

**INITIAL EXPRESS TERMS  
FOR  
PROPOSED BUILDING STANDARDS  
OF THE  
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT  
REGARDING THE ADOPTION OF THE  
2019 CALIFORNIA BUILDING CODE (CBC)  
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2  
(HCD 03/18)**

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The Department of Housing and Community Development (HCD) proposes to adopt the 2018 edition of the International Building Code (IBC) for codification and effectiveness into the 2019 edition of the California Building Code (CBC) as presented on the following pages, including any necessary amendments.

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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 with vertical bar in left margin.
  2. **Existing California amendments being modified:** All such language shown in *italics*, modified language is underlined or shown in ~~strikeout~~ with vertical bar in left margin.
  3. **Repealed text:** All language shown in ~~strikeout~~, with vertical bar in left margin.
  4. **Existing California amendments to the model code not being modified:** All such existing language shown in *italics*, modified model code language shown in ~~strikeout~~.
  5. **Existing California amendments not being modified:** Section number and title followed by "No change to text."
  6. **Amended, adopted or repealed language after 45-day public comment period or public hearing:** All language is shown in double underline or ~~double-strikeout~~, with vertical bar in left margin.
  7. **Notation:** Authority and Reference citations are provided at the end of each action.
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**Acronyms:**

CBC	California Building Code
CEC	California Electrical Code
CMC	California Mechanical Code
CPC	California Plumbing Code
CRC	California Residential Code
CALGreen	California Green Building Standards Code
HCD	Department of Housing and Community Development

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## **SUMMARY OF REGULATORY ACTION**

### **HCD PROPOSES TO:**

- Repeal the 2015 edition of the International Building Code (IBC)
- Repeal the 2016 edition of the California Building Code (CBC), including existing California amendments to the model code, that are no longer necessary
- Adopt sections from the 2018 IBC into the 2019 CBC **without amendments**
- Adopt sections from the 2018 IBC into the 2019 CBC **with existing amendments**
- Bring forward existing California amendments from the 2016 CBC for adoption into the 2019 CBC **without modifications**
- Bring forward existing California amendments from the 2016 CBC for adoption into the 2019 CBC **with nonsubstantive editorial modifications**
- Adopt sections from the 2018 CBC into the 2019 CBC **with new amendments that do not change the regulatory effect**
- Bring forward existing California amendments from the 2016 CBC for adoption into the 2019 CBC **with new modifications that do not change the regulatory effect**
- Adopt sections from the 2018 IBC into the 2019 CBC **with new amendments**
- Bring forward existing California amendments from the 2016 CBC for adoption into the 2019 CBC **with modifications**
- Adopt new amendments into the 2019 CBC
- Not adopt specified sections of the 2018 IBC

**1. HCD proposes to bring forward existing California amendments in Chapter 1, Division I, from the 2016 California Building Code for adoption into the 2019 California Building Code with modifications as follows:**

**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 thirteen 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 **2015-2018** International Building Code of the International Code Council with necessary California amendments.

**1.1.2 Purpose.** (No change to text)

**1.1.3 Scope.** (No change to text)

**1.1.3.1 Nonstate-regulated buildings, structures, and applications.** (No change to text)

**1.1.3.2 State-regulated buildings, structures, and applications.** (No change to text)

**1.1.4 Appendices.** (No change to text)

**1.1.5 Referenced codes.** (No change to text)

**1.1.6 Nonbuilding standards, orders and regulations.** (No change to text)

**1.1.7 Order of precedence and use.**

**1.1.7.1 Differences.** (No change to text)

**1.1.7.2 Specific provisions.** (No change to text)

**1.1.7.3 Conflicts.** (No change to text)

**1.1.7.3.1 Detached one- and two-family dwellings.** Detached one- and two-family dwellings, **efficiency dwelling units**, lodging houses, live/work units, townhouses not more than three stories above grade plane in height with a separate means of egress, and their accessory structures, may be designed and constructed in accordance with this code or the California Residential Code, but not both, unless the proposed structure(s) or element(s) exceed the design limitations established in the California Residential Code, and the code user is specifically directed by the California Residential Code to use this code.

**1.1.8 City, county, or city and county amendments, additions or deletions.** (No change to text)

**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 2020 W. El Camino Avenue, Suite ~~250~~ 200, Sacramento, CA 95833-1829.

**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.

**(HCD 1 & HCD 2) Exception:** Plans approved by the Department of Housing and Community Development or a Department-approved design approval agency for factory built housing as defined by Health and Safety Code Section 19971. Approved plans, pursuant to the California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, Article 3, Section 3048 remain valid for a period of 36 months from the date of plan approval.

**1.1.10 Availability of codes.** (No change to text)

**1.1.11 Format.** (No change to text)

**1.1.12 Validity.** (No change to text)

## **SECTION 1.8 DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT**

**1.8.1 Purpose.** (No change to text)

### **SECTION 1.8.2 AUTHORITY AND ABBREVIATIONS**

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

**1.8.2.1.1 Housing construction.** (No change to text)

**1.8.2.1.2 Housing accessibility.** (No change to text)

**1.8.2.1.3 Permanent buildings in mobilehome parks and special occupancy parks.** (No change to text)

### **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 apartments, condominiums, 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.

For additional requirements regarding additions, alterations, or repairs to existing buildings and appurtenant structures, see the California Existing Building Code.

**1.8.3.2 Laws, rules and regulations.** (No change to text)

**1.8.3.2.1 State Housing Law.** (No change to text)

**1.8.3.2.2 Mobilehome Parks Act.** (No change to text)

**1.8.3.2.3 Special Occupancy Parks Act.** (No change to text)

**1.8.3.2.4 Employee Housing Act.** (No change to text)

**1.8.3.2.5 Factory-Built Housing Law.** (No change to text).

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

**1.8.4.1 Permits.** (No change to text)

**1.8.4.2 Fees.** (No change to text)

**1.8.4.3 Plan review and time limitations.** (No change to text)

**1.8.4.3.1 Retention of plans.** (No change to text)

**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, Division II, Scope and Administration, Sections ~~110.3.1 through 110.3.6, 110.3.8, 110.3.9 and 110.3.10~~ 110.3.1, 110.3.2, 110.3.3, 110.3.4, 110.3.4.1, 110.3.5, 110.3.6, 110.3.7, 110.3.9, 110.3.10, 110.3.11 and 110.3.11.1.

#### **SECTION 1.8.5 RIGHT OF ENTRY FOR ENFORCEMENT**

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

#### **SECTION 1.8.6 LOCAL MODIFICATION BY ORDINANCE OR REGULATION**

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

**1.8.6.2 Findings, filings and rejections of local modifications.** (No change to text)

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

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

**1.8.7.2 Local building departments.** (No change to text)

**1.8.7.2.1 Approval of alternates.** (No change to text)

**1.8.7.3 Department of Housing and Community Development.** (No change to text)

**SECTION 1.8.8  
APPEALS BOARD**

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

**1.8.8.2 Definitions.** (No change to text)

**1.8.8.3 Appeals.** (No change to text)

**SECTION 1.8.9  
UNSAFE BUILDINGS OR STRUCTURES**

**1.8.9.1 Authority to enforce.** (No change to text)

**1.8.9.2 Actions and proceedings.** (No change to text)

**SECTION 1.8.10  
OTHER BUILDING REGULATIONS**

**1.8.10.1 Existing structures.** (No change to text)

**1.8.10.2 Moved structures.** (No change to text)

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**2. HCD proposes to adopt Chapter 1, Division II, Sections 105.2 (Building: 1 – 13 only), 107.1, 107.2.1, 107.2.3, 107.2.4, 107.2.5, 107.2.6 (formerly 107.2.5), 107.2.6.1 (formerly 107.2.5.1), 107.2.7 (formerly 107.2.6); 110.3.1, 110.3.2, 110.3.3, 110.3.4, 110.3.4.1, 110.3.5, 110.3.6, 110.3.7 (formerly 110.3.6), 110.3.9 (formerly 110.3.8), 110.3.10 (formerly 110.3.9), 110.3.11 (formerly 110.3.10), 110.3.11.1 (formerly 110.3.10.1), and 110.3.11.2 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

**DIVISION II  
SCOPE AND ADMINISTRATION**

**SECTION 107  
SUBMITTAL DOCUMENTS**

**107.2.5 ~~Exterior balconies and elevated walking surfaces~~ *Exterior elevated elements*.** Where balconies or other elevated walking surfaces ~~exterior elevated elements~~ are exposed to water, ~~including but not limited to from direct or blowing~~ rain, snow, or irrigation, and the structural framing is protected by an impervious moisture barrier, the construction documents shall include details for all elements of the impervious moisture barrier system. The construction documents shall include manufacturer's installation instructions.

**107.2.7 Exterior balconies and elevated walking surfaces. [HCD 1, HCD 2]** Where balconies or other elevated walking surfaces are exposed to water from direct or blowing rain, snow, or irrigation, and the structural framing is protected by an impervious moisture barrier, the construction documents shall include details for all elements of the impervious moisture barrier system. The construction documents shall include manufacturer's installation instructions.

## SECTION 110 INSPECTIONS

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

**110.3.4.1 (HCD 1) Moisture content verification.** (No change to text)

**110.3.6 Weather-exposed balcony and walking surface exterior elevated element waterproofing.** Where balconies or other elevated walking surfaces exterior elevated elements are exposed to water, including but not limited to, from direct or blowing rain, snow or irrigation, and the structural framing is protected by an impervious moisture barrier, all elements of the impervious moisture barrier system shall not be concealed until inspected and approved.

**Exception:** Where special inspections are provided in accordance with Section 1705.1.1, Item 3.

**110.3.8.1 Weather-exposed balcony and walking surface waterproofing. [HCD 1, HCD 2]** Where balconies or other elevated walking surfaces are exposed to water from direct or blowing rain, snow or irrigation, and the structural framing is protected by an impervious moisture barrier, all elements of the impervious moisture barrier system shall not be concealed until inspected and approved.

**Exception:** Where special inspections are provided in accordance with Section 1705.1.1, Item 3.

**110.3.11 (Formerly 110.3.10) Final inspection.** (No change to text)

**110.3.11.1 (Formerly 110.3.10.1) Flood hazard documentation.** (No change to text)

**110.3.11.2 (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, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

**3. HCD proposes to adopt Chapter 2 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

**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 California Energy Conservation Code, International Fuel Gas Code, International California Fire Code, International California Mechanical Code, California Residential Code, California Existing Building Code, California Green Building Standards Code, California Electrical 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) (No change to text).

**ACCESSIBLE.** A site, building, facility or portion thereof that complies with Chapter 11.

**ACCESSIBLE.** (HCD 1-AC) (No change to text)

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

**ACCESSIBLE ROUTE.** (HCD 1-AC) (No change to text)

**ACCESSIBLE SPACE.** (HCD 1-AC) (No change to text)

**ADAPTABLE DWELLING UNIT.** (HCD 1-AC) (No change to text)

**APPROVED.** Acceptable to the building official.

*[HCD 1 & HCD 2] (No change to text)*

*Notes: (HCD 1 & HCD 2) (No change to text)*

**APPROVED AGENCY.** An established and recognized agency that is regularly engaged in conducting tests, furnishing inspection services or furnishing product certification where such agency has been approved by the building official.

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

**APPROVED LISTING AGENCY.** (HCD 1 & HCD 2) (No change to text)

**APPROVED TESTING AGENCY.** (HCD 1 & HCD 2) (No change to text)

**ASSISTIVE DEVICE.** (HCD 1-AC) (No change to text)

**AUTOMATIC DOOR.** (No change to text)

**BATHROOM.** (No change to text)

**BUILDING.** Any structure utilized or intended for supporting or sheltering any 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 **Section** 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 ENTRANCE ON AN ACCESSIBLE ROUTE. (HCD 1-AC)** (No change to text)

**BUILDING, EXISTING. (HCD 1 & HCD 2)** (No change to text)

**CARRIAGE UNIT. [HCD 1-AC]** (No change to text)

**CELLULAR CONCRETE. (HCD 1 & HCD 2)** (No change to text)

**CHARACTERS.** (No change to text)

**CLEAR FLOOR SPACE. (HCD 1-AC)** (No change to text)

**COMMON USE AREAS. (HCD 1-AC)** (No change to text)

**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.**

**CONGREGATE RESIDENCE.** (No change to text)

**COVERED MULTIFAMILY DWELLINGS. (HCD 1-AC)** (No change to text)

**CROSS SLOPE.** (No change to text)

**CURB CUT.** (No change to text)

**CURB RAMP.** (No change to text)

**DEPARTMENT. (HCD 1 & HCD 2)** (No change to text)

**DETACHED SINGLE-FAMILY DWELLING. (HCD 1 & HCD 2)** (No change to text)

**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.

**DETECTABLE WARNING.** (No change to text)

**DIRECTIONAL SIGN. (HCD 1 & HCD 2)** (No change to text)

**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)** For the purposes of Chapter 11A, a single unit of residence for a family of one or more persons. Examples of dwelling units covered by Chapter 11A include condominiums, an apartment unit within an apartment building, and other types of dwellings in which sleeping accommodations are provided but toileting or cooking facilities are shared by occupants of more than one room or portion of the dwelling. Examples of the latter include dormitory rooms and sleeping accommodations in shelters intended for occupancy as residences for homeless persons.

