

**INITIAL EXPRESS TERMS
FOR PROPOSED BUILDING STANDARDS
OF THE STATE FIRE MARSHAL
REGARDING THE 2019 CALIFORNIA BUILDING CODE,
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2
([RULEMAKING FILE #])**

The State agency shall draft the regulations in plain, straightforward language, avoiding technical terms as much as possible and using a coherent and easily readable style. The agency shall draft the regulation in plain English. A notation shall follow the express terms of each regulation listing the specific statutes authorizing the adoption and listing specific statutes being implemented, interpreted, or made specific (Government Code Section 11346.2(a)(1)).

LEGEND FOR EXPRESS TERMS (Based on model codes - Parts 2, 2.5, 3, 4, 5, 9, 10)

1. Model Code language appears upright.
 2. Existing California amendments appear in *italics*.
 3. Amended model code or new California amendments appear *underlined and in italics*.
 4. Repealed model code language appears ~~upright and in strikeout~~.
 5. Repealed California amendments appear in ~~*italics and strikeout*~~.
 6. Ellipsis indicates existing text remains unchanged.
 7. Associated section numbers are identified as being contingent on each proposal being approved together as one.
 8. Related section numbers are those sections which fall within the same topic, but can stand alone for approval.
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INITIAL EXPRESS TERMS

**Item 1. CHAPTER 1
DIVISION II
SCOPE AND ADMINISTRATION**

**SECTION 110
INSPECTIONS**

Section: 110.3.12 (New)

110.3.12 Type IV-A, IV-B, and IV-C connection protection inspection. In buildings of Type IV-A, IV-B and IV-C Construction, where connection fire resistance ratings are provided by wood cover calculated to meet the requirements of Section 2304.10.1 inspection of the wood cover shall be made after the cover is installed, but before any other coverings or finishes are installed.

[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 2. CHAPTER 2
DEFINITIONS**

**SECTION 202
DEFINITIONS**

Definition: Mass Timber (New)

MASS TIMBER. *Structural elements of Type IV construction primarily of solid, built-up, panelized or engineered wood products that meet minimum cross section dimensions of Type IV construction.*

[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3

(New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Definition: Mechanical-Access Enclosed Parking Garage (New)

MECHANICAL-ACCESS ENCLOSED PARKING GARAGE *An enclosed parking garage which employs parking machines, lifts, elevators or other mechanical devices for vehicle moving from and to street level and in which public occupancy in the garage is prohibited in all areas except the vehicle access bay.*

[AUTOMATIC PARKING GARAGE 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

202 (New), 406.6.4 (New), 406.6.4.1 (New), 406.6.4.2 (New), 406.6.4.3 (New), 406.6.4.3.1 (New), 406.6.4.4 (New), TABLE 508.4, Table 903.2.11.6

Definition: Noncombustible Protection (For Mass Timber) (New)

NONCOMBUSTIBLE PROTECTION (FOR MASS TIMBER). *Noncombustible material, in accordance with Section 703.5, designed to increase the fire resistance rating and delay the combustion of mass timber.*

[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Definition: Puzzle Room (New)

PUZZLE ROOM *A puzzle room is a type of special amusement area in which occupants*

are encouraged to solve a challenge to escape from a room or series of rooms.

[PUZZLE ROOM 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

Table of Contents, 202, Title 411, 411.1, 411.2, 411.3, 411.4, 411.5, 411.6, 411.6.1, 411.7, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, TABLE 1017.2, INDEX

[Associated Sections in Part 9, California Fire Code]:

202, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, 914.7, 914.7.1, 914.7.2, TABLE 1017.2, 3103.3.1, O103.1, INDEX

Definition: Special Amusement Area

[BG] SPECIAL AMUSEMENT BUILDING AREA. A special amusement building area is any temporary or permanent building or portion thereof that is occupied for amusement, entertainment or educational purposes and ~~that contains a device or system that conveys passengers or provides a walkway along, around or over a course in any direction so arranged that the means of egress path is not readily apparent due to visual or audio distractions or is intentionally confounded or is not readily available because of the nature of the attraction or mode of conveyance through the building or structure~~ is arranged in a manner that:

1. Makes the means of egress path that is not readily apparent due to visual or audio distractions.
2. Intentionally confounds identification of the means of egress path.
3. Otherwise makes the means of egress path not readily available because of the nature of the attraction or mode of conveyance through the building or structure.

[PUZZLE ROOM 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

Table of Contents, 202, Title 411, 411.1, 411.2, 411.3, 411.4, 411.5, 411.6, 411.6.1, 411.7, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, TABLE 1017.2, INDEX

Definition: Wall, Load-Bearing

WALL, LOAD-BEARING. Any wall meeting either of the following classifications:

1. Any metal or wood stud wall that supports more than 100 pounds per linear foot (1459 N/m) of vertical load in addition to its own weight.
2. Any masonry or concrete or mass timber wall that supports more than 200 pounds per linear foot (2919 N/m) of vertical load in addition to its own weight.

[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 3. CHAPTER 3
OCCUPANCY CLASSIFICATION AND USE**

**SECTION 306
FACTORY GROUP F**

Section: 306.2 [Add an additional example to Group F-1 in alphabetical order, after Electronics and before Engines]

306.2 Moderate-hazard factory industrial, Group F-1.

(other examples remain unchanged)

Energy storage systems (ESS) in dedicated use buildings

[ENERGY STORAGE SYSTEMS 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

306.2, TABLE 414.5.1, TABLE 509, 707.4, TABLE 716.1(2), TABLE 716.1(3), 716.2.5.4.1 (New), 716.3.2.1.1.1 (New), TABLE 903.2.11.6, [Chapter 35] NFPA

68 (New)

SECTION 310 RESIDENTIAL GROUP R

Section: 310.3.1

310.3.1 Residential Group R-2.1. Residential Group R-2.1 occupancies shall include buildings, structures or parts thereof housing clients, on a 24-hour basis, who because of age, mental disability or other reasons, live in a supervised residential environment that provides personal care services.

This occupancy may contain more than six non-ambulatory and/or bedridden clients. (See Section 435 Special Provisions for Licensed 24-Hour Care Facilities in a Group R-2.1, R-3.1 or R-4 Occupancy). This group shall include, but not be limited to, the following:

*Assisted living facilities such as:
(example remain unchanged for assisted living facilities)*

*Social rehabilitation facilities such as:
Halfway houses,
Community correctional centers,
~~Community correction reentry centers,~~
Community treatment programs,
Work furlough programs,
Alcoholism or drug abuse recovery or treatment facilities.*

[I-3 OCCUPANCY WORKGROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3, TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10), 1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2, 1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2, 1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24, 1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

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

**SECTION 403
HIGH-RISE BUILDINGS, AND GROUP I-2 OCCUPANCIES HAVING OCCUPIED
FLOORS LOCATED MORE THAN 75 FEET ABOVE THE LOWEST LEVEL OF FIRE
DEPARTMENT VEHICLE ACCESS**

Section: 403.1

403.1 Applicability. New high-rise buildings (see section 202 for definition of a high-rise), and new Group I-2 occupancies having occupied floors located more than 75 feet above the lowest level of fire department vehicle access shall comply with Sections 403.2 through 403.7.

Section: 403.3.2

403.3.2 Water supply to required fire pumps. In all buildings having an occupied floor that are is more than 120 feet (36 576 mm) above the lowest level of fire department vehicle access, required fire pumps shall be supplied by connections to not fewer than two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate.

Exception: Two connections to the same main shall be permitted provided that the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through not fewer than one of the connections.

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2,

602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

SECTION 404 ATRIUMS

Section: 404.6

404.6 Enclosure of atriums. Atrium spaces shall be separated from adjacent spaces by a 1-hour fire barrier constructed in accordance with Section 707 or a horizontal assembly constructed in accordance with Section 711, or both.

Exceptions: (exceptions 1, 2 and 3 remain unchanged)

4. *In other than Group I and R-2.1 occupancies.* A fire barrier is not required between the atrium and the adjoining spaces where the atrium is not required to be provided with a smoke control system.

[Office of Statewide Health Planning Department (OSHPD) 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New), 508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1, 907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7, 1010.1.9.8, 1026.4.1

SECTION 406 MOTOR-VEHICLE-RELATED OCCUPANCIES

Section: 406.2.1

406.2.1 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, and 19892 for additional provisions for residential garage door openers.*

Section: 406.6.4 (New), 406.6.4.1 (New), 406.6.4.2 (New), 406.6.4.3 (New), 406.6.4.3.1 (New), 406.6.4.4 (New)

406.6.4 Mechanical-access garages. Mechanical-access enclosed parking garages

shall be in accordance with Sections 406.6.4.1 through 406.6.4.5.

406.6.4.1 Separation. *Mechanical-access enclosed parking garages shall be separated from other occupancies and accessory uses by not less than 2-hour fire barriers constructed in accordance with Section 707 or by not less than 2-hour horizontal assemblies constructed in accordance with Section 711, or both.*

406.6.4.2 Smoke removal. *A mechanical smoke removal system, in accordance with Section 910.4, shall be provided for all areas containing an mechanical-access enclosed parking garage.*

406.6.4.3 Fire control equipment room. *The fire control equipment, consisting of the fire alarm control unit, mechanical ventilation controls and emergency shut down switch shall be provided in a room located where the equipment is able to be accessed by the fire service from a secured exterior door of a building. The room shall be a minimum of 50 square feet in size and shall be in a location that is approved by the fire code official.*

406.6.4.3.1 Emergency shut down switch. *The mechanical parking system shall be provided with a manually activated emergency shutdown switch for use by emergency personnel. The switch shall be clearly identified and shall be in a location approved by the fire code official.*

406.6.4.4 Fire department access doors. *Access doors shall be provided in accordance with Section 3203.7 of the California Fire Code.*

[AUTOMATIC PARKING GARAGE 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

202 (New), 406.6.4 (New), 406.6.4.1 (New), 406.6.4.2 (New), 406.6.4.3 (New), 406.6.4.3.1 (New), 406.6.4.4 (New), TABLE 508.4, Table 903.2.11.6

SECTION 407 GROUP I-2 AND GROUP I-2.1

Sections: 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New)

407.1.1 Construction. *Group I-2 Occupancies wherein mental health patients are restrained shall be housed in buildings of Type IA or Type IB construction.*

Exception:

Occupancies in Group I-2 wherein mental health patients are restrained are permitted to be housed in one-story buildings of Type IIA, Type IIIA or Type VA construction provided the floor area does not exceed 5,200 square feet (483 m²) between fire walls of two-hour fire-resistive construction with openings protected by fire assemblies having a 1 1/2-hour fire protection rating.

407.4.4.3 Access to corridor. *Movement from habitable rooms shall be in accordance with Sections 407.4.4.3.1, 407.4.4.3.2 and 407.4.4.5.3.*

~~**Exception:** The distance of travel shall be permitted to be increased to 125 feet (38 100 mm) where an automatic smoke detection system is provided throughout the care suite and installed in accordance with NFPA 72.~~

407.4.4.5 Care suites containing sleeping room areas. Sleeping rooms shall be permitted to be grouped into care suites where one of the following criteria is met:

- ~~1. The care suite is not used as an exit access for more than eight care recipient beds.~~
21. The arrangement of the care suite allows for direct and constant visual supervision into the sleeping rooms by care providers.
32. An automatic smoke detection system is provided in the sleeping rooms and installed in accordance with NFPA 72.

