chapter 11A, Section 1143A, and the International Symbol of Accessibility~~ shall be located at each door to an area of refuge and exterior area for assisted rescue in accordance with Section 1011.4.

## SECTION 1008 DOORS, GATES AND TURNSTILES

**1008.1.1 Size of doors.** The minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a clear width of 32 inches (813 mm). Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees (1.57 rad). Where this section requires a minimum clear width of 32 inches (813 mm) and a door opening includes two door leaves without a mullion, one leaf shall provide a clear opening width of 32 inches (813 mm). The maximum width of a swinging door leaf shall be 48 inches (1219 mm) nominal. Means of egress doors in a Group I-2 occupancy used for the movement of beds shall provide a clear width not less than 41 1/2 inches (1054 mm). The height of door openings shall not be less than 80 inches (2032 mm).

### Exceptions:

1. The minimum and maximum width shall not apply to door openings that are not part of the required means of egress in Group R-2 and R-3 occupancies.

... (No change to text)

5. Door openings within a dwelling unit or sleeping unit shall not be less than 78 inches (1981 mm) in height.

6. Exterior door openings in dwelling units and sleeping units, other than the required *exit* door, shall not be less than 76 inches (1930 mm) in height.

7. In other than Group R-1 occupancies, the minimum widths shall not apply to interior egress doors within a dwelling unit or sleeping unit that is not required to be an Accessible unit, Type A unit or Type B unit *adaptable or accessible as specified in Chapter 11A or 11B, as applicable*.

~~8. Door openings required to be accessible within Type B units shall have a minimum clear width of 31.75 inches (806 mm).~~

**1008.1.4.1 Revolving doors.** Revolving doors shall comply with the following:

1. Each revolving door shall be capable of collapsing into a bookfold position with parallel egress paths providing an aggregate width of 36 inches (914 mm).

... (No change to text)

5. Revolving doors shall not be part of an accessible route required by Section 1007 and ~~Chapter 11~~ *Chapter 11A or 11B*.

**1008.1.7 Thresholds.** Thresholds at doorways shall not exceed 3/4 inch (19.1 mm) in height above the finished floor or landing for sliding doors serving dwelling units or 1/2 inch (12.7 mm) above the finished floor or landing for other doors. Raised thresholds and floor level changes greater than 1/4 inch (6.4 mm) at doorways shall be beveled with a slope not greater than one unit vertical in two units horizontal (50-percent slope).

**Exception:** In occupancy Group R-2 or R-3, threshold heights for sliding and side-hinged exterior doors shall be permitted to be up to 7 3/4 inches (197 mm) in height if all of the following apply:

1. The door is not part of the required means of egress.
2. The door is not part of an accessible route as required by Chapter 11A ~~or 11B~~.
3. The door is not part of an Accessible unit, Type A unit or Type B unit *adaptable or accessible dwelling unit*.

**1008.1.9.1 Hardware.** Door handles, pulls, latches, locks and other operating devices on doors required to be accessible by Chapter 11A ~~or 11B~~ shall not require tight grasping, tight pinching or twisting of the wrist to operate.

## SECTION 1009 STAIRWAYS

**1009.7.2 Riser height and tread depth.** Stair riser heights shall be 7 inches (178 mm) maximum and 4 inches (102 mm) minimum. The riser height shall be measured vertically between the nosings of adjacent treads. Rectangular tread depths shall be 11 inches (279 mm) minimum measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's nosing. Winder treads shall have a minimum tread depth of 11 inches (279 mm) between the vertical planes of the foremost projection of adjacent treads at the intersections with the walkline and a minimum tread depth of 10 inches (254 mm) within the clear width of the stair.

### Exceptions:

1. Alternating tread devices in accordance with Section 1009.13.

. . . (No change to text)

6. See Section 3404.1 for the replacement of existing stairways. ~~(HCD 1) See Chapter 34, Section 3401.4.3 for additions, alterations, or repairs to existing buildings.~~

## SECTION 1010 RAMPS

**1010.1 Scope.** The provisions of this section shall apply to ramps used as a component of a means of egress.

### Exceptions:

1. Other than ramps that are part of the accessible routes providing access in accordance with Sections 4408.2 through 4408.2.4 and 4408.2.6 Chapter 11A or 11B, ramped aisles within assembly rooms or spaces shall conform with the provisions in Section 1028.11.

2. Curb ramps shall comply with ~~ICC A117.4 Chapter 11A or 11B, Section 1127B.5, as applicable.~~

**1010.7.5 Doorways.** Where doorways are located adjacent to a ramp landing, maneuvering clearances required by ~~ICC A117.4 for accessibility~~ are permitted to overlap the required landing area as specified in Chapter 11A or 11B, Section 1133B.5.

**1010.10 Edge protection.** Edge protection complying with Section 1010.10.1 or 1010.10.2 shall be provided on each side of ramp runs and at each side of ramp landings.

### Exceptions:

1. Edge protection is not required on ramps that are not required to have handrails, provided they have flared sides that comply with ~~the ICC A117.4 curb ramp provisions Chapter 11A or 11B, Section 1127B.5.~~

2. Edge protection is not required on the sides of ramp landings serving an adjoining ramp run or stairway.

3. Edge protection is not required on the sides of ramp landings having a vertical drop off of not more than 1/2 inch (12.7 mm) within 10 inches (254 mm) horizontally of the required landing area.

4. In assembly spaces with fixed seating, edge protection is not required on the sides of ramps where the ramps provide access to the adjacent seating and aisle accessways.

## SECTION 1011 EXIT SIGNS

**1011.4 Raised character and Braille exit signs.** A sign stating EXIT in raised characters and Braille and complying with ~~ICC A117.4 Chapter 11A, Section 1143A~~ shall be provided adjacent to each door to an area of refuge, an exterior area for assisted rescue, an exit stairway, an exit ramp, an exit passageway and the exit discharge.

## SECTION 1013 GUARDS

**1013.2 Height.** Required guards shall not be less than 42 inches (1067 mm) high, measured vertically as follows:

1. From the adjacent walking surfaces.
2. On stairs, from the line connecting the leading edges of the tread nosings; and
3. On ramps, from the ramp surface at the guard.

### Exceptions:

~~1. For occupancies in Group R-3 not more than three stories above grade in height and within individual dwelling units in occupancies in Group R-2 not more than three stories above grade in height with separate means of egress, required guards shall be not less than 36 inches (914 mm) in height measured vertically above the adjacent walking surfaces or adjacent fixed seating.~~

~~2. 1.~~ For occupancies in Group R-3, and within individual dwelling units in occupancies in Group R-2, guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.

~~3. 2.~~ For occupancies in Group R-3, and within individual dwelling units in occupancies in Group R-2, where the top of the guard also serves as a handrail on the open sides of stairs, the top of the guard shall not be less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

4. 3. The guard height in assembly seating areas shall comply with Section 1028.14.

~~5. 4.~~ Along alternating tread devices and ship ladders, guards whose top rail also serves as a handrail shall have height not less than 30 inches (762 mm) and not more than 34 inches (864 mm), measured vertically from the leading edges of the device tread nosing.

## SECTION 1022 INTERIOR EXIT STAIRWAYS AND RAMPS

**1022.9 Stairway identification signs.** A sign shall be provided at each floor landing in an interior exit stairway and ramp connecting more than three stories designating the floor level, the terminus of the top and bottom of the interior exit stairway and ramp and the identification of the stair or ramp. The signage shall also state the story of, and the direction to, the exit discharge and the availability of roof access from the interior exit stairway and ramp for the fire department. The sign shall be located 5 feet (1524 mm) above the floor landing in a position that is readily visible when the doors are in the open and closed positions. In addition to the stairway identification sign, a floor-level sign in raised characters and Braille complying with ~~ICC A117.4~~ Chapter 11A, Section 1143A shall be located at each floor-level landing adjacent to the door leading from the interior exit stairway and ramp into the corridor to identify the floor level.

### NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

### **13.HCD proposes NOT to adopt Chapter 11 from the 2012 International Building Code.**

#### **CHAPTER 11 ACCESSIBILITY**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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### **14.HCD proposes to adopt Chapter 12 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

#### **CHAPTER 12 INTERIOR ENVIRONMENT**

##### **SECTION 1203 VENTILATION**

**1203.1 General.** Buildings shall be provided with natural ventilation in accordance with Section 1203.4, or mechanical ventilation in accordance with the ~~International~~ *California Mechanical Code*.

~~Where the air infiltration rate in a *dwelling unit* is less than 5 air changes per hour when tested with a blower door at a pressure 0.2 inch w.c. (50 Pa) in accordance with Section 402.4.1.2 of the *International Energy Conservation Code*, the *dwelling unit* shall be ventilated by mechanical means in accordance with Section 403 of the *International Mechanical Code*.~~

**1203.2 Attic spaces.** Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof framing members shall have cross ventilation for each separate space by ventilation openings protected against the entrance of rain and snow. Blocking and bridging shall be arranged so as not to interfere with the movement of air. An airspace of not less than 1 inch (25 mm) shall be provided between the insulation and the roof sheathing. The net free ventilating area shall not be less than 1/150<sup>th</sup> of the area of the space ventilated.

**Exceptions:**

1. **(Not adopted by HCD)** The net free cross-ventilation area shall be permitted to be reduced to 1/300 provided that not less than 50 percent and not more than 80 percent of the required ventilating area provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above eave of cornice vents with the balance of the required ventilation provided by eave or cornice vents.

2. **(Not adopted by HCD)** The net free cross-ventilation area shall be permitted to be reduced to 1/300 provided where a Class I or II vapor barrier is installed on the warm-in-winter side of the ceiling.

3. Attic ventilation shall not be required when determined not necessary by the building official due to atmospheric or climatic conditions.

4. **(HCD 1 & HCD 2)** The net cross-ventilation area shall be permitted to be reduced to 1/300 provided that at least 40 percent and not more than 50 percent of the required ventilating area is provided by ventilators located in the upper portion of the attic or rafter space. Upper ventilators shall be located no more than

3 feet (914 mm) below the ridge or highest point of the space, measured vertically, with the balance of the required ventilation provided by eave or cornice vents. Where the location of wall or roof framing members conflicts with the installation of upper ventilators, installation more than 3 feet (914 mm) below the ridge or highest point of the space shall be permitted.

5. (HCD 1 & HCD 2) The net cross-ventilation area shall be permitted to be reduced to 1/300 in Climate Zones 14 and 16, where a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.

**1203.2.1 Openings into attic.** Exterior openings into the attic space of any building intended for human occupancy shall be protected to prevent the entry of birds, squirrels, rodents, snakes and other similar creatures. Openings for ventilation having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum shall be permitted. Openings for ventilation having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, perforated vinyl or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Where combustion air is obtained from an attic area, it shall be in accordance with Chapter 7 of the ~~International~~ California Mechanical Code.

**1203.2.1.1 (HCD 1) Openings for whole house exhaust fan.** Whole house exhaust fans shall have insulated louvers or covers which close when the fan is off. Covers or louvers shall have a minimum insulation value of R-4.2 in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.5.

**1203.4.2.1 Bathrooms.** Rooms containing bathtubs, showers, spas and similar bathing fixtures shall be mechanically ventilated in accordance with the ~~International~~ California Mechanical Code.

~~The minimum ventilation or exhaust rate shall not be less than that established by Table 4-4 403.7 "Minimum Exhaust Rates."~~ See California Mechanical Code, Chapter 5, for additional provisions related to environmental air ducts.

**(HCD 1)** In addition to the requirements in this section and in the California Mechanical Code, bathrooms in Group R occupancies shall be mechanically ventilated in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.5.

## **SECTION 1207 (HCD 1 & HCD 2) SOUND TRANSMISSION**

~~**1207.1 Purpose and scope.** The purpose of this section is to establish uniform minimum noise insulation performance standards to protect persons within hotels, motels, dormitories, apartment houses and dwellings other than detached single-family dwellings from the effects of excessive noise, including, but not limited to, hearing loss or impairment and interference with speech and sleep. This section shall apply to all buildings for which applications for building permits were made subsequent to August 22, 1974.~~

~~**1207.2 Definitions.** The following special definitions shall apply to this section:~~

~~**SOUND TRANSMISSION CLASS (STC)** is a single-number rating used to compare walls, floor-ceiling assemblies and doors for their sound-insulating properties with respect to speech and small household-appliance noise. The STC is derived from laboratory measurements of sound transmission loss across a series of 16 test bands. Laboratory STC ratings should be used to the greatest extent possible in determining that the design complies with this section.~~

~~**FIELD SOUND TRANSMISSION CLASS (FSTC)** is a single-number rating similar to STC, except that the transmission loss values used to derive the FSTC are measured in the field. All sound transmitted from the source room to the receiving room is assumed to be through the separating wall or floor-ceiling assembly. This section does not require determination of the FSTC, and field-measured values of noise reduction should not be reported as transmission loss.~~

~~**IMPACT INSULATION CLASS (IIC)** is a single-number rating used to compare the effectiveness of floor-ceiling assemblies in providing reduction of impact-generated sounds such as footsteps. The IIC is derived from laboratory measurements of impact sound pressure level across a series of 16 test bands using a standardized~~

tapping machine. Laboratory IIC ratings should be used to the greatest extent possible in determining that the design complies with this section.

**FIELD IMPACT INSULATION CLASS (FIC)** is a single-number rating similar to the IIC, except that the impact sound pressure levels are measured in the field

**NOISE ISOLATION CLASS (NIC)** is a single-number rating derived from measured values of noise reduction between two enclosed spaces that are connected by one or more paths. The NIC is not adjusted or normalized to a standard reverberation time.

**NORMALIZED NOISE ISOLATION CLASS (NNIC)** is a single-number rating similar to the NIC, except that the measured noise reduction values are normalized to a reverberation time of one-half second.

**NORMALIZED A-WEIGHTED SOUND LEVEL DIFFERENCE (Dn)** means for a specified source room sound spectrum, Dn is the difference, in decibels, between the average sound levels produced in two rooms after adjustment to the expected acoustical conditions when the receiving room under test is normally furnished.

**DAY-NIGHT AVERAGE SOUND LEVEL (Ldn)** is the A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 db adjustment added to sound levels occurring during nighttime hours (10 p.m. to 7 a.m.).

**COMMUNITY NOISE EQUIVALENT LEVEL (CNEL)** is a metric similar to the Ldn, except that a 5 db adjustment is added to the equivalent continuous sound exposure level for evening hours (7 p.m. to 10 p.m.) in addition to the 10 db nighttime adjustment used in the Ldn.

**1207.2.1 Masonry.** The sound transmission class of concrete masonry and clay masonry assemblies shall be calculated in accordance with TMS 0302 or determined through testing in accordance with ASTM E 90.

**1207.3 Relevant standards.** The current edition of the following standards is generally applicable for determining compliance with this section. Copies may be obtained from the American Society for Testing and Materials (ASTM) at 100 Barr Harbor Drive, West Conshohocken, PA, 19428-2959.

ASTM C 634, Standard Definitions Terminology of Terms Relating to Building and Environmental Acoustics.

ASTM E 90, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

ASTM E 336, Standard Test Method for Measurement of Airborne Sound Insulation Attenuation Between Rooms in Buildings.

ASTM E 413, Standard Classification for Determination of Rating Sound Transmission Class Insulation.

ASTM E 492, Standard Test Method of for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine.

ASTM E 497, Standard Recommended Practice for Installation of Fixed Partitions of Light Frame Type for the Purpose of Conserving Their Sound Insulation Efficiency.

ASTM E 597, Recommended Practice for Determining A Single-Number Rating of Airborne Sound Isolation in Multi-unit Building Specifications.

ASTM E 966, Standard Guide for Field Measurements of Airborne Sound Insulation of Building Facades and Facade Elements.

ASTM E 989, Standard Classification for Determination of Impact Insulation Class (IIC).

ASTM E 1007, Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Support Structures.

ASTM E 1014, Standard Guide for Measurement of Outdoor A-Weighted Sound Levels.

**1207.4 Complaints.** Where a complaint as to noncompliance with this chapter requires a field test, the complainant shall post a bond or adequate funds in escrow for the cost of said testing. Such costs shall be chargeable to the complainant if the field tests show compliance with this chapter. If the tests show noncompliance, testing costs shall be borne to the owner or builder.

**1207.5 Local modification.** The governing body of any city or county or city and county may, by ordinance, adopt changes or modifications to the requirements of this section as set forth in Section 17922.7 of the Health and Safety Code.

#### **1207.6 Interdwelling sound transmission control.**

**1207.6.1 Wall and floor-ceiling assemblies.** Wall and floor-ceiling assemblies separating dwelling units or guest rooms from each other and from public or service areas such as interior corridors, garages and mechanical spaces shall provide airborne sound insulation for walls, and both airborne and impact sound insulation for floor-ceiling assemblies.

**Exception:** Impact sound insulation is not required for floor-ceiling assemblies over nonhabitable rooms or spaces not designed to be occupied, such as garages, mechanical rooms or storage areas.

**1207.7 Airborne sound insulation.** All such acoustically rated separating wall and floor-ceiling assemblies shall provide airborne sound insulation equal to that required to meet a sound transmission class (STC) rating of 50 based on laboratory tests as defined in ASTM E 90 and E 413. Field tested assemblies shall meet a noise isolation class (NIC) rating of 45 for occupied units and a normalized noise isolation class (NNIC) rating of 45 for unoccupied units as defined in ASTM E 336 and E 413.

ASTM E 597 may be used as simplified procedure for field tests of the airborne sound isolation between rooms in unoccupied buildings. In such tests, the minimum value of  $D_n$  is 45 db for compliance.

Entrance doors from interior corridors together with their perimeter seals shall have STC ratings not less than 26. Such tested doors shall operate normally with commercially available seals.

Solid core wood slab doors 1 3/8 inches (35 mm) thick minimum or 18 gauge insulated steel slab doors with compression seals all around, including the threshold, may be considered adequate without other substantiating information.

Field tests of corridor walls should not include segments with doors. If such tests are impractical, however, the NIC or NNIC rating for the composite wall-door assembly shall not be less than 30.

Penetrations or openings in construction assemblies for piping, electrical devices, recessed cabinets, bathtubs, soffits or heating, ventilating or exhaust ducts shall be sealed, lined, insulated or otherwise treated to maintain the required ratings.

**1207.8 Impact sound insulation.** All acoustically rated separating floor-ceiling assemblies shall provide impact sound insulation equal to that required to meet a IIC rating of 50 based on laboratory tests as defined in ASTM E 492 and E 989.

Field tested assemblies shall meet a field impact insulation class (FIIIC) rating of 45 for both occupied and unoccupied units as defined in ASTM E 1007 and E 989, with the exception that the measured impact sound pressure levels shall not be normalized to a standard amount of absorption in the receiving room.

Floor coverings may be included in the assembly to obtain the required ratings. These coverings must be retained as a permanent part of the assembly and may be replaced only by other floor coverings that provide the required impact sound insulation.

**1207.9 Tested assemblies.** Laboratory tested wall or floor-ceiling designs having STC or IIC ratings of 50 or more may be used by the building official to determine compliance with this section during plan review phase. Field tests shall be required by the building official when evidence of sound leaks or flanking paths is noted, or when the separating assembly is not built according to the approved design.

Generic sound transmission control systems as listed in the Catalog of STC and IIC Ratings for Wall and Floor-Ceiling Assemblies, as published by the Office of Noise Control, California Department of Health Services, or the Fire Resistance Design Manual, as published by the Gypsum Association, may be used to evaluate construction assemblies for their sound transmission properties. Other tests from recognized laboratories may also be used. When ratings for essentially similar assemblies differ, and when ratings are below STC or IIC 50, field testing may be used to demonstrate that the building complies with this section.