**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.~~

A dwelling unit constructed in accordance with Health and Safety Code Section 17958.1 or the California Building Code Section 1207.4.

**ELEVATOR, PASSENGER. (HCD 1 & HCD 2)** (No change to text)

**ENFORCEMENT. (HCD 1 & HCD 2)** (No change to text)

**ENFORCING AGENCY. (HCD 1 & HCD 2)** (No change to text)

**ENTRANCE.** (No change to text)

**EQUIVALENT FACILITATION.** (No change to text)

**EXTERIOR ELEVATED ELEMENTS.** Elevated balconies, decks, porches, stairways, landings, walkways, including their supports and railings, extending beyond exterior walls of a building or structure, with a walking surface, and designed for human occupancy or use.

**FAMILY (HCD 1).** (No change to text)

**GRAB BAR. (HCD 1-AC)** (No change to text)

**GRADE. (Adjacent Ground Elevation) (HCD 1-AC)** (No change to text)

**GROUND FLOOR.** (No change to text)

**GUARD (HCD 1, HCD 2 & HCD 1-AC) 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)** (No change to text)

**HOUSING AT A PLACE OF EDUCATION.** (No change to text)

**INTERNATIONAL SYMBOL OF ACCESSIBILITY.** (No change to text)

**KICK PLATE.** (No change to text)

**LABELED.** Equipment, materials or products to which have been affixed a label, seal, symbol or other identifying mark of a nationally recognized testing laboratory, approved 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.

**LAVATORY.** (No change to text)

**LEVEL AREA. (HCD 1-AC)** (No change to text)

**LIFT, PLATFORM (WHEELCHAIR). (HCD 1-AC)** (No change to text)

**LISTED.** Equipment, materials, products or services included in a list published by an organization acceptable to the building 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)** (No change to text)

**LOBBY. (HCD 1 & HCD 2)** (No change to text)

**LODGING HOUSE.** ~~A one-family dwelling where one or more occupants are primarily permanent in nature and rent is paid for guest rooms.~~

**LODGING HOUSE. (HCD 1 & HCD 1-AC)** (No change to text)

**MARKED CROSSING.** (No change to text)

**MOTEL. (HCD 1 & HCD 2)** (No change to text)

**MULTISTORY DWELLING UNIT. (HCD 1-AC)** (No change to text)

**NEWLY CONSTRUCTED. (HCD 1-AC)** (No change to text)

**NORMAL. (HCD 1 & HCD 2)** (No change to text)

**OPEN RISER.** (No change to text)

**OPERABLE PART.** (No change to text)

**PASSAGE DOOR. (HCD 1-AC)** (No change to text)

**PASSENGER ELEVATOR. (HCD 1 & HCD 2)** (No change to text)

**PASSIVE SOLAR ENERGY COLLECTOR. (HCD 1 & HCD 2)** (No change to text)

**PEDESTRIAN. (HCD 1-AC)** (No change to text)

**PEDESTRIAN WAY.** (No change to text)

**PERSONS WITH DISABILITIES. (HCD 1-AC)** (No change to text)

**PICTOGRAM.** (No change to text)

**PLACE OF PUBLIC ACCOMMODATION.** (No change to text)

**PLATFORM (WHEELCHAIR) LIFT.** (No change to text)

**POWDER ROOM.** (No change to text)

**PRIMARY ENTRY. (HCD 1-AC)** (No change to text)

**PRIMARY ENTRY LEVEL. (HCD 1-AC)** (No change to text)

**PUBLIC ENTITY.** (No change to text)

**PUBLIC HOUSING. (HCD 1-AC)** Housing facilities owned, operated, or constructed by, for or on behalf of a public entity including but not limited to the following:

1. Publically owned and/or operated one- or two- family dwelling units or congregate residences;
2. Publically owned and/or operated buildings or complexes with three or more residential dwelling units;
3. Reserved
4. Publically owned and/or operated homeless shelters, group homes and similar social service establishments;
5. Publically owned and/or operated transient lodging, such as hotels, motels, hostels and other facilities providing accommodations of a short term nature of not more than 30 days duration;
6. Housing at a place of education owned or operated by a public entity, such as housing on or serving a public school, public college or public university campus;
7. Privately owned housing made available for public use as housing.

~~**PUBLIC-USE AREAS.** Interior or exterior rooms or spaces that are made available to the general public.~~

**PUBLIC-USE AREAS. (HCD 1-AC)** (No change to text)

**RECOMMEND. (HCD 1 & HCD 2)**(No change to text)

**RISER.** (No change to text)

**RUNNING SLOPE.** (No change to text)

**SANITARY FACILITY. (HCD 1 & HCD 1-AC)** (No change to text)

**SHOULD. (HCD 1 & HCD 2)** (No change to text)

**SIDEWALK.** (No change to text)

**SIGN (HCD 1-AC, DSA-AC)** An element composed of displayed textural, verbal, symbolic, tactile, and/or pictorial information.

**SINGLE-ACCOMMODATION SANITARY FACILITY. (HCD 1-AC)** (No change to text)

**SINK.** (No change to text)

**SITE DEVELOPMENT. (HCD 1-AC)** (No change to text)

**SLEEPING ACCOMMODATIONS.** (No change to text)

**SLOPE. (HCD 1-AC)** (No change to text)

**SPACE.** (No change to text)

**TACTILE.** (No change to text)

**TACTILE SIGN.** (No change to text)

**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(~~mn~~).

**TEXT TELEPHONE.** (No change to text)

**TRANSIENT LODGING.** (No change to text)

**TREAD.** (No change to text)

**TTY.** (No change to text)

**UNREASONABLE HARDSHIP.** (No change to text)

**VEHICULAR OR PEDESTRIAN ARRIVAL POINTS. (HCD 1-AC)** (No change to text)

**VEHICULAR WAY.** (No change to text)

**WALK. (HCD 1-AC)** (No change to text)

**WHEELCHAIR. (HCD 1-AC)** (No change to text)

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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#### **4. HCD proposes to not adopt the following Chapter 2 definitions from the 2018 International Building Code:**

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

**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.

**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.

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

**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.

**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.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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.

**5. HCD proposes to adopt Chapter 3, except Section 308.3, from the 2018 International Building Code into the 2019 California Building Code, with new and existing amendments as follows:**

**CHAPTER 3  
OCCUPANCY CLASSIFICATION AND USE**

**SECTION 302  
OCCUPANCY CLASSIFICATION AND USE DESIGNATION**

**302.1 Occupancy classification.** Occupancy classification is the formal designation of the primary purpose of the building, structure or portion thereof. Structures shall be classified into one or more of the occupancy groups listed in this section based on the nature of the hazards and risks to building occupants generally associated with the intended purpose of the building or structure. An area, room or space that is intended to be occupied at different times for different purposes shall comply with all applicable requirements associated with such potential multipurpose. Structures containing multiple occupancy groups shall comply with Section 508. Where a structure is proposed for a purpose that is not specifically listed in this section, such structure shall be classified in the occupancy it most nearly resembles based on the fire safety and relative hazard. Occupied roofs shall be classified in the group that the occupancy most nearly resembles, according to the fire safety and relative hazard, and shall comply with Section 503.1.4.

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 453) or Group H (see Section 307).*
8. Mercantile (see Section 309): Group M.
9. *(SFM) Organized Camps (see Section 450): Group C.*
10. *(SFM) Research Laboratories (see Section 453): 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 310  
RESIDENTIAL GROUP R**

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

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

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

- Apartment houses
- Congregate living facilities (nontransient) with more than 16 occupants
- Boarding houses (nontransient)
- Convents
- Dormitories

Fraternities and sororities  
Monasteries  
Hotels (nontransient)  
Live/work units  
Motels (nontransient)  
Vacation timeshare properties  
**(HCD 1) Efficiency dwelling units (nontransient)**

**310.4 (Formerly 310.5) Residential Group R-3.** Residential Group R-3 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  
Care facilities that provide accommodations for five or fewer persons receiving care  
Congregate living facilities (nontransient) with 16 or fewer occupants  
Boarding houses (nontransient)  
Convents  
Dormitories  
Fraternities and sororities  
Monasteries

Congregate living facilities (transient) with 10 or fewer occupants  
Boarding houses (transient)

Lodging houses (transient) with five or fewer guest rooms and 10 or fewer occupants  
**(HCD 1) Efficiency dwelling units.**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**6. HCD proposes to adopt Chapter 4 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

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

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

**406.2.1 (Formerly 406.3.6) Automatic garage door openers and vehicular gates.** Automatic garage door openers shall be listed and labeled in accordance with UL 325. Where provided, automatic vehicular gates shall comply with Section 3110. See *Health and Safety Code Sections 19890 and 19891 for additional provisions for residential garage door openers.*

**406.2.2 (Formerly 406.3.2) Clear height.** The clear height of each floor level in vehicle and pedestrian traffic areas shall be not less than 7 feet (2134 mm). Canopies under which fuels are dispensed shall have a clear height in accordance with Section 406.7.2. **(HCD 1-AC)** *The clear height of vehicle and pedestrian areas required to be accessible shall comply with Chapter 11A.*

**Exception:** A lower clear height is permitted for a parking tier in mechanical-access open parking garages where approved by the building official.

**406.2.3 Accessible parking spaces.** Where parking is provided, accessible parking spaces, access aisles and vehicular routes serving accessible parking shall be provided in accordance with ~~Section 1106~~ **Chapter 11A**.

**406.2.7 Electric vehicle charging stations.** Where provided, electric vehicle charging stations shall be installed in accordance with ~~NFPA 70 the California Electrical Code and the California Green Building Standards Code~~. Electric vehicle charging system equipment shall be listed and labeled in accordance with UL 2202. Electric vehicle supply equipment shall be listed and labeled in accordance with UL 2594. Accessibility to electric vehicle charging stations shall be provided in accordance with Chapters **11A and/or 11B**.

**406.2.9 Equipment and appliances.** Equipment and appliances shall be installed in accordance with Sections 406.2.9.1 through 406.2.9.3 and the ~~International~~ **California** Mechanical Code, ~~International Fuel Gas~~ **California Plumbing Code**, and ~~NFPA 70 the California Electrical Code~~.

**406.4.1 (2016 CBC) 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.~~

## SECTION 419 LIVE/WORK UNITS

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

## SECTION 420 GROUPS I-1, R-1, R-2, R-2.1, R-3, R-3.1 AND R-4

**420.1 General.** Occupancies in Groups I-1, R-1, R-2, R-2.1, R-3, R-3.1 and R-4 shall comply with the provisions of Sections 420.1 through 420.10 and other applicable provisions of this code.

**420.10.1 Cooking appliances.** Where located in Group R-2 college dormitories, domestic cooking appliances for use by residents shall be in compliance with all of the following:

1. The types of domestic cooking appliances shall be limited to ovens, cooktops, ranges, warmers, coffee makers and microwaves.
2. Domestic cooking appliances shall be limited to approved locations.
3. Cooktops and ranges shall be protected in accordance with Section 904.13.
4. Cooktops and ranges shall be provided with a domestic cooking hood installed and constructed in accordance with ~~Section 505 of the International~~ **California** Mechanical Code **and the California Energy Code field verification requirements for low-rise and high-rise residential buildings**.

~~420.7~~ **420.11 (HCD 1) Construction waste management.** Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.4.

~~420.8~~ **420.12 Special provisions for residential hotels. (HCD 1 & HCD 1-AC)**

~~420.8.1~~ **420.12.1 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.

**420.9 420.13 (HCD 1) Electric vehicle (EV) charging for new construction.** Newly constructed Group **R-1, R-2** and **R-3** buildings shall be provided with ~~an~~ infrastructure to facilitate future installation and use of electric vehicle (EV) chargers in accordance with the California Green Building Standards Code (CALGreen), Chapter 4, Division 4.1.

### NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

**7. HCD proposes to adopt Chapter 5 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

**CHAPTER 5  
GENERAL BUILDING HEIGHTS AND AREAS**

**SECTION 503  
GENERAL BUILDING HEIGHT AND AREA LIMITATIONS**

**503.1 General.** Unless otherwise specifically modified in Chapter 4 and this chapter, building height, number of stories and building area shall not exceed the limits specified in Sections 504 and 506 based on the type of construction as determined by Section 602 and the occupancies as determined by Section 302 except as modified hereafter. Building height, number of stories and building area provisions shall be applied independently. For the purposes of determining area limitations, height limitations and type of construction, 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)** (No change to text)

**TABLE 504.3  
ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE<sup>a</sup>**

OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION									
	SEE FOOTNOTES	TYPE I		TYPE II		TYPE III		TYPE IV	TYPE V	
		A	B	A	B	A	B	HT	A	B
R <sup>h</sup>	NS <sup>d</sup>	UL	160	65	55	65	55	65	50	40
	S13D	60	60	60	60	60	60	60	50	40
	S13R	60	60	60	60	60	60	60	60	60
	S	UL	180	85	75	85	75	85	70	60

**For SI: 1 foot = 304.8 mm.**

UL = Unlimited; NS = Buildings not equipped throughout with an automatic sprinkler system; S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2; S13D = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3. Footnotes a, b, e and g (No change to text.)