~~**[F] 407.9 Automatic fire detection.** *Automatic fire detection shall be provided in accordance with Section 907.2.6.2.2. Corridors in Group I-2, Condition 1 occupancies and spaces permitted to be open to the corridors by Section 407.2 shall be equipped with an automatic fire detection system. Group I-2, Condition 2 occupancies shall be equipped with smoke detection as required in Section 407.2.*~~

Exceptions:

- ~~1. Corridor smoke detection is not required where sleeping rooms are provided with smoke detectors that comply with UL 268. Such detectors shall provide a visual display on the corridor side of each sleeping room and an audible and visual alarm at the care provider's station attending each unit.~~
- ~~2. Corridor smoke detection is not required where sleeping room doors are equipped with automatic door-closing devices with integral smoke detectors on the unit sides installed in accordance with their listing, provided that the integral detectors perform the required alerting function.~~

~~**[F] 407.11 Electrical systems.** In Group I-2 or I-2.1 occupancies, the essential electrical system for electrical components, equipment and systems shall be designed and constructed *electrical construction and installation shall be* in accordance with the provisions of Chapter 27 and NFPA-99 *Article 517 of the California Electrical Code.*~~

~~**407.12. Technology equipment center.** *A technology equipment center serving a Group I-2 occupancy shall be separated from other portions of the building by not less than a one-hour fire barrier constructed in accordance with Section 707 and a one-hour*~~

horizontal assembly constructed in accordance with Section 711 or both.

[Office of Statewide Health Planning Department (OSHPD) 2019 INTERVENING PROPOSLS]

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New), 508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1, 907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7, 1010.1.9.8, 1026.4.1

**SECTION 408
GROUP I-3**

Sections: 408.1.2.2, 408.3.6, TABLE 408.3.13, 408.13

408.1.2.2 Intervening spaces. *Common rooms and spaces within Group I-3 occupancies of Type 1 construction can shall be considered an intervening space in accordance with Section 1016.2 when the area is contained within housing units and or suites, and not considered a corridor, when they meet any of the following:*

1. *Within prisons and local detention facilities of Type I Construction, the exit access within a housing unit may be a non-rated corridor provided the required exit occupant load from any dayroom does not exceed 64 persons.*
2. *Within prison, jails, and courthouses: Circulation within any temporary holding suite of Type I construction and an occupant load less than 100.*
3. *Within prisons and local detention facilities, Areas within secure mental health treatment facilities, correctional medical or mental health housing suites, of Type I construction and an occupant load less than 100.*
4. *Within prisons and local detention facilities of Type 1 Construction, detention program housing units or suites having an occupant load less than 100.*

408.3.6 Exit discharge. Exits are permitted to discharge into a fenced or walled courtyard. Enclosed yards or courts shall be of a size to accommodate all occupants, be located not less than 50 feet (15 240 mm) from the building and have an area of not less than ~~37~~ (4.4 0.65 m²) square feet per person. A gate shall be provided from the safe dispersal area to allow for necessary relocation of occupants.

Table 408.3.13
MAXIMUM FLOOR AREA ALLOWANCES FOR I-3 FACILITIES^c

<u>FUNCTION OF SPACE</u>	<u>OCCUPANT LOAD FACTOR</u>
<u>Detention Facilities^{a, b}</u>	
<u>Housing Pod or Unit</u>	<u>Number of beds and staff</u>
<u>Refuge Area</u>	<u>6 net</u>

<u>Safe Dispersal Area</u>	<u>7 net</u>
<u>Instructional classroom</u>	<u>20 net</u>
<u>Exercise yard or rooms</u>	<u>50 gross</u>
<u>Dorms sleeping area</u>	<u>35 net</u>
<u>Holding Cell</u>	<u>10 sf per person / 40 sf minimum</u>
<u>Bench Seating</u>	<u>18 inches per person</u>

a. Temporary holding cells, rooms or areas shall be calculated based on policies and procedures approved by the authority having jurisdiction. See 408.3.11 for number of exits required.

b. Program rooms, day rooms and recreational yards which are dedicated to a housing pod or unit are not factored into the total occupant load of the building. Exiting from individual rooms shall meet the egress requirements of Chapter 10.

c. See Chapter 12 for specific requirements based on type of detention facility.

408.13 Windows. *In security areas within cell complexes sprinklered throughout, the area of glazing in one-hour corridor walls and smoke barrier walls shall not be restricted, provided:*

1. *All openings are protected by fixed glazing listed and labeled for a fire protection of at least 3/4 hour; or*

2. *Fixed security glazing set in noncombustible frames. Shall comply with the minimum requirements of one of the following test standards: ASTM F1233-98, Class III glass, or; California Department of Corrections and Rehabilitation, CDCR 860-94d Appendix H, or H.P. White Laboratory, Inc., HPW-TP- 0500.02, Forced Entry Level III.*

3. *In lieu of the sizes set forth in CBC, the size and area of glazed assemblies shall conform to the following: Windows required to have a three-fourths-hour fire-resistive rating or windows protected by fixed security glazing, as delineated in Items 1 and 2 above, may have an area not greater than 84 square feet (7.8 m²) with neither width nor height exceeding 12 feet (3658 mm).*

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3, TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10), 1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2, 1231.2.3, 1231.2.5131.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2, 1231.2.3, 1231.2.5131.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24,

1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

SECTION 411 SPECIAL AMUSEMENT BUILDINGS AREAS

Sections: 411, 411.1, 411.2, 411.3 (New), 411.4, 411.5, 411.6, 411.7

411.1 General. Special amusement buildings areas having an occupant load of 50 or more shall comply with the requirements for the appropriate Group A occupancy and Sections 411.1 through 411.7. 411.8. Special amusement buildings areas having an occupant load of less than 50 shall comply with the requirements for a Group B occupancy and Sections 411.1 through 411.7 411.8.

Exception: Special amusement buildings areas or portions thereof that are without walls or a roof and constructed to prevent the accumulation of smoke need not comply with this section.

~~For flammable decorative materials, see the *California Fire Code*.~~

~~**[F] 411.2 Automatic fire detection Automatic sprinkler system.** Special amusement buildings shall be equipped with an automatic fire detection system in accordance with Section 907. Buildings containing special amusement areas shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where the special amusement area is temporary, the sprinkler water supply shall be of an approved temporary means.~~

~~**Exception:** Automatic sprinklers are not required where the total floor area of a temporary special amusement area is less than 1,000 square feet (93 m²) and the exit access travel distance from any point in the special amusement area to an exit is less than 50 feet (15 240 mm).~~

~~**411.3 Fire alarm system.** Buildings containing special amusement areas shall be equipped with an automatic smoke detection system in accordance with 907.2.11.~~

~~**[F] 411.4 Alarm.** Actuation of a single smoke detector, the automatic sprinkler system or other automatic fire detection device shall immediately sound an alarm at the building at a constantly attended location from which emergency action can be initiated including the capability of manual initiation of requirements in Section 907.2.11.~~

~~**[F] 411.5 411.4 Emergency voice/alarm communications system.** An emergency voice/alarm communications system shall be provided in accordance with Sections 907.2.11 and 907.5.2.2, is permitted to serve as a public address system and shall be audible throughout the entire special amusement building area.~~

~~**411.5 Puzzle room exiting.** Puzzle room exiting shall comply with one of the following:~~

~~1. Exiting in accordance with Chapter 10,~~

~~2. An alternative design approved by the fire official.~~

411.6 Exit marking. Exit signs shall be installed at the required exit or exit access doorways of servicing special amusement buildings areas in accordance with this section and Section 1013. Approved directional exit markings shall be provided. Where mirrors, mazes or other designs are utilized that disguise the path of egress travel such that they are not apparent, approved and listed low-level exit signs that comply with Section 1013.5, and directional path markings listed in accordance with UL 1994, shall be provided and located not more than 8 inches (203 mm) above the walking surface and on or near the path of egress travel. Such markings shall become visible in an emergency. The directional exit marking shall be activated by the automatic fire ~~fire~~ smoke detection system and the automatic sprinkler system in accordance with Section 907.2.11.

411.7 Interior finish. The interior finish in special amusement areas shall be Class A in accordance with Section 803.1.

[PUZZLE ROOM 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

Table of Contents, 202, Title 411, 411.1, 411.2, 411.3, 411.4, 411.5, 411.6, 411.6.1, 411.7, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, TABLE 1017.2, INDEX

**SECTION 414
HAZARDOUS MATERIALS**

Section: TABLE 414.5.1

**[F] TABLE 414.5.1
EXPLOSION CONTROL REQUIREMENTS^{a, h}**

MATERIAL	CLASS	EXPLOSION CONTROL METHODS	
		Barricade construction	Explosion (deflagration) venting or explosion (deflagration) prevention systems
Hazard Category			
Special Uses			
Acetylene generator rooms			
<u>Energy storage systemsⁱ</u>	—	<u>Not required</u>	<u>Required</u>
Grain processing			

i. Where explosion control is required in Section 1206 of the California Fire Code.

[ENERGY STORAGE SYSTEMS 2019 INTERVEING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

306.2, TABLE 414.5.1, TABLE 509, 707.4, TABLE 716.1(2), T ABLE 716.1(3),
716.2.5.4.1 (New), 716.3.2.1.1.1 (New), TABLE 903.2.11.6, [Chapter 35] NFPA
68 (New)

SECTION 435

**SPECIAL PROVISIONS FOR LICENSED 24-HOUR CARE FACILITIES IN A GROUP
R-2.1, R-3.1, R-4 [SFM]**

Sections: 435.16 [Relocated and renumbered from section 510.10.]

435.16 510.10 Group R-2.1, R-3.1, R-4 [SFM] *Buildings housing protective social care homes or in occupancies housing inmates who are not restrained need not be of one-hour fire-resistive construction when not more than two stories in height. In no case, shall individual floor areas exceed 3,000 square feet (279 m²). The fire-resistive protection of the exterior walls shall not be less than one hour where such walls are located within 5 feet (1524mm) of the property line. Openings within such walls are not permitted. Openings in exterior nonrated walls need not be protected.*

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3,
TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10),
1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3,
1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7,
1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12,
1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2,
1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2,
1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24,
1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

**SECTION 453
GROUP L [SFM]**

Sections: 453.4.4, 453.4.7.2, 453.9

453.4.4 Emergency response equipment area. *When required by the fire code official, an area for emergency response equipment shall be provided on each floor in an approved location. The area shall be a minimum of 50 square feet (4.6 m²), for spill mitigation supplies per California Fire Code 5001.3.3.4 in a location approved by the fire code official, and identified with signage.*

Exception: *The area size for spill mitigation supplies may be reduced by the fire code official when adequate supplies are provided.*

453.4.7.2 Fire dampers, smoke dampers and combination fire/smoke dampers.
Fire dampers, smoke dampers or fire/smoke dampers shall not be permitted in mechanical exhaust duct systems used to maintain a safe laboratory environment. When the exhaust duct penetrates the laboratory suite boundary the exhaust duct shall be located within a horizontal or vertical assembly having a fire resistance rating equal to the fire barrier.

453.9 Existing Group L ~~or~~ and Group H-8 occupancies, additions, alterations, or repairs. See California Fire Code Chapter 11, Section 1116 and California Existing Building Code ~~Section~~ 316.

[L OCCUPANCY WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

453.4.4, 453.4.7.2, 1020.5, 3001.6

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

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

**SECTION 504
BUILDING HEIGHT AND NUMBER OF STORIES**

Section: TABLE 504.3

**TABLE 504.3
ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE ^{a, i}**

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-2.2 ^h	<u>NS</u> ^d	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>
	S (without area increase)	UL	180	85	75 <u>NP</u>	85	75 <u>NP</u>	85	70	60 <u>NP</u>

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
	<i>S (with area increase)</i>	<i>UL</i>	<i>160</i>	<i>65</i>	<i>55</i> <i>NP</i>	<i>65</i>	<i>55</i> <i>NP</i>	<i>65</i>	<i>60ⁱ</i>	<i>40</i> <i>NP</i>

For SI: 1 foot = 304.8 mm.