**1207.10 Certification.** *Field testing, when required, shall be done under the supervision of a person experienced in the field of acoustical testing and engineering, who shall forward test results to the building official showing that the sound isolation requirements stated above have been met. Documentation of field test results should generally follow the requirements outlined in relevant ASTM standards.*

**1207.11 Exterior sound transmission control.**

**1207.11.1 Application.** *Consistent with local land-use standards, residential structures located in noise critical areas, such as proximity to highways, county roads, city streets, railroads, rapid transit lines, airports or industrial areas, shall be designed to prevent the intrusion of exterior noises beyond prescribed levels. Proper design shall include, but shall not be limited to, orientation of the residential structure, setbacks, shielding and sound insulation of the building itself.*

**1207.11.2 Allowable interior noise levels.** *Interior noise levels attributable to exterior sources shall not exceed 45 db in any habitable room. The noise metric shall be either the day-night average sound level (Ldn) or the community noise equivalent level (CNEL), consistent with the noise element of the local general plan.*

**Note:** *Ldn is the preferred metric for implementing these standards. Worst case noise levels, either existing or future, shall be used as the basis for determining compliance with this section. Future noise levels shall be predicted for a period of at least 10 years from the time of building permit application.*

**1207.11.3 Airport noise sources.** *Residential structures to be located where the annual Ldn or CNEL (as defined in Title 21, Division 2.5, Chapter 6, Article 1, Section 5001, Subchapter 6, California Code of Regulations) exceeds 60 db shall require an acoustical analysis showing that the proposed design will achieve prescribed allowable interior level. For public-use airports or heliports, the Ldn or CNEL shall be determined from the airport land-use plan prepared by the county wherein the airport is located. For military bases, the Ldn shall be determined from the facility Air Installation Compatible Use Zone (AICUZ) plan. For all other airports or heliports, or public-use airports or heliports for which a land-use plan has not been developed, the Ldn or CNEL shall be determined from the noise element of the general plan of the local jurisdiction.*

*When aircraft noise is not the only significant source, noise levels from all sources shall be added to determine the composite site noise level.*

**1207.11.4 Other noise sources.** *Residential structures to be located where the Ldn or CNEL exceeds 60 db shall require an acoustical analysis showing that the proposed design will limit exterior noise to the prescribed allowable interior level. The noise element of the local general plan shall be used to the greatest extent possible to identify sites with noise levels potentially greater than 60 db.*

**1207.12 Compliance.** *Evidence of compliance shall consist of submittal of an acoustical analysis report, prepared under the supervision of a person experienced in the field of acoustical engineering, with the application for a building permit. The report shall show topographical relationships of noise sources and dwelling sites, identification of noise sources and their characteristics, predicted noise spectra and levels at the exterior of the proposed dwelling structure considering present and future land usage, basis for the prediction (measured or obtained from published data), noise attenuation measures to be applied, and an analysis of the noise insulation effectiveness of the proposed construction showing that the prescribed interior noise level requirements are met. If interior allowable noise levels are met by requiring that windows be unopenable or closed, the design for the structure must also specify a ventilation or air conditioning system to provide a habitable interior environment. The ventilation system must not compromise the dwelling unit or guest room noise reduction.*

**1207.13 Field testing.** *When inspection indicates that the construction is not in accordance with the approved design, or that the noise reduction is compromised due to sound leaks or flanking paths, field testing may be required. A test report showing compliance or noncompliance with prescribed interior allowable levels shall be submitted to the building official. Measurements of outdoor sound levels shall generally follow the guidelines in ASTM E 1014.*

*Field measurements of the A-weighted airborne sound insulation of buildings from exterior sources shall generally follow the guidelines in ASTM E 966.*

*For the purpose of this standard, sound level differences measured in unoccupied units shall be normalized to a receiving room reverberation time of one-half second. Sound level differences measured in occupied units shall not be normalized to a standard reverberation time.*

**SECTION 1208  
INTERIOR SPACE DIMENSIONS**

**1208.4 Efficiency dwelling units.** ~~An efficiency living unit shall conform to the requirements of the code except as modified herein: (HCD 1) Unless modified by local ordinance pursuant to Health and Safety Code Section 17958.1, efficiency dwelling units shall comply with the following:~~

1. The unit shall have a living room of not less than 220 square feet (20.4 m<sup>2</sup>) of floor area. An additional 100 square feet (9.3 m<sup>2</sup>) of floor area shall be provided for each occupant of such unit in excess of two.

. . . (No change to text)

4. The unit shall be provided with a separate bathroom containing a water closet, lavatory and bathtub or shower.

~~(HCD 1) For additional information, see Health and Safety Code Section 17958.1.~~

**SECTION 1210  
TOILET AND BATHROOM REQUIREMENTS**

**1210.1 Required fixtures.** The number and type of plumbing fixtures provided in any occupancy shall comply with ~~Chapter 29~~ the California Plumbing Code.

**SECTION 1211 (HCD 1 & HCD 2)  
GARAGE DOOR SPRINGS**

**1211.1 General.** *This section shall apply to applications listed in Sections 1.8.2.1.1 and 1.8.2.1.3 regulated by the Department of Housing and Community Development.*

**1211.1.1 Extension garage door springs.** *Every extension garage door spring sold or offered for sale, whether new or as a replacement, or installed in any garage or carport which is accessory to an apartment house, hotel, motel or dwelling shall conform to the following requirements:*

*Hard-drawn spring wire shall conform to ASTM A 227 - 74 **06 (2011)** or a more current version, and shall be made by the steel processes described therein, conforming to the chemical composition requirements listed and meeting the standards of steel heat as set forth by the ladle analysis. Wire tensile strength and dimension variations shall meet the prescribed properties of established standards.*

*Oil-tempered wire shall conform to ASTM A 229 - 74 **99 (2005)** or a more current version, and shall be made by the steel processes described therein, conforming to the chemical composition requirements listed and meeting the standards of steel heat as set forth by the ladle analysis. Wire tensile strength and dimension variations shall meet the prescribed properties of established standards.*

*Extension springs shall be fabricated from either hard-drawn spring wire or oil-tempered wire as specified above.*

**1211.6 Installation.** *Installation of extension springs, containment devices and hardware shall be in accordance with the manufacturer's installation instructions. Instructions shall be provided by the manufacturer and shall specify the approved method of restraint and maximum recommended stretch. Unless otherwise permitted by the manufacturer's installation instructions, the hardware and extension springs shall be mounted to nominal 12 by 6 framing members ~~which shall be of a species identified as Group I or II in Volume 3, Chapter 23, Division III.~~ , conforming to the applicable provisions of Section 2303.*

**SECTION 1212 (HCD 1)**  
**POLLUTANT CONTROL**

**1212.1 Finish material pollutant control.** *Finish materials, including adhesives, sealants, caulks, paints and coatings, aerosol paints and coatings, carpet systems, carpet cushion, carpet adhesive, resilient flooring systems, and composite wood products shall meet the volatile organic compound (VOC) emission limits in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.5.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**15. HCD proposes NOT to adopt Chapter 13 from the 2012 International Building Code.**

**CHAPTER 13**  
**ENERGY EFFICIENCY**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**16. HCD proposes to adopt Chapter 14, except Table 1405.3.1, from the 2012 International Building Code into the 2013 California Building Code without amendment:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 14**  
**EXTERIOR WALLS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**17. HCD proposes to adopt Chapter 15 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**CHAPTER 15  
ROOF ASSEMBLIES AND ROOFTOP STRUCTURES**

**SECTION 1503  
WEATHER PROTECTION**

**1503.4 Roof drainage.** Design and installation of roof drainage systems shall comply with Section 1503 of this code and ~~Sections 1106 and 1108, as applicable, Chapter 11 of and the International California Plumbing Code.~~

**1503.4.1 Secondary (emergency overflow) drains or scuppers.** Where roof drains are required, secondary (emergency overflow) roof drains or scuppers shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason. The installation and sizing of secondary emergency overflow drains, leaders and conductors shall comply with ~~Sections 1106 and 1108, as applicable, Chapter 11 of the International California Plumbing Code.~~

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**18. HCD proposes to adopt Chapter 16 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 16  
STRUCTURAL DESIGN**

**SECTION 1607  
LIVE LOADS**

**1607.8.2 Grab bars, shower seats and dressing room bench seats.** Grab bars, shower seats and dressing room bench seat systems shall be designed to resist a single concentrated load of 250 pounds (1.11 kN) applied at any direction on the grab bar or seat so as to produce the maximum load effects. ~~(DSA-AC & HCD 1-AC)~~ See Chapter 11A, Section 1127A.4, and Chapter 11B, Sections 115B.7.2 and 1117B.8, for grab bars, shower seats and dressing room bench seats, as applicable.

**SECTION 1613  
EARTHQUAKE LOADS**

**1613.5 [HCD 1 & HCD 2] Modifications to ASCE 7.** The text of ASCE 7 shall be modified as indicated in Sections 1613.5.1 through 1613.5.2.

**1613.5.1 [HCD 1 & HCD 2] Modify ASCE 7 DEFINITIONS as follows:**

**1.2 DEFINITIONS.**

**BALLASTED PHOTOVOLTAIC SYSTEM:** *A roof mounted system composed of panels and supporting members that are unattached or partially attached to the roof and must rely on its weight, aerodynamics and friction to counter the effect of wind and seismic forces.*

**1613.5.2 [HCD 1 & HCD 2] Modify ASCE 7 Section 13.4 as follows:**

**Section 13.4 NONSTRUCTURAL COMPONENT ANCHORAGE.**

Components and their supports shall be attached (or anchored) to the structure in accordance with the requirements of this section and the attachment shall satisfy the requirements for the parent material as set forth elsewhere in this standard. Component attachments shall be bolted, welded, or otherwise positively fastened without consideration of frictional resistance produced by the effects of gravity. A continuous load path of sufficient strength and stiffness between the component and the supporting structure shall be provided. Local elements of the structure including connections shall be designed and constructed for the component forces where they control the design of the elements or their connections. The component forces shall be those determined in Section 13.3.1, except that modifications to  $F_p$  and  $R$ , due to anchorage conditions need not be considered. The design documents shall include sufficient information relating to the attachments to verify compliance with the requirements of this section

**Exception:** *Ballasted photovoltaic systems when approved by the enforcing agency.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 8871.3, 8871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**19. HCD proposes to adopt Chapter 17 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**NOTE:** *See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 17  
STRUCTURAL TESTS AND SPECIAL INSPECTIONS**

**SECTION 1707  
ALTERNATIVE TEST PROCEDURE**

**1707.1 General.** In the absence of approved rules or other approved standards, the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section 104.11. The cost of all tests and other investigations required under the provisions of this code shall be borne by the applicant.

**(HCD 1 & HCD 2)** *In the absence of approved rules or other approved standards, the building official shall make or cause to be made the necessary tests and investigations, or the building official shall accept duly authenticated reports from approved agencies with respect to the quality and manner of use of new materials or assemblies as provided for in Section 1.8.7, Chapter 7, Division 1. The cost of all tests and other investigations required under the provisions of this code shall be borne by the applicant.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690,

18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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## **20. HCD proposes to adopt Chapter 18 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**NOTE:** See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.

### **CHAPTER 18 SOILS AND FOUNDATIONS**

#### **SECTION 1803 GEOTECHNICAL INVESTIGATIONS**

**1803.1 General.** Geotechnical investigations shall be conducted in accordance with Section 1803.2 and reported in accordance with Section 1803.6. Where required by the building official, or where geotechnical investigations involve in-situ testing, laboratory testing or engineering calculations, such investigations shall be conducted by a registered design professional.

**1803.1.1 General and where required for applications listed in Section 1.8.2.1.1 regulated by the Department of Housing and Community Development. (HCD 1)** Foundation and soils investigations shall be conducted in conformance with Health and Safety Code Sections 17953 through ~~47955~~ 17957 as summarized below.

**1803.1.1.1 Preliminary soil report.** Each city, county, or city and county shall enact an ordinance which requires a preliminary soil report, prepared by a civil engineer who is registered by the state. The report shall be based upon adequate test borings or excavations, of every subdivision, where a tentative and final map is required pursuant to Section 66426 of the Government Code.

The preliminary soil report may be waived if the building department of the city, county, or city and county, or other enforcement agency charged with the administration and enforcement of the provisions of ~~this part~~ Section 1803.1.1, shall determine that, due to the knowledge such department has as to the soil qualities of the soil of the subdivision or lot, no preliminary analysis is necessary.

**1803.1.1.2 Soil investigation by lot, necessity, preparation, and recommendations.** If the preliminary soil report indicates the presence of critically expansive soils or other soil problems which, if not corrected, would lead to structural defects, such ordinance shall require a soil investigation of each lot in the subdivision.

The soil investigation shall be prepared by a civil engineer who is registered in this state. It shall recommend corrective action which is likely to prevent structural damage to each dwelling proposed to be constructed on the expansive soil.

**1803.1.1.3 Approval, building permit conditions, appeal.** The building department of each city, county, or city and county, or other enforcement agency charged with the administration and enforcement of the provisions of ~~this part~~ Section 1803.1.1, shall approve the soil investigation if it determines that the recommended action is likely to prevent structural damage to each dwelling to be constructed. As a condition to the building permit, the ordinance shall require that the approved recommended action be incorporated in the construction of each dwelling. Appeal from such determination shall be to the local appeals board.

**1803.1.1.4 Liability.** A city, county, city and county, or other enforcement agency charged with the administration and enforcement of the provisions of Section 1803.1.1, is not liable for any injury which arises out of any act or omission of the city, county, city and county, other enforcement agency, or a public employee or any other person under Section 1803.1.1.

**1803.1.1.5. Alternate procedures.** *The governing body of any city, county, or city and county may enact an ordinance prescribing an alternate procedure which is equal to or more restrictive than the procedure specified in Section 1803.1.1.*

#### **SECTION 1804 EXCAVATION, GRADING AND FILL**

**1804.3 Site grading.** The ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than one unit vertical in 20 units horizontal (5-percent slope) for a minimum distance of 10 feet (3048 mm) measured perpendicular to the face of the wall. If physical obstructions or lot lines prohibit 10 feet (3048 mm) of horizontal distance, a 5-percent slope shall be provided to an *approved* alternative method of diverting water away from the foundation. Swales used for this purpose shall be sloped a minimum of 2 percent where located within 10 feet (3048 mm) of the building foundation. Impervious surfaces within 10 feet (3048 mm) of the building foundation shall be sloped a minimum of 2 percent away from the building.

**Exception:** Where climatic or soil conditions warrant, the slope of the ground away from the building foundation shall be permitted to be reduced to not less than one unit vertical in 48 units horizontal (2-percent slope).

The procedure used to establish the final ground level adjacent to the foundation shall account for additional settlement of the backfill.

**1804.3.1 (HCD 1) Construction plans.** *Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.1.*

#### **SECTION 1805 DAMPPROOFING AND WATERPROOFING**

**1805.4 Subsoil drainage system.** Where a hydrostatic pressure condition does not exist, dampproofing shall be provided and a base shall be installed under the floor and a drain installed around the foundation perimeter. A subsoil drainage system designed and constructed in accordance with Section 1805.1.3 shall be deemed adequate for lowering the groundwater table.

**1805.4.1 Floor base course.** Floors of basements, except as provided for in Section 1805.1.1, shall be placed over a floor base course not less than 4 inches (102 mm) in thickness that consists of gravel or crushed stone containing not more than 10 percent of material that passes through a No. 4 (4.75 mm) sieve.

**Exception:**

1. Where a site is located in well-drained gravel or sand/gravel mixture soils, a floor base course is not required.
2. **(HCD1)** *When a capillary break is installed in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.5*

#### **SECTION 1810 DEEP FOUNDATIONS**

**1810.3.10.4 Seismic reinforcement.** For structures assigned to Seismic Design Category C, a permanent steel casing shall be provided from the top of the micropile down to the point of zero curvature. For structures assigned to Seismic Design Category D, E or F, the micropile shall be considered as an alternative system in accordance with Section 104.11. The alternative system design, supporting documentation and test data shall be submitted to the building official for review and approval.

**(HCD 1 & HCD 2)** *For structures assigned to Seismic Design Category D, E or F, the micropile shall be considered as an alternative system in accordance with Section 1.8.7, Chapter 1, Division 1. The alternative system design, supporting documentation and test data shall be submitted to the building official for review and approval.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**21. HCD proposes to adopt Chapter 19 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

***NOTE:** See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 19  
CONCRETE**

**SECTION 1907  
MINIMUM SLAB PROVISIONS**

**1907.1 General.** The thickness of concrete floor slabs supported directly on the ground shall not be less than 3 1/2 inches (89 mm). A 6-mil (0.006 inch; 0.15 mm) polyethylene vapor retarder with joints lapped not less than 6 inches (152 mm) shall be placed between the base course or subgrade and the concrete floor slab, or other *approved* equivalent methods or materials shall be used to retard vapor transmission through the floor slab.

**Exception:** A vapor retarder is not required:

1. For detached structures accessory to occupancies in Group R-3, such as garages, utility buildings or other unheated facilities.
2. For unheated storage rooms having an area of less than 70 square feet (6.5 m<sup>2</sup>) and carports attached to occupancies in Group R-3.
3. For buildings of other occupancies where migration of moisture through the slab from below will not be detrimental to the intended occupancy of the building.
4. For driveways, walks, patios and other flatwork which will not be enclosed at a later date.
5. Where *approved* based on local site conditions.

**1907.1.1 (HCD 1) Capillary break.** *When a vapor retarder is required, a capillary break shall be installed in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.5.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**22. HCD proposes to adopt Chapter 20 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 20  
ALUMINUM**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**23. HCD proposes to adopt Chapter 21 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 21  
MASONRY**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, Sections 17910 through 17995.5, Sections 18200 through 18700, Sections 18860 through 18874, and Sections 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**24. HCD proposes to adopt Chapter 22 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

**CHAPTER 22  
STEEL**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**25. HCD proposes to adopt Chapter 23 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 23  
WOOD**

**SECTION 2304  
GENERAL CONSTRUCTION REQUIREMENTS**

**2304.3.1 Bottom plates.** Studs shall have full bearing on a 2-inch-thick (actual 1 1/2-inch, 38 mm) or larger plate or sill having a width at least equal to the width of the studs.

**2304.3.1.1 (HCD 1) Rodent proofing.** *Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.4.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**26. HCD proposes to adopt Chapter 24 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

**CHAPTER 24  
GLASS AND GLAZING**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**27. HCD proposes to adopt Chapter 25 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

**CHAPTER 25  
GYPSUM BOARD AND PLASTER**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**28. HCD proposes to adopt Chapter 26 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

**CHAPTER 26  
PLASTIC**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**29. HCD proposes NOT to adopt Chapter 27 from the 2012 International Building Code.**

**CHAPTER 27  
ELECTRICAL**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**30. HCD proposes NOT to adopt Chapter 28 from the 2012 International Building Code.**

**CHAPTER 28  
MECHANICAL SYSTEMS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**31. HCD proposes NOT to adopt Chapter 29 from the 2012 International Building Code.**

**CHAPTER 29  
PLUMBING SYSTEMS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**32. HCD proposes to adopt Chapter 30, Sections 3001.1 and 3001.3 only, from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 30  
ELEVATORS AND CONVEYING SYSTEMS**

**SECTION 3001  
GENERAL**

**3001.1 Scope.** This chapter governs the design, construction, installation, alteration and repair of elevators and conveying systems and their components.