- d. The NS value is only for use in evaluation of existing building height in accordance with the International Existing Building Code.
- f. New and existing Group I-2 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6 and Section 1103.5 of the International Fire Code.
- h. New Group R occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.8. **Accessory dwelling units as defined in Government Code Section 65852.2(i)(4) are not required to have fire sprinklers if they are not required for the primary residence.**

**TABLE 504.4  
ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE<sup>a, b</sup>**

OCCUPANCY CLASSIFICATION		TYPE OF CONSTRUCTION									
		SEE FOOTNOTES	TYPE I		TYPE II		TYPE III		TYPE IV	TYPE V	
			A	B	A	B	A	B	HT	A	B
R-1 <sup>h</sup>	NS <sup>d</sup>	UL	11	4	4	4	4	4	3	2	
	S13R	4	4						4	3	
	S	UL	12	5	5	5	5	5	4	3	
R-2 <sup>h</sup>	NS <sup>d</sup>	UL	11	4	4	4	4	4	3	2	
	S13R	4	4	4					4	3	
	S	UL	12	5	5	5	5	5	4	3	
R-3 <sup>h</sup>	NS <sup>d</sup>	UL	11	4	4	4	4	4	3	3	
	S13D	4	4						3	3	
	S13R	4	4						4	4	
	S	UL	12	5	5	5	5	5	4	4	
R-4 <sup>h</sup>	NS <sup>d</sup>	UL	11	4	4	4	4	4	3	2	
	S13D	4	4						3	2	
	S13R	4	4						4	3	
	S	UL	12	5	5	5	5	5	4	3	

UL = Unlimited; NP = Not Permitted; NS = Buildings not equipped throughout with an automatic sprinkler system; S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2; S13D = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3.

Footnotes a, b, c, e, and g. (No change to text.)

- d. The NS value is only for use in evaluation of existing building height in accordance with the International Existing Building Code.
- f. New and existing Group I-2 occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.6 and 1103.5 of the International Fire Code.
- h. New Group R occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.8. Accessory dwelling units as defined in Government Code Section 65852.2(i)(4) are not required to have fire sprinklers if they are not required for the primary residence.

**TABLE 506.2**  
**ALLOWABLE AREA FACTOR ( $A_t$  = NS, S1, S13R, S13D or SM, as applicable) IN SQUARE FEET<sup>a, b</sup>**

OCCUPANCY CLASSIFICATION	SEE FOOTNOTES	TYPE OF CONSTRUCTION								
		TYPE I		TYPE II		TYPE III		TYPE IV	TYPE V	
		A	B	A	B	A	B	HT	A	B
R-1 <sup>h</sup>	NS <sup>d</sup>	UL	UL	24,000	16,000	24,000	16,000	20,500	12,000	7,000
	S13R			96,000	64,000	96,000	64,000	82,000	48,000	28,000
	S1	UL	UL	96,000	64,000	96,000	64,000	82,000	48,000	28,000
	SM	UL	UL	72,000	48,000	72,000	48,000	61,500	36,000	21,000
R-2 <sup>h</sup>	NS <sup>d</sup>	UL	UL	24,000	16,000	24,000	16,000	20,500	12,000	7,000
	S13R			96,000	64,000	96,000	64,000	82,000	48,000	28,000
	S1	UL	UL	96,000	64,000	96,000	64,000	82,000	48,000	28,000
	SM	UL	UL	72,000	48,000	72,000	48,000	61,500	36,000	21,000
R-3 <sup>h</sup>	NS <sup>d</sup>	UL	UL	UL	UL	UL	UL	UL	UL	UL
	S13D									
	S13R									
	S1									
	SM									
R-4 <sup>h</sup>	NS <sup>d</sup>	UL	UL	24,000	16,000	24,000	16,000	20,500	12,000	7,000
	S13D			96,000	64,000	96,000	64,000	82,000	48,000	28,000
	S13R			96,000	64,000	96,000	64,000	82,000	48,000	28,000
	S1	UL	UL	96,000	64,000	96,000	64,000	82,000	48,000	28,000
	SM	UL	UL	72,000	48,000	72,000	48,000	61,500	36,000	21,000

**ALLOWABLE AREA FACTOR ( $A_t$  = NS, S1, S13R, S13D or SM, as applicable) IN SQUARE FEET<sup>a, b</sup>**

For S1: 1 square foot = 0.0929 m<sup>2</sup>.

UL = Unlimited; NP = Not Permitted; NS = Buildings not equipped throughout with an automatic sprinkler system; S1 = Buildings a maximum of one story above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; SM = Buildings two or more stories above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1; S13R = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2; S13D = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3.

Footnotes a – g and i. (No change to text.)

- h. New Group R occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.8. Accessory dwelling units as defined in Government Code Section 65852.2(i)(4) are not required to have fire sprinklers if they are not required for the primary residence.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

**8. HCD proposes to adopt Chapter 6 from the 2018 International Building Code into the 2019 California Building Code with existing amendment as follows:**

**CHAPTER 6  
TYPES OF CONSTRUCTION**

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

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

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**9. HCD proposes to adopt Chapter 7 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments 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 this 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 E119 or UL 263. However, this section shall not prohibit or limit the duties and powers of the building official allowed by Sections 104.10, 104.11 *and 1.8.7, as applicable*.

**SECTION 721  
PRESCRIPTIVE FIRE RESISTANCE**

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

***721.2.1 Use and application. (HCD 1 & HCD 2) (No change to text)***

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**10. HCD proposes to adopt Chapter 8 from the 2018 International Building Code into the 2019 California Building Code without amendments:**

**CHAPTER 8  
INTERIOR FINISHES**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**11. HCD proposes to adopt Chapter 9 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

**CHAPTER 9  
FIRE PROTECTION AND LIFE SAFETY SYSTEMS**

**SECTION 904  
ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS**

**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**

**907.5.2.3.3 Group R-2.** In Group R-2 occupancies required by Section 907 to have a fire alarm system, each story that contains dwelling units and sleeping units shall be provided with the capability to support visible alarm notification appliances in accordance with ~~Chapter 11 of ICC A117.4~~ *NFPA 72*. Such capability shall accommodate wired or wireless equipment. The future capability shall include one of the following:

1. The interconnection of the building fire alarm system with the unit smoke alarms.  
... (No change to text)
3. The 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~~ *the 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 915  
CARBON MONOXIDE DETECTION**

**915.1 General.** Carbon monoxide detection shall be installed in new *and existing* buildings in accordance with Sections 915.1.1 through ~~915.6~~ 915.7. ~~Carbon monoxide detection shall be installed in existing buildings in accordance with Chapter 11 of the International Fire Code.~~

*Pursuant to Health and Safety Code Section 17926, carbon monoxide detection shall be installed in all existing Group R buildings as required in Section 915.*

**915.2 Locations.** Where required by Section 915.1.1, carbon monoxide detection shall be installed *in accordance with the manufacturer's published instructions* in the locations specified in Sections 915.2.1 through 915.2.3.

**915.2.1 Dwelling units.** Carbon monoxide detection shall be installed in dwelling units *in the following locations:*

1. ~~outside~~ Outside of each separate sleeping area in the immediate vicinity of the bedrooms.
2. *On every occupiable level of a dwelling unit, including basements.*
3. Where a fuel-burning appliance is located within a bedroom or its attached bathroom, carbon monoxide detection shall be installed within the bedroom.

**915.4 Carbon monoxide alarms.** Carbon monoxide alarms shall comply with Sections 915.4.1 through ~~915.4.4~~ **915.4.5.**

**915.4.1 Power source.** Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than that required for overcurrent protection.

**Exceptions:**

1. Where installed in buildings without commercial power, battery-powered carbon monoxide alarms shall be an acceptable alternative.
2. *Carbon monoxide alarms in Group R occupancies shall be permitted to receive their primary power from other power sources recognized for use by NFPA 720.*
3. *Carbon monoxide alarms in Group R occupancies shall be permitted to be battery-powered or plug-in with a battery backup in existing buildings built prior to January 1, 2011, under any of the following conditions:*
  - 3.1. *No construction is taking place.*
  - 3.2. *Repairs or alterations do not result in the removal of interior wall and ceiling finishes exposing the structure in areas/spaces where carbon monoxide alarms are required.*
  - 3.3. *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.*
  - 3.4. *Work is limited to the installation, alteration or repair of plumbing, mechanical or electrical systems, which do not result in the removal of interior wall or ceiling finishes exposing the structure in areas/spaces where carbon monoxide alarms are required.*

**915.4.2 Listings.** Carbon monoxide alarms shall be listed in accordance with UL 2034.

*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 Office of the State Fire Marshal.*

**915.4.4 Combination alarms. (formerly 915.4.3)** Combination carbon monoxide/smoke alarms shall be an acceptable alternative to carbon monoxide alarms. Combination carbon monoxide/smoke alarms shall be listed in accordance with UL 2034 and UL 217.

*Combination carbon monoxide/smoke alarms shall comply with Section 915, and all requirements for listing and approval by the Office of the State Fire Marshal for smoke alarms.*

**~~915.4.4~~ 915.4.5 Interconnection.** *Where more than one carbon monoxide alarm is required to be installed within a dwelling unit or within a sleeping unit in Group R occupancies, the alarms shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.*

**Exception:** Interconnection is not required in existing buildings, built prior to January 1, 2011, under any of the following conditions:

1. Physical interconnection is not required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.
2. No construction is taking place.
3. Repairs or alterations do not result in the removal of interior wall and ceiling finishes exposing the structure in areas/spaces where carbon monoxide alarms are required.
4. 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.
5. Work is limited to the installation, alteration or repair of plumbing, mechanical, or electrical systems, which do not result in the removal of interior wall or ceiling finishes exposing the structure in areas/spaces where carbon monoxide alarms are required.

**915.5 Carbon monoxide detection systems.** (No change to text)

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

**915.5.2 Locations.** Carbon monoxide detectors shall be installed in the locations specified in Section 915.2 or NFPA 720. ~~These locations supersede the locations specified in NFPA 720.~~

**915.5.3 Combination detectors.** Combination carbon monoxide/smoke detectors installed in carbon monoxide detection systems shall be an acceptable alternative to carbon monoxide detectors, provided that they are listed in accordance with UL 2075 and UL 268.

*Combination carbon monoxide/smoke detectors shall comply with all requirements for listing and approval by the Office of the State Fire Marshal for smoke alarms.*

**915.6 Maintenance.** Carbon monoxide alarms and carbon monoxide detection systems shall be maintained in accordance with ~~the International Fire Code~~ NFPA 720. Carbon monoxide alarms and carbon monoxide detectors that become inoperable or begin producing end-of-life signals shall be replaced.

**915.7 Visible alarms.** (No change to text)

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**12. HCD proposes to adopt Chapter 10 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

**CHAPTER 10  
MEANS OF EGRESS**

**(Formerly) SECTION 1002  
DEFINITIONS**

**GUARD ((HCD 1, HCD 2 & HCD 1-AC) or GUARDRAIL).**

**SECTION 1003  
GENERAL MEANS OF EGRESS**



**1003.1 Applicability.** The general requirements specified in Sections 1003 through 1015 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, shall also comply with Chapter 11A.*

**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.

**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 1012 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.
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 where the risers and treads comply with Section 1011.5, the minimum depth of the tread is 13 inches (330 mm) and at least one handrail complying with Section 1014 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, provided that the risers and treads comply with Section 1029.14 and the aisle is provided with a handrail complying with Section 1029.16.

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 1009 ACCESSIBLE MEANS OF EGRESS**

**1009.1 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 is required by Section 1006.2 or 1006.3 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 Sections 1006.2 or 1006.3. 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.*

**Exceptions:**

1. One accessible means of egress is required from an accessible mezzanine level in accordance with Section 1009.3, 1009.4 or 1009.5, *and Chapter 11A.*
2. In assembly areas with ramped aisles or stepped aisles, one accessible means of egress is permitted where the common path of egress travel is accessible and meets the requirements in Section 1029.8, *and Chapter 11A.*

**1009.2 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.*
2. Interior exit stairways complying with Sections 1009.3 and 1023, *and Chapter 11A, Section 1123A.*
3. Exit access stairways complying with Sections 1009.3 and 1019.3 or 1019.4, *and Chapter 11A, Section 1123A.*
4. Exterior exit stairways complying with Sections 1009.3 and 1027, *and Chapter 11A, Section 1115A;* and serving levels other than the level of exit discharge.
5. Elevators complying with Section 1009.4 *and Chapter 11A, Section 1124A.*



6. Platform lifts complying with Section 1009.5 and Chapter 11A, Section 1124A.
7. Horizontal exits complying with Section 1026.
8. Ramps complying with Section 1012 and Chapter 11A, Sections 1114A and 1122A.
9. Areas of refuge complying with Section 1009.6.
10. Exterior areas for assisted rescue complying with Section 1009.7 serving exits at the level of exit discharge.

**1009.3 Stairways.** In order to be considered part of an accessible means of egress, a stairway between stories shall comply with Sections 1009.3.1 through 1009.3.3.

**(HCD 1-AC)** In addition, exit stairways shall comply with Chapter 11A, Sections 1115A and 1123A.

**1009.5 Platform lifts.** Platform lifts shall be permitted to serve as part of an accessible means of egress where allowed as part of a required accessible route in ~~Section 1109.8 except for Item 10.~~ Chapter 11A, Sections 1121A and 1124A. 11. Standby power for the platform lift shall be provided in accordance with Chapter 27.