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 remain unchanged)

h. New Group R occupancies are required to be protected by an automatic sprinkler system in accordance with Section 903.2.8.

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3, TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10), 1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2, 1231.2.3, 1231.2.5131.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2, 1231.2.3, 1231.2.5131.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24, 1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

Section: TABLE 504.3

**TABLE 504.3
ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE ^{a, i}**

OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION				
	SEE FOOTNOTES	TYPE IV			
		A	B	C	HT
B, F, M, S, U	NS ^b	<u>65</u>	<u>65</u>	<u>65</u>	65
	S	<u>270</u>	<u>180</u>	<u>85</u>	85
A, E	NS ^b	<u>65</u>	<u>65</u>	<u>65</u>	65
	<i>S (without area increase)</i>	<u>270</u>	<u>180</u>	<u>85</u>	85
	<i>S (with area increase)</i>	<u>250</u>	<u>160</u>	<u>65</u>	65
H-1, H-2, H-3, H-5, L	NS ^{c,d}				
	<i>S (without area increase)</i>	<u>120</u>	<u>90</u>	<u>85</u>	65
	<i>S (with area increase)</i>				
H-4	NS ^{c,d}	<u>65</u>	<u>65</u>	<u>65</u>	65

	S (without area increase)	<u>140</u>	<u>100</u>	<u>85</u>	<u>85</u>
	S (with area increase)	<u>120</u>	<u>80</u>	<u>65</u>	<u>65</u>
I-3	NS ^{d,e}	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>
	S (without area increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>
	S (with area increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>
I-2, I-2.1	NS ^{d,f,e}				
	S (without area increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>
	S (with area increase)				<u>65</u>
I-4	NS ^{d,g}	<u>65</u>	<u>65</u>	<u>65</u>	<u>65</u>
	S (without area increase)	<u>180</u>	<u>120</u>	<u>85</u>	<u>85</u>
	S (with area increase)	<u>160</u>	<u>100</u>	<u>65</u>	<u>65</u>
R-1 ^h	NS ^d	<u>65</u>	<u>65</u>	<u>65</u>	<u>65</u>
	S13D	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
	S13R	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
	S (without area increase)	<u>270</u>	<u>180</u>	<u>85</u>	<u>85</u>
	S (with area increase)	<u>250</u>	<u>160</u>	<u>65</u>	<u>65</u>
R-2 ^h	NS ^d	<u>65</u>	<u>65</u>	<u>65</u>	<u>65</u>
	S13R	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
	S (without area increase)	<u>270</u>	<u>180</u>	<u>85</u>	<u>85</u>
	S (with area increase)	<u>250</u>	<u>160</u>	<u>65</u>	<u>65</u>
R-2.1 ^h	NS^d	<u>65</u>	<u>NP</u>	<u>NP</u>	65 <u>NP</u>
	S13D	<u>60</u>	<u>NP</u>	<u>NP</u>	60 <u>NP</u>
	S13R	<u>60</u>	<u>NP</u>	<u>NP</u>	60 <u>NP</u>
	S	<u>270</u>	<u>NP</u>	<u>NP</u>	85 <u>NP</u>
R-2.2 ^h	NS ^d	<u>65</u>	<u>65</u>	<u>65</u>	<u>65</u>
	S (without area increase)	<u>270</u>	<u>180</u>	<u>85</u>	<u>85</u>
	S (with area increase)	<u>250</u>	<u>160</u>	<u>65</u>	<u>65</u>
R-3, R-3.1 ^h	NS ^d	<u>65</u>	<u>65</u>	<u>65</u>	<u>65</u>
	S13D	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
	S13R	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
	S	<u>270</u>	<u>180</u>	<u>85</u>	65 <u>85</u>
R-2.4, R-4 ^h	NS ^d	<u>65</u>	<u>65</u>	<u>65</u>	<u>65</u>
	S13D	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
	S13R	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
	S	<u>270</u>	<u>180</u>	<u>85</u>	<u>85</u>

For SI: 1 foot = 304.8 mm.

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.

a. (footnotes remain unchanged)

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5

(New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Section: TABLE 504.4

TABLE 504.4—continued
ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE ^{a, b, n}

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
<i>R-2.2^h</i>	<i>NS^d</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
	<i>S (without area increase)</i>	<i>UL</i>	<i>12</i>	<i>5</i>	<i>5</i>	<i>5</i>	<i>5</i>	<i>5</i>	<i>4</i>	<i>3</i>
	<i>S (with area increase)</i>	<i>UL</i>	<i>11</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4^o</i>	<i>2</i>

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 remain unchanged)

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3, TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10), 1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2, 1231.2.3, 1231.2.5131.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2, 1231.2.3, 1231.2.5131.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24, 1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

Section: TABLE 504.4

TABLE 504.4
ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE ^{a, b, n}

OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION				
	SEE FOOTNOTES	TYPE IV			
		<u>A</u>	<u>B</u>	<u>C</u>	HT
A-1	NS	<u>3</u>	<u>3</u>	<u>3</u>	3
	S (without area increase)	<u>9</u>	<u>6</u>	<u>4</u>	4
	S (with area increase)	<u>8</u>	<u>5</u>	<u>3</u>	3
A-2	NS	<u>3</u>	<u>3</u>	<u>3</u>	3
	S (without area increase)	<u>18</u>	<u>12</u>	<u>6</u>	4
	S (with area increase)	<u>17</u>	<u>11</u>	<u>5</u>	3
A-3	NS	<u>3</u>	<u>3</u>	<u>3</u>	3
	S (without area increase)	<u>18</u>	<u>12</u>	<u>6</u>	4
	S (with area increase)	<u>17</u>	<u>11</u>	<u>5</u>	3
A-4	NS	<u>3</u>	<u>3</u>	<u>3</u>	3
	S (without area increase)	<u>18</u>	<u>12</u>	<u>6</u>	4
	S (with area increase)	<u>17</u>	<u>11</u>	<u>5</u>	3
A-5	NS	<u>1</u>	<u>1</u>	<u>1</u>	UL
	S	<u>UL</u>	<u>UL</u>	<u>UL</u>	UL
B	NS	<u>5</u>	<u>5</u>	<u>5</u>	5
	S	<u>18</u>	<u>12</u>	<u>9</u>	6
E	NS	<u>3</u>	<u>3</u>	<u>3</u>	3
	S (without area increase)	<u>9</u>	<u>6</u>	<u>4</u>	4
	S (with area increase)	<u>8</u>	<u>7</u>	<u>3</u>	3
F-1	NS	<u>3</u>	<u>3</u>	<u>3</u>	4
	S	<u>10</u>	<u>7</u>	<u>5</u>	5
F-2	NS	<u>5</u>	<u>5</u>	<u>5</u>	5
	S	<u>12</u>	<u>8</u>	<u>6</u>	6
H-1	NS ^{c, d}	<u>NP</u>	<u>NP</u>	<u>NP</u>	<u>NP</u>
	S	<u>1</u>	<u>1</u>	<u>1</u>	1
H-2	NS ^{c, d}	<u>1</u>	<u>1</u>	<u>1</u>	2
	S	<u>2</u>	<u>2</u>	<u>2</u>	2
H-3	NS ^{c, d}	<u>3</u>	<u>3</u>	<u>3</u>	4
	S	<u>4</u>	<u>4</u>	<u>4</u>	4
H-4	NS ^{c, d}	<u>5</u>	<u>5</u>	<u>5</u>	5
	S (without area increase)	<u>8</u>	<u>7</u>	<u>6</u>	6
	S (with area increase)	<u>7</u>	<u>6</u>	<u>5</u>	5
H-5	NS ^{c, d}	<u>2</u>	<u>2</u>	<u>2</u>	3
	S	<u>3</u>	<u>3</u>	<u>3</u>	3
I-2 / I-2.1 ^j	NS ^{d, f}	<u>NP</u>	<u>NP</u>	<u>NP</u>	1
	S (without area increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	
	S (with area increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	
I-3	NS ^{d, e}	<u>NP</u>	<u>NP</u>	<u>NP</u>	NP
	S (without area increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	NP
	S (with area increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	NP
I-4	NS ^{d, g}	<u>3</u>	<u>3</u>	<u>3</u>	3

	S (without area increase)	<u>9</u>	<u>6</u>	<u>4</u>	4
	S (with area increase)	<u>8</u>	<u>5</u>	<u>3</u>	3
L	NS	<u>NP</u>	<u>NP</u>	<u>NP</u>	NP
	S	<u>8</u>	<u>6</u>	<u>5</u>	5
M	NS	<u>4</u>	<u>4</u>	<u>4</u>	4
	S	<u>12</u>	<u>8</u>	<u>6</u>	5
R-1 ^h	NS ^d	<u>4</u>	<u>4</u>	<u>4</u>	4
	S13R	<u>4</u>	<u>4</u>	<u>4</u>	4
	S (without area increase)	<u>18</u>	<u>12</u>	<u>8</u>	5
	S (with area increase)	<u>17</u>	<u>11</u>	<u>7</u>	4
R-2 ^h	NS ^d	<u>4</u>	<u>4</u>	<u>4</u>	4
	S13R	<u>4</u>	<u>4</u>	<u>4</u>	4
	S (without area increase)	<u>18</u>	<u>12</u>	<u>8</u>	5
	S (with area increase)	<u>17</u>	<u>11</u>	<u>7</u>	4
R-2.1 ^h	NS ^d	<u>4</u>	<u>NP</u>	<u>NP</u>	NP
	S13R	<u>4</u>	<u>NP</u>	<u>NP</u>	NP
	S	<u>10</u>	<u>NP</u>	<u>NP</u>	NP
R-2.2 ^h	NS	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>
	S (without area increase)	<u>18</u>	<u>12</u>	<u>8</u>	5
	S (with area increase)	<u>17</u>	<u>11</u>	<u>7</u>	4
R-3, R-3.1 ^h	NS ^d	<u>4</u>	<u>4</u>	<u>4</u>	4
	S13D	<u>4</u>	<u>4</u>	<u>4</u>	4
	S13R	<u>4</u>	<u>4</u>	<u>4</u>	4
	S	<u>18</u>	<u>12</u>	<u>5</u>	5
R-4 ^h	NS ^d	<u>4^m</u>	<u>4^m</u>	<u>4^m</u>	4 ^m
	S13D	<u>4^m</u>	<u>4^m</u>	<u>4^m</u>	4 ^m
	S13R	<u>4^m</u>	<u>4^m</u>	<u>4^m</u>	4 ^m
	S	<u>11^l</u>	<u>5</u>	<u>5</u>	<u>5</u>
S-1	NS	<u>4</u>	<u>4</u>	<u>4</u>	4
	S	<u>10</u>	<u>7</u>	<u>5</u>	5
S-2 ⁱ	NS	<u>4</u>	<u>4</u>	<u>4</u>	<u>4.5</u>
	S	<u>12</u>	<u>8</u>	<u>5</u>	<u>5.6</u>
U	NS	<u>4</u>	<u>4</u>	<u>4</u>	4
	S	<u>9</u>	<u>6</u>	<u>5</u>	5

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 remain unchanged; footnote l. and m. included for reference).

l. Nonambulatory persons shall be limited to the first 5 stories.

m. Nonambulatory elderly clients are not permitted in buildings of these types of construction. See Sections 435.3.3 and 435.3.4.