*~~Exception: (HCD 1-AC) For accessibility requirements for platform (wheelchair) lifts and elevators, see California Code of Regulations, Title 8 and Title 24, Part 2, Sections 1124A and 1116B.~~*

**3001.3 Accessibility.** Passenger elevators and platform (wheelchair) lifts required to be accessible by Chapter 11A or 11B or to serve as part of an accessible means of egress shall comply with Sections 1107 and 1109.7 Chapter 11A for applications listed in Section 1.8.2.1.2 regulated by the Department of Housing and Community Development or Chapter 11B for applications listed in Section 1.9.1 regulated by the Division of the State Architect Access Compliance.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**33. HCD proposes to adopt Chapter 31, except Section 3109, from the 2012 International Building Code into the 2013 California Building Code without amendment:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 31  
SPECIAL CONSTRUCTION**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**34. HCD proposes to adopt Chapter 32 from the 2012 International Building Code into the 2013 California Building Code without amendment:**

**CHAPTER 32**

**ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**35. HCD proposes to adopt Chapter 33, Sections 3303, 3304, 3305, 3306, 3307, 3308 and 3310 only, from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

*NOTE: See Part 2 of this document for existing California Amendments proposed to be carried forward from the 2010 CBC for adoption into the 2013 CBC.*

**CHAPTER 33**

**SAFEGUARDS DURING CONSTRUCTION**

**SECTION 3304**

**SITE WORK**

**3304.1.5 (HCD 1) Storm water drainage and retention during construction.** *Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.1.*

**SECTION 3306**

**PROTECTION OF PEDESTRIANS**

**3306.2 Walkways.** A walkway shall be provided for pedestrian travel in front of every construction and demolition site unless the applicable governing authority authorizes the sidewalk to be fenced or closed. Walkways shall be of sufficient width to accommodate the pedestrian traffic, but in no case shall they be less than 4 feet (1219 mm) in width. Walkways shall be provided with a durable walking surface. Walkways shall be accessible in accordance with Chapter 11A ~~or 11B~~ and shall be designed to support all imposed loads and in no case shall the design live load be less than 150 pounds per square foot (psf) (7.2 kN/m<sup>2</sup>).

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**36. HCD proposes to adopt Chapter 34, except Sections 3401.6, 3403.5, 3404.6, 3405.2, 3405.2.1, 3405.2.2, 3405.2.3, 3405.3, 3405.3.1, 3406, 3407, 3409, 3411 and 3412, from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**CHAPTER 34  
EXISTING STRUCTURES**

**SECTION 3401  
GENERAL**

**3401.1 Scope.** The provisions of this chapter shall control the alteration, repair, addition and change of occupancy of existing buildings and structures.

*(HCD 1) In addition to the requirements in this chapter, maintenance, alteration, repair, addition, or change of occupancy to existing buildings and accessory structures under the authority of the Department of Housing and Community Development, as provided in Section 1.8.2.1.1, shall comply with California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1.*

**Exceptions:**

1. Existing bleachers, grandstands and folding and telescopic seating shall comply with ICC 300-02.
2. ***(HCD 2)** For moved buildings and maintenance, alteration, repair, addition, or change of occupancy to existing buildings and accessory structures in mobilehome parks or special occupancy parks as provided in Section 1.8.2.1.3, **§** see California Code of Regulations, Title 25, Division 1, Chapters 2 and 2.2.*
3. ***(HCD 1)** Limited-density owner-built rural dwellings.*

**3401.3 Compliance.** Alterations, repairs, additions and changes of occupancy to, or relocation of, existing buildings and structures shall comply with the provisions for alterations, repairs, additions and changes of occupancy or relocation, respectively, in the ~~International Energy Conservation Code, International California Fire Code, International Fuel Gas Code, International California Mechanical Code, International California Plumbing Code, International Property Maintenance Code, International Private Sewage Disposal Code,~~ International California Residential Code and ~~NFPA 70~~ California Electrical Code. Where provisions of the other codes conflict with provisions of this chapter, the provisions of this chapter shall take precedence.

***(HCD 1)** See Chapter 34, Sections 3403.1.4.3, 3403.1.1 and 3404.1.1 and Title 25, Division 1, Chapter 1, Subchapter 1, Article 1, commencing with Article 1, Section 1 for existing buildings or structures.*

**3401.4 Building materials and systems.** ... (No change to text)

**3401.4.1 Existing materials.** Materials already in use in a building in compliance with requirements or approvals in effect at the time of their erection or installation shall be permitted to remain in use unless determined by the building official to be unsafe per Section 116.

***(HCD 1)** Local ordinances or regulations shall permit the replacement, retention and extension of original materials, and the use of original methods of construction, for any building or accessory structure, provided such building or structure complied with the building code provisions in effect at the time of original construction and the building or accessory structure does not become or continue to be a substandard building. For additional information, see Health and Safety Code Sections 17912, 17920.3, 17922(d), 17922.3, 17958.8 and 17958.9.*

**3401.4.2 New and replacement materials.** ... (No change to text)

**3401.4.3 Existing seismic force-resisting systems.** ... (No change to text)

~~**3401.4.3 Replacement, retention and extension of original materials. (HCD 1)** Local ordinances or regulations shall permit the replacement, retention and extension of original materials, and the use of original methods of construction, for any building or accessory structure, provided such building or structure complied with the building code provisions in effect at the time of original construction and the building or accessory structure does not become or continue to be a substandard building. For additional information, see Health and Safety Code Sections 17912, 17920.3, 17922(d), 17922.3, 17958.8 and 17958.9.~~

## SECTION 3403 ADDITIONS

**3403.1 General.** Additions to any building or structure shall comply with the requirements of this code for new construction. Alterations to the existing building or structure shall be made to ensure that the existing building or structure together with the addition are no less conforming with the provisions of this code than the existing building or structure was prior to the addition. An existing building together with its additions shall comply with the height and area provisions of Chapter 5.

~~**3403.1.1 Replacement, retention and extension of original materials. (HCD 1)** Local ordinances or regulations shall permit the replacement, retention and extension of original materials, and the use of original methods of construction, for any building or accessory structure, provided such building or structure complied with the building code provisions in effect at the time of original construction and the building or accessory structure does not become or continue to be a substandard building. For additional information, see Health and Safety Code Sections 17912, 17920.3, 17922(d), 17922.3, 17958.8 and 17958.9.~~

## SECTION 3404 ALTERATIONS

**3404.1 General.** ... (No change to text)

~~**3404.1.1 Replacement, retention and extension of original materials. (HCD 1)** Local ordinances or regulations shall permit the replacement, retention and extension of original materials, and the use of original methods of construction, for any building or accessory structure, provided such building or structure complied with the building code provisions in effect at the time of original construction and the building or accessory structure does not become or continue to be a substandard building. For additional information, see Health and Safety Code Sections 17912, 17920.3, 17922(d), 17922.3, 17958.8 and 17958.9~~

## SECTION 3405 REPAIRS

**3405.1 General.** ... (No change to text)

~~**3405.1.2 1 Replacement, retention and extension of original materials. (HCD 1)** Local ordinances or regulations shall permit the replacement, retention and extension of original materials, and the use of original methods of construction, for any building or accessory structure, provided such building or structure complied with the building code provisions in effect at the time of original construction and the building accessory structure does not become or continue to be a substandard building. For additional information, see Health and Safety Code Sections 17912, 17920.3, 17922(d), 17922.3, 17958.8 and 17958.9.~~

## SECTION 3410 MOVED STRUCTURES

**3410.1 Conformance.** Structures moved into or within the jurisdiction shall comply with the provisions of this code for new structures.

*Exception: (HCD 1 & HCD 2) After July 1, 1978, local ordinances or regulations for moved apartment houses and dwellings shall permit the retention of existing materials and methods of construction, provided the apartment house or dwelling complies with the building standards for foundations applicable*

to new construction and does not become or continue to be a substandard building. For additional information, see Health and Safety Code Section 17958.9.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**37. HCD proposes to adopt Chapter 35 from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**CHAPTER 35  
REFERENCED STANDARDS**

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in *Chapter 1, Scope and Administration, Division I, Sections 1.1.5 and 1.1.7, and in Chapter 1, Scope and Administration, Division II, Section 102.4*

ICC	International Code Council 500 New Jersey Avenue, NW 6th Floor Washington, DC 20001	
Standard Reference Number	Title	Referenced in code section number
ICC/ANSI A117.1—09	Accessible and Usable Buildings and Facilities	202, 907.5.2.3.4, 1007.9, 4040.4, 4040.7.5, 4040.10, 4041.4, 4022.9, 1101.2, 1107.2, 1109.1, 1109.2, 1109.5.1, 1109.5.2, 1110.3, 1110.4, 1110.4.2, 3008.7.7.1, 3008.7.7.2, 3411.8.2, 3411.8.3, E104.2, E104.2, E104.2.1, E104.3.4, E106.4.9, E107.3, E108.3, E108.4, E109.2.2.2, E109.2.2.3, E109.2.3, E109.2.5, E110.2
ICC 300-12	ICC Standard on Bleachers, Folding and Telescopic Seating and Grandstands	1028.1.1, 1028.14.2, Table 1607.1, 3401.1
ICC 400-12	Standard on Design and Construction of Log Structures	2301.2
ICC 500—08	ICC/NSSA Standard on the Design and Construction of Storm Shelters	202, 423.1
ICC 600-08	Standard for Residential Construction in High Wind Regions	1609.1.1, 1609.1.1.1, 2308.2.1
IEBC—12	International Existing Building Code	3401.5
IECC-12	International Energy Conservation Code <sup>®</sup>	401.4.6, 201.3, 1203.1, 1203.3.2, 1301.1.1, 1405.3, 3401.3
IFC-12	International Fire Code <sup>®</sup>	401.4.5, 102.6, 201.3, 202, 307.1, Table 307.1(1), Table

		307.1(2), 307.1.1, 403.4.5, 404.2, 406.7, 406.8, 410.3.6, 411.1, 412.1, 412.6.1, 413.1, 414.1.1, 414.1.2, 414.1.2.1, 414.2, 414.2.5, Table 414.2.5(1), Table 414.2.5(2), 414.3, 414.5, 414.5.1, Table 414.5.1, 414.5.2, 414.5.3, 414.5.4, 414.6, 415.1, 415.5, 415.5.1, 415.5.1.1, 415.5.1.4, Table 415.5.2, 415.7.3, 415.8, 415.8.1, 415.8.1.4, 415.8.2, 415.8.2.3, 415.8.2.4, 415.8.2.6, 415.8.2.7, 415.8.2.8, 415.8.3, 415.8.4, 415.9, 415.10, 415.10.1.7, 415.10.4, 415.10.7.2, 415.10.9.3, 415.10.10.1, 416.1, 416.4, 421.1, 421.7, 507.3, 507.8.1.1.1, 507.8.1.1.2, 507.8.1.1.3, 705.8.1, 707.1, 901.2, 901.3, 901.5, 901.6.2, 901.6.3, 903.1.1, 903.2.7.1, 903.2.11.6, 903.2.12, 903.5, 904.2.1, 905.1, 905.3.6, 906.1, 907.1.8, 907.2.5, 907.2.13.2, 907.2.15, 907.2.16, 907.6.5, 907.8, 909.20, 910.2.2, 1001.3, 1001.4, 1008.1.9.6, 1203.4.2, 1203.5, 1507.16, 1511.1, Table 1604.5, 2603.4.1.12, 2702.1, 2702.2.9, 2702.2.11, 2702.2.12, 2702.2.13, 2702.3, 3003.3, 3008.1.2, 3102.1, 3103.1, 3111.1, 3302.3, 3303.7, 3309.2, 3401.3, 3403.5, 3404.6, 3412.3.2, 3412.6.8.1, 3412.6.14, 3412.6.14.1
IFGC-12	International Fuel Gas Code <sup>®</sup>	101.4.1, 201.3, Table 307.1(1), 415.8.3, 2113.11.1.2, 2113.15, 2801.1, 3401.3, A101.2
IMC-12	International Mechanical Code <sup>®</sup>	101.4.2, 201.3, 307.1, Table 307.1(1), 406.6.2, 406.8.2, 406.8.4, 409.3, 412.6.6, 414.1.2, 414.3, 415.8.1.4, 415.8.2, 415.8.2.7, 415.8.3, 415.8.4, 415.10.11, 415.10.11.1, 416.2.2, 413.3, 416.3, 417.1, 419.8, 421.5, 603.1, 603.1.1, 603.1.2, 712.1.5, 717.2.2, 717.5.3, 717.5.4, 717.6.1, 717.6.2, 717.6.3, 718.5, 720.1, 720.7, 903.2.11.4, 904.2.1, 904.11, 907.3.1, 908.6, 909.1, 909.10.2, 909.13.1, 1015.5, 1018.5, 1203.1, 1203.2.1, 1203.4.2, 1203.4.2.1, 1203.5, 1209.3, 2304.5, 2801.1, 3004.3.1, 3401.3, 3412.6.7.1, 3412.6.8, 3412.6.8.1
IPC-12	International Plumbing Code <sup>®</sup>	101.4.3, 201.3, 415.8.4, 603.1.2,

		718.5, 903.3.5, 912.5, 1206.3.3, 1503.4, 1503.4.1, 1805.4.3, 2901.1, Table 2902.1, 3305.1, 3401.3, A101.2
IPMC-12	International Property Maintenance Code <sup>®</sup>	101.4.4, 102.6, 103.3, 3401.3, 3412.3.2, K201.3, K1203.1
IPSDC-12	International Private Sewage Disposal Code <sup>®</sup>	101.4.3, 2901.1, 3401.3, K201.3
IRC-12	International Residential Code <sup>®</sup>	101.2, 305.2.3, 308.3.1, 308.4.1, 308.6.4, 310.1, 310.5.1, 2308.1, 3401.3
IWUIC-12	International Wildland-Urban Interface Code <sup>™</sup>	Table 1505.1
SBCCI SSTD 11-97	Test Standard for Determining Wind Resistance of Concrete or Clay Roof Tiles	1711.2.1, 1711.2.2

<b>NFPA</b>	National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471	
Standard Reference Number	Title	Referenced in code section number
720	<i>Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment 2009 Edition</i>	420.4
720 - <del>09</del> 12	Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment	420.6, 908.7

<b>UL</b>	Underwriters Laboratories, Inc. 333 Pfingsten Road Northbrook, IL 60062-2096	
Standard Reference Number	Title	Referenced in code section number
2034	<i>Single and Multiple Station Carbon Monoxide Alarms effective August 1, 2009</i>	420.4
2034 - 2008	Standard for Single- and Multiple Station Carbon Monoxide Alarms with revision through February 2009	420.6, 908.7
2075	<i>Gas and Vapor Detectors and Sensors effective September 1, 2009</i>	420.4 <u>6</u>

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**38. HCD proposes NOT to adopt Appendix A from the 2012 International Building Code.**

**APPENDIX A  
EMPLOYEE QUALIFICATIONS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**39. HCD proposes NOT to adopt Appendix B from the 2012 International Building Code.**

**APPENDIX B  
BOARD OF APPEALS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**40. HCD proposes NOT to adopt Appendix C from the 2012 International Building Code.**

**APPENDIX C  
GROUP U – AGRICULTURAL BUILDINGS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**41. HCD proposes NOT to adopt Appendix D from the 2012 International Building Code.**

**APPENDIX D  
FIRE DISTRICTS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**42. HCD proposes NOT to adopt Appendix E from the 2012 International Building Code.**

**APPENDIX E  
SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**43. HCD proposes NOT to adopt Appendix F from the 2012 International Building Code.**

**APPENDIX F  
RODENTPROOFING**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**44. HCD proposes NOT to adopt Appendix G from the 2012 International Building Code.**

**APPENDIX G  
FLOOD-RESISTANT CONSTRUCTION**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**45. HCD proposes NOT to adopt Appendix H from the 2012 International Building Code.**

**APPENDIX H  
SIGNS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**46. HCD proposes to adopt Appendix I from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

**APPENDIX I  
PATIO COVERS**

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

**SECTION I102  
DEFINITIONS**

**I102.1 General.** The following words and terms shall, for the purposes of this appendix, have the meanings shown herein. Refer to Chapter 2 of the *International California Building Code* for general definitions.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**47. HCD proposes to adopt Appendix J from the 2012 International Building Code into the 2013 California Building Code with amendment as follows:**

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

**APPENDIX J  
GRADING**

**SECTION J102  
DEFINITIONS**

**J102.1 Definitions.** The following words and terms shall, for the purposes of this appendix, have the meanings shown herein. Refer to Chapter 2 of the ~~International~~ *California Building Code* for general definitions.

**SECTION J105  
INSPECTIONS**

**J105.1 General.** Inspections shall be governed by Section ~~409~~ 110 of this code.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**48. HCD proposes NOT to adopt Appendix K from the 2012 International Building Code.**

**APPENDIX K  
ADMINISTRATIVE PROVISIONS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**49. HCD proposes NOT to adopt Appendix L from the 2012 International Building Code.**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**50. HCD proposes NOT to adopt Appendix M from the 2012 International Building Code.**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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## **\*\*PART 2\*\***

**NOTE:** The language in Part 2 is brought forward from the previous code adoption cycle *without change*, except for nonsubstantive editorial corrections, and is displayed for context and for the convenience of code users.

### **51. HCD proposes to bring forward existing California Amendments in Chapter 1, Division I, from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

#### **CHAPTER 1 SCOPE AND ADMINISTRATION**

#### **DIVISION I CALIFORNIA ADMINISTRATION**

#### **SECTION 1.1 GENERAL**

**1.1.2 Purpose.** The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during emergency operations

**1.1.3 Scope.** The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures throughout the State of California.

**1.1.3.1 Nonstate-regulated buildings, structures, and applications.** Except as modified by local ordinance pursuant to Section 1.1.8, the following standards in the California Code of Regulations, Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9, 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.

**1.1.3.2 State-regulated buildings, structures, and applications.** The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions shall apply to the following buildings, structures, and applications regulated by state agencies ~~as referenced in the Matrix Adoption Tables~~ and as specified in Sections 1.2 through 1.14, except where modified by local ordinance pursuant to Section 1.1.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the state legislature.

**Note:** See Preface to distinguish the model code provisions from the California provisions.

1. State-owned buildings, including buildings constructed by the Trustees of the California State University, and to the extent permitted by California laws, buildings designed and constructed by the Regents of the University of California, and regulated by the Building Standards Commission. See Section 1.2 for additional scope provisions.
2. Local detention facilities regulated by the Corrections Standards Authority. See Section 1.3 for additional scope provisions.
3. Barbering, cosmetology or electrolysis establishments, acupuncture offices, pharmacies, veterinary facilities and structural pest control locations regulated by the Department of Consumer Affairs. See Section 1.4 for additional scope provisions.
4. Energy efficiency standards regulated by the California Energy Commission. See Section 1.5 for additional scope provisions.

5. *Dairies and places of meat inspection regulated by the Department of Food and Agriculture. See Section 1.6 for additional scope provisions.*
6. *Organized camps, laboratory animal quarters, public swimming pools, radiation protection, commissaries serving mobile food preparation vehicles and wild animal quarantine facilities regulated by the Department of Public Health. See Section 1.7 for additional scope provisions.*
7. *Hotels, motels, lodging houses, apartment houses, dwellings, dormitories, condominiums, shelters for homeless persons, congregate residences, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations with or without common toilets or cooking facilities. See Section 1.8.2.1.1 for additional scope provisions.*
8. *Accommodations for persons with disabilities in buildings containing newly constructed covered multifamily dwellings, new common use spaces serving existing covered multifamily dwellings, additions to existing buildings where the addition alone meets the definition of "COVERED MULTIFAMILY DWELLING," and common-use spaces serving covered multifamily dwellings, which are regulated by the Department of Housing and Community Development. See Section 1.8.2.1.2 for additional scope provisions.*
9. *Permanent buildings and permanent accessory buildings or structures constructed within mobilehome parks and special occupancy parks regulated by the Department of Housing and Community Development. See Section 1.8.2.1.3 for additional scope provisions.*
10. *Accommodations for persons with disabilities regulated by the Division of the State Architect. See Section 1.9.1 for additional scope provisions.*
11. *Public elementary and secondary schools, community college buildings, and state-owned or state-leased essential service buildings regulated by the Division of the State Architect. See Section 1.9.2 for additional scope provisions.*
12. *Qualified historical buildings and structures and their associated sites regulated by the State Historical Building Safety Board with the Division of the State Architect. See Section 1.9.3 for additional scope provisions.*
13. *General acute care hospitals, acute psychiatric hospitals, skilled nursing and/or intermediate care facilities, clinics licensed by the Department of Public Health and correctional treatment centers regulated by the Office of Statewide Health Planning and Development. See Section 1.10 for additional scope provisions.*
14. *Applications regulated by the Office of the State Fire Marshal include, but are not limited to, the following in accordance with Section 1.11:*
  - 14.1 *Buildings or structures used or intended for use as an:*
    1. *Asylum, jail, prison*
    2. *Mental hospital, hospital, home for the elderly, children's nursery, children's home or institution, school or any similar occupancy of any capacity.*
    3. *Theater, dancehall, skating rink, auditorium, assembly hall, meeting hall, nightclub, fair building or similar place of assemblage where 50 or more persons may gather together in a building, room or structure for the purpose of amusement, entertainment, instruction, deliberation, worship, drinking or dining, awaiting transportation, or education.*
    4. *Small family day-care homes, large family day-care homes, residential facilities and residential facilities for the elderly, residential care facilities.*
    5. *State institutions or other state-owned or state-occupied buildings.*
    6. *High rise structures.*
    7. *Motion picture production studios.*
    8. *Organized camps.*
    9. *Residential structures.*

- 14.2. Tents, awnings or other fabric enclosures used in connection with any occupancy.
- 14.3. Fire alarm devices, equipment and systems in connection with any occupancy.
- 14.4. Hazardous materials, flammable and combustible liquids.
- 14.5. Public school automatic fire detection, alarm and sprinkler systems.
- 14.6. Wildland-urban interface fire areas.