**1009.6 Area of refuge....**(No change to text)

**1009.6.3 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). ~~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 or required capacity. 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:** (No change to text)

**1009.8 Two way communication.** (No change to text)

**1009.8.1 System requirements.** (No change to text)

**1009.8.1.1 Visible communication method.** (HCD 1-AC) (No change to text)

**1009.8.2 Directions.** Directions for the use of the two-way communication system, instructions for summoning assistance via the two-way communication system and written identification of the location shall be posted adjacent to the two-way communication system. Signage shall comply with ~~the ICC A117.1 Chapter 11A, Section 1143A~~ requirements for visual characters.

**1009.9 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 Chapter 11A, Section 1143A~~ requirements for visual characters and include the International Symbol of Accessibility. Where exit sign illumination is required by Section 1013.3, the signs shall be illuminated. Additionally, visual characters, raised character and braille signage complying with ~~ICC A117.1 Chapter 11A, Section 1143A~~, shall be located at each door to an area of refuge and exterior area for assisted rescue in accordance with Section 1013.4. *The International Symbol of Accessibility shall comply with Chapter 11A, Section 1143A.*

**1009.11 Instructions.** In areas of refuge and exterior areas for assisted rescue, instructions on the use of the area under emergency conditions shall be posted. Signage shall comply with ~~the ICC A117.1 Chapter 11A, Section 1143A~~ requirements for visual characters. The instructions shall include all of the following:

1. Persons able to use the exit stairway do so as soon as possible, unless they are assisting others.
2. Information on planned availability of assistance in the use of stairs or supervised operation of elevators and how to summon such assistance.

3. Directions for use of the two-way communication system where provided.

**1009.12 Alarms/emergency warning systems/accessibility.** (No change to text)

**SECTION 1010  
DOORS, GATES AND TURNSTILES**

**1010.1.1 Size of doors.** The required capacity of each door opening shall be sufficient for the occupant load thereof and shall provide a minimum clear opening width of 32 inches (813 mm). The clear opening width 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 opening width of 32 inches (813 mm) and a door opening includes two door leaves without a mullion, one leaf shall provide a minimum clear opening width of 32 inches (813 mm). In Group I-2, doors serving as means of egress doors where used for the movement of beds shall provide a minimum clear opening width of 41 1/2 inches (1054 mm). The maximum width of a swinging door leaf shall be 48 inches (1219 mm) nominal. The minimum clear opening height of doors shall be not less than 80 inches (2032 mm).

**Exceptions:**

1. In Group R-2 and R-3 dwelling and sleeping units that are not required to be an Accessible unit, Type A unit or Type B unit, adaptable or accessible as specified in Chapter 11A, the minimum and maximum width shall not apply to door openings that are not part of the required means of egress.
2. In Group I-3, door openings to resident sleeping units that are not required to be an Accessible unit adaptable or accessible as specified in Chapter 11A, shall have a minimum clear opening width of 28 inches (711 mm).
3. ... (No change to text)
4. ... (No change to text)
5. ... (No change to text)
6. ... (No change to text)
7. In dwelling and sleeping units that are not required to be Accessible, Type A or Type B units, adaptable or accessible as specified in Chapter 11A, exterior door openings other than the required exit door shall have a minimum clear opening height of 76 inches (1930 mm).
8. In Groups I-1, R-2, R-3 and R-4, in dwelling and sleeping units that are not required to be Accessible, Type A or Type B units, adaptable or accessible as specified in Chapter 11A, the minimum clear opening widths shall not apply to interior egress doors. **(Formerly Item 7)**
9. ~~Door openings required to be accessible within Type B units intended for user passage shall have a minimum clear width of 31.75 inches (806 mm).~~
10. ~~9.~~ Doors to walk-in freezers and coolers less than 1,000 square feet (93 m<sup>2</sup>) in area shall have a maximum width of 60 inches (1524 mm) nominal.
11. ~~10.~~ The minimum clear opening width shall not apply to doors for nonaccessible nonadaptable or nonaccessible shower or sauna compartments, as specified in Chapter 11A. **(Formerly Item 9)**
12. ~~11.~~ The minimum clear opening width shall not apply to the doors for nonaccessible nonadaptable or nonaccessible toilet stalls.

**1010.1.4.1 Revolving doors.** Revolving doors shall comply with the following:

1. Revolving doors shall comply with BHMA A156.27 and shall be installed in accordance with the manufacturer's instructions.
- ... (No change to text)
7. Revolving doors shall not be part of an accessible route required by Section 1009 and ~~Chapter 11~~ Chapter 11A.

**1010.1.5 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. ....(No change to text)
2. ... (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.
4. ... (No change to text)
5. Exterior decks, patios or balconies that are part of ~~Type B~~ *adaptable or accessible* 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. *See also Chapter 11A, Section 1132A.4.*
6. Doors serving equipment spaces not required to be *adaptable or* accessible *in accordance with Section 1103.2.9* and serving an occupant load of five or less shall be permitted to have a landing on one side to be not more than 7 inches (178 mm) above or below the landing on the egress side of the door.

**1010.1.7 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).

**Exceptions:**

1. 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:
  - 1.1. The door is not part of the required means of egress.
  - 1.2. The door is not part of an accessible route as required by *Chapter 11A*.
  - 1.3. The door is not part of an ~~Accessible unit, Type A unit or Type B unit~~ *adaptable or accessible dwelling unit*.
2. In ~~Type B~~ *adaptable or accessible dwelling* units, where Exception 5 to Section 1010.1.5 permits a 4-inch (102 mm) elevation change at the door, the threshold height on the exterior side of the door shall not exceed 4 3/4 inches (120 mm) in height above the exterior deck, patio or balcony for sliding doors or 4 1/2 inches (114 mm) above the exterior deck, patio or balcony for other doors.

**1010.1.8 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. (No change to text)
2. (No change to text)
3. Doors within individual dwelling units in Groups R-2 and R-3 other than ~~within Type A~~ *adaptable or accessible* dwelling units.

**1010.1.9.1 Hardware.** Door handles, pulls, latches, locks and other operating devices on doors required to be accessible by Chapter 11A shall not require tight grasping, tight pinching or twisting of the wrist to operate.

**SECTION 1012  
RAMPS**

**1012.1 Scope.** The provisions of this section shall apply to ramps used as a component of a means of egress.

**Exceptions:**

1. Ramped aisles within assembly rooms or spaces shall comply with the provisions in Section 1029.
2. Curb ramps shall comply with ~~ICC A117.1 Chapter 11A.~~
3. Vehicle ramps in parking garages for pedestrian exit access shall not be required to comply with Sections 1012.3 through 1012.10 where they are not an accessible route serving accessible parking spaces, other required accessible elements or part of an accessible means of egress.

**1012.6.3 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.

**1012.6.4 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.

**1012.6.5 Doorways.** Where doorways are located adjacent to a ramp landing, maneuvering clearances required by ~~ICC A117.1 for accessibility~~ are permitted to overlap the required landing area *as specified in Chapter 11A.*

**1012.10 Edge protection.** Edge protection complying with Section 1012.10.1 or 1012.10.2 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 A117.1 curb ramp provisions Chapter 11A.~~
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.

## **SECTION 1014 HANDRAILS**

**1014.8 Projections.** On ramps and on ramped aisles that are part of an accessible route, the clear width between handrails shall be 36 inches (914 mm) minimum. Projections into the required width of aisles, stairways and ramps at each side shall not exceed 4 1/2 inches (114 mm) at or below the handrail height. Projections into the required width shall not be limited above the minimum headroom height required in Section 1011.3. Projections due to intermediate handrails shall not constitute a reduction in the egress width. Where a pair of intermediate handrails are provided within the stairway width without a walking surface between the pair of intermediate handrails and the distance between the pair of intermediate handrails is greater than 6 inches (152 mm), the available egress width shall be reduced by the distance between the closest edges of each such intermediate pair of handrails that is greater than 6 inches (152 mm).

*(HCD 1-AC) In addition, projections shall comply with Chapter 11A, when applicable.*

## **SECTION 1015 GUARDS**

**1015.3 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 stairways and stepped aisles, from the line connecting the leading edges of the tread nosings.
3. On ramps and ramped aisles, 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.~~
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.
2. For occupancies in Group R-3, and within individual dwelling units in occupancies in Group R-2, where the top of the guard serves as a handrail on the open sides of stairs, the top of the guard shall be not 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.
3. The guard height in assembly seating areas shall comply with Section 1029.17 as applicable.
4. Along alternating tread devices and ship ladders, guards where the top rail 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.
- 6.5.** In Group F occupancies where exit access stairways serve fewer than three stories and such stairways are not open to the public, and where the top of the guard also serves as a handrail, the top of the guard shall be not 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.

**1015.8 Window openings.** Windows in Group R-1, R-2 and R-3 buildings including dwelling units, where the top of the sill of an operable window opening is located less than 36 inches above the finished floor and more than 72 inches (1829 mm) above the finished grade or other surface below on the exterior of the building, shall comply with one of the following:

1. Operable windows where the top of the sill of the opening is located more than 75 feet (22 860 mm) above the finished grade or other surface below and that are provided with window fall prevention devices that comply with ASTM F 2006.
2. Operable windows where the openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the window is in its largest opened position.
3. Operable windows where the openings are provided with window fall prevention devices that comply with ASTM F 2090.
4. Operable windows that are provided with window opening control devices that comply with Section 1015.8.1.

## SECTION 1023 INTERIOR EXIT STAIRWAYS AND RAMPS

**1023.9 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 stairway 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 visual characters, raised characters and braille complying with ~~ICC A117.1~~ *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, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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### **13. HCD proposes NOT to adopt Chapter 11 from the 2018 International Building Code.**

#### **CHAPTER 11 ACCESSIBILITY**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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### **14. HCD proposes to continue to adopt Chapter 11A from the 2016 California Building Code into the 2019 California Building Code with no modifications.**

#### **CHAPTER 11A HOUSING ACCESSIBILITY**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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### **15. HCD proposes to adopt Chapter 12 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

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

##### **SECTION 1202 VENTILATION (Formerly 1203)**

**1202.1 (Formerly 1203.1) General.** Buildings shall be provided with natural ventilation in accordance with Section 1202.5, 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 where tested with a blower door at~~

~~a pressure 0.2-inch w.c. (50 Pa) in accordance with Section R402.4.1.2 of the International Energy Conservation Code—Residential Provisions, the dwelling unit shall be ventilated by mechanical means in accordance with Section 403 of the International Mechanical Code. Ambulatory care facilities and Group I-2 occupancies shall be ventilated by mechanical means in accordance with Section 407 of the International Mechanical Code.~~

**1202.2 Roof ventilation.** Roof assemblies shall be ventilated in accordance with this section or shall comply with Section 1202.3.

**1202.2.1 Ventilated attics and rafter spaces. (Formerly 1203.2 Ventilation required).** 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 be not less than 1/150 of the area of the space ventilated. Ventilators shall be installed in accordance with manufacturer's installation instructions.

**Exception:** The net free cross-ventilation area shall be permitted to be reduced to 1/300 provided both of the following conditions are met:

1. In Climate Zones ~~6, 7 and 8~~ 14 and 16, a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.
2. At least 40 percent and not more than 50 percent of the required venting area is provided by ventilators located in the upper portion of the attic or rafter space. Upper ventilators shall be located not more than 3 feet (914 mm) below the ridge or highest point of the space, measured vertically, with the balance of the 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.

**1202.3 (Formerly 1203.3) Unvented attic and unvented enclosed rafter assemblies.** Unvented attics and unvented enclosed roof framing assemblies created by ceilings applied directly to the underside of the roof framing members/rafters and the structural roof sheathing at the top of the roof framing members shall be permitted where all of the following conditions are met:

1. The unvented attic space is completely within the building thermal envelope.
2. No interior Class I vapor retarders are installed on the ceiling side (attic floor) of the unvented attic assembly or on the ceiling side of the unvented enclosed roof framing assembly.
3. Where wood shingles or shakes are used, not less than a 1/4-inch (6.4 mm) vented airspace separates the shingles or shakes and the roofing underlayment above the structural sheathing.
4. In Climate Zones ~~5, 6, 7 and 8~~, 14 and 16, any air-impermeable insulation shall be a Class II vapor retarder or shall have a Class II vapor retarder coating or covering in direct contact with the underside of the insulation.

*See the California Energy Code, FIGURE 100.1-A —California Climate Zones.*

- 4.1 **(HCD 1 & HCD 2)** *In Climate Zones 14 and 16, a Class I or Class II vapor retarder shall be installed on the indirectly conditioned space side of all insulation in an unvented attic with air-permeable insulation, for condensation control.*

5. Insulation shall be located in accordance with the following:

- 5.1. Item 5.1.1, 5.1.2, 5.1.3 or 5.1.4 shall be met, depending on the air permeability of the insulation directly under the structural roof sheathing. *No insulation shall be required when roof tiles, wood shingles or wood shakes, or any other roofing system using battens and no continuous underlayment is installed. A continuous underlayment shall be considered to exist if sheathing, roofing paper or any continuous layer having a perm rate of no more than one perm under the dry cup method is present.*

- 5.1.1. Where only air-impermeable insulation is provided, it shall be applied in direct contact with the underside of the structural roof sheathing.