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

SECTION 506 BUILDING AREA

Section: TABLE 506.2

TABLE 506.2—continued
ALLOWABLE AREA FACTOR
(At = NS, S1, S13R, S13D or SM, as applicable) IN SQUARE FEET ^{a, b, j}

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
<i>R-2.2^h</i>	<i>NSⁱ</i>	<u>UL</u>	<u>UL</u>	<u>24,000</u>	<u>NP</u>	<u>24,000</u>	<u>NP</u>	<u>20,500</u>	<u>12,000</u>	<u>NP</u>
	<i>S1</i>	<u>UL</u>	<u>UL</u>	<u>96,000</u>	64,000 <u>NP</u>	<u>96,000</u>	64,000 <u>NP</u>	<u>82,000</u>	<u>48,000</u>	28,000 <u>NP</u>
	<i>SM (without height increase)</i>	<u>UL</u>	<u>UL</u>	<u>72,000</u>	48,000 <u>NP</u>	<u>72,000</u>	48,000 <u>NP</u>	<u>61,500</u>	<u>36,000</u>	24,000 <u>NP</u>
	<i>SM (with height increase)</i>	<u>UL</u>	<u>UL</u>	<u>24,000</u>	16,000 <u>NP</u>	<u>24,000</u>	16,000 <u>NP</u>	<u>20,500</u>	<u>12,000</u>	7,000 <u>NP</u>

For S1: 1 square foot = 0.0929 m².

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.

a. (footnotes a. through k. remain unchanged.)

I. The NS value is only for use in evaluation of single-occupancy, multistory building buildings per the formula in section 506.2.3.

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3, TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10), 1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2, 1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2, 1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24, 1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

Section: TABLE 506.2

**TABLE 506.2
ALLOWABLE AREA FACTOR
(A_r = NS, S1, S13R, S13D or SM, as applicable) IN SQUARE FEET ^{a, b, j}**

OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION				
	SEE FOOTNOTES	TYPE IV			
		<u>A</u>	<u>B</u>	<u>C</u>	<u>HT</u>
A-1	NS	<u>45,000</u>	<u>30,000</u>	<u>18,750</u>	15,000
	S1	<u>180,000</u>	<u>120,000</u>	<u>75,000</u>	60,000
	SM (without height increase)	<u>135,000</u>	<u>90,000</u>	<u>56,250</u>	45,000
	SM (with height increase)	<u>45,000</u>	<u>30,000</u>	<u>18,750</u>	15,000
A-2	NS	<u>45,000</u>	<u>30,000</u>	<u>18,750</u>	15,000
	S1	<u>180,000</u>	<u>120,000</u>	<u>75,000</u>	60,000
	SM (without height increase)	<u>135,000</u>	<u>90,000</u>	<u>56,250</u>	45,000
	SM (with height increase)	<u>45,000</u>	<u>30,000</u>	<u>18,750</u>	15,000
A-3	NS	<u>45,000</u>	<u>30,000</u>	<u>18,750</u>	15,000
	S1	<u>180,000</u>	<u>120,000</u>	<u>75,000</u>	60,000
	SM (without height increase)	<u>135,000</u>	<u>90,000</u>	<u>56,250</u>	45,000
	SM (with height increase)	<u>45,000</u>	<u>30,000</u>	<u>18,750</u>	15,000
A-4	NS	<u>45,000</u>	<u>30,000</u>	<u>18,750</u>	15,000
	S1	<u>180,000</u>	<u>120,000</u>	<u>75,000</u>	60,000
	SM (without height increase)	<u>135,000</u>	<u>90,000</u>	<u>56,250</u>	45,000
	SM (with height increase)	<u>45,000</u>	<u>30,000</u>	<u>18,750</u>	15,000
A-5	NS	<u>UL</u>	<u>UL</u>	<u>UL</u>	UL
	S1				
	SM				
B	NS	<u>108,000</u>	<u>72,000</u>	<u>45,000</u>	36,000
	S1	<u>432,000</u>	<u>288,000</u>	<u>180,000</u>	144,000
	SM	<u>324,000</u>	<u>216,000</u>	<u>135,000</u>	108,000
E	NS	<u>76,500</u>	<u>51,000</u>	<u>31,875</u>	25,500
	S1	<u>306,000</u>	<u>204,000</u>	<u>127,500</u>	102,000

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	SM (without height increase)	<u>229,500</u>	<u>153,000</u>	<u>95,625</u>	76,500
	SM (with height increase)	<u>76,500</u>	<u>51,000</u>	<u>31,875</u>	25,500
F-1	NS	<u>100,500</u>	<u>67,000</u>	<u>41,875</u>	33,500
	S1	<u>402,000</u>	<u>268,000</u>	<u>167,500</u>	134,000
	SM	<u>301,500</u>	<u>201,000</u>	<u>125,625</u>	100,500
F-2	NS	<u>151,500</u>	<u>101,000</u>	<u>63,125</u>	50,500
	S1	<u>606,000</u>	<u>404,000</u>	<u>252,500</u>	202,000
	SM	<u>454,500</u>	<u>303,000</u>	<u>189,375</u>	151,500
H-1	NS ^c	<u>10,500</u>	<u>10,500</u>	<u>10,500</u>	10,500
	S1				
H-2	NS ^c	<u>10,500</u>	<u>10,500</u>	<u>10,500</u>	10,500
	S1				
	SM				
H-3	NS ^c	<u>25,500</u>	<u>25,500</u>	<u>25,500</u>	25,500
	S1				
	SM				
H-4	NS ^c	<u>72,000</u>	<u>54,000</u>	<u>40,500</u>	36,000
	S1	<u>288,000</u>	<u>216,000</u>	<u>162,000</u>	144,000
	SM (without height increase)	<u>216,000</u>	<u>162,000</u>	<u>121,500</u>	108,000
	SM (with height increase)	<u>72,000</u>	<u>54,000</u>	<u>40,500</u>	36,000
H-5	NS ^c	<u>72,000</u>	<u>54,000</u>	<u>40,500</u>	36,000
	S1	<u>288,000</u>	<u>216,000</u>	<u>162,000</u>	144,000
	SM (without height increase)	<u>216,000</u>	<u>162,000</u>	<u>121,500</u>	108,000
	SM (with height increase)	<u>72,000</u>	<u>54,000</u>	<u>40,500</u>	36,000
I-2 / I-2.1	NS ^{d,f}	<u>NP</u>	<u>NP</u>	<u>NP</u>	12,000
	S1	<u>NP</u>	<u>NP</u>	<u>NP</u>	48,000
	SM (without height increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	36,000
	SM (with height increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	12,000
I-3	NS ^{d,e}	<u>NP</u>	<u>NP</u>	<u>NP</u>	NP
	S1	<u>NP</u>	<u>NP</u>	<u>NP</u>	NP
	SM (without height increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	NP
	SM (with height increase)	<u>NP</u>	<u>NP</u>	<u>NP</u>	NP
I-4	NS ^{d,g}	<u>76,500</u>	<u>51,000</u>	<u>25,500</u>	25,500
	S1	<u>306,000</u>	<u>204,000</u>	<u>102,000</u>	102,000
	SM (without height increase)	<u>229,500</u>	<u>153,000</u>	<u>76,500</u>	76,500
	SM (with height increase)	<u>76,500</u>	<u>51,000</u>	<u>25,500</u>	25,500
L	NS	<u>60,000</u>	<u>37,500</u>	<u>36,000</u>	36,000
	S1				
	SM				
M	NS	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	20,500
	S1	<u>246,000</u>	<u>164,000</u>	<u>102,500</u>	82,000
	SM	<u>184,500</u>	<u>123,000</u>	<u>76,875</u>	61,500
R-1 ^h	NS ^d	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	20,500
	S13R				
	S1	<u>246,000</u>	<u>164,000</u>	<u>102,500</u>	82,000
	SM (without height increase)	<u>184,500</u>	<u>123,000</u>	<u>76,875</u>	61,500
	SM (with height increase)	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	20,500
R-2 ^h	NS ^d	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	20,500
	S13R				
	S1	<u>246,000</u>	<u>164,000</u>	<u>102,500</u>	82,000

	SM (without height increase)	<u>184,500</u>	<u>123,000</u>	<u>76,875</u>	61,500
	SM (with height increase)	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	20,500
R-2.1 ^h	NS ^d	<u>54,000</u>	NP	NP	NP
	S13R				
	S1	<u>216,000</u>	NP	NP	72,000 NP
	SM (without height increase)	<u>162,000</u>	NP	NP	54,000 NP
	SM (with height increase)	<u>54,000</u>	NP	NP	NP
R-2.2 ^h	NS ^d	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	20,500
	S1	<u>246,000</u>	<u>164,000</u>	<u>102,500</u>	82,000
	SM (without height increase)	<u>184,500</u>	<u>123,000</u>	<u>76,875</u>	61,500
	SM (with height increase)	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	20,500
R-3/R-3.1 ^h	NS ^d	UL	UL	UL	UL
	S13D				
	S13R				
	S1				
	SM				
R-4 ^h	NS ^d	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	20,500
	S13R				
	S1	<u>246,000</u>	<u>164,000</u>	<u>102,500</u>	82,000
	SM (without height increase)	<u>184,500</u>	<u>123,000</u>	<u>76,875</u>	61,500
	SM (with height increase)	<u>61,500</u>	<u>41,000</u>	<u>25,625</u>	<u>20,500</u>
S-1	NS	<u>76,500</u>	<u>51,000</u>	<u>31,875</u>	25,500
	S1	<u>306,000</u>	<u>204,000</u>	<u>127,500</u>	102,000
	SM	<u>229,500</u>	<u>153,000</u>	<u>95,625</u>	76,500
S-2	NS	<u>115,500</u>	<u>77,000</u>	<u>48,125</u>	38,500
	S1	<u>462,000</u>	<u>308,000</u>	<u>192,500</u>	154,000
	SM	<u>346,500</u>	<u>231,000</u>	<u>144,375</u>	115,500
U	NS	<u>54,000</u>	<u>36,000</u>	<u>22,500</u>	18,000
	S1	<u>216,000</u>	<u>144,000</u>	<u>90,000</u>	72,000
	SM	<u>162,000</u>	<u>108,000</u>	<u>67,500</u>	54,000

For SI: 1 square foot = 0.0929 m².

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.

a. (footnotes remain unchanged)

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New),

602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

SECTION 508 MIXED USE AND OCCUPANCY

Section: 508.3.1.2 (Delete)

~~**508.3.1.2 Group I-2, Condition 2 occupancies.** Where one of the nonseparated occupancies is Group I-2, Condition 2, the most restrictive requirements of Sections 407, 509 and 712 shall apply throughout the fire area containing the Group I-2 occupancy. The most restrictive requirements of Chapter 10 shall apply to the path of egress from the Group I-2, Condition 2 occupancy up to and including the exit discharge.~~

[Office of Statewide Health Planning Department (OSHPD) 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New), 508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1, 907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7, 1010.1.9.8, 1026.4.1

[Related Sections in Part 9, California Fire Code]

903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7, 1010.1.9.8, 1026.4.1

Section: TABLE 508.4

TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES (HOURS) ^f

(Table remains unchanged. Footnote c. was revised to add a new section number reference.)

c. See Section 406.3.2 and 406.6.4.