15. Public libraries constructed and renovated using funds from the California Library Construction and Renovation Bond Act of 1988 and regulated by the State Librarian. See Section 1.12 for additional scope provisions.

16. Graywater systems regulated by the Department of Water Resources. See Section 1.13 for additional scope provisions.

17. For applications listed in Section 1.9.1 regulated by the Division of State Architect--Access Compliance, outdoor environments and uses shall be classified according to accessibility uses described in Chapters 11A, 11B and 11C.

18. Marine Oil Terminals regulated by the California State Lands Commission. See Section 1.14 for additional scope provisions.

**1.1.4 Appendices.** Provisions contained in the appendices of this code shall not apply unless specifically adopted by a state agency or adopted by a local enforcing agency in compliance with Health and Safety Code Section 18901 et seq. for Building Standards Law, Health and Safety Code Section 17950 for State Housing Law and Health and Safety Code Section 13869.7 for Fire Protection Districts. See Section 1.1.8 of this code.

**1.1.5 Referenced codes.** The codes, standards and publications adopted and set forth in this code, including other codes, standards and publications referred to therein are, by title and date of publication, hereby adopted as standard reference documents of this code. When this code does not specifically cover any subject related to building design and construction, recognized architectural or engineering practices shall be employed. The National Fire Codes, standards and the Fire Protection Handbook of the National Fire Protection Association are permitted to be used as authoritative guides in determining recognized fire prevention engineering practices.

**1.1.6 Nonbuilding standards, orders and regulations.** Requirements contained in the International Building Code, or in any other referenced standard, code or document, which are not building standards as defined in Health and Safety Code Section 18909, shall not be construed as part of the provisions of this code. For non-building standards, orders and regulations, see other titles of the California Code of Regulations.

#### **1.1.7 Order of precedence and use.**

**1.1.7.1 Differences.** In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern.

**1.1.7.2 Specific provisions.** Where a specific provision varies from a general provision, the specific provision shall apply.

**1.1.7.3 Conflicts.** When the requirements of this code conflict with the requirements of any other part of the California Building Standards Code, Title 24, the most restrictive requirements shall prevail.

#### **1.1.8 City, county, or city and county amendments, additions or deletions.**

The provisions of this code do not limit the authority of city, county, or city and county governments to establish more restrictive and reasonably necessary differences to the provisions contained in this code pursuant to complying with Section 1.1.8.1. The effective date of amendments, additions or deletions to this code by a city, county, or a city and county filed pursuant to Section 1.1.8.1 shall be the date filed. However, in no case shall the amendments, additions or deletions to this code be effective any sooner than the effective date of this code.

Local modifications shall comply with Health and Safety Code Section 18941.5 for Building Standards Law, Health and Safety Code Section 17958 for State Housing Law or Health and Safety Code Section 13869.7 for Fire Protection Districts.

### 1.1.8.1 Findings and filings.

1. The city, county, or city and county shall make express findings for each amendment, addition or deletion based upon climatic, topographical or geological conditions.

**Exception:** Hazardous building ordinances and programs mitigating unreinforced masonry buildings.

2. The city, county, or city and county shall file the amendments, additions or deletions expressly marked and identified as to the applicable findings. Cities, counties, cities and counties, and fire departments shall file the amendments, additions or deletions, and the findings with the California Building Standards Commission at 2525 Natomas Park Drive, Suite 130, Sacramento, CA 95833.
3. Findings prepared by fire protection districts shall be ratified by the local city, county, or city and county and filed with the California Department of Housing and Community Development, Division of Codes and Standards, P.O. Box 1407, Sacramento, CA 95812-1407 or 1800 3<sup>rd</sup> Street, Room 260, Sacramento, CA 95811.

**1.1.9 Effective date of this code.** Only those standards approved by the California Building Standards Commission that are effective at the time an application for building permit is submitted shall apply to the plans and specifications for, and to the construction performed under, that permit. For the effective dates of the provisions contained in this code, see the History Note page of this code.

**1.1.10 Availability of codes.** At least one complete copy each of Titles 8, 19, 20, 24 and 25 with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. Each state department concerned and each city, county, or city and county shall have an up-to-date copy of the code available for public inspection. See Health and Safety Code Section 18942 (d)(1) and (2).

**1.1.11 Format.** This part fundamentally adopts the International Building Code by reference on a chapter-by-chapter basis. ~~Such adoption is reflected in the Matrix Adoption Table of each chapter of this part. When the Matrix Adoption Tables make no reference to a specific chapter of the International Building Code such chapter of the International Building Code is not adopted as a portion of this code. When a specific chapter of the International Building Code is not printed in the code and is marked "Reserved", such chapter of the International Building Code is not adopted as a portion of this code. When a specific chapter of the International Building Code is marked "Not adopted by the State of California" but appears in the code, it may be available for adoption by local ordinance.~~

**Note:** Matrix Adoption Tables at the front of each chapter may aid the code user in determining which chapter or sections within a chapter are applicable to buildings under the authority of a specific state agency, but they are not to be considered regulatory.

**1.1.12 Validity.** If any chapter, section, subsection, sentence, clause or phrase of this code is for any reason held to be unconstitutional, contrary to statute, exceeding the authority of the state as stipulated by statutes or otherwise inoperative, such decision shall not affect the validity of the remaining portion of this code.

## SECTION 1.8 DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

**1.8.1 Purpose.** The purpose of this code is to establish the minimum requirements necessary to protect the health, safety and general welfare of the occupants and the public by governing accessibility, erection, construction, reconstruction, enlargement, conversion, alteration, repair, moving, removal, demolition, occupancy, use, height, court, area, sanitation, ventilation, maintenance and safety to life and property from fire and other hazards attributed to the built environment.

## SECTION 1.8.2 AUTHORITY AND ABBREVIATIONS

**1.8.2.1 General.** The Department of Housing and Community Development is authorized by law to promulgate and adopt building standards and regulations for several types of building applications. ~~These applications are grouped and identified by abbreviation in the Matrix Adoption Tables to show which model code sections and~~

~~amendments are applicable to each application.~~ The applications under the authority of the Department of Housing and Community Development are listed in Sections 1.8.2.1.1 through 1.8.2.1.3.

Note: See the California Residential Code for detached one- and two-family dwellings and townhouses.

#### **1.8.2.1.1 Housing construction. Application**

**Application** - Hotels, motels, lodging houses, apartment houses, dwellings, dormitories, condominiums, shelters for homeless persons, congregate residences, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations with or without common toilet or cooking facilities including accessory buildings, facilities and uses thereto. Sections of this code which pertain to applications listed in this section are identified in the Matrix Adoption Table using the abbreviation "HCD 1."

**Enforcing Agency** – Local building department or the Department of Housing and Community Development.

**Authority cited**—Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

**Reference**—Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and Sections 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

#### **1.8.2.1.2 Housing accessibility. Application**

**Application** – ~~Covered multifamily dwellings~~ "COVERED MULTIFAMILY DWELLINGS" as defined in Chapter 11A including, but not limited to, lodging houses, dormitories, timeshares, condominiums, shelters for homeless persons, congregate residences, apartment houses, dwellings, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations with or without common toilet or cooking facilities. Sections of this code identified in the Matrix Adoption Table by the abbreviation "HCD 1-AC" require specific accommodations for ~~"Persons with disabilities"~~ "PERSONS WITH DISABILITIES" as defined in Chapter 11A. The application of such provisions shall be in conjunction with other requirements of this code and apply only to newly constructed ~~"Covered multifamily dwellings"~~ "COVERED MULTIFAMILY DWELLINGS" as defined in Chapter 11A of the California Building Code. "HCD 1-AC" applications include, but are not limited to, the following:

1. All newly constructed ~~"Covered multifamily dwellings"~~ "COVERED MULTIFAMILY DWELLINGS" as defined in Chapter 11A.
2. New ~~"Common use areas"~~ "COMMON USE AREAS" as defined in Chapter 11A serving existing covered multifamily dwellings.
3. Additions to existing buildings, where the addition alone meets the definition of ~~"Covered multifamily dwellings"~~ "COVERED MULTIFAMILY DWELLINGS" as defined in Chapter 11A.
4. Common use areas serving covered multifamily dwellings.
5. Where any portion of a building's exterior is preserved, but the interior of the building is removed, including all structural portions of floors and ceilings, the building is considered a new building for determining the application of Chapter 11A.

"HCD 1-AC" building standards generally do not apply to public use areas or public accommodations such as hotels and motels. Public use areas, public accommodations and housing which is publicly funded as defined in Chapter 2 of this code are subject to the Division of the State Architect (DSA-AC) and are referenced in Section 1.9.1.

**Enforcing Agency** – Local building department or the Department of Housing and Community Development.

**Authority cited**—Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

**Reference** – Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

#### **1.8.2.1.3 Permanent buildings in mobilehome parks and special occupancy parks. Application**

**Application** – Permanent buildings, and permanent accessory buildings or structures, constructed within mobilehome parks and special occupancy parks that are under the control and ownership of the park operator. Sections of this code which pertain to applications listed in this section are identified in the ~~Matrix Adoption Table~~ using the abbreviation “HCD 2.”

**Enforcing Agency** – ~~The Department of Housing and Community Development, Local building department or other local agency responsible that has assumed responsibility for the enforcement of Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 for mobilehome parks and Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 for special occupancy parks or the Department of Housing and Community Development.~~

**Authority cited** - Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17821.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

**Reference** - Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

### **SECTION 1.8.3 LOCAL ENFORCING AGENCY**

**1.8.3.1 Duties and powers.** The building department of every city, county, or city and county shall enforce all the provisions of law, this code, and the other rules and regulations promulgated by the Department of Housing and Community Development pertaining to the installation, erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition or arrangement of apartment houses, hotels, motels, lodging houses and dwellings, including accessory buildings, facilities and uses thereto.

The provisions regulating the erection and construction of dwellings and appurtenant structures shall not apply to existing structures as to which construction is commenced or approved prior to the effective date of these regulations. Requirements relating to use, maintenance and occupancy shall apply to all dwellings and appurtenant structures approved for construction or constructed before or after the effective date of this code.

For additional information regarding the use and occupancy of existing buildings and appurtenant structures, see California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Article 1, Section 1.

**1.8.3.2 Laws, rules and regulations.** Other than the building standards contained in this code, and notwithstanding other provisions of law, the statutory authority and location of the laws, rules, and regulations to be enforced by local enforcing agencies are listed by statute in Sections 1.8.3.2.1 through 1.8.3.2.5 below:

**1.8.3.2.1 State Housing Law.** Refer to the State Housing Law, California Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1, for the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition or arrangement of apartment houses, hotels, motels, lodging houses and dwellings, including accessory buildings, facilities and uses thereto.

**1.8.3.2.2 Mobilehome Parks Act.** Refer to the Mobilehome Parks Act, California Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000 for mobilehome park administrative and enforcement authority, permits, plans, fees, violations, inspections and penalties both within and outside mobilehome parks.

**Exception:** Mobilehome parks where the Department of Housing and Community Development is the enforcing agency.

**1.8.3.2.3 Special Occupancy Parks Act.** Refer to the Special Occupancy Parks Act, California Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000 for special occupancy park administrative and enforcement authority, permits, fees, violations, inspections and penalties both within and outside of special occupancy parks.

**Exception:** Special occupancy parks where the Department of Housing and Community Development is the enforcing agency.

**1.8.3.2.4 Employee Housing Act.** Refer to the Employee Housing Act, California Health and Safety Code, Division 13, Part 1, commencing with Section 17000 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600 for employee housing administrative and enforcement authority, permits, fees, violations, inspections and penalties.

~~1.8.3.2.5~~ **1.8.3.2.5 Factory-Built Housing Law.** Refer to the Factory-Built Housing Law, California Health and Safety Code, Division 13, Part 6, commencing with Section 19960 and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000 for factory-built housing administrative and enforcement authority, permits, fees, violations, inspections and penalties.

#### **SECTION 1.8.4 PERMITS, FEES, APPLICATIONS AND INSPECTIONS**

**1.8.4.1 Permits.** A written construction permit shall be obtained from the enforcing agency prior to the erection, construction, reconstruction, installation, moving or alteration of any building or structure.

**Exceptions:**

1. Work exempt from permits as specified in Chapter 1, ~~Administration~~, Division II, Scope and Administration, Section 105.2.
2. Changes, alterations or repairs of a minor nature not affecting structural features, egress, sanitation, safety or accessibility as determined by the enforcing agency.

Exemptions from permit requirements shall not be deemed to grant authorization for any work to be done in any manner in violation of other provisions of law or this code.

**1.8.4.2 Fees.** Subject to other provisions of law, the governing body of any city, county, or city and county may prescribe fees to defray the cost of enforcement of rules and regulations promulgated by the Department of Housing and Community Development. The amount of the fees shall not exceed the amount reasonably necessary to administer or process permits, certificates, forms or other documents, or to defray the costs of enforcement. For additional information, see the State Housing Law, Health and Safety Code, Division 13, Part 1.5, Section 17951 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, Article 3, commencing with Section 6.

**1.8.4.3 Plan review and time limitations.** Subject to other provisions of law, provisions related to plan checking, prohibition of excessive delays and contracting with or employment of private parties to perform plan checking are set forth in the State Housing Law, Health and Safety Code Section 17960.1, and for employee housing, in Health and Safety Code Section 17021.

**1.8.4.3.1 Retention of plans.** The building department of every city, county, or city and county shall maintain an official copy, microfilm, electronic or other type of photographic copy of the plans of every building, during the life of the building, for which the department issued a building permit.

**Exceptions:**

1. Single or multiple dwellings not more than two stories and basement in height.
2. Garages and other structures appurtenant to buildings listed in Exception 1.
3. Farm or ranch buildings appurtenant to buildings listed in Exception 1.
4. Any one-story building where the span between bearing walls does not exceed 25 feet (7620 mm), except a steel frame or concrete building.

All plans for common interest developments as defined in Section 1351 of the California Civil Code shall be retained. For additional information regarding plan retention and reproduction of plans by an enforcing agency, see Health and Safety Code Sections 19850 through 19852.

**1.8.4.4 Inspections.** Construction or work for which a permit is required shall be subject to inspection by the building official and such construction or work shall remain accessible and exposed for inspection purposes until approved. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or other regulations of the Department of Housing and Community Development. Required inspections are listed in Chapter 1, ~~Administration~~, Division II, Scope and Administration, Sections 110.3.1 through 110.3.6, 110.3.8, 110.3.9 and 110.3.10.

### **SECTION 1.8.5**

#### **RIGHT-OF-ENTRY FOR ENFORCEMENT RIGHT OF ENTRY FOR ENFORCEMENT**

**1.8.5.1 General.** Subject to other provisions of law, officers and agents of the enforcing agency may enter and inspect public and private properties to secure compliance with the rules and regulations promulgated by the Department of Housing and Community Development. For limitations and additional information regarding enforcement, see the following:

1. For applications subject to the State Housing Law as referenced in Section 1.8.3.2.1 of this code, refer to Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.
2. For applications subject to the Mobilehome Parks Act as referenced in Section 1.8.3.2.2 of this code, refer to Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000.
3. For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3 of this code, refer to Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000.
4. For applications subject to the Employee Housing Act as referenced in Section 1.8.3.2.4 of this code, refer to Health and Safety Code, Division 13, Part 1, commencing with Section 17000 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600.
5. For applications subject to the Factory-Built Housing Law as referenced in Section 1.8.3.2.5 of this code, refer to Health and Safety Code, Division 13, Part 6, commencing with Sections 19960 and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000.

### **SECTION 1.8.6**

#### **LOCAL MODIFICATION BY ORDINANCE OR REGULATION**

**1.8.6.1 General.** Subject to other provisions of law, a city, county, or city and county may make changes to the provisions adopted by the Department of Housing and Community Development. If any city, county, or city and county does not amend, add or repeal by local ordinances or regulations the provisions published in this code or other regulations promulgated by the Department of Housing and Community Development, those provisions shall be applicable and shall become effective 180 days after publication by the California Building Standards Commission. Amendments, additions and deletions to this code adopted by a city, county, or city and county pursuant to California Health and Safety Code Sections 17958.5, 17958.7 and

18941.5, together with all applicable portions of this code, shall also become effective 180 days after publication of the California Building Standards Code by the California Building Standards Commission.

**1.8.6.2 Findings, filings and rejections of local modifications.** Prior to making any modifications or establishing more restrictive building standards, the governing body shall make express findings and filings, as required by California Health and Safety Code Section 17958.7, showing that such modifications are reasonably necessary due to local climatic, geological, or topographical conditions. No modification shall become effective or operative unless the following requirements are met:

1. The express findings shall be made available as a public record.
2. A copy of the modification and express finding, each document marked to cross-reference the other, shall be filed with the California Building Standards Commission for a city, county, or city and county and with the Department of Housing and Community Development for fire protection districts.
3. The California Building Standards Commission has not rejected the modification or change.

Nothing in this section shall limit the authority of fire protection districts pursuant to California Health and Safety Code Section 13869.7(a).

### **SECTION 1.8.7 ALTERNATE MATERIALS, DESIGNS, TESTS AND METHODS OF CONSTRUCTION**

**1.8.7.1 General.** The provisions of this code, as adopted by the Department of Housing and Community Development, are not intended to prevent the use of any alternate material, appliance, installation, device, arrangement, design or method of construction not specifically prescribed by this code. Consideration and approval of alternates shall comply with Section 1.8.7.2 for local building departments and Section 1.8.7.3 for the Department of Housing and Community Development.

**1.8.7.2 Local building departments.** The building department of any city, county, or city and county may approve alternates for use in the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition or arrangement of an apartment house, hotel, motel, lodging house, dwelling, or an accessory structure, except for the following:

1. Structures located in mobilehome parks as defined in California Health and Safety Code Section 18214.
2. Structures located in special occupancy parks as defined in California Health and Safety Code Section 18862.43.
3. Factory-built housing as defined in California Health and Safety Code Section 19971.

**1.8.7.2.1 Approval of alternates.** The consideration and approval of alternates by a local building department shall comply with the following procedures and limitations:

1. The approval shall be granted on a case-by-case basis.
2. Evidence shall be submitted to substantiate claims that the proposed alternate, in performance, safety and protection of life and health, conforms to, or is at least equivalent to, the standards contained in this code and other rules and regulations promulgated by the Department of Housing and Community Development.
3. The local building department may require tests performed by an approved testing agency at the expense of the owner or owner's agent as proof of compliance.
4. If the proposed alternate is related to accessibility in covered multifamily dwellings or in facilities serving "~~Covered multifamily dwellings~~" "**COVERED MULTIFAMILY DWELLINGS**" as defined in Chapter 11A, the proposed alternate must also meet the threshold set for "~~Equivalent facilitation~~" "**EQUIVALENT FACILITATION**" as defined in Chapter 11A.