- 5.1.2. Where air-permeable insulation is provided inside the building thermal envelope, it shall be installed in accordance with Item 5.1.1. In addition to the air-permeable insulation installed directly below the structural sheathing, rigid board or sheet insulation shall be installed directly above the structural roof sheathing in accordance with the R-values in Table 1202.3 for condensation control.
- 5.1.3. Where both air-impermeable and air-permeable insulation are provided, the air-impermeable insulation shall be applied in direct contact with the underside of the structural roof sheathing in accordance with Item 5.1.1 and shall be in accordance with the R-values in Table 1202.3 for condensation control. The air-permeable insulation shall be installed directly under the air-impermeable insulation.
- 5.1.4. Alternatively, sufficient rigid board or sheet insulation shall be installed directly above the structural roof sheathing to maintain the monthly average temperature of the underside of the structural roof sheathing above 45°F (7°C). For calculation purposes, an interior air temperature of 68°F (20°C) is assumed and the exterior air temperature is assumed to be the monthly average outside air temperature of the three coldest months.
- 5.2. Where preformed insulation board is used as the air-impermeable insulation layer, it shall be sealed at the perimeter of each individual sheet interior surface to form a continuous layer.

**Exceptions:**

1. Section 1202.3 does not apply to special use structures or enclosures such as swimming pool enclosures, data processing centers, hospitals or art galleries.
2. Section 1202.3 does not apply to enclosures in Climate Zones 5 through 8, 14 and 16 that are humidified beyond 35 percent during the three coldest months.

**TABLE 1203.3  
INSULATION FOR CONDENSATION CONTROL**

CLIMATE ZONE	MINIMUM R-VALUE OF AIR-IMPERMEABLE INSULATION <sup>a</sup>
<del>2B and 3B</del> 6-15 tile roof only	0 (none required)
1, <del>2A, 2B, 3A, 3B, 3C</del> 3-15	R-5
<del>4C</del> 1&2	R-10
<del>4A, 4B</del> 16	R-15
5	R-20
6	R-25
7	R-30
8	R-35

- a. Contributes to, but does not supersede, thermal resistance requirements for attic and roof assemblies in ~~Section C402.2.4 of the International California Energy Conservation Code~~

**1202.5 (Formerly 1203.5) 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) 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) 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) The windows, doors, louvers or other approved closeable openings not required by Section ~~4029~~ 1030 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.

**1202.5.2.1 (Formerly 1203.5.2.1) Bathrooms.** Rooms containing bathtubs, showers, spas and similar bathing fixtures shall be mechanically ventilated in accordance with the ~~International~~ California Mechanical Code.

*The minimum exhaust rate shall not be less than that established by Table 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 1203 TEMPERATURE CONTROL (Formerly 1204)**

**1203.1 (Formerly 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.

### **Exceptions:**

1. Space heating systems are not required for:
  - 4 1.1. Interior spaces where the primary purpose of the space is not associated with human comfort.
  - 2 1.2 Group F, H, S or U occupancies.
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. Nonconditioned passive solar energy collectors are exempt from compliance with the California Energy Code.

## **SECTION 1204 LIGHTING (Formerly 1205)**

**1204.1 (Formerly 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 1204.2 or shall be provided with artificial light in accordance with Section 1204.3. Exterior glazed openings shall open directly onto a public way or onto a yard or court in accordance with Section 1205.

**(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.

**1204.4 (Formerly 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). Stairways in other occupancies shall be governed by Chapter 10.

**1204.4.1 (Formerly 1205.4.1) Controls.** The control for activation of the required stairway lighting shall be in accordance with ~~NEPA-70~~ the California Electrical Code.

**SECTION 1206  
SOUND TRANSMISSION  
(Formerly 1207)**

**1206.3 (Formerly 1207.3) Structure-borne sound.** Floor-ceiling assemblies between dwelling units and sleeping units or between a dwelling unit or sleeping unit and a public or service area within the structure shall have an impact insulation class rating of not less than 50, or not less than 45 if field tested, where tested in accordance with ASTM E 492. Alternatively, the impact insulation class of floor-ceiling assemblies shall be established by engineering analysis based on a comparison of floor-ceiling assemblies having impact insulation class ratings as determined by the test procedures in ASTM E492.

***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.*

**1206.4 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 (L<sub>dn</sub>) or the community noise equivalent level (CNEL), consistent with the noise element of the local general plan.

**SECTION 1207  
INTERIOR SPACE DIMENSIONS  
(Formerly 1208)**

**1207.1 (Formerly 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)** 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.*

**1207.4 (Formerly 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.

**SECTION ~~1211~~ 1210 (HCD 1 & HCD 2)  
GARAGE DOOR SPRINGS**

**~~1211.1~~ 1210.1 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~~ 1210.1.1 Extension-g Garage door extension springs.** Every extension garage door extension 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-227-06 (2011)~~ A227/A227M-17 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-229-12~~ A229/A229M-17 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.

**1241.2 1210.2 Design standards.** Minimum design standard shall be 9,000 cycles. (One cycle is equal to door opening plus door closing at maximum working load an action on the door from the fully closed position, to the fully open position, and returned to the fully closed position.)

**1241.3 1210.3 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 spring 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.~~

**1241.4 1210.4 Containment Restraining 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. Restraining devices shall be physically tested for each extension spring family of products in accordance with ANSI/DASMA 103-2001 (R2006) or an equivalent standard. Tests shall be certified by an approved testing agency acceptable to the department. Test reports shall be kept on file by the manufacturer responsible for the restraining device.

**1241.5 1210.5 Identification.** Extension springs, or door systems with extension springs; and restraining devices shall be permanently identified as to manufacturer and also to shall indicate maximum recommended stretch. Both extension springs and containment restraining devices shall bear information stating that they have been manufactured in accordance with requirements of the California Department of Housing and Community Development.

**1241.6 1210.6 Installation.** Installation of extension springs, ~~containment~~ restraining devices and hardware shall be in accordance with the door manufacturer's installation instructions. Instructions shall be provided by the door manufacturer and shall specify the approved method of restraint and maximum recommended stretch. Unless otherwise permitted by the door manufacturer's installation instructions, the hardware and extension springs shall be mounted to nominal 12 by 6 framing members, conforming to the applicable provisions of Section 2303.

## **SECTION 1242 1211 (HCD 1)** **POLLUTANT CONTROL**

**1242.4 1211.1 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, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

## **16. HCD proposes NOT to adopt Chapter 13 from the 2018 International Building Code.**

### **CHAPTER 13 ENERGY EFFICIENCY**

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **17. HCD proposes to adopt Chapter 14, except Table 1405.3.2, from the 2018 International Building Code into the 2019 California Building Code with existing amendments as follows:**

### **CHAPTER 14 EXTERIOR WALLS**

#### **SECTION 1404 INSTALLATION OF WALL COVERINGS**

**1404.3 (Formerly 1405.3) Vapor retarders.** Vapor retarders as described in Section 1405.3.3 shall be provided in accordance with Sections 1405.3.1 and 1405.3.2, or an approved design using accepted engineering practice for hydrothermal analysis.

**1404.3.1 (Formerly 1405.3.1) Class I and II vapor retarders.** Class I and II vapor retarders shall not be provided on the interior side of frame walls in Zones 1 and 2. Class I vapor retarders shall not be provided on the interior side of frame walls in Zones 3 and 4 other than Marine 4. 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 *California Energy Code-Commercial Provisions*.

*(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 in Climate Zones 14 and 16, as required in the California Energy Code (see 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.
4. Conditions where Class III vapor retarders are required in Section 1404.3.2.

**1404.3.2 (Formerly 1405.3.2) Class III vapor retarders.** Class III vapor retarders shall be permitted where any one of the conditions in Table 1404.3.2 is met. Only Class III vapor retarders shall be used on the interior side of frame walls where foam plastic insulating sheathing with a perm rating of less than 1 is applied in accordance with Table 1404.3.2 on the exterior side of the frame wall.

*(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 the California Energy Code.*

1. Vented cladding over fiberboard
2. Vented cladding over gypsum
3. Insulated sheathing with  $R\text{-value} \geq R4$

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  $R\text{-value}$  meets or exceeds the specified insulating sheathing  $R\text{-value}$ .

**TABLE 1404.3.2 (Formerly TABLE 1405.3.2)**  
**CLASS III VAPOR RETARDERS**  
**(Not adopted by HCD 1 & HCD 2)**

ZONE	CLASS III VAPOR RETARDERS PERMITTED FOR: <sup>a</sup>
Marine 4	Vented cladding over wood structural panels Vented cladding over fiberboard Vented cladding over gypsum Continuous insulation with $R\text{-value} \geq R2.5$ over 2×4 wall Continuous insulation with $R\text{-value} \geq R3.75$ over 2×6 wall
5	Vented cladding over wood structural panels Vented cladding over fiberboard Vented cladding over gypsum Continuous insulation with $R\text{-value} \geq R5$ over 2×4 wall Continuous insulation with $R\text{-value} \geq R7.5$ over 2×6 wall
6	Vented cladding over fiberboard Vented cladding over gypsum Continuous insulation with $R\text{-value} \geq R7.5$ over 2×4 wall Continuous insulation with $R\text{-value} \geq R11.25$ over 2×6 wall
7 and 8	Continuous insulation with $R\text{ value} \geq R10$ over 2×4 wall Continuous insulation with $R\text{ value} \geq R15$ over 2×6 wall

For SI: 1 pound per cubic foot = 16 kg/m<sup>3</sup>.

- a. Spray foam with a maximum permance of 1.5 perms at the installed thickness applied to the interior cavity side of wood structural panels, fiberboard, insulating sheathing or gypsum is deemed to meet the continuous insulation requirement where the spray foam  $R\text{-value}$  meets or exceeds the specified insulating sheathing  $R\text{-value}$ .

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

**18. HCD proposes to adopt Chapter 15 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

**CHAPTER 15**  
**ROOF ASSEMBLIES AND ROOFTOP STRUCTURES**

**SECTION 1502**

## **ROOF DRAINAGE** **(Formerly part of 1503)**

**1502.1 (Formerly 1503.4) General.** Design and installation of roof drainage systems shall comply with Section 1502 of this code and Sections 1106 and 1108, as applicable, Chapter 11 of the International California Plumbing Code.

**1502.2 (Formerly 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.

## **SECTION 1510** **ROOFTOP STRUCTURES**

**1510.7.1 (2016 CBC) Wind resistance.** Rooftop-mounted photovoltaic panels and modules shall be designed for component and cladding wind loads in accordance with Chapter 16 using an effective wind area based on the dimensions of a single unit frame.

**Exception:** [BSC, HCD-1, HCD-2, DSA-SS, DSA-SS/CC] The effective wind area shall be in accordance with Chapter 16 and ASCE 7 Section 26.2.

**1510.7.3 (HCD1, HCD-2) Wind resistance.** Rooftop-mounted photovoltaic panels and modules shall be designed for component and cladding wind loads in accordance with Chapter 16 using effective wind area in accordance with Section 1609 and ASCE 7 Section 26.

### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **19. HCD proposes to adopt Chapter 16 from the 2018 International Building Code into the 2019 California Building Code with existing amendments as follows:**

### **CHAPTER 16** **STRUCTURAL DESIGN**

#### **SECTION 1607** **LIVE LOADS**

**1607.8 Loads on handrails, guards, grab bars, shower seats, and dressing room bench seats.** Handrails and guards shall be designed and constructed for the structural loading conditions set forth in Section 1607.8.1. Grab bars, shower seats and accessible benches shall be designed and constructed for the structural loading conditions set forth in Section 1607.8.2.

**1607.8.1 Handrails and guards.** (No change to text)

**1607.8.2 Grab bars, shower seats and dressing room bench seats.** Grab bars, shower seats and dressing room bench seats shall be designed to resist a single concentrated load of 250 pounds (1.11 kN) applied in any direction at any point on the grab bar or seat so as to produce the maximum load effects.

**(HCD 1-AC)** See Chapter 11A, Section 1127A.4 for grab bars, shower seats and dressing room bench seats, as applicable.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **20. HCD proposes to adopt Chapter 17 from the 2018 International Building Code into the 2019 California Building Code with existing amendments as follows:**

### **CHAPTER 17 SPECIAL INSPECTIONS AND TESTS**

#### **SECTION 1704 SPECIAL INSPECTIONS AND TESTS, CONTRACTOR RESPONSIBILITY AND STRUCTURAL OBSERVATION**

**1704.2 Special inspections and tests.** Where application is made to the building official for construction as specified in Sections 105 or 1.8.4, as applicable, the owner or the owner's authorized agent, other than the contractor, shall employ one or more approved agencies to provide special inspections and tests during construction on the types of work specified in Section 1705 and identify the approved agencies to the building official. These special inspections and tests are in addition to the inspections by the building official that are identified in Section 110.

**Exceptions:**

1. Special inspections and tests 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 and tests 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 and tests are not required for portions of structures designed and constructed in accordance with the cold-formed steel light-frame construction provisions of Section 2211.1.2 or the conventional light-frame construction provisions of Section 2308.
4. The contractor is permitted to employ the approved agencies where the contractor is also the owner.
- 4-5. **(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.*

#### **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 Sections 104.11 or 1.8.7, as applicable. The cost of all tests and other investigations required under the provisions of this code shall be borne by the owner or the owner's authorized agent.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**21. HCD proposes to adopt Chapter 18 from the 2018 International Building Code into the 2019 California Building Code with existing amendments as follows:**

**CHAPTER 18  
SOILS AND FOUNDATIONS**

**SECTION 1802  
DESIGN BASIS**

**1802.1 General. (Formerly 1801.2 General)** 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. Excavations and fills shall comply with Chapter 33.