[AUTOMATIC PARKING GARAGE 2019 INTERVENING PROPOSALS] [Associated Sections in Part 2, California Building Code]:

202 (New), 406.6.4 (New), 406.6.4.1 (New), 406.6.4.2 (New), 406.6.4.3 (New),
406.6.4.3.1 (New), 406.6.4.4 (New), TABLE 508.4, Table 903.2.11.6

Section: TABLE 508.4

**TABLE 508.4
REQUIRED SEPARATION OF OCCUPANCIES (HOURS)^h**

OCCUPANCY	<i>R-1^a, R-2^a, R-2.2^a R-3^a, R-3.1^a, R-4^a</i>	
	S	NS
<i>R-1^a, R-2^a, R-2.2^a, R-3^a, R-3.1^a, R-4^a</i>	N	N

S = Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

NS = Buildings not equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

N = No separation requirement.

NP = Not Permitted.

a. See Section 420.

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3, TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10), 1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2, 1231.2.3, 1231.2.5131.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2, 1231.2.3, 1231.2.5131.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24, 1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

Section: 508.4.4.1

508.4.4.1 Construction. Required separations shall be fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both, ~~so as to~~ completely separate adjacent occupancies. Mass timber elements serving as fire barriers or horizontal assemblies to separate occupancies in Type IV-B or IV-C construction shall be separated from the interior of the building with an approved thermal barrier consisting of a minimum of 1/2-inch (12.7 mm) gypsum board or a material that is tested in accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275.

[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

**SECTION 509
INCIDENTAL USES**

Section: TABLE 509

**[F] TABLE 509
INCIDENTAL USES**

ROOM OR AREA	SEPARATION AND/OR PROTECTION
Stationary storage battery systems having an energy capacity greater than the threshold quantity specified in Table 1206.2 of the California Fire Code	1 hour in Group B, F, M, S and U occupancies; 2 hours in Group A, E, I and R occupancies^a

[ENERGY STORAGE SYSTEMS 2019 INTERVEING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

306.2, TABLE 414.5.1, TABLE 509, 707.4, TABLE 716.1(2), T ABLE 716.1(3), 716.2.5.4.1 (New), 716.3.2.1.1.1 (New), TABLE 903.2.11.6, [Chapter 35] NFPA 68 (New)

Section: 509.4.1.1 (New)

509.4.1.1 Type IV-B and IV-C construction. *Where Table 509 specifies a fire-resistance-rated separation, mass timber elements serving as fire barriers or a horizontal assembly in Type IV-B or IV-C construction shall be separated from the interior of the incidental use with an approved thermal barrier consisting of a minimum of ½ inch (12.7 mm) gypsum board or a material that is tested in accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275.*

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 6. CHAPTER 6
TYPES OF CONSTRUCTION**

Sections: TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New),

**SECTION 601
GENERAL**

**TABLE 601
FIRE-RESISTANCE RATING REQUIREMENTS
FOR BUILDING ELEMENTS (HOURS)**

BUILDING ELEMENT	TYPE IV			
	<u>A</u>	<u>B</u>	<u>C</u>	HT
Primary structural frame ^f (see Section 202)	<u>3^a</u>	<u>2^a</u>	<u>2^a</u>	HT
Bearing walls				
Exterior ^{e, f}	<u>3</u>	<u>2</u>	<u>2</u>	2
Interior	<u>3</u>	<u>2</u>	<u>2</u>	1/HT ^g
Nonbearing walls and partitions	See Table 602			
Exterior				
Nonbearing walls and partitions				See
Interior ^d	<u>0</u>	<u>0</u>	<u>0</u>	Section
				2304.11.2
Floor construction and associated secondary members (see Section 202)	<u>2</u>	<u>2</u>	<u>2</u>	HT
Roof construction and associated secondary members (see Section 202)	<u>1^{1/2}</u>	<u>1</u>	<u>1</u>	HT

For SI: 1 foot = 304.8 mm.

(Footnotes a. and b. remain unchanged)

c. In all occupancies, heavy timber complying with Section 2304.11 shall be allowed for roof construction including primary structural frame members where a 1-hour or less fire-resistance rating is required.

(Footnotes d., e., and f. remain unchanged)

g. Heavy timber bearing walls supporting more than two floors or more than a floor and a roof shall have a fire resistance rating of not less than 1 hour.

SECTION 602 CONSTRUCTION CLASSIFICATION

TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE^{a, d, g}

FIRE SEPARATION DISTANCE = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP He, L	OCCUPANCY GROUP F-1, M, S-1 ^f	OCCUPANCY GROUP A, B, E, F-2, I, Ri, S-2, Uh
$X < 5^b$	All	3	2	1
$5 \leq X < 10$	IA, <u>IVA</u> Others	3 2	2 1	1 1
$10 \leq X < 30$	IA, IB, <u>IVA, IVB</u> IIB, VB Others	2 1 1	1 0 1	1 ^c 0 1 ^c
$X \geq 30$	All	0	0	0

For SI: 1 foot = 304.8 mm.
(Footnotes remain unchanged)

602.4 Type IV. Type IV construction is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of solid wood, laminated wood, heavy timber (HT) or structural composite lumber (SCL) without concealed spaces. The minimum dimensions for permitted materials including solid timber, glued-laminated timber, structural composite lumber (SCL), and cross-laminated timber and details of Type IV construction shall comply with the provisions of this section and Section 2304.11. Exterior walls complying with Section 602.4.1 or 602.4.2 shall be permitted. Interior walls and partitions not less than 1-hour fire-resistance rating or heavy timber complying with Section 2304.11.2.2 shall be permitted the building elements are mass timber or noncombustible materials and have fire resistance ratings in accordance with Table 601. Mass timber elements shall meet the fire resistance rating requirements of this section based on either the fire resistance rating of the noncombustible protection, the mass timber, or a combination of both and shall be determined in accordance with Section 703.2 or 703.3. The minimum dimensions and permitted materials for building elements shall comply with the provisions of this section and Section 2304.11. Mass timber elements of Types IV A, IV B and IV C construction shall be protected with noncombustible protection applied directly to the mass timber in accordance with Sections 602.4.1 through 602.4.3. The time assigned to the noncombustible protection shall be determined in accordance with Section 703.8 and comply with 722.7.

Cross-laminated timber shall be labeled as conforming to PRG 320-18 as referenced in Section 2303.1.4.

Exterior load-bearing walls and non-load-bearing walls shall be mass timber

construction, or shall be of noncombustible construction.

Exception: Exterior load-bearing walls and non-load-bearing walls of Type IV-HT Construction in accordance with Section 602.4.4.

The interior building elements, including non-load-bearing walls and partitions, shall be of mass timber construction or of noncombustible construction.

Exception: Interior building elements and non-load-bearing walls and partitions of Type IV-HT Construction in accordance with Section 602.4.4.

Combustible concealed spaces are not permitted except as otherwise indicated in Sections 602.4.1 through 602.4.4.

Combustible stud spaces within light frame walls of Type IV-HT construction shall not be considered concealed spaces, but shall comply with Section 718.

In buildings of Type IV-A, B, and C, construction with an occupied floor located more than 75 feet above the lowest level of building access, up to and including 12 stories or 180 feet above grade plane, mass timber interior exit and elevator hoist-way enclosures shall be protected in accordance with Section 602.4.1.2. In buildings, greater than 12 stories or 180 feet above grade plane, interior exit and elevator hoist-way enclosures shall be constructed of non-combustible materials.

602.4.1 Type IV-A. Building elements in Type IV-A construction shall be protected in accordance with Sections 602.4.1.1 through 602.4.1.6. The required fire resistance rating of noncombustible elements and protected mass timber elements shall be determined in accordance with Section 703.2 or Section 703.3.

602.4.1.1 Exterior protection. The outside face of exterior walls of mass timber construction shall be protected with noncombustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1. All components of the exterior wall covering, shall be of noncombustible material except water resistive barriers having a peak heat release rate of less than 150kW/m², a total heat release of less than 20 MJ/m² and an effective heat of combustion of less than 18MJ/kg as determined in accordance with ASTM E 1354 and having a flame spread index of 25 or less and a smoke-developed index of 450 or less as determined in accordance with ASTM E 84 or UL723. The ASTM E 1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m².

602.4.1.2 Interior protection. Interior faces of all mass timber elements, including the inside faces of exterior mass timber walls and mass timber roofs, shall be protected with materials complying with Section 703.5.

602.4.1.2.1 Protection time. Noncombustible protection shall contribute a time equal to or greater than times assigned in Table

722.7.1(1), but not less than 80 minutes. The use of materials and their respective protection contributions listed in Table 722.7.1(2) shall be permitted to be used for compliance with Section 722.7.1.

602.4.1.3 Floors. The floor assemblies shall contain a noncombustible material not less than one inch in thickness above the mass timber. Floor finishes in accordance with Section 804 shall be permitted on top of the noncombustible material. The underside of floor assemblies shall be protected in accordance with 602.4.1.2.

602.4.1.4 Roofs. The interior surfaces of roof assemblies shall be protected in accordance with Section 602.4.1.2. Roof coverings in accordance with Chapter 15 shall be permitted on the outside surface of the roof assembly.

602.4.1.5 Concealed spaces. Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the California Mechanical Code, and shall comply with all applicable provisions of Section 718. Combustible construction forming concealed spaces shall be protected in accordance with Section 602.4.1.2.

602.4.1.6 Shafts. Shafts shall be permitted in accordance with Sections 713 and Section 718. Both the shaft side and room side of mass timber elements shall be protected in accordance with Section 602.4.1.2.

602.4.2 Type IV-B. Building elements in Type IV-B construction shall be protected in accordance with Sections 602.4.2.1 through 602.4.2.6. The required fire resistance rating of noncombustible elements or mass timber elements shall be determined in accordance with Section 703.2 or Section 703.3.

602.4.2.1 Exterior protection. The outside face of exterior walls of mass timber construction shall be protected with non-combustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1. All components of the exterior wall covering shall be of noncombustible material except water resistive barriers having a peak heat release rate of less than 150kW/m², a total heat release of less than 20 MJ/m² and an effective heat of combustion of less than 18MJ/kg as determined in accordance with ASTM E1354, and having a flame spread index of 25 or less and a smoke-developed index of 450 or less as determined in accordance with ASTM E 84 or UL723. The ASTM E 1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m².

602.4.2.2 Interior protection. Interior faces of all mass timber elements, including the inside face of exterior mass timber walls and mass timber

roofs, shall be protected, as required by this section, with materials complying with Section 703.5.

602.4.2.2.1 Protection time. Noncombustible protection shall contribute a time equal to or greater than times assigned in Table 722.7.1(1), but not less than 80 minutes. The use of materials and their respective protection contributions listed in Table 722.7.1(2) shall be permitted to be used for compliance with Section 722.7.1.

602.4.2.2.2 Protected area. All interior faces of all mass timber elements shall be protected in accordance with Section 602.4.2.2.1, including the inside face of exterior mass timber walls and mass timber roofs.

Exceptions: Unprotected portions of mass timber ceilings and walls complying with Section 602.4.2.2.4 and the following:

1. Unprotected portions of mass timber ceilings, including attached beams, shall be permitted and shall be limited to an area equal to 20% of the floor area in any dwelling unit or fire area; or

2. Unprotected portions of mass timber walls, including attached columns, shall be permitted and shall be limited to an area equal to 40% of the floor area in any dwelling unit or fire area; or

3. Unprotected portions of both walls and ceilings of mass timber, including attached columns and beams, in any dwelling unit or fire area shall be permitted in accordance with section 602.4.2.2.3.

4. Mass timber columns and beams which are not an integral portion of walls or ceilings, respectively, shall be permitted to be unprotected without restriction of either aggregate area or separation from one another.

602.4.2.2.3 Mixed unprotected areas. In each dwelling unit or fire area, where both portions of ceilings and portions of walls are unprotected, the total allowable unprotected area shall be determined in accordance with Equation 6-1.