For additional information regarding approval of alternates by a building department pursuant to the State Housing Law, see California Health and Safety Code Section 17951(e) and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1.

**1.8.7.3 Department of Housing and Community Development.** The Department of Housing and Community Development may approve alternates for use in the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal or demolition of an apartment house, hotel, motel, lodging house, dwelling or an accessory thereto and permanent buildings in mobilehome parks and special occupancy parks. The consideration and approval of alternates shall comply with the following:

1. The department may require tests at the expense of the owner or owner's agent to substantiate compliance with the California Building Standards Code.
2. The approved alternate shall, for its intended purpose, be at least equivalent- in performance and safety to the materials, designs, tests or methods of construction prescribed by this code.

### **SECTION 1.8.8 APPEALS BOARD**

**1.8.8.1 General.** Every city, county, or city and county shall establish a process to hear and decide appeals of orders, decisions, and determinations made by the enforcing agency relative to the application and interpretation of this code and other regulations governing use, maintenance and change of occupancy. The governing body of any city, county, or city and county may establish a local appeals board and a housing appeals board to serve this purpose. Members of the appeals board(s) shall not be employees of the enforcing agency and shall be knowledgeable in the applicable building codes, regulations and ordinances as determined by the governing body of the city, county, or city and county.

Where no such appeals boards or agencies have been established, the governing body of the city, county, or city and county shall serve as the local appeals board or housing appeals board as specified in California Health and Safety Code Sections 17920.5 and 17920.6.

**1.8.8.2 Definitions.** The following terms shall for the purposes of this section have the meaning shown.

**HOUSING APPEALS BOARD.** The board or agency of a city, county, or city and county which is authorized by the governing body of the city, county, or city and county to hear appeals regarding the requirements of the city, county, or city and county relating to the use, maintenance and change of occupancy of buildings and structures, including requirements governing alteration, additions, repair, demolition and moving. In any area in which there is no such board or agency, "Housing appeals board" means the local appeals board having jurisdiction over the area.

**LOCAL APPEALS BOARD.** The board or agency of a city, county, or city and county which is authorized by the governing body of the city, county, or city and county to hear appeals regarding the building requirements of the city, county, or city and county. In any area in which there is no such board or agency, "Local appeals board" means the governing body of the city, county, or city and county having jurisdiction over the area.

**1.8.8.3 Appeals.** Except as otherwise provided in law, any person, firm or corporation adversely affected by a decision, order or determination by a city, county, or city and county relating to the application of building standards published in the California Building Standards Code, or any other applicable rule or regulation adopted by the Department of Housing and Community Development, or any lawfully enacted ordinance by a city, county, or city and county, may appeal the issue for resolution to the local appeals board or housing appeals board as appropriate.

The local appeals board shall hear appeals relating to new building construction and the housing appeals board shall hear appeals relating to existing buildings.

**SECTION 1.8.9  
UNSAFE BUILDINGS OR STRUCTURES**

**1.8.9.1 Authority to enforce.** Subject to other provisions of law, the administration, enforcement, actions, proceedings, abatement, violations and penalties for unsafe buildings and structures are contained in the following statutes and regulations:

1. For applications subject to the State Housing Law as referenced in Section 1.8.3.2.1 of this code, refer to Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.
2. For applications subject to the Mobilehome Parks Act as referenced in Section 1.8.3.2.2 of this code, refer to Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000.
3. For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3 of this code, refer to Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000.
4. For applications subject to the Employee Housing Act as referenced in Section 1.8.3.2.4 of this code, refer to Health and Safety Code, Division 13, Part 1, commencing with Section 17000 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600.
5. For applications subject to the Factory-Built Housing Law as referenced in Section 1.8.3.2.5 of this code, refer to Health and Safety Code, Division 13, Part 6, commencing with Section 19960 and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000.

**1.8.9.2 Actions and proceedings.** Subject to other provisions of law, punishments, penalties and fines for violations of building standards are contained in the following statutes and regulations:

1. For applications subject to the State Housing Law as referenced in Section 1.8.3.2.1 of this code, refer to Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.
2. For applications subject to the Mobilehome Parks Act as referenced in Section 1.8.3.2.2 of this code, refer to Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000.
3. For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3 of this code, refer to Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000.
4. For applications subject to the Employee Housing Act as referenced in Section 1.8.3.2.4 of this code, refer to Health and Safety Code, Division 13, Part 1, commencing with Section 17000 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600.
5. For applications subject to the Factory-Built Housing Law as referenced in Section 1.8.3.2.5 of this code, refer to Health and Safety Code, Division 13, Part 6, commencing with Section 19960 and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000.

**SECTION 1.8.10  
OTHER BUILDING REGULATIONS**

**1.8.10.1 Existing structures.** Subject to the requirements of California Health and Safety Code Sections 17912, 17920.3, 17922, 17922.3, 17958.8 and 17958.9, the provisions contained in Chapter 34 relating to existing structures shall only apply as identified in the Matrix Adoption Table under the authority of the Department of Housing and Community Development as listed in Sections 1.8.2.1.1 through 1.8.2.1.3 of this code.

**1.8.10.2 Moved structures.** Subject to the requirements of California Health and Safety Code Sections 17922.3 and 17958.9, the provisions contained in Chapter 34 relating to a moved residential structure shall only apply as identified in the Matrix Adoption Table under the authority of the Department of Housing and Community Development as listed in Sections 1.8.2.1.1 through 1.8.2.1.3 of this code.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**52. HCD proposes to bring forward existing California Amendments in Chapter 2 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 2  
DEFINITIONS**

**SECTION 202  
DEFINITIONS**

**ACCESSIBLE ROUTE.** ~~A continuous, unobstructed path that complies with Chapter 11.~~

*(HCD 1-AC) See Chapter 11A, Section 1107A.1-A.*

**ACCESSIBLE UNIT.** ~~A dwelling unit or sleeping unit that complies with this code and the provisions for Accessible units in ICC A117.1.~~

**ADAPTABLE DWELLING UNIT. (HCD 1-AC)** *See Chapter 11A, Section 1107A.1-A.*

**APPROVED AGENCY.** An established and recognized agency regularly engaged in conducting tests or furnishing inspection services, when such agency has been approved.

*(HCD 1 & HCD 2) "Approved agency" shall mean "Listing agency" and "Testing agency" (See Chapter 2 definitions).*

**APPROVED LISTING AGENCY. (HCD 1 & HCD 2)** *Any agency approved by the enforcing agency, unless otherwise provided by law, which is in the business of listing and labeling and which makes available at least an annual published report of such listings in which specific information is included that the product has been tested to recognized standards and found to comply.*

**APPROVED TESTING AGENCY. (HCD 1 & HCD 2)** *Any agency, which is determined by the enforcing agency, except as otherwise provided by law, to have adequate personnel and expertise to carry out the testing of systems, materials, types of construction, fixtures or appliances.*

**ASSISTIVE DEVICE. (HCD 1-AC)** *See Chapter 11A, Section 1107A.1-A.*

**BATHROOM. (HCD 1-AC)** *See Chapter 11A, Section 1107A.1-B*

**BUILDING.** Any structure used or intended for supporting or sheltering any use or occupancy.

*Exception: (HCD 1, HCD 2 & HCD 1-AC) For applications listed in Section 1.8.2 regulated by the Department of Housing and Community Development, "Building" shall not include the following:*

1. Any mobilehome as defined in Health and Safety Code Section 18008.
2. Any manufactured home as defined in Health and Safety Code Section 18007.
3. Any commercial modular as defined in Health and Safety Code Section 18001.8 or any special purpose commercial modular as defined in Section 18012.5.
4. Any recreational vehicle as defined in Section Health and Safety Code 18010.
5. Any multifamily manufactured home as defined in Health and Safety Code Section 18008.7.

For additional information, see Health and Safety Code Section 18908.

Note: Building shall have the same meaning as defined in Health and Safety Code section 17920 and 18908 for the applications specified in Section 1.11.

**BUILDING, EXISTING. (HCD 1 & HCD 2)** A building erected prior to the adoption of this code, or one for which a legal building permit has been issued.

**BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE. (HCD 1-AC)** See Chapter 11A, Section 1107A.1-B

~~**COMMON USE.** Interior or exterior circulation paths, rooms, spaces or elements that are not for public use and are made available for the shared use of two or more people.~~

**COVERED MULTIFAMILY DWELLINGS. (HCD 1-AC)** See Chapter 11A, Section 1107A.3-C.

**DEPARTMENT. (HCD 1 & HCD 2)** The Department of Housing and Community Development.

**DIRECTIONAL SIGN. (HCD 1 & HCD 2)** A publicly displayed notice which indicates by use of words or symbols a recommended direction or route of travel.

**EFFICIENCY DWELLING UNIT. (HCD 1)** A dwelling unit containing only one habitable room and includes an efficiency unit as defined by Health and Safety Code Section 17958.1. See Section 1208.4.

**ELEVATOR, PASSENGER. (HCD 1 & HCD 2)** See "PASSENGER ELEVATOR."

**ENFORCEMENT. (HCD 1 & HCD 2)** The applicable section of the Health and Safety Code is repeated here for clarity and reads as follows:

**Section 17920.** "Enforcement" means diligent effort to secure compliance, including review of plans and permit applications, response to complaints, citation of violations, and other legal process. Except as otherwise provided in this part, "enforcement" may, but need not, include inspections of existing buildings on which no complaint or permit application has been filed, and effort to secure compliance as to these existing buildings.

**ENFORCING AGENCY. (HCD 1 & HCD 2)** The designated department or agency as specified by statute or regulation.

**FAMILY (HCD 1)** is a An individual or two or more persons who are related by blood or marriage; or otherwise live together in a dwelling unit.

**GRADE (Adjacent Ground Elevation) (HCD 1-AC)** is 1 The lowest point of elevation of the finished surface of the ground, paving or sidewalk within the area between the building and the property line or, when the property line is more than 5 feet (1524 mm) from the building, between the building and a line 5 feet (1524 mm) from the building. See Health and Safety Code Section 19955.3(d).

**GROUND FLOOR. (HCD 1-AC)** See Chapter 11A, Section 1107A.7-G.

**GUARD (HCD 1 & HCD 2) OR GUARDRAIL.** A building component or a system of building components located at or near the open sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface to a lower level.

**HOTEL OR MOTEL. (HCD 1 & HCD 2)** ~~is a~~ Any building containing six or more guest rooms intended or designed to be used, or which are used, rented or hired out to be occupied, or which are occupied for sleeping purposes by guests.

**INTENDED TO BE OCCUPIED AS A RESIDENCE.** This refers to a dwelling unit or sleeping unit that can or will be used all or part of the time as the occupant's place of abode.

**LABELED.** Equipment, materials or products to which have been affixed a label, seal, symbol or other identifying mark of a nationally recognized testing laboratory, inspection agency or other organization concerned with product evaluation that maintains periodic inspection of the production of the above-labeled items and whose labeling indicates either that the equipment, material or product meets identified standards or has been tested and found suitable for a specified purpose.

**(HCD 1 & HCD 2)** "Labeled" means equipment or materials to which has been attached a label, symbol or other identifying mark of an organization, approved by the Department, that maintains a periodic inspection program of production of labeled products, installations, equipment, or materials and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.

**LISTED.** Equipment, materials, products or services included in a list published by an organization acceptable to the code official and concerned with evaluation of products or services that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services and whose listing states either that the equipment, material, product or service meets identified standards or has been tested and found suitable for a specified purpose.

**(HCD 1 & HCD 2)** "Listed" means all products that appear in a list published by an approved testing or listing agency. For additional information, see Health and Safety Code Section 17920(h).

**LISTING AGENCY. (HCD 1 & HCD 2)** An agency approved by the department that is in the business of listing and labeling products, materials, equipment and installations tested by an approved testing agency, and that maintains a periodic inspection program on current production of listed products, equipment and installations, and that, at least annually, makes available a published report of these listings. For additional information, see Health and Safety Code Section 17920(i).

**LOBBY. (HCD 1 & HCD 2)** An area not defined as a waiting room at the entrance of a building through which persons must pass.

**LODGING HOUSE. (HCD 1)** Any building or portion thereof containing not more than five guest rooms where rent is paid in money, goods, labor or otherwise.

**MOTEL. (HCD 1 & HCD 2)** See Hotel or Motel.

**MULTILEVEL ASSEMBLY SEATING.** Seating that is arranged in distinct levels where each level is comprised of either multiple rows, or a single row of box seats accessed from a separate level.

**MULTISTORY DWELLING UNIT. (HCD 1-AC)** See Chapter 11A, Section 1107A.13-M.

**MULTISTORY UNITS.** A dwelling unit or sleeping unit with habitable space located on more than one story.

**NEWLY CONSTRUCTED. (HCD 1-AC)** See Chapter 11A, Section 1107A.14-N.

**NORMAL. (HCD 1 & HCD 2)** Conforming to a pattern or standard regarded as usual or typical.

**PASSENGER ELEVATOR. (HCD 1 & HCD 2)** "Passenger Elevator" is an elevator used primarily to carry persons. For additional information, see California Code of Regulations, Title 8, Division 1, Chapter 4.

**PASSIVE SOLAR ENERGY COLLECTOR. (HCD 1 & HCD 2)** Uses architectural components, rather than mechanical components, to provide heating or cooling for a building interior.

**PERSONS WITH DISABILITIES. (HCD 1-AC)** See Chapter 11A, Section 1107A.16-P.

**POWDER ROOM. (HCD1-AC)** See Chapter 11A, Section 1107A.16-P.

**PRIMARY ENTRY. (HCD 1-AC)** See Chapter 11A, Section 1107A.16-P.

**PRIMARY ENTRY LEVEL. (HCD 1-AC)** See Chapter 11A, Section 1107A.16-P.

**PUBLIC ACCOMMODATION. (DSA-AC, HCD 1 & HCD 2)** Includes, but is not limited to, any public use building or facility that may be classified into one or more of the following categories:

1. Places of public lodging.
2. Establishments serving food or drink open to public use.
3. Places of exhibition or entertainment open to public use.
4. Places of public gathering.
5. Sales or rental establishments open to public use.
6. Service establishments open to public use.
7. Stations used for public transportation.
8. Places of public display or collection.
9. Places of public recreation.
10. Places of public education.
11. Social service center establishments open to public use.
12. Places of exercise or recreation open to public use.

Examples of public accommodations for purposes of this code shall include, but not be limited to, the following private entities:

1. An inn, hotel, motel or other place of public lodging, except for a lodging house located within a building that contains not more than five rooms for rent or hire and that is actually occupied by the proprietor of such establishment as the residence of such proprietor.
2. A restaurant, bar or other establishment serving food or drink.
3. A motion picture house, theater, concert hall, stadium or other place of exhibition or entertainment.
4. An auditorium, convention center, lecture hall or other place of public gathering.
5. A bakery, grocery store, clothing store, hardware store, shopping center, or other sales or rental establishment.
6. A laundromat, dry cleaner, bank, barber shop, beauty shop, travel service, shoe repair service, funeral parlor, gas station, office of an accountant or lawyer, pharmacy, insurance office, professional office of a health care provider, hospital or other service establishment.
7. A terminal, depot or other station used for specified public transportation.
8. A museum, library, gallery or other place of public display or collection.
9. A park, zoo, amusement park or other place of recreation.
10. A nursery, elementary, secondary, undergraduate or postgraduate private school, or other place of education.
11. A day care center, senior citizen center, homeless shelter, food bank, adoption agency or other social service center establishment.
12. A gymnasium, health spa, bowling alley, golf course or other place of exercise.
13. A church.
14. An office building.
15. A public curb or sidewalk.

**RECOMMEND. (HCD 1 & HCD 2)** Does not require mandatory acceptance, but identifies a suggested action that shall be considered for the purpose of providing a greater degree of accessibility to persons with disabilities.

**SELF-SERVICE STORAGE FACILITY.** Real property designed and used for the purpose of renting or leasing individual storage spaces to customers for the purpose of storing and removing personal property on a self-service basis.

**SHOULD. (HCD 1 & HCD 2)** See "Recommend."

**SINGLE-ACCOMMODATION SANITARY FACILITY. (HCD 1-AC)** A room that has not more than one of each type of sanitary fixture, is intended for use by only one person at a time, has no partition around the toilet, and has a door that can be locked on the inside by the room occupant.

**SITE DEVELOPMENT. (HCD 1-AC)** "On-site" and "off-site" work, including, but not limited to, walks, sidewalks, ramps, curbs, curb ramps, parking facilities, stairs, planting areas, pools, promenades, exterior gathering or assembly areas and raised or depressed paved areas.

**SLOPE. (HCD 1-AC)** See Chapter 11A, Section 1107A.19-S.

**SPACE. (HCD 2)** A definable area, e.g., a room, toilet room, hall, assembly area, entrance, storage room, alcove, courtyard, or lobby.

**TACTILE. (HCD 1-AC)** Describes an object that can be perceived using the sense of touch.

**TESTING AGENCY. (HCD 1 & HCD 2)** An agency approved by the department as qualified and equipped for testing of products, materials, equipment and installations in accordance with nationally recognized standards. For additional information, see Health and Safety Code Section 17920(m).

**TYPE A UNIT.** A dwelling unit or sleeping unit designed and constructed for accessibility in accordance with this code and the provisions for Type A units in ICC A117.1.

**TYPE B UNIT.** A dwelling unit or sleeping unit designed and constructed for accessibility in accordance with this code and the provisions for Type B units in ICC A117.1, consistent with the design and construction requirements of the federal Fair Housing Act.

**VEHICULAR OR PEDESTRIAN ARRIVAL POINTS. (HCD 1-AC)** See Chapter 11A, Section 1107.22-V.

**WHEELCHAIR. (HCD 1-AC)** A chair mounted on wheels to be propelled by its occupant manually or with the aid of electric power, of a size and configuration conforming to the recognized standard models of the trade.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**53. HCD proposes to bring forward existing California Amendments in Chapter 3 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 3  
USE AND OCCUPANCY CLASSIFICATION**

**SECTION 302  
CLASSIFICATION**

**302.1 General.** Structures or portions of structures shall be classified with respect to occupancy in one or more of the groups listed in this section. A room or space that is intended to be occupied at different times for different purposes shall comply with all of the requirements that are applicable to each of the purposes for which the room or space will be occupied. Structures with multiple occupancies or uses shall comply with Section 508. Where a structure is proposed for a purpose that is not specifically provided for in this code, such structure shall be classified in the group that the occupancy most nearly resembles, according to the fire safety and relative hazard involved.

1. Assembly (see Section 303): Groups A-1, A-2, A-3, A-4 and A-5
2. Business (see Section 304): Group B
3. Educational (see Section 305): Group E
4. Factory and Industrial (see Section 306): Groups F-1 and F-2

5. High Hazard (see Section 307): Groups H-1, H-2, H-3, H-4 and H-5
6. Institutional (see Section 308): Groups I-1, I-2, I-3 and I-4
7. (SFM) Laboratory (see Section 202): Group B, unless classified as Group L (see Section 443) or Group H (see Section 307).
8. Mercantile (see Section 309): Group M
9. (SFM) Organized Camps (see Section 440): Group C10.
10. (SFM) Research Laboratories (see Section 443): Group L
11. Residential (see Section 310): Groups R-1, R-2, R-2.1, R-3, R-3.1 and R-4
12. Storage (see Section 311): Groups S-1 and S-2
13. Utility and Miscellaneous (see Section 312): Group U

## SECTION 305 EDUCATIONAL GROUP E

**305.2.3 Five or fewer children in a dwelling unit.** A facility such as the above within a dwelling unit and having five or fewer children receiving such day care shall be classified as a Group R-3 occupancy or shall comply with the *International California Residential Code*.