*(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 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)** *(No change to text)*

**1803.1.1.1 Preliminary soil report.** *(No change to text)*

**1803.1.1.2 Soil investigation by lot, necessity, preparation, and recommendations.** *(No change to text)*

**1803.1.1.3 Approval, building permit conditions, appeal.** *(No change to text)*

**1803.1.1.4 Liability.** *(No change to text)*

**1803.1.1.5. Alternate procedures.** *(No change to text)*

**SECTION 1804  
EXCAVATION, GRADING AND FILL**

**1804.4 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 not less than 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 not less than 2 percent away from the building.

**Exceptions:**

1. 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).
2. Impervious surfaces shall be permitted to be sloped less than 2 percent where the surface is a door landing or ramp that is required to comply with Section 1010.1.5, 1012.3 or 1012.6.1.

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

**1804.4.1 (HCD 1) Construction plans.** *(No change to text)*

**SECTION 1805  
DAMPPOOFING 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.

**Exceptions:**

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 Sections 104.11 or 1.8.7, as applicable. 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, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**22. HCD proposes to adopt Chapter 19 from the 2018 International Building Code into the 2019 California Building Code with existing amendments as follows:**

**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 ½ 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.

**Exceptions:** 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 that will not be enclosed at a later date.
5. Where approved based on local site conditions.

**1907.1.1 (HCD 1) Capillary break** (No change to text)

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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### **23. HCD proposes to adopt Chapter 20 from the 2018 International Building Code into the 2019 California Building Code without amendments.**

#### CHAPTER 20 ALUMINUM

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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### **24. HCD proposes to adopt Chapter 21 from the 2018 International Building Code into the 2019 California Building Code without amendments.**

#### CHAPTER 21 MASONRY

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**25. HCD proposes to adopt Chapter 22 from the 2018 International Building Code into the 2019 California Building Code without amendments:**

**CHAPTER 22  
STEEL**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**26. HCD proposes to adopt Chapter 23 from the 2018 International Building Code into the 2019 California Building Code with existing amendments 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) 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**

**2304.3.1 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 not less than equal to the width of the studs.

**2304.3.1.1 (HCD 1) Rodent proofing.** *(No change to text)*

**2304.12.2.5 Supporting members for permeable floors and roofs. (HCD 1, HCD 2)** Wood structural members that support moisture-permeable floors or roofs that are exposed to the weather, such as concrete or masonry slabs, shall be of naturally durable or preservative-treated wood unless separated from such floors or roofs by an impervious

moisture barrier. The impervious moisture barrier system protecting the structure supporting floors shall provide positive drainage of water that infiltrates the moisture-permeable floor topping. ~~The impervious moisture barrier system protecting the structure supporting floors shall provide positive drainage of water that infiltrates the moisture-permeable floor topping.~~

**2304.12.2.6 Ventilation beneath balcony or elevated walking surfaces of exterior elevated elements.** Enclosed framing in exterior balconies and elevated walking surfaces exterior elevated elements that are exposed to water, including but not limited to, rain, snow or drainage from irrigation shall be provided with openings that provide a net free cross-ventilation area not less than 1/150 of the area of each separate space.

~~**2304.12.2.6 Ventilation beneath balcony or elevated walking surfaces. [HCD 1, HCD 2]** Enclosed framing in exterior balconies and elevated walking surfaces that are exposed to rain, snow or drainage from irrigation shall be provided with openings that provide a net free cross-ventilation area not less than 1/150 of the area of each separate space.~~

## SECTION 2308 CONVENTIONAL LIGHT-FRAME CONSTRUCTION

**2308.1 General.** The requirements of this section are intended for conventional light-frame construction. Other construction 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 Section 2308.2. ~~Detached one- and two-family dwellings and 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 Residential Code.~~

### NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **27. HCD proposes to adopt Chapter 24 from the 2018 International Building Code into the 2019 California Building Code without amendments:**

### CHAPTER 24 GLASS AND GLAZING

### NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **28. HCD proposes to adopt Chapter 25 from the 2018 International Building Code into the 2019 California Building Code without amendments:**

**CHAPTER 25  
GYPSUM BOARD, GYPSUM PANEL PRODUCTS AND PLASTER**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**29. HCD proposes to adopt Chapter 26 from the 2018 International Building Code into the 2019 California Building Code without amendments:**

**CHAPTER 26  
PLASTIC**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**30. HCD proposes NOT to adopt Chapter 27 from the 2018 International Building Code.**

**CHAPTER 27  
ELECTRICAL**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**31. HCD proposes NOT to adopt Chapter 28 from the 2018 International Building Code.**

**CHAPTER 28  
MECHANICAL SYSTEMS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**32. HCD proposes NOT to adopt Chapter 29 from the 2018 International Building Code.**

**CHAPTER 29  
PLUMBING SYSTEMS**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1

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**33. HCD proposes to adopt Chapter 30, Section 3001.4 only, from the 2018 International Building Code into the 2019 California Building Code with existing amendment as follows:**

**CHAPTER 30  
ELEVATORS AND CONVEYING SYSTEMS**

**SECTION 3001  
GENERAL**

**3001.4 (Formerly 3001.3) Accessibility.** Passenger elevators *and platform (wheelchair) lifts* required to be accessible or to serve as part of an accessible means of egress shall comply with Sections 1009 and ~~4409.7~~ Chapter 11A for applications listed in Section 1.8.2.1.2 regulated by the Department of Housing and Community Development.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

**34. HCD proposes to adopt Chapter 31, except Sections 3109 and 3113, from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

**CHAPTER 31  
SPECIAL CONSTRUCTION**

**User notes:**

**About this chapter:** Chapter 31 provides regulations for unique buildings and building elements. Those include buildings such as membrane structures, greenhouses and relocatable buildings. Special elements include pedestrian walkways and tunnels, awnings, canopies and marquees, vehicular gates and solar energy systems.

*(HCD) The provisions of Section 3113 are not applicable to commercial modulares, manufactured homes, mobilehomes, multi-unit manufactured housing, and special purpose commercial modulares as defined in Health and Safety Code Sections 18001.8, 18007, 18008, 18008.7 and 18012.5, respectively. These structures are subject to installation/reinstallation requirements specified in the Mobilehome Parks Act (Health and Safety Code Section 18200 et seq.) and the California Code of Regulations, Title 25, Division 1, Chapter 2. Manufactured homes must meet unit identification (data plate) and certification label requirements as specified in the Code of Federal Regulations, Title 24, Subtitle B, Chapter XX, Part 3280 and Health and Safety Code Section 18032. Commercial modulares and special purpose commercial modulares must meet identification requirements in the California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 2.*

**Code development reminder:** Code change proposals to sections preceded by the designation [BS] will be considered by the IBC—Structural Code Development Committee during the 2019 (Group B) Code Development Cycle. See explanation on page iv.

**SECTION 3104  
PEDESTRIAN WALKWAYS AND TUNNELS**

**3104.2 Separate structures.** Buildings connected by pedestrian walkways or tunnels shall be considered to be separate structures.

**Exceptions:**

1. Buildings that are on the same lot and considered as portions of a single building in accordance with Section 503.1.2.
2. **(HCD 1-AC)** For purposes of accessibility in residential facilities calculating the number of Type B units required by Chapter 11A, structurally connected buildings, buildings connected by stairs, walkways, or roofs, and buildings with multiple wings shall be considered one structure.

**SECTION 3109  
SWIMMING POOLS, SPAS AND HOT TUBS**

***(Not adopted by HCD)***

**SECTION 3111  
SOLAR ENERGY SYSTEMS**

**3111.1.1 (Formerly 1510.7.1) Wind resistance.** Rooftop-mounted photovoltaic panels and modules and solar thermal collectors shall be designed in accordance with Section 1609.

***Exception (HCD-1, HCD-2) Rooftop-mounted photovoltaic panels and modules and solar thermal collectors shall be designed in accordance with Section 1510.7 of this code.***

**3111.3 (HCD 1, HCD 2) Photovoltaic solar energy systems.** Photovoltaic solar energy systems shall be designed and installed in accordance with this section, the International California Fire Code, NFPA 70 California Electrical Code, and the manufacturer's installation instructions ***(HCD 1, HCD-2) and Section 1512 of this code.***

**SECTION 3112  
GREENHOUSES**

**3112.2 Accessibility.** Greenhouses shall be accessible in accordance with Chapter 11.

**(HCD 1) Greenhouses accessory to covered multifamily dwellings, as defined in Chapter 2, used as a common use facility, shall be on an accessible route in accordance with Chapter 11A.**

**SECTION 3113  
RELOCATABLE BUILDINGS**

**(Not adopted by HCD)**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**35. HCD proposes to adopt Chapter 32 from the 2018 International Building Code into the 2019 California Building Code without amendments:**

**CHAPTER 32  
ENCROACHMENTS INTO THE PUBLIC RIGHT-OF-WAY**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**36. HCD proposes to adopt Chapter 33, Sections 3301, 3302, 3303, 3304, 3305, 3306, 3307, and 3308, from the 2018 International Building Code into the 2019 California Building Code with existing amendments as follows. HCD proposes to not adopt Sections 3309, 3310, 3311, 3312, 3313 and 3314.**

**CHAPTER 33  
SAFEGUARDS DURING CONSTRUCTION**

**SECTION 3304  
SITE WORK**

***3304.1.5 (HCD) Storm water drainage and retention during construction. (No change to text)***



**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. A walkway shall be provided for pedestrian travel that leads from a building entrance or exit of an occupied structure to a public way. Walkways shall be of sufficient width to accommodate the pedestrian traffic, but shall be not 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 11~~ *Chapter 11A* and shall be designed to support all imposed loads, and the design live load shall be not 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, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**37. HCD proposes NOT to adopt Chapter 34 from the 2018 International Building Code.**

**CHAPTER 34  
RESERVED**

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**38. HCD proposes to adopt Chapter 35 from the 2018 International Building Code into the 2019 California Building Code with new and existing amendments as follows:**

**CHAPTER 35  
REFERENCED STANDARDS**

**User note:**

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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*, as applicable.

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ASTM International

<div> <div>ASTM</div> <div>100 Barr Harbor DriveWest Conshohocken, PA 19428-2959</div> </div>	
<del>A227—06 (2011)</del> <del>A229/A229M-17</del>	<b>Standard Specification for Steel Wire, Cold-Drawn for Mechanical Springs</b> <del>1211.1.1</del> 1210.1.1
<del>A229—12</del> <del>A229/A229M-17</del>	<b>Standard Specification for Steel Wire, Quenched and Tempered for Mechanical Springs</b> <del>1211.1.1</del> 1210.1.1
<div> <div>DASMA</div> <div>DASMA Door and Access Systems Manufacturers Association 1300 Sumner Avenue Cleveland, Ohio 44115-2851</div> </div>	
<del>ANSI/DASMA 103-2001</del> <del>(R2006)</del>	<b>Standard for Counterbalance Systems on Residential Sectional Garage Doors</b> <del>1210.4</del>
<div> <div>ICC</div> <div>International Code Council 500 New Jersey Avenue, NW 6th Floor Washington, DC 20001</div> </div>	
<del>ICC/ANSI A117.1—09</del>	<b>Accessible and Usable Buildings and Facilities</b> 202, 907.5.2.3.3, 1009.8.2, 1009.9, 1009.11, <del>1010.1.9.8.1</del> , 1012.1, 1012.6.5, 1012.10, 1013.4, 1023.9, <del>1101.2.1</del> , <del>1107.2</del> , 1109.1, 1109.2, 1109.5.1, 1109.5.2, 1111.2, 1111.3, 1111.4, 1111.4.2
ICC 300-17	<b>ICC Standard on Bleachers, Folding and Telescopic Seating and Grandstands</b> 1029.1.1, 1029.7, Table 1607.1
ICC 400-17	<b>Standard on Design and Construction of Log Structures</b> 2302.2
ICC 500—14	<b>ICC/NSSA Standard on the Design and Construction of Storm Shelters</b> 202, 423.1, 423.2, 423.3, 423.4, 1604.5.1, 1604.10
ICC 600-14	<b>Standard for Residential Construction in High-Wind Regions</b> 1609.1.1, 1609.1.1.1, 2308.2.4
<del>IEBC—18</del>	<b>International Existing Building Code</b> 101.4.7, 102.6, 116.5, 201.3, <del>Table 504.3</del> , <del>Table 504.4</del> , <del>Table 504.6</del> , 2701.1, 2801.1, 3113.1.1
<del>IECC-18</del>	<b>International Energy Conservation Code</b> ® 101.4.6, 201.3, 202, 1202.1, 1202.4.3.2, 1301.1.1, 1405.3
<del>IFC-18</del>	<b>International Fire Code</b> ® 101.4.5, 102.6, <del>102.6.2</del> , 201.3, 202, 307.1, Table 307.1(1), Table 307.1(2), 307.1.1, 307.1.2, 403.4.5, 404.2, <del>406.2.9</del> , 406.7, 406.8, 407.4, <del>410.2.6</del> , 411.1, 412.1, <del>412.5.1</del> , 413.1, 414.1.1, 414.1.2, 414.1.2.1, 414.2, Table 414.2.5(1), <del>414.2.5.1</del> , <del>414.2.5.2</del> , Table 414.2.5(2), <del>414.2.5.3</del> , 414.3, 414.5, 414.5.1, Table 414.5.1, 414.5.2, 414.5.3, 414.6, <del>415.2</del> , 415.6, 415.6.1, 415.6.1.1, 415.6.1.4, Table 415.6.2, 415.7.3, 415.8.2, 415.9, 415.9.1, 415.9.1.3, 415.9.1.4, 415.9.1.6, 415.9.1.7, 415.9.1.8, 415.9.2, 415.9.3, 415.10, 415.11, 415.11.1.7, 415.11.4, 415.11.7.2, 415.11.9.3, 415.11.10.1, 416.1, <del>416.2.3</del> , 416.4, 422.3.1, 426.1, 426.1.4, <del>427.1</del> , <del>427.2.3</del> , <del>428.1</del> , <del>428.2</del> , <del>428.3</del> , Table 504.3, Table 504.4, Table 506.2, 507.4, 507.8.1.1.1, 507.8.1.1.2, 507.8.1.1.3, Table 509, 705.8.1, 707.1,