$(U_{tc}/U_{ac}) + (U_{tw}/U_{aw}) \leq 1$ (Equation 6-1) where:

U_{tc} = Total unprotected mass timber ceiling areas

Uac = Allowable unprotected mass timber ceiling area conforming to Section 602.4.2.2.2, Exception 1

Utw = Total unprotected mass timber wall areas

Uaw = Allowable unprotected mass timber wall area conforming to Section 602.4.2.2.2, Exception 2

602.4.2.2.4 Separation distance between unprotected mass timber elements. *In each dwelling unit or fire area, unprotected portions of mass timber walls and ceilings shall be not less than 15 feet from unprotected portions of other walls and ceilings, measured horizontally along the ceiling and from other unprotected portions of walls measured horizontally along the floor.*

602.4.2.3 Floors. *The floor assembly shall contain a noncombustible material not less than one inch in thickness above the mass timber. Floor finishes in accordance with Section 804 shall be permitted on top of the noncombustible material. The underside of floor assemblies shall be protected in accordance with Section 602.4.1.2.*

602.4.2.4 Roofs. *The interior surfaces of roof assemblies shall be protected in accordance with 602.4.2.2 except, in non-occupiable spaces, they shall be treated as a concealed space with no portion left unprotected. Roof coverings in accordance with Chapter 15 shall be permitted on the outside surface of the roof assembly.*

602.4.2.5 Concealed spaces. *Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the California Mechanical Code, and shall comply with all applicable provisions of Section 718. Combustible construction forming concealed spaces shall be protected in accordance with Section 602.4.1.2.*

602.4.2.6 Shafts. *Shafts shall be permitted in accordance with Section 713 and Section 718. Both the shaft side and room side of mass timber elements shall be protected in accordance with Section 602.4.1.2.*

602.4.3 Type IV-C. *Building elements in Type IV-C construction shall be protected in accordance with Sections 602.4.3.1 through 602.4.3.6. The required fire resistance rating of building elements shall be determined in accordance with Section 703.2 or Section 703.3.*

602.4.3.1 Exterior protection. *The exterior side of walls of combustible construction shall be protected with non-combustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1. All components of the exterior wall covering, shall be of noncombustible material except water*

resistive barriers having a peak heat release rate of less than 150kW/m², a total heat release of less than 20 MJ/m² and an effective heat of combustion of less than 18MJ/kg as determined in accordance with ASTM E1354 and having a flame spread index of 25 or less and a smoke-developed index of 450 or less as determined in accordance with ASTM E 84 or UL723. The ASTM E 1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m².

602.4.3.2 Interior protection. Mass timber elements are permitted to be unprotected.

602.4.3.3 Floors. Floor finishes in accordance with Section 804 shall be permitted on top of the floor construction.

602.4.3.4 Roofs. Roof coverings in accordance with Chapter 15 shall be permitted on the outside surface of the roof assembly.

602.4.3.5 Concealed spaces. Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the California Mechanical Code, and shall comply with all applicable provisions of Section 718. Combustible construction forming concealed spaces shall be protected with noncombustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1.

602.4.3.6 Shafts. Shafts shall be permitted in accordance with Section 713 and Section 718. Shafts and elevator hoist-way and interior exit stairway enclosures shall be protected with noncombustible protection with a minimum assigned time of 40 minutes as determined in Section 722.7.1, on both the inside of the shaft and the outside of the shaft.

602.4.4 Type IV-HT. Type IV construction (Heavy Timber, HT) is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of solid wood, laminated heavy timber or structural composite lumber (SCL), without concealed spaces or with concealed spaces complying with Section 602.4.4.4. The minimum dimensions for permitted materials including solid timber, glued-laminated timber, structural composite lumber (SCL) and cross laminated timber (CLT) and details of Type IV construction shall comply with the provisions of this section and Section 2304.11. Exterior walls complying with Section 602.4.4.1 or 602.4.4.2 shall be permitted. Interior walls and partitions not less than one hour fire resistance rating or heavy timber conforming with Section 2304.11.2.2 shall be permitted.

602.4.1 602.4.4.1 Fire-retardant-treated wood in exterior walls. Fire-retardant-treated wood framing and sheathing complying with Section 2303.2 shall be permitted within exterior wall assemblies not less than 6 inches (152 mm) in thickness with a 2-hour rating or less.

602.4.2 602.4.4.2 Cross-laminated timber in exterior walls. Cross-laminated timber not less than 4 inches (102mm) in thickness complying with Section 2303.1.4 shall be permitted within exterior wall assemblies ~~not less than 6 inches (152 mm) in thickness with a 2-hour rating, or less, provided~~ Heavy timber structural members appurtenant to the CLT exterior wall shall meet the requirements of Table 2304.11 and be a fire-resistance rated as required for the exterior wall. ~~‡~~The exterior surface of the cross-laminated timber and heavy timber elements shall be is protected by one the following:

1. Fire-retardant-treated wood sheathing complying with Section 2303.2 and not less than 15/32 inch (12 mm) thick;
2. Gypsum board not less than 1/2 inch (12.7 mm) thick; or
3. A noncombustible material.

602.4.3 602.4.4.3 Exterior structural members. Where a horizontal separation of 20 feet (6096 mm) or more is provided, wood columns and arches conforming to heavy timber sizes complying with Section 2304.11 shall be permitted to be used externally.

602.4.4.4 Concealed spaces. Concealed spaces shall not contain combustible materials other than building elements and electrical, mechanical, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the California Mechanical Code. Concealed spaces shall comply with applicable provisions of Section 718. Concealed Spaces shall be protected in accordance with one or more of the following:

1. The building shall be sprinklered throughout in accordance with Section 903.3.1.1 and automatic sprinklers shall also be provided in the concealed space.
2. The concealed space shall be completely filled with noncombustible insulation.
3. Surfaces within the concealed space shall be fully sheathed with not less than 5/8-inch Type X gypsum board.

Exception: concealed spaces within interior walls and partitions with a one hour or greater fire resistance rating complying with Section 2304.11.2.2, shall not require additional protection.

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New),

602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 7. CHAPTER 7
FIRE AND SMOKE PROTECTION FEATURES**

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

Sections: 703.8 (New), 703.9 (New)

703.8 Determination of noncombustible protection time contribution. *The time, in minutes, contributed to the fire resistance rating by the noncombustible protection of mass timber building elements, components, or assemblies, shall be established through a comparison of assemblies tested using procedures set forth in ASTM E 119 or UL 263. The test assemblies shall be identical in construction, loading, and materials, other than the noncombustible protection. The two test assemblies shall be tested to the same criteria of structural failure.*

1. Test Assembly 1 shall be without protection.

2. Test Assembly 2 shall include the representative noncombustible protection. The protection shall be fully defined in terms of configuration details, attachment details, joint sealing details, accessories and all other

relevant details.

The noncombustible protection time contribution shall be determined by subtracting the fire resistance time, in minutes, of Test Assembly 1 from the fire resistance time, in minutes, of Test Assembly 2.

703.9 Sealing of adjacent mass timber elements. *In buildings of Type IVA, IVB, and IVC construction, sealant or adhesive shall be provided to resist the passage of air in the following locations:*

1. At abutting edges and intersections of mass timber building elements required to be fire resistance-rated

2. At abutting intersections of mass timber building elements and building elements of other materials where both are required to be fire resistance-rated.

Sealants shall meet the requirements of ASTM C920. Adhesives shall meet the requirements of ASTM D3498.

Exception: Sealants or adhesives need not be provided where they are not a required component of a tested fire resistance-rated assembly.

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

**SECTION 707
FIRE BARRIERS**

Sections: 707.4

707.4 Exterior walls. Where exterior walls serve as a part of a required fire-resistance rated shaft or stairway or ramp enclosure, or separation, such walls shall comply with

the requirements of Section 705 for exterior walls and the fire-resistance-rated enclosure or separation requirements shall not apply.

Exceptions:

1. Exterior walls required to be fire-resistance rated in accordance with Section 1021 for exterior egress balconies, Section 1023.7 for interior exit stairways and ramps and Section 1027.6 for exterior exit stairways and ramp.

2. Exterior walls required to be fire-resistance rated in accordance with Section 1206 of the International Fire Code for enclosure of energy storage systems.

[ENERGY STORAGE SYSTEMS 2019 INTERVEING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

306.2, TABLE 414.5.1, TABLE 509, 707.4, TABLE 716.1(2), TABLE 716.1(3), 716.2.5.4.1 (New), 716.3.2.1.1.1 (New), TABLE 903.2.11.6, [Chapter 35] NFPA 68 (New)

**SECTION 709
SMOKE BARRIERS**

Section: 709.5

709.5 Openings. Openings in a smoke barrier shall be protected in accordance with Section 716.

Exceptions:

1. In Group I-2, *I-2.1*, *R-2.1* and ambulatory care facilities, where a pair of opposite-swinging doors are installed across a corridor in accordance with Section 709.5.1, the doors shall ~~not be required to be protected in accordance with Section 716. The doors shall be close fitting within operational tolerances, and shall not have a center mullion, or undercuts in excess of 3/4 inch (19.1 mm), louvers or grilles. The doors shall have head and jamb stops, and astragals or rabbets at meeting edges. Where permitted by the door manufacturer's listing, positive latching devices are not required.~~ Factory-applied or field applied protective plates are not required to be labeled. Doors installed across corridors shall comply with Section 1010.1.1.

2. In Group I-2, *R-2.1* and ambulatory care facilities, special purpose horizontal sliding, accordion or folding doors installed in accordance with Section 1010.1.4.3 and protected in accordance with Section 716. Doors installed across corridors shall comply with Section 1010.1.1.

**[Office of Statewide Health Planning Department (OSHPD) 2019
INTERVENING PROPOSALS]**

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New),
508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1,
907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7,
1010.1.9.8, 1026.4.1

**SECTION 716
OPENING PROTECTIVES**

Sections: TABLE 716.1(2), TABLE 716.1(3), 716.2.5.4.1 (New), 716.3.2.1.1.1 (New)

**TABLE 716.1(2)
OPENING FIRE PROTECTION ASSEMBLIES, RATINGS AND MARKINGS**
(partial table shown to indicate where proposed changes occur)

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (hours)	MINIMUM SIDELIGHT/TRANSOM ASSEMBLY RATING (hours)		FIRE-RATED GLAZING MARKING SIDELIGHT/TRANSOM PANEL	
Fire protection					
Other fire barriers	1	$\frac{3}{4} f$		D-H f	
		Fire protection	Fire resistance	Fire protection	Fire resistance
Exterior walls	2	1 $\frac{1}{2} f$	2	D-H-OH-90 f	W-120
	Fire protection				
	3	$\frac{3}{4} f$		D-H-45 f	

(footnotes a. through e. unchanged)

f. Fire-protection-rated glazing is not permitted for fire barriers required by Section 1206 of the California Fire Code to enclose energy storage systems. Fire-resistance-rated glazing assemblies tested to ASTM E119 or UL 263, as specified in Section 716.1.2.3 shall be permitted.

**TABLE 716.1(3)
FIRE WINDOW ASSEMBLY FIRE PROTECTION RATINGS**
(partial table shown to indicate where proposed changes occur)

TYPE OF WALL ASSEMBLY
Interior walls Incidental use areas (Section 707.3.7) e ,

(footnotes a. through b. unchanged)

c. Fire-protection-rated glazing is not permitted for fire barriers required by Section 1206 of the California Fire Code to enclose energy storage systems. Fire-resistance-rated glazing assemblies tested to ASTM E119 or UL 263, as specified in Section 716.1.2.3 shall be permitted.