## SECTION 310 RESIDENTIAL GROUP R

**310.1 Residential Group R.** Residential Group R includes, among others, the use of a building or structure, or a portion thereof, for sleeping purposes when not classified as an Institutional Group I or when not regulated by the *International California Residential Code*.

**310.3 Residential Group R-1.** Residential occupancies containing sleeping units where the occupants are primarily transient in nature, including:

- Boarding houses (transient) with more than 10 occupants
- Congregate living facilities (SFM - Congregate residences) (transient) with more than 10 occupants
- Hotels (transient)
- Motels (transient)
- (HCD 1) Efficiency dwelling units (transient)

**310.4 Residential Group R-2.** Residential occupancies containing sleeping units or more than two dwelling units where the occupants are primarily permanent in nature, including:

- Apartment houses
- Boarding houses (nontransient) with more than 16 occupants
- Congregate living facilities (SFM - Congregate residences) (nontransient) with more than 16 occupants
- Convents
- Dormitories
- Fraternities and sororities
- Hotels (nontransient)
- Live/work units
- Monasteries
- Motels (nontransient)
- Vacation timeshare properties
- (HCD 1) Efficiency dwelling units (nontransient)

**310.5 Residential Group R-3.** Residential occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-2.1, R-3.1, R-4 or I, including:

- Buildings that do not contain more than two dwelling units
- Boarding houses (nontransient) with 16 or fewer occupants
- Boarding houses (transient) with 10 or fewer occupants
- Care facilities that provide accommodations for ~~five-six~~ or fewer persons clients receiving care
- Congregate living facilities (SFM - Congregate residences) (nontransient) with 16 or fewer occupants
- Congregate living facilities (SFM - Congregate residences) (transient) with 10 or fewer occupants
- (HCD 1) Efficiency dwelling units.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**54. HCD proposes to bring forward existing California Amendments in Chapter 4 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 4  
SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY**

**SECTION 406  
MOTOR-VEHICLE-RELATED OCCUPANCIES**

**406.3.5 (Formerly 406.1.5) Automatic garage door openers.** Automatic garage door openers, if provided, shall be listed in accordance with UL 325. *See Health and Safety Code Sections 19890 and 19891 for additional provisions for residential garage door openers.*

**406.6.2 (Formerly 406.4.2) Ventilation.** A mechanical ventilation system shall be provided in accordance with the ~~International~~ *California Mechanical Code*.

**406.8.2 (Formerly 406.6.3) Ventilation.** Repair garages shall be mechanically ventilated in accordance with the ~~International~~ *California Mechanical Code*. The ventilation system shall be controlled at the entrance to the garage

**406.8.4 (Formerly 406.6.5) Heating equipment.** Heating equipment shall be installed in accordance with the ~~International~~ *California Mechanical Code*.

**SECTION 409  
MOTION PICTURE PROJECTION ROOMS**

**409.3 Projection room and equipment ventilation.** Ventilation shall be provided in accordance with the ~~International~~ *California Mechanical Code*.

**SECTION 414  
HAZARDOUS MATERIALS**

**414.1.2 Materials.** The safe design of hazardous material occupancies is material dependent. Individual material requirements are also found in Sections 307 and 415, and in the ~~International~~ *California Mechanical Code* and the ~~International~~ *California Fire Code*.

**414.3 Ventilation.** Rooms, areas or spaces of Group H in which explosive, corrosive, combustible, flammable or highly toxic dusts, mists, fumes, vapors or gases are or may be emitted due to the processing, use, handling or storage of materials shall be mechanically ventilated as required by the *International Fire Code* and the ~~International~~ *California Mechanical Code*.

Ducts conveying explosives or flammable vapors, fumes or dusts shall extend directly to the exterior of the building without entering other spaces. Exhaust ducts shall not extend into or through ducts and plenums.

**Exception:** Ducts conveying vapor or fumes having flammable constituents less than 25 percent of their lower flammable limit (LFL) are permitted to pass through other spaces.

Emissions generated at workstations shall be confined to the area in which they are generated as specified in the *International Fire Code* and the ~~International~~ *California Mechanical Code*.

The location of supply and exhaust openings shall be in accordance with the ~~International~~ *California Mechanical Code*. Exhaust air contaminated by highly toxic material shall be treated in accordance with the ~~International~~ *California Fire Code*.

## SECTION 415 GROUPS H-1, H-2, H-3, H-4 AND H-5

**415.8.1.4 (Formerly 415.6.1.4) Explosion control.** Explosion control shall be provided as specified in the *International Fire Code*, or spaces shall be equipped with the equivalent mechanical ventilation complying with the ~~International~~ *California Mechanical Code*.

**415.8.2 (Formerly 415.6.2) Flammable and combustible liquids.** The storage, handling, processing and transporting of flammable and combustible liquids in Group H-2 and H-3 occupancies shall be in accordance with Sections 415.6.2.1 through 415.6.2.10, the ~~International~~ *California Mechanical Code* and the ~~International~~ *California Fire Code*.

**415.8.2.7 (Formerly 415.6.2.8) Room ventilation.** Storage tank areas storing Class I, II or IIIA liquids shall be provided with mechanical ventilation. The mechanical ventilation system shall be in accordance with the ~~International~~ *California Mechanical Code* and the ~~International~~ *California Fire Code*.

**415.8.3 (Formerly 415.6.3) Liquefied petroleum gas facilities.** The construction and installation of liquefied petroleum gas facilities shall be in accordance with the requirements of this code, the ~~International~~ *California Fire Code*, the ~~International~~ *California Mechanical Code*, the ~~International Fuel Gas~~ *California Plumbing Code* and NFPA 58.

**415.8.4 (Formerly 415.6.4) Dry cleaning plants.** The construction and installation of dry cleaning plants shall be in accordance with the requirements of this code, the ~~International~~ *California Mechanical Code*, the ~~International~~ *California Plumbing Code* and NFPA 32. Dry cleaning solvents and systems shall be classified in accordance with the *International Fire Code*.

**415.10.11 (Formerly 415.8.11.1) Automatic sprinkler system protection in exhaust ducts for HPM.** An approved automatic sprinkler system shall be provided in exhaust ducts conveying gases, vapors, fumes, mists or dusts generated from HPM in accordance with Sections 415.10.11.1 through 415.10.11.3 and the ~~International~~ *California Mechanical Code*.

## SECTION 416 APPLICATION OF FLAMMABLE FINISHES

**416.2.2 Ventilation.** Mechanical ventilation and interlocks with the spraying operation shall be in accordance with the ~~International~~ *California Mechanical Code*.

**416.3 Spraying spaces.** Spraying spaces shall be ventilated with an exhaust system to prevent the accumulation of flammable mist or vapors in accordance with the ~~International~~ *California Mechanical Code*. Where such spaces are not separately enclosed, noncombustible spray curtains shall be provided to restrict the spread of flammable vapors.

## SECTION 417 DRYING ROOMS

**417.1 General.** A drying room or dry kiln installed within a building shall be constructed entirely of approved noncombustible materials or assemblies of such materials regulated by the approved rules or as required in the general and specific sections of this chapter for special occupancies and where applicable to the general requirements of the ~~International~~ *California Mechanical Code*.

**SECTION 419  
LIVE/WORK UNITS**

**419.8 Ventilation.** The applicable ventilation requirements of the ~~International~~ California Mechanical Code shall apply to each area within the live/work unit for the function within that space.

**SECTION 420  
GROUPS I-1, R-1, R-2, R-3**

**420.4 420.6 Carbon monoxide alarms. (HCD1, HCD2 & HCD1-AC)**

**420.4.1 420.6.1 Carbon monoxide alarms in new construction.** Newly constructed Group R occupancies located in a building containing a fuel-burning appliance or a building that has an attached garage shall be equipped with single station carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions. An open parking garage, as defined in the California Building Code, or an enclosed parking garage ventilated in accordance with the California Mechanical Code shall not be deemed to be an attached garage.

**Exception:** Sleeping units or dwelling units that do not themselves contain a fuel-burning appliance or have an attached garage, but that are located in a building with a fuel-burning appliance or an attached garage, need not be provided with single station carbon monoxide alarms provided that:

1. The sleeping unit or dwelling unit is located more than one story above or below any story that contains a fuel-burning appliance or an attached garage; and
2. The sleeping unit or dwelling unit is not connected by duct work or ventilation shafts to any room containing a fuel-burning appliance or to an attached garage; and
3. The building is equipped with a common area carbon monoxide detection system that includes all enclosed common area spaces.

**420.4.1.1 420.6.1.1 Carbon monoxide detection systems.** Carbon monoxide detection systems that include carbon monoxide detectors and audible notification appliances installed and maintained in accordance with this section for carbon monoxide alarms and NFPA 720 shall be permitted. The carbon monoxide detectors shall be listed as complying with UL 2075.

**420.4.1.2 420.6.1.2 Power supply.** Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with a battery back-up. Alarm wiring shall be directly connected to the permanent building wiring without a disconnecting switch other than as required for overcurrent protection.

**Exceptions:**

1. Where there is no commercial power supply, the carbon monoxide alarm may be solely battery operated.
2. Other power sources recognized for use by NFPA 720.

**420.4.1.3 420.6.1.3 Interconnection.** Where more than one carbon monoxide alarm is required to be installed within the dwelling unit or within a sleeping unit, the alarm shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.

**420.4.1.4 420.6.1.4 Alarm requirements.** No person shall install, market, distribute, offer for sale, or sell any carbon monoxide device in the State of California unless the device and instructions have been approved and listed by the State Fire Marshal.

Carbon monoxide alarms required by Section ~~420.4.1~~ 420.6.1 shall be installed and maintained in the following locations:

1. Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s).
2. On every level of a dwelling unit including basements.
3. Group R-1 Occupancies only.
  - a. On the ceiling of every sleeping unit or other locations within the sleeping unit in compliance with the manufacturer's installation instructions.

**420.4.1.5 420.6.1.5 Multiple-purpose alarms.** Carbon monoxide alarms combined with smoke alarms shall comply with Section ~~420.4~~ 420.6, all applicable standards, and requirements for listing and approval by the Office of the State Fire Marshal, for smoke alarms.

**420.4.1.6 420.6.1.6 Visible alarms.** In buildings containing covered multifamily dwellings as defined in Chapter 11A, with fuel-burning appliances and/or attached garages as described in Section ~~420.4.1~~ 420.6.1, all required carbon monoxide alarms shall be equipped with the capability to support visible alarm notification in accordance with NFPA 720 ~~and Chapter 11B~~.

**420.4.2 420.6.2 Carbon monoxide alarms in existing dwellings or sleeping units.** Existing Group R occupancies located in a building with a fossil fuel-burning heater or appliance, fireplace or an attached garage shall have single station carbon monoxide alarms installed in accordance with this section. The carbon monoxide alarms shall be listed as complying with UL 2034 and be installed and maintained in accordance with NFPA 720 and the manufacturer's instructions.

An open parking garage, as defined in the California Building Code, or an enclosed parking garage ventilated in accordance with the California Mechanical Code shall not be deemed to be an attached garage.

**Exception:** Sleeping units or dwelling units that do not themselves contain a fossil fuel-burning heater or appliance, fireplace or an attached garage, but that are located in a building with a fossil fuel-burning appliance or an attached garage, need not be provided with single station carbon monoxide alarms provided that:

1. The sleeping unit or dwelling unit is located more than one story above or below any story that contains a fuel-burning appliance or an attached garage; and
2. The sleeping unit or dwelling unit is not connected by duct work or ventilation shafts to any room containing a fuel-burning appliance or to an attached garage; and
3. The building is equipped with a common area carbon monoxide detection system, carbon monoxide detector or combination detector in the same space as permanently installed fuel-burning appliance(s).

**420.4.2.1 420.6.2.1 Carbon monoxide detection systems.** Carbon monoxide detection systems that include carbon monoxide detectors and audible notification appliances, installed and maintained in accordance with this section for carbon monoxide alarms and NFPA 720 shall be permitted. The carbon monoxide detectors shall be listed as complying with UL 2075.

**420.4.2.2 420.6.2.2 Existing dwellings or sleeping units requiring a permit.** When a permit is required for alterations, repairs or additions with a total cost or calculated valuation exceeding one thousand dollars (\$1,000), existing dwellings or sleeping units with a fossil fuel-burning heater or appliance, fireplace or an attached garage shall have a carbon monoxide alarm installed in accordance with Section ~~420.4.2~~ 420.6.2. Carbon monoxide alarms shall only be required in the specific dwelling unit or sleeping unit for which the permit was obtained.

**420.4.2.3 420.6.2.3 Existing dwellings or sleeping units not requiring a permit (no construction taking place).** Pursuant to Health and Safety Code Section 17926, a carbon monoxide alarm(s) shall be installed in every existing dwelling unit or sleeping unit with a fossil fuel-burning heater or appliance, fireplace or an attached garage as follows:

**420.4.3.1 420.6.2.3.1 Carbon monoxide alarms on or after July 1, 2011.** Carbon monoxide alarms shall be installed in accordance with Section ~~420.4.2~~ 420.6.2 in existing detached single-family dwellings or sleeping units intended for human occupancy that have a fossil fuel-burning heater or appliance, fireplace or an attached garage. Carbon monoxide alarms in existing buildings are permitted to be solely battery operated or plug-in type with battery back-up in areas where no construction is taking place.

**420.4.2.3.2 420.6.2.3.2 Carbon monoxide alarms on or after January 1, 2013.** Carbon monoxide alarms shall be installed in accordance with Section ~~420.4.2~~ 420.6.2 in all other existing dwelling units intended for human occupancy as defined in Health and Safety Code Section 13262(b) that have a fossil fuel-burning heater or appliance, fireplace or an attached garage. Carbon monoxide alarms in existing buildings are permitted to be solely battery operated or plug-in type with battery back-up in areas where no construction is taking place.

**420.4.2.4 420.6.2.4 Power supply.** Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be equipped with battery back-up. Alarm wiring shall be directly connected to the permanent building wiring without a disconnecting switch other than as required for overcurrent protection.

**Exceptions:**

1. In existing dwelling units where there is no commercial power supply, the carbon monoxide alarm may be solely battery operated.
2. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated or plug-in with a battery backup where repairs or alterations do not result in the removal of wall and ceiling finishes.
3. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated or plug-in with battery backup where repairs or alterations are limited to the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck.
4. In existing dwelling units, a carbon monoxide alarm is permitted to be solely battery operated or plug-in with battery backup when work is limited to the installation, alteration or repair of plumbing or mechanical systems or the installation, alteration or repair of electrical systems, which do not result in the removal of interior wall or ceiling finishes exposing the structure.
5. Other power sources recognized for use by NFPA 720.

**420.4.2.5 420.6.2.5 Interconnection.** Where more than one carbon monoxide alarm is required to be installed within the dwelling unit or within a sleeping unit, the alarm shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.

**Exceptions:**

1. In existing dwelling units or within sleeping units, interconnection is not required where repairs do not result in the removal of wall and ceiling finishes and no previous method for interconnection existed.
2. In existing dwelling units, carbon monoxide alarms are not required to be interconnected where no construction is taking place.
3. In existing dwelling units, carbon monoxide alarms are not required to be interconnected where repairs or alterations are limited to the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck.
4. In existing dwelling units, carbon monoxide alarms are not required to be interconnected when work is limited to the installation, alteration or repair of plumbing or mechanical systems or the installation, alteration or repair of electrical systems, which do not result in the removal of interior wall or ceiling finishes exposing the structure.

**420.4.2.6 420.6.2.6 Alarm requirements.** No person shall install, market, distribute, offer for sale, or sell any carbon monoxide device in the State of California unless the device and instructions have been approved and listed by the State Fire Marshal.

Carbon monoxide alarms required by Section ~~420.4.2~~ 420.6.2 shall be installed and maintained in the following locations:

1. Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s).
2. On every level of a dwelling unit including basements.
3. Group R-1 Occupancies only.
  - a. On the ceiling of every sleeping unit or other locations within the sleeping unit in compliance with the manufacturer's installation instructions.

**424 420.7 Special provisions for residential hotels. (HCD1 & HCD 1-AC)**

**424.1 420.7.1 Locking mail receptacles.** A locking mail receptacle for each residential unit shall be provided in all residential hotels pursuant to the requirements specified in Health and Safety Code Section 17958.3.

**SECTION 421  
HYDROGEN CUTOFF ROOMS**

**421.5 Ventilation.** Cutoff rooms shall be provided with mechanical ventilation in accordance with the applicable provisions for repair garages in Chapter 5 of the ~~International~~ California Mechanical Code.

**SECTION 424**  
**SPECIAL PROVISIONS FOR RESIDENTIAL HOTELS (HCD 1 & HCD 1-AG)**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**55. HCD proposes to bring forward existing California Amendments in Chapter 5 from the 2010 California Building Code for adoption into the 2013 California Building Code as follows:**

**CHAPTER 5**  
**GENERAL BUILDING HEIGHTS AND AREAS**

**503.1 General.** The building height and area shall not exceed the limits specified in Table 503 based on the type of construction as determined by Section 602 and the occupancies as determined by Section 302 except as modified hereafter. Each portion of a building separated by one or more fire walls complying with Section 706 shall be considered to be a separate building.

***Exception: (HCD 1)** Limited-density owner-built rural dwellings may be of any type of construction which will provide for a sound structural condition. Structural hazards which result in an unsound condition and which may constitute a substandard building are delineated by Section 17920.3 of the Health and Safety Code.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**56. HCD proposes to bring forward existing California Amendments in Chapter 6 from the 2010 California Building Code for adoption into the 2013 California Building Code as follows:**

**CHAPTER 6**  
**TYPES OF CONSTRUCTION**

**SECTION 603**  
**COMBUSTIBLE MATERIAL IN TYPE I AND II CONSTRUCTION**

**603.1 Allowable materials.** Combustible materials shall be permitted in buildings of Type I or Type II construction in the following applications and in accordance with Sections 603.1.1 through 603.1.3:

1. Fire-retardant-treated wood shall be permitted in:

... (No change to text)

25. Materials exposed within plenums complying with Section 602 of the ~~International~~ California Mechanical Code.

. . . (No change to text)

**603.1.1 Ducts.** The use of nonmetallic ducts shall be permitted where installed in accordance with the limitations of the ~~International~~ California Mechanical Code.

**603.1.2 Piping.** The use of combustible piping materials shall be permitted where installed in accordance with the limitations of the ~~International~~ California Mechanical Code and the ~~International~~ California Plumbing Code.

**603.1.3 Electrical.** The use of electrical wiring methods with combustible insulation, tubing, raceways and related components shall be permitted when installed in accordance with the limitations of ~~this code~~ the California Electrical Code.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**57. HCD proposes to bring forward existing California Amendments in Chapter 7 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 7  
FIRE AND SMOKE PROTECTION FEATURES**

**SECTION 703  
FIRE RESISTANCE RATINGS AND FIRE TESTS**

**703.4 Automatic sprinklers.** Under the prescriptive fire resistance requirements of the ~~International~~ California Building Code, the fire-resistance rating of a building element, component or assembly shall be established without the use of automatic sprinklers or any other fire suppression system being incorporated as part of the assembly tested in accordance with the fire exposure, procedures, and acceptance criteria specified in ASTM E 119 or UL 263. However, this section shall not prohibit or limit the duties and powers of the building official allowed by Sections 104.10 and 104.11.

**SECTION 712  
VERTICAL OPENINGS**

**712.1.5 Ducts.** Penetrations by ducts shall be protected in accordance with Section 717.6. Grease ducts shall be protected in accordance with the ~~International~~ California Mechanical Code.

**SECTION 717  
DUCTS AND AIR TRANSFER OPENINGS**

**717.2.2 (Formerly 716.2.2) Hazardous exhaust ducts.** Fire dampers for hazardous exhaust duct systems shall comply with the ~~International~~ California Mechanical Code.