	806.3, 901.2, 901.3, 901.5, 901.6.3, 901.6.4, 903.2.7.1, Table 903.2.11.6, 903.2.12, 903.5, 904.2.2, 904.11.3, 905.1, 905.3.6, 905.3.7, 906.1, Table 906.1, 906.4, 907.1.1, 907.2.5, 907.2.6, 907.2.8, 907.2.12.2, 907.2.14, 907.2.15, 907.2.22, 907.5.2.2, 907.6.6, 907.6.6.2, 907.8, 909.6.3, 909.12.1, 909.19, 909.20, 910.2.2, 910.5, 912.4.3, 915.1, 915.6, 916.7, 916.11, 918.1, 1002.1, 1002.2, 1010.1.9.7, 1202.5.2, 1202.6, 1507.16, 1512.1, Table 1604.5, 2603.4.1.12, 2701.1, 2702.1.3, 2702.2.3, 2702.2.7, 2702.2.10, 2702.2.12, 2702.2.14, 2702.4, 3003.3, 3008.1.3, 3102.1, 3102.8.3, 3103.1, 3111.1.2, 3111.2, 3111.3, 3111.3.4, 3111.3.5, 3302.3, 3303.7, 3309.2
<b>IFGC-18</b>	<b>International Fuel Gas Code®</b> 101.4.1, 201.3, Table 307.1(1), 415.9.2, 2113.11.1.2, 2113.15, 2702.2.6, 2801.4
<b>IMC-18</b>	<b>International Mechanical Code®</b> 101.4.2, 201.3, Table 307.1(1), 406.2.9, 406.6.2, 406.8.1, 406.8.4, 407.2.6, 409.3, 412.5.6, 414.1.2, 414.3, 415.9.1, 415.9.2, 415.9.3, 415.11.11, 416.2.3, 420.8, 420.9, 420.10.1, 421.4, 426.1.4, 427.2.2, 427.2.3, 428.4.7, 603.1, 603.1.1, 603.1.2, 712.1.6, 717.2.2, 717.5.3, 715.4, 715.5, 717.6.1, 717.6.2, 717.6.3, 718.5, 720.1, 720.7, 903.2.11.4, 904.2.2, 904.12, 907.3.1, 909.1, 909.10.2, 909.13.1, 910.4.7, 1006.2.2.3, 1011.16, 1020.5.1, 1202.1, 1202.2.2, 1202.4.3.2, 1202.5.2.1, 1202.6, 1208.3, 2702.2.5, 2801.1, 3111.2
<b>IPC-18</b>	<b>International Plumbing Code®</b> 101.4.3, 201.3, 415.9.3, 603.1.2, 718.5, 903.3.5, 1205.3.3, 1503.4, 1503.4.1, 1805.4.3, 2901.1, Table 2902.1, 3111.2, 3305.1
<b>IPMG-18</b>	<b>International Property Maintenance Code®</b> 101.4.4, 102.6, 102.6.2, 103.3, 2701.1, 2801.4
<b>IPSDC-8</b>	<b>International Private Sewage Disposal Code®</b> 101.4.3, 2901.1
<b>IRC-18</b>	<b>International Residential Code®</b> 101.2, 102.6.1, 305.2.3, 308.2.4, 308.3.2, 308.5.4, 310.1, 310.4.1, 310.4.2, 2308.4
<b>ISPSC</b>	<b>International Swimming Pool and Spa Code</b> 3109.1
<b>IWUIC-18</b>	<b>International Wildland-Urban Interface Code™</b> Table 1505.1
<b>SBCCI SSTD 11-97</b>	<b>Test Standard for Determining Wind Resistance of Concrete or Clay Roof Tiles</b> 1504.2.1.1, 1504.2.1.2
<b>NFPA</b>	National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471
<b>720 – 15</b>	<b>Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment</b> 915.5.1, 915.5.2, 915.4.1, 915.5.1, 915.5.2, 915.6, 915.7

UL

Underwriters Laboratories,  
Inc. 333 Pfingsten Road  
Northbrook, IL 60062-2096

2034 – <del>2008</del> 2017	<del>Single- and Multiple-Station Carbon Monoxide Alarms –</del> with Revisions through March 2015 915.4.2, 915.4.4
2075 - 2013	Standard for Gas and Vapor Detectors and Sensors 915.5.1, 915.5.3

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

### **39. HCD proposes NOT to adopt Appendix A from the 2018 International Building Code.**

#### **APPENDIX A EMPLOYEE QUALIFICATIONS**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency, or* referenced in the adopting ordinance.

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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### **40. HCD proposes NOT to adopt Appendix B from the 2018 International Building Code.**

#### **APPENDIX B BOARD OF APPEALS**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency, or* referenced in the adopting ordinance.

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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### **41. HCD proposes NOT to adopt Appendix C from the 2018 International Building Code.**

#### **APPENDIX C GROUP U – AGRICULTURAL BUILDINGS**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency, or* referenced in the adopting ordinance.

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **42. HCD proposes NOT to adopt Appendix D from the 2018 International Building Code.**

### **APPENDIX D FIRE DISTRICTS**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency, or* referenced in the adopting ordinance.

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **43. HCD proposes NOT to adopt Appendix E from the 2018 International Building Code.**

### **APPENDIX E SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS RESERVED**

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **44. HCD proposes NOT to adopt Appendix F from the 2018 International Building Code.**

### **APPENDIX F RODENTPROOFING**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency, or* referenced in the adopting ordinance.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**45. HCD proposes NOT to adopt Appendix G from the 2018 International Building Code.**

**APPENDIX G  
FLOOD-RESISTANT CONSTRUCTION**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency*, or referenced in the adopting ordinance.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**46. HCD proposes NOT to adopt Appendix H from the 2018 International Building Code.**

**APPENDIX H  
SIGNS**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency*, or referenced in the adopting ordinance.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

**47. HCD proposes to adopt Appendix I from the 2018 International Building Code into the 2019 California Building Code without amendments.**

**APPENDIX I  
PATIO COVERS**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency*, or referenced in the adopting ordinance.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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**48. HCD proposes to adopt Appendix J from the 2018 International Building Code into the 2019 California Building Code with new amendment as follows:**

**APPENDIX J  
GRADING**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency*, or referenced in the adopting ordinance.

**SECTION J104  
PERMIT APPLICATION AND SUBMITTALS**

**J104.1 Submittal requirements.** In addition to the provisions of Sections 105.3 and 1.8.4, *as applicable*, the applicant shall state the estimated quantities of excavation and fill.

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **49. HCD proposes NOT to adopt Appendix K from the 2018 International Building Code.**

### **APPENDIX K ADMINISTRATIVE PROVISIONS**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency*, or referenced in the adopting ordinance.

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **50. HCD proposes NOT to adopt Appendix L from the 2018 International Building Code.**

### **APPENDIX L EARTHQUAKE RECORDING INSTRUMENTATION**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency*, or referenced in the adopting ordinance.

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **51. HCD proposes NOT to adopt Appendix M from the 2018 International Building Code.**

### **APPENDIX M TSUNAMI-GENERATED FLOOD HAZARD**

The provisions contained in this appendix are not mandatory unless specifically *adopted by a state agency*, or referenced in the adopting ordinance.

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **52. HCD proposes NOT to adopt Appendix N from the 2018 International Building Code.**

### **APPENDIX N REPLICABLE BUILDINGS**

The provisions contained in this appendix are not mandatory unless specifically **adopted by a state agency, or** referenced in the adopting ordinance.

#### **NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.

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## **53. HCD proposes to adopt existing California Appendix O from the 2016 California Building Code.**

**Note: Due to renumbering of all sections, vertical bars will only be placed where code content is being changed.**

### **APPENDIX ~~NO~~ EMERGENCY HOUSING**

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

#### **SECTION ~~NO~~101 GENERAL**

**~~NO~~101.1 Scope.** *This appendix shall be applicable to emergency housing and emergency housing facilities, as defined in Section ~~NO~~102.*

#### **SECTION ~~NO~~102 DEFINITIONS**

**~~NO~~102.1 General.** *The following words and terms shall, for the purposes of this appendix, have the meanings shown herein. Refer to Chapter 2 of this code for general definitions.*

**DECLARATION OF SHELTER CRISIS.** *The duly proclaimed existence of a situation in which a significant number of persons are without the ability to obtain shelter, resulting in a threat to their health and safety. (See Government Code Section 8698)*

**DEPENDENT UNIT.** Emergency housing not equipped with a kitchen area, toilet, and sewage disposal system. Recreational vehicles that are not self-contained and without utility service connections shall be considered dependent units.

**EMERGENCY HOUSING.** Housing in a permanent or temporary structure(s), occupied during a declaration of state of emergency, local emergency, or shelter crisis. Emergency housing may include, but is not limited to, buildings and structures constructed in accordance with the California Building Standards Code; and emergency sleeping cabins, emergency transportable housing units, and tents constructed and/or assembled in accordance with this appendix.

**EMERGENCY HOUSING FACILITIES.** On-site common use facilities supporting emergency housing. Emergency housing facilities include, but are not limited to, kitchen areas, toilets, showers and bathrooms with running water. The use of emergency housing facilities is limited exclusively to the occupants of the emergency housing, personnel involved in operating the housing, and other emergency personnel.

**EMERGENCY HOUSING SITE.** A site containing emergency housing and emergency housing facilities supporting the emergency housing.

**EMERGENCY SLEEPING CABIN.** Relocatable hard-sided structure constructed in accordance with this appendix, which may be occupied only for emergency housing if allowed by the authority having jurisdiction.

**EMERGENCY TRANSPORTABLE HOUSING UNIT.** A single or multiple section prefabricated structure that is transportable by a vehicle and that can be installed on a permanent or temporary site in response to a need for emergency housing. Emergency transportable housing unit include, but is not limited to, manufactured homes, mobilehomes, multifamily manufactured homes, recreational vehicles, and park trailers. For the purposes of this appendix, emergency transportable housing units do not include factory-built housing as defined in the Health and Safety Code Section 19971.

**LANDING PLATFORM.** A landing provided as the top step of a stairway accessing a loft.

**LOCAL EMERGENCY.** Local Emergency as defined in the Government Code, Section 8558.

**LOFT.** A floor level located more than 30 inches (762 mm) above the main floor and open to it on at least one side with a ceiling height of less than 6 feet 8 inches (2032 mm), used as a living or sleeping space.

**MANUFACTURED HOME.** A structure designed to be used as a single-family dwelling, as defined in the Health and Safety Code, Section 18007.

**MOBILEHOME.** A structure designed to be used as a single-family dwelling, as defined in the Health and Safety Code, Section 18008.

**MULTIFAMILY MANUFACTURED HOME.** A structure designed to contain not less than two dwelling units, as defined in the Health and Safety Code, Section 18008.7.

**PARK TRAILER.** A trailer designed for human habitation that meets all requirements in the Health and Safety Code, Section 18009.3.

**RECREATIONAL VEHICLE.** A motor home, travel trailer, truck camper, or camping trailer, with or without motive power, designed for human habitation, that meets all requirements in the Health and Safety Code, Section 18010.

**STATE OF EMERGENCY.** State of Emergency as defined in the Government Code, Section 8558.

## **SECTION ~~NO~~103 EMERGENCY HOUSING**

**~~NO~~103.1 General.** Emergency sleeping cabins, emergency transportable housing units, and tents constructed in accordance with this appendix, shall be occupied only during declaration of state of emergency, local emergency, or shelter crisis.

Buildings and structures constructed in accordance with the California Building Standards Code, used as emergency housing, shall be permitted to be permanently occupied.

**NO103.2 Existing buildings.** Existing residential and nonresidential buildings or structures shall be permitted to be used as emergency housing and emergency housing facilities provided such buildings or structures comply with the building code provisions and/or other regulations in effect at the time of original construction and/or alteration. Existing buildings or structures used as emergency housing shall not become or continue to be substandard buildings, as determined by the Authority Having Jurisdiction.