716.2.5.4 Fire door frames with transom lights and sidelights. (no code change proposal, section title included for reader ease)

716.2.5.4.1 Energy storage system separation. Fire-protection-rated glazing shall not be permitted in fire door frames with transom lights and sidelights in fire barriers required by Section 1206 of the California Fire Code to enclose energy storage systems.

716.3.2.1 Interior fire window assemblies. (no code change proposal, section title included for reader ease)

716.3.2.1.1 Where 3/4-hour-fire-protection window assemblies permitted. (no code change proposal, section title included for reader ease)

716.3.2.1.1.1 Energy storage system separation. Fire-protection-rated glazing is not permitted for use in fire window assemblies in fire barriers required by Section 1206 of the California Fire Code to enclose energy storage systems.

[ENERGY STORAGE SYSTEMS 2019 INTERVEING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

306.2, TABLE 414.5.1, TABLE 509, 707.4, TABLE 716.1(2), T ABLE 716.1(3), 716.2.5.4.1 (New), 716.3.2.1.1.1 (New), TABLE 903.2.11.6, [Chapter 35] NFPA 68 (New)

SECTION 718 CONCEALED SPACES

Section: 718.2.1

718.2.1 Fireblocking materials. Fireblocking shall consist of the following materials:

1. (existing code language remain unchanged)

9. Mass timber complying with Section 2304.11.

[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4

(New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

SECTION 722 CALCULATED FIRE RESISTANCE

Sections: 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New)

722.7 Fire resistance rating of mass timber. *The required fire resistance of mass timber elements in Section 602.4 shall be determined in accordance with Section 703.2 or Section 703.3. The fire resistance rating of building elements shall be as required in Tables 601 and 602 and as specified elsewhere in this code. The fire resistance rating of the mass timber elements shall consist of the fire resistance of the unprotected element added to the protection time of the noncombustible protection.*

722.7.1 Minimum required protection. *Where required by Sections 602.4.1 through 602.4.3, noncombustible protection shall be provided for mass timber building elements in accordance with Table 722.7.1(1). The rating, in minutes, contributed by the noncombustible protection of mass timber building elements, components, or assemblies, shall be established in accordance with Section 703.8. The protection contributions indicated in Table 722.7.1(2) shall be deemed to comply with this requirement when installed and fastened in accordance with Section 722.7.2.*

TABLE 722.7.1(1)
PROTECTION REQUIRED FROM NONCOMBUSTIBLE COVERING MATERIAL

<u>Required Fire Resistance Rating of Building Element per Tables 601 and 602 (hours)</u>	<u>Minimum Protection Required from noncombustible Protection (minutes)</u>
<u>1 hr.</u>	<u>40</u>
<u>2 hr.</u>	<u>80</u>
<u>3 hr. or more</u>	<u>120</u>

TABLE 722.7.1(2)
PROTECTION PROVIDED BY NONCOMBUSTIBLE COVERING MATERIAL

<u>Noncombustible Protection</u>	<u>Protection Contribution (minutes)</u>
<u>1/2-inch Type X Gypsum Board</u>	<u>25</u>
<u>5/8-inch Type X Gypsum Board</u>	<u>40</u>

722.7.2 Installation of gypsum board noncombustible protection. Gypsum board complying with Table 722.7.1(2) shall be installed in accordance with this section.

722.7.2.1 Interior surfaces. Layers of Type X gypsum board serving as noncombustible protection for interior surfaces of wall and ceiling assemblies determined in accordance with Table 722.7.1(1) shall be installed in accordance with the following:

1. Each layer shall be attached with Type S drywall screws of sufficient length to penetrate the mass timber at least 1 inch when driven flush with the paper surface of the gypsum board.

Exception: The third layer, where determined necessary by Section 722.7, shall be permitted to be attached with 1 inch #6 Type S drywall screws to furring channels in accordance with ASTM C645.

2. Screws for attaching the base layer shall be 12 inches on center in both directions.

3. Screws for each layer after the base layer shall be 12 inches on center in both directions and offset from the screws of the previous layers by 4 inches in both directions.

4. All panel edges of any layer shall be offset 18 inches from those of the previous layer.

5. All panel edges shall be attached with screws sized and offset as in items 1 through 4 above and placed at least 1 inch but not more than 2 inches from the panel edge.

6. All panels installed at wall-to-ceiling intersections shall be installed such that ceiling panels are installed first and the wall panels are installed after the ceiling panel has been installed and is fitted tight to the ceiling panel. Where multiple layers are required, each layer shall repeat this process.

7. All panels installed at a wall-to-wall intersection shall be installed such that the panels covering an exterior wall or a wall with a greater fire resistance rating shall be installed first and the panels covering the other wall shall be fitted tight to the panel covering the first wall. Where multiple layers are required, each layer shall repeat this process.

8. Panel edges of the face layer shall be taped and finished with joint compound. Fastener heads shall be covered with joint compound.

9. Panel edges protecting mass timber elements adjacent to unprotected mass timber elements in accordance with Section 602.4.2.2 shall be covered with 1 1/4-inch metal corner bead and finished with joint compound.

722.7.2.2 Exterior surfaces. Layers of Type X gypsum board serving as noncombustible protection for the outside of the exterior heavy timber walls determined in accordance with Table 722.7.1(1) shall be fastened 12 inches on center each way and 6 inches on center at all joints or ends. All panel edges shall be attached with fasteners located at least 1 inch but not more than 2 inches from the panel edge. Fasteners shall comply with one of the following:

1. Galvanized nails of minimum 12 Gage with a 7/16-inch head of sufficient length to penetrate the mass timber a minimum of 1 inch.

2. Screws which comply with ASTM C1002 (Type S, Type W, or Type G) of sufficient length to penetrate the mass timber a minimum of 1 inch.

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New),

722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 8. CHAPTER 7A [SFM]
MATERIALS AND CONSTRUCTION METHODS
FOR EXTERIOR WILDFIRE EXPOSURE**

**SECTION 705A
ROOFING**

Sections: 705A.1, 705A.2

705A.1 General. *Roofs shall comply with the requirements of Chapter 7A and Chapter 15. Roofs shall have a roofing assembly installed in accordance with its listing and the manufacturer's installation instructions. Roof assemblies in the Fire Hazard Severity Zones shall be Class A rating when tested in accordance with ASTM E108 or UL790.*

705A.2 Roof coverings. *~~Where the roof profile allows a space between the roof covering and roof decking, the spaces shall be constructed to resist the intrusion of flames and embers, be firestopped with approved materials or have one layer of minimum 72 pound (32.4 kg) mineral surfaced nonperforated cap sheet complying with ASTM D3909 installed over the combustible decking.~~ Where the roofing profile has an airspace under the roof covering, installed over a combustible deck, a 72 lb. (32.7kg) cap sheet complying with ASTM D3909 Standard Specification for "Asphalt Rolled Roofing (Glass Felt) Surfaced with Mineral Granules", shall be installed over the roof deck. Bird stops shall be used at the eaves when the profile fits, to prevent debris at the eave. Hip and ridge caps shall be mudded in to prevent intrusion of fire or embers.*

Exception: *Cap sheet is not required when no less than 1" of mineral wool board or other non-combustible material is located between the roofing material and wood framing or deck.*

Alternately, a class A fire rated roof underlayment, tested in accordance with ASTM E108, shall be permitted to be used. If the sheathing consists of exterior rated fire retardant treated wood, the underlayment shall not be required to comply with a Class A classification. Bird stops shall be used at the eaves when the profile fits, to prevent debris at the eave. Hip and ridge caps shall be mudded in to prevent intrusion of fire or embers.

[WILDLAND URBAN INTERFACE 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

705A.1, 705A.2, 706A.2, 706A.2.1 (New), 706A.3, 709A.1, 709A.1.1 (New),
709A.3

**SECTION 706A
VENTS**

Sections: 706A.2, 706A.2.1 (New), 706A.3

706A.2 Requirements. *Ventilation openings for enclosed attics, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, and underfloor ventilation openings shall be fully covered with Wildland Flame and Ember Resistant (WUI) vents approved and listed by the California State Fire Marshal, or WUI vents listed to ASTM E2886, by complying with all metal-wire mesh, vents, other materials or other devices that meet one of the following requirements:*

~~1. Vents shall be listed to ASTM E2886 and comply with all of the following:~~

~~1.1. 1. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.~~

~~1.2. 2. There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test.~~

~~1.3. 3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).~~

~~2. Vents shall comply with all of the following:~~

~~2.1. The dimensions of the openings therein shall be a minimum of 1/16-inch (1.6 mm) and shall not exceed 1/8-inch (3.2 mm).~~

~~2.2. The materials used shall be noncombustible.~~

~~**Exception:** Vents located under the roof covering, along the ridge of roofs, with the exposed surface of the vent covered by noncombustible wire mesh, may be of combustible materials.~~

~~2.3. The materials used shall be corrosion resistant.~~

706A.2.1 The requirements of 706.A.2 shall apply to gable ends, ridge ends, crawl spaces (foundations) and all other ventilation vents that mount on a vertical wall.

706A.3 Ventilation openings on the underside of eaves and cornices. Vents shall not

be installed on the underside of eaves and cornices unless the vents are Wildland Flame and Ember Resistant (WUI) vents approved and listed by the California State Fire Marshal, or WUI vents listed to ASTM E2886, by complying with all of the following requirements:

Exceptions:

- ~~1. Vents listed to ASTM E2886 and complying with all of the following:~~
- ~~4.1. 1. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.~~
- ~~4.2. 2. There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test.~~
- ~~4.3. 3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).~~

Exceptions:

~~2.1. The enforcing agency shall be permitted to accept or approve special eave and cornice vents that resist the intrusion of flame and burning embers.~~

~~3.2. Vents complying with the requirements of Section 706A.2 shall be permitted to be installed on the underside of eaves and cornices in accordance with all ~~either one~~ of the following conditions:~~

~~3.1.2.1. The attic space being ventilated is fully protected by an automatic sprinkler system installed in accordance with Section 903.3.1.1 and ~~or~~,~~

~~3.2.2.2. The exterior wall covering and exposed underside of the eave are of noncombustible materials, or ignition-resistant materials, as determined in accordance with SFM Standard 12-7A-5 Ignition-Resistant Material and the requirements of Section 704A.3, and the vent is located more than 12 feet (3.66 m) from the ground or walking surface of a deck, porch, patio or similar surface.~~

[WILDLAND URBAN INTERFACE 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

705A.1, 705A.2, 706A.2, 706A.2.1 (New), 706A.3, 709A.1, 709A.1.1 (New), 709A.3

**SECTION 709A
DECKING**

Sections: 709A.1.1 (New), 709A.3

709A.1 General. *The walking surface material of decks, porches, balconies and stairs shall comply with the requirements of this section.*

709A.1.1 Flashing. *A minimum of a 6 in. (150 mm) metal flashing, applied vertically on the exterior of the wall, shall be installed at all deck-to-wall intersections.*

709A.3 Decking Surfaces. *The walking surface material of decks, porches, balconies and stairs shall be constructed with one of the following materials:*

- 1. Material that complies with the performance requirements of Section 709A.4 when tested in accordance with both ASTM E2632 and ASTM E2726.*
- 2. Ignition-resistant material that complies with the performance requirements of 704A.3 when tested in accordance with ASTM E84 or UL 723.*
- 3. Material that complies with the performance requirements of both SFM Standard 12-7A-4 and SFM Standard 12-7A-5.*
- 4. Exterior fire retardant treated wood*
- 5. Noncombustible material*
- 6. Any material that complies with the performance requirements of SFM Standard 12-7A-4A when attached exterior wall covering is also composed of noncombustible or ignition-resistant material.*

Exception: *Wall material shall be permitted to ~~may~~ be of any material that otherwise complies with this chapter when the decking surface material complies with the performance requirements ASTM E84 with a Class B flame spread index rating.*

7. Any material that complies with the performance requirements of Section 709A.5 when tested in accordance with ASTM E2632 and when attached exterior wall covering is also composed of only noncombustible or ignition-resistant materials.