**717.5.3 (Formerly 716.5.3) Shaft enclosures.** Shaft enclosures that are permitted to be penetrated by ducts and air transfer openings shall be protected with approved fire and smoke dampers installed in accordance with their listing.

**Exceptions:**

1. Fire dampers are not required at penetrations of shafts where:

... (No change to text)

4. Fire dampers and combination fire/smoke dampers are not required in kitchen and clothes dryer exhaust systems when installed in accordance with the ~~International~~ *California Mechanical Code*.

**717.5.4 (Formerly 716.5.4) Fire partitions.** Ducts and air transfer openings that penetrate fire partitions shall be protected with listed fire dampers installed in accordance with their listing.

**Exceptions:** In occupancies other than Group H, fire dampers are not required where any of the following apply:

1. Corridor walls in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and the duct is protected as a through penetration in accordance with Section 714.

... (No change to text)

3. The duct system is constructed of approved materials in accordance with the ~~International~~ *California Mechanical Code* and the duct penetrating the wall complies with all of the following requirements:

... (No change to text)

**717.6.1 (Formerly 716.6.1) Through penetrations.** In occupancies other than Groups I-2 and I-3, a duct constructed of approved materials in accordance with the ~~International~~ *California Mechanical Code* that penetrates a fire-resistance-rated floor/ceiling assembly that connects not more than two stories is permitted without shaft enclosure protection, provided a listed fire damper is installed at the floor line or the duct is protected in accordance with Section 713.4. For air transfer openings, see Exception 7 to Section 708.2.

**717.6.2 (Formerly 716.6.2) Membrane penetrations.** Ducts and air transfer openings constructed of approved materials in accordance with the ~~International~~ *California Mechanical Code* that penetrate the ceiling membrane of a fire-resistance-rated floor/ceiling or roof/ceiling assembly shall be protected with one of the following:

... (No change to text)

**717.6.3 (Formerly 716.6.3) Nonfire-resistance-rated floor assemblies.** Duct systems constructed of approved materials in accordance with the ~~International~~ *California Mechanical Code* that penetrate nonfire-resistance-rated floor assemblies shall be protected by any of the following methods:

... (No change to text)

**SECTION 718  
CONCEALED SPACES**

**718.5 (Formerly 717.5) Combustible materials in concealed spaces in Type I or II construction.**

Combustible materials shall not be permitted in concealed spaces of buildings of Type I or II construction.

**Exceptions:**

1. Combustible materials in accordance with Section 603.
2. Combustible materials exposed within plenums complying with Section 602 of the ~~International~~ *California Mechanical Code*.
- ... (No change to text)
5. Combustible piping within concealed ceiling spaces installed in accordance with the ~~International~~ *California Mechanical Code* and the ~~International~~ *California Plumbing Code*.

**SECTION 720  
THERMAL- AND SOUND-INSULATING MATERIALS**

**720.1 (Formerly 719.1) General.** Insulating materials, including facings such as vapor retarders and vapor-permeable membranes, similar coverings and all layers of single and multilayer reflective foil insulations, shall comply with the requirements of this section. Where a flame spread index or a smoke-developed index is specified in this section, such index shall be determined in accordance with ASTM E 84 or UL 723. Any material that is subject to an increase in flame spread index or smoke-developed index beyond the limits herein established through the effects of age, moisture or other atmospheric conditions shall not be permitted.

**Exceptions:**

1. Fiberboard insulation shall comply with Chapter 23.
- ... (No change to text)
3. Duct and pipe insulation and duct and pipe coverings and linings in plenums shall comply with the ~~International~~ *California Mechanical Code*.
- ... (No change to text)

**720.7 (Formerly 719.7) Insulation and covering on pipe and tubing.** Insulation and covering on pipe and tubing shall have a flame spread index of not more than 25 and a smoke-developed index of not more than 450.

**Exception:** Insulation and covering on pipe and tubing installed in plenums shall comply with the ~~International~~ *California Mechanical Code*.

**SECTION 721 (FORMERLY SECTION 720)  
PRESCRIPTIVE FIRE RESISTANCE**

**~~720.2~~ 721.2 Cellular concrete. (HCD 1 & HCD 2)**

**~~720.2.1~~ 721.2.1 Use and application (HCD 1 & HCD 2)** *Controlled-density cellular concrete, when used or applied, shall be in accordance with the use of materials in Bulletin No. 65 of the Federal Housing Administration, United States Department of Housing and Urban Development.*

**Exceptions:**

1. *Regardless of the provisions of Subsections 3.2, 3.3, 3.4 and 3.6 in Section 3, Bulletin No. 65 provisions relating to proportioning, mixing and testing, in the following shall apply to this chapter.*

1.1. Field-control weighings for control of the wet-unit weight shall be made. The design wet-unit weight for field control of the concrete shall be based on previously established data for the relation between the wet-unit weight and the air-dry-unit weight at 28 days for the mix being placed. Field-control weighings for determining the wet-unit weight shall be made at the mixer discharge and at the point of deposit. There should be one pair of weighings per batch for batch-type mixers unless equipment is provided with scales allowing the operator to adequately weigh materials.

For continuous weight-instrumented batch mixers, there should be one pair of weighings per 10 cubic yards (7.65 m<sup>3</sup>). The gain in unit weight between the mixer discharge and point of deposit shall not exceed 5 percent. The wet-unit weight at the point of deposit of the concrete shall not exceed plus 5 percent of the design wet-unit weight. A variation exceeding plus 5 percent of the design wet-unit weight shall require a modification of the mix proportions, a change of materials or a change in the mixing procedure.

1.2. When tests are required by the enforcing agency, they shall be performed in the following manner: Two test cylinders, for compressive strength tests, shall be made for each 8,000 square feet (743 m<sup>2</sup>) of surface area placed. A minimum of two test cylinders shall be made each day. Each strength test result shall be the average of two cylinders from the same sample tested at 28 days or at a specified earlier date.

1.3. The minimum air-dry density shall be 90 pounds per cubic foot (1,440 kg/m<sup>3</sup>). The minimum design compressive strength shall be 1,000 psi (6,890 kPa) when the curing procedure specified herein is applied. The minimum design compressive strength shall be 1,250 psi (8,619 kPa) if the slab is placed in a covered area of a building and a specified curing medium is not applied. The specified design compressive strength shall be increased 20 percent when the specified strength is greater than 1,000 psi (6,890 kPa) and the slab is placed in a covered area of a building and a specified curing medium is not applied.

1.4. The cellular concrete shall be sampled at the point of deposit in accordance with the applicable procedures of ASTM C 172, Sampling Fresh Concrete. Cylinder molds shall be either 3 inches by 6 inches (76 mm by 152 mm) or 6 inches by 12 inches (152 mm by 305 mm). Lightly tap the sides of the mold with a rubber hammer while filling the mold instead of rodding the mix. Moist cure the specimens for seven days at 73.4°F (40.8°C) plus or minus 3°F (1.7°C). At the age of seven days, remove the specimens from the moist condition and store in a temperature of 73.4°F (40.8°C) plus or minus 3°F (1.7°C) and a relative humidity of 50 plus or minus 10 percent for 21 days; remove and air dry until the time of test at 28 days. The compressive strength test shall be in accordance with ASTM C 39, Compressive Strength of Cylindrical Concrete Specimens. Determine the air-dry-unit weight at 28 days.

2. Regardless of the provisions of Subsections 4.1 and 4.2 in Section 4 of Bulletin No. 65, relating to placing, finishing and curing, the following shall apply to these regulations.

2.1. The concrete shall be placed, finished and cured to produce a level, smooth surface. The concrete shall be placed in a single layer to a minimum thickness of 1 1/2 inches (38 mm). The deviation from a plan shall not exceed 1/4 inch (6 mm) in any 10 feet (3048 mm). The final finish of the concrete shall be suitable for the application of the specified wear-resistant covering. Cracks wider than 1/8 inch (3 mm) shall be repaired.

2.2. Install a water-resistant membrane between wood or plywood subfloors and the cellular concrete to prevent leakage of the concrete and wetting of the subfloor. The membrane shall consist of waterproof paper or plastic sheets conforming to ASTM C 171, Sheet Materials for Curing Concrete, or Type 15 roofing felt conforming to ASTM D 226, D 250 or D 227, or Federal Specification UUB790, Building Paper Vegetable Fiber: (Kraft, Waterproofed, Water Repellent and Fire-resistant) Type 1, Grade B. The sheets shall be securely fastened to the subfloor.

3. Regardless of the provisions of Subsections 6.1 and 6.2 in Section 6, of Bulletin No. 65, relating to applicator qualifications and warranty, these subsections are omitted from this chapter.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**58. HCD proposes to bring forward existing California Amendments in Chapter 9 from the 2010 California Building Code for adoption into the 2013 California Building Code as follows:**

**CHAPTER 9  
FIRE PROTECTION SYSTEMS**

**SECTION 903  
AUTOMATIC SPRINKLER SYSTEMS**

**903.2.11.4 Ducts conveying hazardous exhausts.** Where required by the *International California Mechanical Code*, automatic sprinklers shall be provided in ducts conveying hazardous exhaust, or flammable or combustible materials.

**Exception:** Ducts in which the largest cross-sectional diameter of the duct is less than 10 inches (254 mm).

**903.3.5 Water supplies.** Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the *International California Plumbing Code*.

**903.3.5.2 Secondary water supply.** An automatic secondary on-site water supply having a capacity not less than the hydraulically calculated sprinkler demand, including the hose stream requirement, shall be provided for high-rise buildings assigned to Seismic Design Category C, D, E or F as determined by the *International California Building Code*. An additional fire pump shall not be required for the secondary water supply unless needed to provide the minimum design intake pressure at the suction side of the fire pump supplying the automatic sprinkler system. The secondary water supply shall have a duration of not less than 30 minutes as determined by the occupancy hazard classification in accordance with NFPA 13.

**Exception:** Existing buildings.

**SECTION 904  
ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS**

**904.2.1 Commercial hood and duct systems.** Each required commercial kitchen exhaust hood and duct system required by Section 609 of the *International California Fire Code* or Chapter 5 of the *International California Mechanical Code* to have a Type I hood shall be protected with an approved automatic fire-extinguishing system installed in accordance with this code.

**904.3 Installation.** Automatic fire-extinguishing systems shall be installed in accordance with this section.

**904.3.1 Electrical wiring.** Electrical wiring shall be in accordance with ~~NFPA 70~~ *the California Electrical Code*.

## SECTION 907 FIRE ALARM AND DETECTION SYSTEMS

**907.3.1 Duct smoke detectors.** Smoke detectors installed in ducts shall be listed for the air velocity, temperature and humidity present in the duct. Duct smoke detectors shall be connected to the building's fire alarm control unit when a fire alarm system is required by Section 907.2. Activation of a duct smoke detector shall initiate a visible and audible supervisory signal at a constantly attended location and shall perform the intended fire safety function in accordance with this code and the ~~International~~ *California Mechanical Code*. Duct smoke detectors shall not be used as a substitute for required open area detection.

**907.5.2.3.4 Group R-2.** In Group R-2 occupancies required by Section 907 to have a fire alarm system, all dwelling units and sleeping units shall be provided with the capability to support visible alarm notification appliances in accordance with ~~Chapter 10 of ICC A117.4~~ *NFPA 72*. Such capability shall be permitted to include the potential for future interconnection of the building fire alarm system with the unit smoke alarms, replacement of audible appliances with combination audible/visible appliances, or future extension of the existing wiring from the unit smoke alarm locations to required locations for visible appliances.

**907.6.1 Wiring.** Wiring shall comply with the requirements of ~~NFPA 70~~ *California Electrical Code* and *NFPA 72*. Wireless protection systems utilizing radio-frequency transmitting devices shall comply with the special requirements for supervision of low-power wireless systems in *NFPA 72*.

## SECTION 908 EMERGENCY ALARM SYSTEMS

**908.6 Refrigerant detector.** Machinery rooms shall contain a refrigerant detector with an audible and visual alarm. The detector, or a sampling tube that draws air to the detector, shall be located in an area where refrigerant from a leak will concentrate. The alarm shall be actuated at a value not greater than the corresponding TLV-TWA values for the refrigerant classification indicated in the ~~International~~ *California Mechanical Code*. Detectors and alarms shall be placed in approved locations.

## SECTION 909 SMOKE CONTROL SYSTEMS

**909.1 Scope and purpose.** This section applies to mechanical or passive smoke control systems when they are required by other provisions of this code. The purpose of this section is to establish minimum requirements for the design, installation and acceptance testing of smoke control systems that are intended to provide a tenable environment for the evacuation or relocation of occupants. These provisions are not intended for the preservation of contents, the timely restoration of operations or for assistance in fire suppression or overhaul activities. Smoke control systems regulated by this section serve a different purpose than the smoke- and heat-venting provisions found in Section 910. Mechanical smoke control systems shall not be considered exhaust systems under Chapter 5 of the ~~International~~ *California Mechanical Code*.

**909.10.2 Ducts.** Duct materials and joints shall be capable of withstanding the probable temperatures and pressures to which they are exposed as determined in accordance with Section 909.10.1. Ducts shall be constructed and supported in accordance with the ~~International~~ *California Mechanical Code*. Ducts shall be leak tested to 1.5 times the maximum design pressure in accordance with nationally accepted practices. Measured leakage shall not exceed 5 percent of design flow. Results of such testing shall be a part of the documentation procedure. Ducts shall be supported directly from fire-resistance-rated structural elements of the building by substantial, noncombustible supports.

**Exception:** Flexible connections (for the purpose of vibration isolation) complying with the ~~International~~ *California Mechanical Code*, that are constructed of approved fire-resistance-rated materials.

**909.12.1 Wiring.** In addition to meeting requirements of ~~NFPA 70~~ *California Electrical Code*, all wiring, regardless of voltage, shall be fully enclosed within continuous raceways.

**909.16.3 Control action and priorities.** The firefighter's control panel actions shall be as follows:

1. ON-OFF and OPEN-CLOSE control actions shall have the highest priority of any control point within the building. Once issued from the fire-fighter's control panel, no automatic or manual control from any other control point within the building shall contradict the control action. Where automatic means are provided to interrupt normal, nonemergency equipment operation or produce a specific result to safeguard the building or equipment (i.e., duct freezestats, duct smoke detectors, high-temperature cutouts, temperature-actuated linkage and similar devices), such means shall be capable of being overridden by the fire-fighter's control panel. The last control panel switch position shall prevail. In no case shall control actions require the smoke control system to assume more than one configuration at any one time.

**Exception:** Power disconnects required by ~~NEPA-70~~ *California Electrical Code*.

## SECTION 912 FIRE DEPARTMENT CONNECTIONS

**912.5 Backflow protection.** The potable water supply to automatic sprinkler and standpipe systems shall be protected against backflow as required by the ~~International~~ *California Plumbing Code*.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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## **59. HCD proposes to bring forward existing California Amendments in Chapter 10 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

### CHAPTER 10 MEANS OF EGRESS

#### SECTION 1002 DEFINITIONS

**GUARD ((HCD 1 & HCD 2) or GUARDRAIL).**

#### SECTION 1007 ACCESSIBLE MEANS OF EGRESS

**1007.6 Area of Refuge.** ... (No change to text)

**1007.6.1 Size.** Each area of refuge shall be sized to accommodate ~~one~~ *two* wheelchair spaces *that are not less than 30 inches by 48 inches (762 mm by 1219 mm) each. The total number of such 30-inch by 48-inch (762 mm by 1219 mm) spaces per story shall be not less than one for every 200 persons of calculated occupant load served by the area of refuge.* ~~for each 200 occupants or portion thereof, based on occupant load of the area of refuge and areas served by the area of refuge.~~ Such wheelchair spaces shall not reduce the required means egress width. Access to any of the required wheelchair spaces in an area of refuge shall not be obstructed by more than one adjoining wheelchair space.

**Exception:** *The enforcing agency may reduce the size of each required area of refuge to accommodate one wheelchair space that is not less than 30 inches by 48 inches (762 mm by 1219 mm) on floors where the occupant load is less than 200.*

**1007.8 Two way communication.** ... (No change to text)

**1007.8.1 System requirements.** ... (No change to text)

**1007.8.1.1 Visible communication method. (DSA-AC & HCD 1-AC)** *A button complying with Section 4117B-6 1127A.9.6 in the area of refuge shall activate both a light in the area of refuge indicating that rescue has been requested and a light at the central control point indicating that rescue is being requested. A button at the central control point shall activate both a light at the central control point and a light in the area of refuge indicating that the request has been received.*

**1007.12 Alarms/emergency warning systems/accessibility.** *If emergency warning systems are required, they shall activate a means of warning the hearing impaired. Emergency warning systems as part of the fire-alarm system shall be designed and installed in accordance with NFPA 72 as amended in Chapter 35.*

## **SECTION 1008 DOORS, GATES AND TURNSTILES**

**1008.1.5 Floor elevation.** There shall be a floor or landing on each side of a door. Such floor or landing shall be at the same elevation on each side of the door. Landings shall be level except for exterior landings, which are permitted to have a slope not to exceed 0.25 unit vertical in 12 units horizontal (2-percent slope).

**Exceptions:**

1. Doors serving individual dwelling units in Groups R-2 and R-3 where the following apply:

... (No change to text)

3. In Group R-3 occupancies not required to be ~~Accessible units, Type A units or Type B units adaptable or accessible~~, the landing at an exterior doorway shall not be more than 7 3/4 inches (197 mm) below the top of the threshold, provided the door, other than an exterior storm or screen door, does not swing over the landing.

... (No change to text)

~~5. Exterior decks, patios or balconies that are part of Type B dwelling units, have impervious surfaces and that are not more than 4 inches (102 mm) below the finished floor level of the adjacent interior space of the dwelling unit.~~

**1008.1.8 Door arrangement.** Space between two doors in a series shall be 48 inches (1219 mm) minimum plus the width of a door swinging into the space. Doors in a series shall swing either in the same direction or away from the space between the doors.

**Exceptions:**

1. The minimum distance between horizontal sliding power-operated doors in a series shall be 48 inches (1219 mm).

... (No change to text)

3. Doors within individual dwelling units in Groups R-2 and R-3 occupancies other than ~~within Type A adaptable or accessible~~ dwelling units.

... (No change to text)

## **SECTION 1010 RAMPS**

**1010.7.3 (Formerly 1010.6.3) Length.** The landing length shall be 60 inches (1525 mm) minimum.

**Exceptions:**

1. In Group R-2 and R-3 individual dwelling and sleeping units that are not required to be ~~Accessible units, Type A units or Type B units accessible~~ in accordance with ~~Section 1107 Chapter 11A~~, landings are permitted to be 36 inches (914 mm) minimum.

2. Where the ramp is not a part of an accessible route, the length of the landing shall not be required to be more than 48 inches (1220 mm) in the direction of travel.

**1010.7.4 (Formerly 1010.6.4) Change in direction.** Where changes in direction of travel occur at landings provided between ramp runs, the landing shall be 60 inches by 60 inches (1524 mm by 1524 mm) minimum.

**Exception:** In Group R-2 and R-3 individual dwelling or sleeping units that are not required to be Accessible units, Type A units or Type B units accessible in accordance with Section 1107 Chapter 11A, landings are permitted to be 36 inches by 36 inches (914 mm by 914 mm) minimum.

## **SECTION 1015 EXIT AND EXIT ACCESS DOORWAYS**

**1015.5 Refrigerated rooms or spaces.** Rooms or spaces having a floor area larger than 1,000 square feet (93 m<sup>2</sup>), containing a refrigerant evaporator and maintained at a temperature below 68°F (20°C), shall have access to not less than two exits or exit access doors.

Travel distance shall be determined as specified in Section 1016.1, but all portions of a refrigerated room or space shall be within 150 feet (45 720 mm) of an exit or exit access doorway where such rooms are not protected by an approved automatic sprinkler system. Egress is allowed through adjoining refrigerated rooms or spaces.