**NO103.2.1 New additions, alterations, and change of occupancy.** New additions, alterations, and change of occupancy to existing buildings shall comply with the requirements of the California Building Standards Code effective at the time of addition, alteration, or change of occupancy. The requirements shall apply only to and/or within the specific area of the addition, alteration, or change of occupancy.

**Exception:** Existing buildings and structures used for emergency housing and emergency housing facilities may not be required to comply with the California Energy Code, as determined by the Authority Having Jurisdiction.

**NO103.3 Occupant load.** Except otherwise stated in this appendix, the maximum occupant load allowed in buildings and structures used as emergency housing shall be determined by the Authority Having Jurisdiction, but the interior floor area shall not be less than 70 square feet (6.5 m<sup>2</sup>) for one occupant. Where more than one person occupies the building/structure, the required floor area shall be increased at the rate of 50 square feet (4.65 m<sup>2</sup>) for each occupant in excess of one.

**Exceptions:**

1. Tents.
2. Recreational vehicles and park trailers designed for human habitation that meet the requirements in the Health and Safety Code, Sections 18009.3 and 18010, as applicable.

**NO103.4 Fire and life safety requirements not addressed in this appendix.** If not otherwise addressed in this appendix, fire and life safety measures, including, but not limited to, means of egress, fire separation, fire sprinklers, smoke alarms, and carbon monoxide alarms, shall be determined and enforced by the Authority Having Jurisdiction.

**NO103.5 Privacy.** Emergency housing shall be provided with a privacy lock on each entrance door and all windows for use by the occupants.

**NO103.6 Heating.** All sleeping areas shall be provided with adequate heating as determined by the Authority Having Jurisdiction.

## **SECTION NO104 EMERGENCY SLEEPING CABINS**

**NO104.1 General.** Emergency sleeping cabins shall have an interior floor area of not less than 70 square feet (6.5 m<sup>2</sup>) for one occupant. Where more than one person occupies the cabin, the required floor area shall be increased at the rate of 50 square feet (4.65 m<sup>2</sup>) for each occupant in excess of one. The interior floor area shall not exceed 400 square feet (37 m<sup>2</sup>), excluding lofts.

**NO104.2 Live loads.** Emergency sleeping cabins shall be designed to resist intrusion of wind, rain, and to support the following live loads:

1. Floor live loads not less than 40 pounds per square foot (1.92 kPa) of floor area.
2. Horizontal live loads not less than 15 pounds per square foot (718 Pa) of vertical wall and roof area.
3. Roof live loads not less than 20 pounds per square foot (958 Pa) of horizontal roof area
4. In areas where snow loads are greater than 20 pounds per square foot (958 Pa), the roof shall be designed and constructed to resist these additional loads.

**NO104.3 Minimum ceiling height.** Habitable space and hallways in emergency sleeping cabins shall have a ceiling height of not less than 80 inches (2032 mm). Bathrooms, toilet rooms, and kitchens, if provided, shall have a ceiling height of not less than 76 inches (1930 mm). Obstructions shall not extend below these minimum ceiling heights including beams, girders, ducts, lighting and other obstructions.

**Exception:** Ceiling heights in lofts constructed in accordance with Section **NO** 108 are permitted to be less than 80 inches (2032 mm).

**NO 104.4 Means of egress.** Emergency sleeping cabins shall be provided with at least two forms of egress placed remotely from each other. One form of egress may be an egress window complying with Section **NO** 104.4.1. When a loft is provided, one form of egress shall be an egress window complying with Section **NO** 104.4.1, provided in the loft space.

**NO 104.4.1 Egress window.** The bottom of the clear opening of the egress window shall not be more than 44 inches (1118 mm) above the floor. The egress window shall have a minimum net clear opening height of 24 inches (610 mm), and a minimum net clear opening width of 20 inches (508 mm). The egress window shall have a minimum net clear opening area of 5 square feet (0.465 m<sup>2</sup>)

**NO 104.5 Plumbing and gas service.** If an emergency sleeping cabin contains plumbing or gas service, it shall comply with all applicable requirements of the California Plumbing Code and the California Mechanical Code.

**NO 104.6 Electrical.** Emergency sleeping cabins shall be provided with all of the following installed in compliance with the California Electrical Code:

1. Continuous source of electricity

**Exception:** The source of electricity may be solar power or emergency generator.

2. At least one interior lighting fixture.
3. Electrical heating equipment listed for residential use, and a dedicated receptacle outlet for the electrical heating equipment.
4. At least one GFCI-protected receptacle outlet for use by the occupant(s).

**NO 104.7 Ventilation.** Emergency sleeping cabins shall be provided with means of ventilation (natural and/or mechanical) allowing for adequate air replacement, as determined by the Authority Having Jurisdiction.

**NO 104.8 Smoke alarms.** Emergency sleeping cabins shall be provided with at least one smoke alarm installed in accordance with the California Residential Code, Section R314.

**NO 104.9 Carbon Monoxide Alarms.** If an emergency sleeping cabin contains a fuel-burning appliance(s) or a fireplace(s), a carbon monoxide alarm shall be installed in accordance with the California Residential Code, Section R315.

## **SECTION **NO** 105 EMERGENCY TRANSPORTABLE HOUSING UNITS**

**NO 105.1 General.** Manufactured homes, mobilehomes, multifamily manufactured homes, recreational vehicles, and park trailers used as emergency transportable housing, shall comply with all applicable requirements in the Health and Safety Code, Division 13, Part 2; and Title 25, Division 1, Chapter 3, Subchapter 2.

## **SECTION **NO** 106 TENTS**

**NO 106.1 General.** Tents shall not be used to house occupants for more than 7 days unless such tents are maintained with tight wooden floors raised at least 4 inches (101.6 mm) above the ground level and are equipped with baseboards on all sides to a height of at least 6 inches (152.4 mm). Tents may be maintained with concrete slabs with the finished surface at least 4 inches (101.6 mm) above grade and equipped with curbs on all sides at least 6 inches (152.4 mm) high.

A tent shall not be considered a suitable sleeping place when it is found necessary to provide heating facilities in order to maintain a minimum temperature of 50 degrees Fahrenheit (10 degrees Celsius) within such tent during the period of occupancy.

## SECTION **NO**107 ACCESSIBILITY

**NO107.1 General.** Emergency housing shall comply with the applicable requirements in Chapter 11B and/or the US Access Board Final Guidelines for Emergency Transportable Housing.

**Note:** The Architectural and Transportation Barriers Compliance Board (US Access Board) issued the Final Guidelines for Emergency Transportable Housing on May 7, 2014. The final guidelines amended the 2004 ADA Accessibility Guidelines (2004 ADAAG) and the 2004 Architectural Barriers Act (ABA) Accessibility Guidelines (2004 ABAAG) to specifically address emergency transportable housing units provided to disaster survivors by entities subject to the ADA or ABA. The final rule ensures that the emergency transportable housing units are readily accessible to and usable by disaster survivors with disabilities.

## SECTION **NO**108 LOFTS IN EMERGENCY HOUSING

**NO108.1 Minimum loft area and dimensions.** Lofts used as a sleeping or living space shall meet the minimum area and dimension requirements of Sections **NO**108.1.1 through **NO**108.1.3.

**NO108.1.1 Minimum area.** Lofts shall have a floor area of not less than 35 square feet (3.25 m<sup>2</sup>).

**NO108.1.2 Minimum dimensions.** Lofts shall be not less than 5 feet (1524 mm) in any horizontal dimension.

**NO108.1.3 Height effect on loft area.** Portions of a loft with a sloping ceiling measuring less than 3 feet (914 mm) from the finished floor to the finished ceiling shall not be considered as contributing to the minimum required area for the loft.

**Exception:** Under gable roofs with a minimum slope of 6:12, portions of a loft with a sloping ceiling measuring less than 16 inches (406 mm) from the finished floor to the finished ceiling shall not be considered as contributing to the minimum required area for the loft.

**NO108.2 Loft access.** The access to and primary egress from lofts shall be any type described in Sections **NO**108.2.1 through **NO**108.2.4.

**NO108.2.1 Stairways.** Stairways accessing lofts shall comply with the California Residential Code or with Sections **NO**108.2.1.1 through **NO**108.2.1.6.

**NO108.2.1.1 Width.** Stairways accessing a loft shall not be less than 17 inches (432 mm) in clear width at or above the handrail. The minimum width below the handrail shall be not less than 20 inches (508 mm).

**NO108.2.1.2 Headroom.** The headroom in stairways accessing a loft shall be not less than 74 inches (1880 mm), as measured vertically, from a sloped line connecting the tread or landing platform nosings in the middle of their width.

**NO108.2.1.3 Treads and risers.** Risers for stairs accessing a loft shall be not less than 7 inches (178 mm) and not more than 12 inches (305 mm) in height. Tread depth and riser height shall be calculated in accordance with one of the following formulas:

1. The tread depth shall be 20 inches (508 mm) minus 4/3 of the riser height, or
2. The riser height shall be 15 inches (381 mm) minus 3/4 of the tread depth.

**NO108.2.1.4 Landing platforms.** The top step of stairways accessing lofts shall be constructed as a landing platform where the loft ceiling height is less than 74 inches (1880 mm). The landing platform shall be 18 inches (457 mm) to 22 inches (559 mm) in depth measured from the nosing of the landing platform to the edge of the loft, and 16 inches (406 mm) to 18 inches (457 mm) in height measured from the landing platform to the loft floor.

**NO108.2.1.5 Handrails.** Handrails shall comply with the California Residential Code, Section R311.7.8.



**NO108.2.1.6 Stairway guards.** Guards at open sides of stairways shall comply with the California Residential Code, Section R312.1.

**NO108.2.2 Ladders.** Ladders accessing lofts shall comply with Sections **NO** 108.2.1 and **NO** 108.2.2.

**NO108.2.2.1 Size and capacity.** Ladders accessing lofts shall have a rung width of not less than 12 inches (305 mm), and 10 inches (254 mm) to 14 inches (356 mm) spacing between rungs. Ladders shall be capable of supporting a 200 pound (90.7 kg) load on any rung. Rung spacing shall be uniform within 3/8-inch (9.5 mm).

**NO108.2.2.2 Incline.** Ladders shall be installed at 70 to 80 degrees from horizontal.

**NO108.2.3 Alternating tread devices.** Alternating tread devices are acceptable as allowed by the Authority Having Jurisdiction.

**NO108.2.4 Loft Guards.** Loft guards shall be located along the open side of lofts. Loft guards shall not be less than 36 inches (914 mm) in height or one-half of the clear height to the ceiling, whichever is less. Loft guards shall not have openings from the walking surface to the required guard height that allow passage of a sphere 4 inches (102 mm) in diameter.

## **SECTION NO109 LOCATION, MAINTENANCE AND IDENTIFICATION**

**NO109.1 Maintenance.** Emergency housing and emergency housing facilities shall be maintained in a safe and sanitary condition, and free from vermin, vectors and other matter of an infectious or contagious nature. The grounds within emergency housing sites shall be kept clean and free from accumulation of debris, filth, garbage and deleterious matter. Emergency housing and emergency housing facilities shall not be occupied if a substandard conditions exist, as determined by the Authority Having Jurisdiction.

**NO109.1.1 Fire Hazards.** Dangerous materials or materials that create a fire hazard, as determined by the Authority Having Jurisdiction, shall not be allowed on the grounds within emergency housing sites.

**NO109.3 Identification.** Emergency housing shall be designated by address numbers, letters, or other suitable means of identification. The identification shall be in a conspicuous location facing the street or driveway fronting the building or structure. Each identification character shall be not less than 4 inches (102 mm) in height and not less than 0.5 inch (12.7 mm) in width, installed/painted on a contrasting background.

## **SECTION NO110 EMERGENCY HOUSING FACILITIES**

**NO110.1 Drinking Water.** Potable drinking water shall be provided for all occupants of emergency housing.

**NO110.2 Kitchens.** Where occupants of dependent units are permitted or required to cook for themselves, a separate area shall be equipped and maintained as a common use kitchen. Refrigerated storage shall be provided for safe storage of food.

**NO110.3 Toilet and bathing facilities.** When dependent units are used as emergency housing, the emergency housing site shall be provided with one toilet and one bathing facility for every 15 occupants of each gender. The Authority Having Jurisdiction may permit different types and ratios of toilet and bathing facilities. The approval shall be based upon a finding that the type and ratio of toilet and bathing facilities are sufficient to process the anticipated volume of sewage and waste water, while maintaining sanitary conditions for the occupants of the emergency housing.

Bathing facilities shall be provided with heating equipment which shall be capable of maintaining a temperature of 70 degrees F (21.0 degrees Celsius) within such facilities.

Lavatories with running water shall be installed and maintained in the toilet facilities or adjacent to the toilet facilities.

**NO110.4 Garbage, waste and rubbish disposal.** *All garbage, kitchen waste and rubbish shall be deposited in approved covered receptacles, which shall be emptied when filled and the contents shall be disposed of in a sanitary manner acceptable to the Authority Having Jurisdiction.*

**NOTE:**

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.5, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17922.14, 17927, 17928, 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; Civil Code Sections 1101.4 and 1101.5; and Government Code Sections 12955.1 and 12955.1.1.