**Exception:** Where using refrigerants in quantities limited to the amounts based on the volume set forth in the *International California Mechanical Code*.

## **SECTION 1018 CORRIDORS**

**1018.5.1 Corridor ceiling.** Use of the space between the corridor ceiling and the floor or roof structure above as a return air plenum is permitted for one or more of the following conditions:

1. The corridor is not required to be of fire-resistance-rated construction;
- ... (No change to text)
3. The air-handling system serving the corridor is shut down upon activation of the air-handling unit smoke detectors required by the *International California Mechanical Code*.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**60. HCD proposes to bring forward existing California Amendments in Chapter 12 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 12  
INTERIOR ENVIRONMENT**

**SECTION 1203  
VENTILATION**

**1203.3.2 Exceptions.** The following are exceptions to Sections 1203.3 and 1203.3.1:

1. Where warranted by climatic conditions, ventilation openings to the outdoors are not required if ventilation openings to the interior are provided.

... (No change to text)

4. Ventilation openings are not required when the ground surface is covered with a Class I vapor retarder, the perimeter walls are insulated and the space is conditioned in accordance with the ~~International California Energy Conservation Code~~, Title 24, Part 6.

... (No change to text)

**1203.4 Natural ventilation.** Natural ventilation of an occupied space shall be through windows, doors, louvers or other openings to the outdoors. The operating mechanism for such openings shall be provided with ready access so that the openings are readily controllable by the building occupants.

~~(HCD 1)~~ **(HCD 1)** *In employee housing, all openable windows in rooms used for living, dining, cooking or sleeping purposes, and toilet and bath buildings, shall be provided and maintained with insect screening.*

~~(HCD 1)~~ **(HCD 1)** *Door openings of rooms used for dining, cooking, toilet and bathing facilities in employee housing shall be provided and maintained with insect screening or with solid doors equipped with self-closing devices in lieu thereof, when approved by the enforcement agency.*

~~(HCD 1)~~ **(HCD 1)** *The windows, doors, louvers or other approved closeable openings not required by Section 1029 may open into a passive solar energy collector for ventilation required by this section. The area of ventilation openings to the outside of the passive solar energy collector shall be increased to compensate for the openings required by the interior space.*

**1203.4.2 Contaminants exhausted.** Contaminant sources in naturally ventilated spaces shall be removed in accordance with the ~~International California Mechanical Code~~ and the ~~International California Fire Code~~.

**1203.5 Other ventilation and exhaust systems.** Ventilation and exhaust systems for occupancies and operations involving flammable or combustible hazards or other contaminant sources as covered in the ~~International California Mechanical Code~~ or the ~~International California Fire Code~~ shall be provided as required by both codes.

**SECTION 1204  
TEMPERATURE CONTROL**

**1204.1 Equipment and systems.** Interior spaces intended for human occupancy shall be provided with active or passive space-heating systems capable of maintaining an indoor temperature of not less than 68°F (20°C) at a point 3 feet (914 mm) above the floor on the design heating day.

**Exception:**

1. Space heating systems are not required for interior spaces where the primary purpose of the space is not associated with human comfort.
2. **(HCD 1)** *For limited-density owner-built rural dwellings, a heating facility or appliance shall be installed in each dwelling subject to the provisions of Subchapter 1, Chapter 1, Title 25, California Code of*

Regulations, commencing with Section 74; however, there shall be no specified requirement for heating capacity or temperature maintenance. The use of solid-fuel or solar-heating devices shall be deemed as complying with the requirements of this section. If nonrenewable fuel is used in these dwellings, rooms so heated shall meet current installation standards.

3. ... (No change to text)
4. **(HCD 1)** When a passive solar energy collector is designed as a conditioned area it shall comply with the California Energy Code, Title 24, Part 6. Nonconditioned passive solar energy collectors are exempt from Title 24, Part 6.

## **SECTION 1205 LIGHTING**

**1205.1 General.** Every space intended for human occupancy shall be provided with natural light by means of exterior glazed openings in accordance with Section 1205.2 or shall be provided with artificial light in accordance with Section 1205.3. Exterior glazed openings shall open directly onto a public way or onto a yard or court in accordance with Section 1206.

*(HCD 1) Glazed openings may open into a passive solar energy collector provided the area of exterior glazed openings in the passive solar energy collector is increased to compensate for the area required by the interior space.*

**1205.4 Stairway illumination.** Stairways within dwelling units and exterior stairways serving a dwelling unit shall have an illumination level on tread runs of not less than 1 footcandle (11 lux). Stairs in other occupancies shall be governed by Chapter 10.

**1205.4.1 Controls.** The control for activation of the required stairway lighting shall be in accordance with the ~~NEPA-70~~ California Electrical Code.

## **SECTION 1206 YARDS OR COURTS**

**1206.3.3 Court drainage.** The bottom of every court shall be properly graded and drained to a public sewer or other approved disposal system complying with the ~~International~~ California Plumbing Code.

## **SECTION 1208 INTERIOR SPACE DIMENSIONS**

**1208.1 Minimum room widths.** Habitable spaces, other than a kitchen, shall not be less than 7 feet (2134 mm) in any plan dimension. Kitchens shall have a clear passageway of not less than 3 feet (914 mm) between counter fronts and appliances or counter fronts and walls.

*(HCD 1) (HCD 1) For limited-density owner-built rural dwellings, there shall be no requirements for room dimensions, provided there is adequate light and ventilation and adequate means of egress.*

## **SECTION 1209 ACCESS TO UNOCCUPIED SPACES**

**1209.3 Mechanical appliances.** Access to mechanical appliances installed in under-floor areas, in attic spaces and on roofs or elevated structures shall be in accordance with the ~~International~~ California Mechanical Code.

## **SECTION 1211 (HCD 1 & HCD 2) GARAGE DOOR SPRINGS**

**1211.1 General.** This section shall apply to applications listed in Sections 1.8.2.1.1 and 1.8.2.1.3 regulated by the Department of Housing and Community Development.

**1211.2 Design standards.** Minimum design standard shall be 9,000 cycles. (One cycle is equal to door opening plus door closing at maximum working load.)

**1211.3 Certification.** Mill certification of wire physical tests and chemical properties shall be kept on file by the spring manufacturer.

Physical cycling tests shall be performed for each extension spring design and shall be certified by an approved testing agency acceptable to the department and reports kept on file by the manufacturer.

Containment devices shall be physically tested for each extension spring design by installing the device on the spring and by destroying the spring at maximum recommended stretch. Containment tests shall be certified by an approved testing agency acceptable to the department and reports kept on file by the manufacturer.

**1211.4 Containment devices.** Each extension spring shall be equipped with an approved device capable of restraining the spring or any part thereof in the event it breaks.

**1211.5 Identification.** Extension springs shall be permanently identified as to manufacturer and also to indicate maximum recommended stretch. Both extension springs and containment devices shall bear information stating that they have been manufactured in accordance with requirements of the California Department of Housing and Community Development.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**61. HCD proposes to bring forward existing California Amendments in Chapter 14 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 14  
EXTERIOR WALLS**

**SECTION 1405  
INSTALLATION OF WALL COVERINGS**

**1405.3 Vapor retarders.** Class I or II vapor retarders shall be provided on the interior side of frame walls in Zones 5, 6, 7, 8 and Marine 4. The appropriate zone shall be selected in accordance with Chapter 3 of the *International Energy Conservation Code*.

*(HCD 1 & HCD 2) Class I or II vapor retarders shall be provided on the interior side of frame walls of low-rise residential buildings as required in Title 24, Part 6, the California Energy Code (see "~~vapor barriers~~" and definition of "Low-rise residential building").*

**Exceptions:**

1. Basement walls.
2. Below-grade portion of any wall.
3. Construction where moisture or its freezing will not damage the materials.

**1405.3.1 Class III vapor retarders.** Class III vapor retarders shall be permitted where any one of the conditions in Table 1405.3.1 is met.

**(HCD 1 & HCD 2)** Class III vapor retarders shall be permitted where any one of the conditions in Items 1, 2 or 3 below are met. This section shall apply to "Low-rise residential buildings" as defined in Title 24, Part 6, the California Energy Code.

1. Vented cladding over fiberboard.
2. Vented cladding over gypsum.
3. Insulated sheathing with R-value  $\geq R4$ .

Spray foam with a minimum density of 2 lbs/ft<sup>3</sup> applied to the interior cavity side of OSB, plywood, fiberboard, insulating sheathing or gypsum is deemed to meet the insulating sheathing requirement where the spray foam R-value meets or exceeds the specified insulating sheathing R-value.

**TABLE 1405.3.1 (Not adopted by HCD 1 & HCD 2)  
CLASS III VAPOR RETARDERS**

ZONE	CLASS III VAPOR RETARDERS PERMITTED FOR: <sup>a</sup>
Marine 4	Vented cladding over OSB Vented cladding over plywood Vented cladding over fiberboard Vented cladding over gypsum Insulated sheathing with R-value $\geq R2.5$ over 2×4 wall Insulated sheathing with R-value $\geq R3.75$ over 2×6 wall
5	Vented cladding over OSB Vented cladding over plywood Vented cladding over fiberboard Vented cladding over gypsum Insulated sheathing with R-value $\geq R5$ over 2×4 wall Insulated sheathing with R-value $\geq R7.5$ over 2×6 wall
6	Vented cladding over fiberboard Vented cladding over gypsum Insulated sheathing with R-value $\geq R7.5$ over 2×4 wall Insulated sheathing with R-value $\geq R11.25$ over 2×6 wall
7 and 8	Insulated sheathing with R value $\geq R10$ over 2×4 wall Insulated sheathing with R value $\geq R15$ over 2×6 wall

For SI: 1 pound per cubic foot = 16 kg/m<sup>3</sup>.

- a. Spray foam with a minimum density of 2 lbs/ft<sup>3</sup> applied to the interior cavity side of OSB, plywood, fiberboard, insulating sheathing or gypsum is deemed to meet the insulating sheathing requirement where the spray foam R-value meets or exceeds the specified insulating sheathing R-value.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**62. HCD proposes to bring forward existing California Amendments in Chapter 16 from the 2010 California Building Code for adoption into the 2013 California Building Code with an editorial correction as follows:**

CHAPTER 16  
STRUCTURAL DESIGN

SECTION 1607  
LIVE LOADS

**1607.8 (Formerly 1607.7) Loads on handrails, guards, grab bars, shower seats, dressing room bench seats and vehicle barriers.** Handrails, guards, grab bars, accessible seats, accessible benches and vehicle barriers shall be designed and constructed to the structural loading conditions set forth in this section.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**63. HCD proposes to bring forward existing California Amendments in Chapter 17 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

CHAPTER 17  
STRUCTURAL TESTS AND SPECIAL INSPECTIONS

SECTION 1704  
SPECIAL INSPECTIONS, CONTRACTOR RESPONSIBILITY AND STRUCTURAL OBSERVATIONS

**1704.1 General.** This section provides minimum requirements for special inspections, the statement of special inspections, contractor responsibility and structural observations.

**1704.2 (Formerly 1704.1) Special inspections.** Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more approved agencies to perform inspections during construction on the types of work listed under Section 1705. These inspections are in addition to the inspections identified in Section 110.

**Exceptions:**

1. Special inspections are not required for construction of a minor nature or as warranted by conditions in the jurisdiction as approved by the building official.

2. Unless otherwise required by the building official, special inspections are not required for Group U occupancies that are accessory to a residential occupancy including, but not limited to, those listed in Section 312.1.

3. Special inspections are not required for portions of structures designed and constructed in accordance with the cold-formed steel light-frame construction provisions of Section 2211.7 or the conventional light-frame construction provisions of Section 2308.

4. *(HCD 1) The provisions of Health and Safety Code Division 13, Part 6 and the California Code of Regulations, Title 25, Division 1, Chapter 3, commencing with Section 3000, shall apply to the construction and inspection of factory-built housing as defined in Health and Safety Code Section 19971.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**64. HCD proposes to bring forward existing California Amendments in Chapter 18 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 18  
SOILS AND FOUNDATIONS**

**SECTION 1801  
GENERAL**

**1801.2 Design basis.** Allowable bearing pressures, allowable stresses and design formulas provided in this chapter shall be used with the *allowable stress design* load combinations specified in Section 1605.3. The quality and design of materials used structurally in excavations and foundations shall comply with the requirements specified in Chapters 16, 19, 21, 22 and 23 of this code. Excavations and fills shall also comply with Chapter 33.

*(HCD 1) (HCD 1) For limited-density owner-built rural dwellings, pier foundations, stone masonry footings and foundations, pressure-treated lumber, poles or equivalent foundation materials or designs may be used, provided that the bearing is sufficient for the purpose intended.*

**SECTION 1805  
DAMPPROOFING AND WATERPROOFING**

**1805.4.3 Drainage discharge.** The floor base and foundation perimeter drain shall discharge by gravity or mechanical means into an approved drainage system that complies with the ~~International~~ *California Plumbing Code*.

**Exception:** Where a site is located in well-drained gravel or sand/gravel mixture soils, a dedicated drainage system is not required.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**65. HCD proposes to bring forward existing California Amendments in Chapter 19 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 19  
CONCRETE**

**SECTION 1905  
MODIFICATIONS TO ACI 318**

**1905.1.2 (Formerly 1908.1.2) ACI 318, Section 21.1.1.** Modify ACI 318 Sections 21.1.1.3 and 21.1.1.7 to read as follows:

21.1.1.3 – Structures assigned to Seismic Design Category A shall satisfy requirements of Chapters 1 to 19 and 22; Chapter 21 does not apply. Structures assigned to Seismic Design Category B, C, D, E or F also shall satisfy 21.1.1.4 through 21.1.1.8, as applicable. Except for structural elements of plain concrete complying with Section 1905.1.8 of the ~~International~~ *California Building Code*, structural elements of plain concrete are prohibited in structures assigned to Seismic Design Category C, D, E or F.

. . . (No change to text)

**1905.1.3 (Formerly 1908.1.3) ACI 318, Section 21.4.** Modify ACI 318, Section 21.4, by renumbering Section 21.4.3 to become 21.4.4 and adding new Sections 21.4.3, 21.4.5, 21.4.6 and 21.4.7 to read as follows:

21.4.3 - Connections that are designed to yield shall be capable of maintaining 80 percent of their design strength at the deformation induced by the design displacement or shall use Type 2 mechanical splices.

21.4.4 - Elements of the connection that are not designed to yield shall develop at least 1.5 Sy.

21.4.5 - Wall piers in Seismic Design Category D, E or F shall comply with Section 1905.1.4 of the ~~International~~ *California Building Code*.

. . . (No change to text)

**1905.1.6 (Formerly 1908.1.6) ACI 318, Section 21.12.1.1.** Modify ACI 318, Section 21.12.1.1, to read as follows:

21.12.1.1 – Foundations resisting earthquake-induced forces or transferring earthquake-induced forces between a structure and ground shall comply with the requirements of Section 21.12 and other applicable provisions of ACI 318 unless modified by Chapter 18 of the ~~International~~ *California Building Code*.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**66. HCD proposes to bring forward existing California Amendments in Chapter 21 from the 2010 California Building Code for adoption into the 2013 California Building Code as follows:**

**CHAPTER 21  
MASONRY**

**SECTION 2109  
EMPIRICAL DESIGN OF MASONRY**

**2109.1.1 Limitations.** The use of empirical design of masonry shall be limited as noted in Section 5.1.2 of TMS 402/ACI 530/ASCE 5. The use of dry-stacked, surface bonded masonry shall be prohibited in Risk Category IV structures. In buildings that exceed one or more of the limitations of Section 5.1.2 of TMS 402/ACI 530/ASCE 5, masonry shall be designed in accordance with the engineered design provisions of Section 2101.2.1, 2101.2.2 or 2101.2.3 or the foundation wall provisions of Section 1807.1.5.

Section 5.1.2.2 of TMS 402/ACI 530/ASCE 5 shall be modified as follows:

**5.1.2.2 Wind –** Empirical requirements shall not apply to the design or construction of masonry for buildings, parts of buildings, or other structures to be located in areas where  $V_{asd}$  as determined in accordance with Section 1609.3.1 of the *International California Building Code* exceeds 110 mph.

**SECTION 2113  
MASONRY CHIMNEYS**

**2113.11.1.2 Gas appliances.** Flue lining systems for gas appliances shall be in accordance with the *International Fuel Gas California Mechanical Code*.

**2113.15 Flue area (appliance).** Chimney flues shall not be smaller in area than the area of the connector from the appliance. Chimney flues connected to more than one appliance shall not be less than the area of the largest connector plus 50 percent of the areas of additional chimney connectors.

**Exceptions:**

1. Chimney flues serving oil-fired appliances sized in accordance with NFPA 31.
2. Chimney flues serving gas-fired appliances sized in accordance with the *International Fuel Gas California Mechanical Code*.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, Sections 17910 through 17995.5, Sections 18200 through 18700, Sections 18860 through 18874, and Sections 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**67. HCD proposes to bring forward existing California Amendments in Chapter 23 from the 2010 California Building Code for adoption into the 2013 California Building Code with editorial corrections as follows:**

**CHAPTER 23  
WOOD**

**SECTION 2301  
GENERAL**

**2301.1 Scope.** The provisions of this chapter shall govern the materials, design, construction and quality of wood members and their fasteners.

*(HCD-1) (HCD 1) For limited-density owner-built rural dwellings, owner-produced or used materials and appliances may be utilized unless found not to be of sufficient strength or durability to perform the intended function; owner-produced or used lumber, or shakes and shingles may be utilized unless found to contain dry rot, excessive splitting or other defects obviously rendering the material unfit in strength or durability for the intended purpose.*

**SECTION 2304  
GENERAL CONSTRUCTION REQUIREMENTS**

**2304.5 Framing around flues and chimneys.** Combustible framing shall be a minimum of 2 inches (51 mm), but shall not be less than the distance specified in Sections 2111 and 2113 and the ~~International~~ *California Mechanical Code*, from flues, chimneys and fireplaces, and 6 inches (152 mm) away from flue openings.

**SECTION 2308  
CONVENTIONAL LIGHT-FRAME CONSTRUCTION**

**2308.1 General.** The requirements of this section are intended for conventional light-frame construction. Other methods are permitted to be used, provided a satisfactory design is submitted showing compliance with other provisions of this code. Interior nonload-bearing partitions, ceilings and curtain walls of conventional light-frame construction are not subject to the limitations of this section. Alternatively, compliance with AF&PA WFCM shall be permitted subject to the limitations therein and the limitations of this code. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories above grade plane in height with a separate means of egress and their accessory structures shall comply with the ~~International~~ *California Residential Code*.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**68. HCD proposes to bring forward existing California Amendments in Chapter 31 from the 2010 California Building Code for adoption into the 2013 California Building Code as follows:**

**CHAPTER 31  
SPECIAL CONSTRUCTION**

**SECTION 3104  
PEDESTRIAN WALKWAYS AND TUNNELS**

**3104.2 Separate structures.** Connected buildings shall be considered to be separate structures.

**Exceptions:**

1. Buildings on the same lot in accordance with Section 503.1.2.
2. **(HCD 1-AC)** For purposes of *accessibility* calculating the number of Type B units required by Chapter 44 as required by Chapter 11A, structurally connected buildings, *buildings connected by stairs, walkways, or roofs*, and buildings with multiple wings shall be considered one structure.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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**69. HCD proposes to bring forward existing California Amendments in Chapter 33 from the 2010 California Building Code for adoption into the 2013 California Building Code as follows:**

**CHAPTER 33  
SAFEGUARDS DURING CONSTRUCTION**

**SECTION 3305  
SANITARY**

**3305.1 Facilities required.** Sanitary facilities shall be provided during construction, remodeling or demolition activities in accordance with the ~~International~~ *California Plumbing Code*.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11 and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

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