Exception: *Wall material shall be permitted to be of any material that otherwise complies with this chapter when the decking surface material complies with the performance requirements ASTM E84 with a Class B flame spread index rating.*

[WILDLAND URBAN INTERFACE 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

705A.1, 705A.2, 706A.2, 706A.2.1 (New), 706A.3, 709A.1, 709A.1.1 (New), 709A.3

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

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

**SECTION 903
AUTOMATIC SPRINKLER SYSTEMS**

Section: TABLE 903.2.11.6

**TABLE 903.2.11.6
ADDITIONAL REQUIRED SUPPRESSION SYSTEMS**

SECTION	SUBJECT
<u>406.6.4</u>	<u>Mechanical-access enclosed parking garages</u>

[AUTOMATIC PARKING GARAGE 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

202 (New), 406.6.4 (New), 406.6.4.1 (New), 406.6.4.2 (New), 406.6.4.3 (New), 406.6.4.3.1 (New), 406.6.4.4 (New), TABLE 508.4, Table 903.2.11.6

Section: TABLE 903.2.11.6

**TABLE 903.2.11.6
ADDITIONAL REQUIRED FIRE SUPPRESSION SYSTEMS**

SECTION	SUBJECT
<u>California Fire Code Section 1206</u>	<u>Stationary and mobile energy storage systems</u>

[ENERGY STORAGE SYSTEMS 2019 INTERVEING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

306.2, TABLE 414.5.1, TABLE 509, 707.4, TABLE 716.1(2), T ABLE 716.1(3), 716.2.5.4.1 (New), 716.3.2.1.1.1 (New), TABLE 903.2.11.6, [Chapter 35] NFPA 68 (New)

Section: TABLE 903.2.11.6

**TABLE 903.2.11.6
ADDITIONAL REQUIRED FIRE SUPPRESSION SYSTEMS**

SECTION	SUBJECT
411.4 2	Special amusement buildings <u>areas</u>

[PUZZLE ROOM 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

Table of Contents, 202, Title 411, 411.1, 411.2, 411.3, 411.4, 411.5, 411.6, 411.6.1, 411.7, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, TABLE 1017.2, INDEX

[Associated Sections in Part 9, California Fire Code]:

202, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, 914.7, 914.7.1, 914.7.2, TABLE 1017.2, 3103.3.1, O103.1, INDEX

Section: 903.3.1.1.1

[F] 903.3.1.1.1 Exempt locations. *In other than Group I-2, I-2.1 and I-3 occupancies automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an approved automatic fire detection system in accordance with Section 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from a room merely because it is damp, of fire-resistance-rated construction or contains electrical equipment.*

1. A room where the application of water, or flame and water, constitutes a serious life or fire hazard when approved by the fire code official.
2. A room or space where sprinklers are considered undesirable because of the nature of the contents, where approved by the fire code official.
3. Machine rooms, machinery spaces, control rooms, control spaces and hoistways associated with fire service access elevators ~~machine rooms and machinery spaces~~ designed in accordance with Section 3007.
4. Machine rooms, machinery spaces, control rooms, ~~and control spaces~~ and hoistways associated with occupant evacuation elevators designed in accordance with Section 3008.
5. *Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, and associated electrical power distribution equipment, provided those spaces or areas are equipped throughout with an automatic smoke detection system in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1-hour fire barriers constructed in accordance with Section 707 or not less than 2-hour horizontal*

assemblies constructed in accordance with Section 712, or both.

6. Solar photovoltaic panel structures with no use underneath. Signs may be provided, as determined by the enforcing agency prohibiting any use underneath including storage.

7. Solar photovoltaic (PV) panels supported by framing that have sufficient uniformly distributed and unobstructed openings throughout the top of the array (horizontal plane) to allow heat and gases to escape, as determined by the enforcing agency.

**[Office of Statewide Health Planning Department (OSHPD) 2019
INTERVENING PROPOSALS]**

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New),
508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1,
907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7,
1010.1.9.8, 1026.4.1

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

Section: 904.13

[F] 904.13 Domestic cooking systems. Cooktops and ranges installed in the following occupancies shall be protected in accordance with Section 904.13.1:

1. In Group *R-2.1* occupancies where domestic cooking facilities are installed in accordance with Section 420.8.
2. In Group *I-2* ~~and *I-2.1*~~ occupancies where domestic cooking facilities are installed in accordance with Section 407.2.6.
3. In Group *R-2* college dormitories where domestic cooking facilities are installed in accordance with Section 420.10.

**[Office of Statewide Health Planning Department (OSHPD) 2019
INTERVENING PROPOSALS]**

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New),
508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1,
907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7,
1010.1.9.8, 1026.4.1

SECTION 907 FIRE ALARM AND DETECTION SYSTEMS

Section: 907.2.6.2.2

907.2.6.2.2 Automatic fire detection. *Smoke detectors shall be provided in accordance with this section.*

1. In patient and client sleeping rooms. Actuation of such detectors shall cause a visual display on the corridor side of the room in which the detector is located and shall cause an audible and visual alarm at the respective nurses' station. A nurse call system listed for this function is an acceptable means of providing the audible and visual alarm at the respective nurses' station and corridor room display. Operation of the smoke detector shall not include any alarm verification feature.

Exceptions:

1. In patient and client rooms equipped with existing automatic door closers having integral smoke detector, the integral detector is allowed to substitute for the room smoke detector, provided it meets all the required alerting functions.

2. In psychiatric treatment areas, when patients or clients are restrained, smoke detection shall not be required in patient and client sleeping rooms when all of the following conditions are met:

2.1. A fire sprinkler system is provided in accordance with Section 903.3.1.1.

2.2. An automatic smoke detection system shall be installed in corridors and other occupied areas and in mechanical/electrical spaces throughout the smoke compartment. The system shall be activated in accordance with Section 907.4.

2 3. Group I-2 nurses' stations. A minimum of one (1) smoke detector shall be installed at the nurses' station and centrally located.

3 4. In waiting areas and corridors onto which they open, in the same smoke compartment, in accordance with Section 407.2.1.

4 5. In areas where patients are restrained, smoke detectors shall be installed at ceilings throughout all occupied areas and mechanical/ electrical spaces of smoke compartments and in adjacent smoke compartments where occupants of those compartments utilize the same means of egress.

**[Office of Statewide Health Planning Department (OSHPD) 2019
INTERVENING PROPOSALS]**

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New),
508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1,
907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7,
1010.1.9.8, 1026.4.1

Sections: 907.2.10.2.1 (New), 907.2.10.2.1.1 (New), 907.2.10.2.2, 907.2.10.2.3,
907.2.10.2.4, 907.2.10.2.5 (New), 907.2.10.2.6 (New)

907.2.10.2.1 Licensed Group R-2.1 occupancies. *Licensed Group R-2.1 occupancies housing more than six non-ambulatory, elderly clients shall be provided with an approved manual and automatic fire alarm system.*

Exceptions: *Buildings housing non-ambulatory clients on the first story only and which are protected throughout by the following:*

- 1. An approved and supervised automatic sprinkler system, as specified in the California Fire Code Sections 903.3.1.1 or 903.3.1.2, which upon activation will initiate the fire alarm system to notify all occupants.*
- 2. A manual fire alarm system.*
- 3. Smoke alarms required by the California Fire Code Section 907.2.11.*

907.2.10.2.1.1 Smoke alarms. *Single- and multiple-station smoke alarms shall be installed in accordance with California Fire Code Section 907.2.10.*

907.2.10.2.12 Group I-4 occupancies. *(existing code language remains unchanged)*

907.2.10.2.23 Group R-3.1. *(existing code language remains unchanged)*

907.2.10.2.34 Smoke alarms. *(existing code language remains unchanged)*

907.2.10.2.5 Existing Group R occupancies. *See the California Residential Code for existing Group R-3 occupancies or Chapter 11 of the California Fire Code for all other existing Group R occupancies.*

907.2.10.2.6 Group R-4. *A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group R-4 occupancies housing non-ambulatory clients.*

Sections: 907.2.11, 907.2.11.2, 907.2.11.3

907.2.11 Special amusement buildings areas. An automatic smoke detection system shall be provided in special amusement buildings areas in accordance with Sections 907.2.11.1 through 907.2.11.3.

907.2.11.1 Alarm. (no code change proposal, section title included for reader ease)

907.2.11.2 System response.

1. (1.-3. Remain unchanged)
4. Activate a prerecorded message, audible throughout the special amusement building area, instructing patrons to proceed to the nearest exit. Alarm signals used in conjunction with the prerecorded message shall produce a sound that is distinctive from other sounds used during normal operation.

907.2.11.3 Emergency voice/alarm communication system. An emergency voice/alarm communication system, which is allowed to serve as a public-address system, shall be installed in accordance with Section 907.5.2.2 and be audible throughout the entire special amusement building area.

[PUZZLE ROOM 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

Table of Contents, 202, Title 411, 411.1, 411.2, 411.3, 411.4, 411.5, 411.6, 411.6.1, 411.7, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, 1017.2, INDEX

Sections: 907.3.2, 907.3.2.1, 907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New),

[F] 907.3.2 Special locking systems. Where special locking systems are installed on means of egress doors in accordance with Sections 1010.1.9.6~~7~~ or 1010.1.9.7~~8~~, an automatic smoke detection system shall be installed as required by ~~that~~ those sections and Sections 907.3.2.1 through 907.3.2.5.

907.3.2.1 Delayed egress. *In other than Groups I, R-2.1 and R-4 occupancies for single-story building, smoke detectors shall be installed at ceilings throughout all occupied areas and mechanical/electrical spaces. For multiple-story buildings, smoke detectors shall be installed throughout all occupied areas and mechanical/electrical spaces for the story where delayed egress devices are installed. Additional detectors are required on adjacent stories where occupants of those stories utilize the same means of egress.*

Exception: Refer to Section 907.3.2.4 for Group A courthouse occupancies.

907.3.2.2 Delayed egress ~~F~~for Group I and R-2.1 occupancies. *Smoke detectors shall be installed at ceilings throughout all occupied areas and*

mechanical/electrical spaces of smoke-compartments where delayed egress devices are installed. Additional detectors are required in adjacent smoke-compartments where occupants of those compartments utilize the same means of egress.

907.3.2.3 Delayed egress ~~F~~for Group R-4. *Occupancies licensed as residential care facilities for the elderly, and housing clients with Alzheimer's disease or dementia residential facilities, smoke detectors shall be installed at ceilings throughout all occupiable rooms and areas and mechanical/ electrical rooms and spaces.*

907.3.2.4 Delayed egress ~~F~~for Group A Courthouse occupancies. *An approved automatic smoke detection system shall be installed at ceilings in all occupied corridors and mechanical/electrical spaces of ~~smoke-compartments occupancies~~ where delayed egress devices are installed.*

907.3.2.5 Controlled egress doors for Group I-2 occupancies. *Smoke detectors shall be installed at ceilings throughout all occupied areas and mechanical/electrical spaces of smoke-compartments where controlled egress doors are installed.*

**[Office of Statewide Health Planning Department (OSHPD) 2019
INTERVENING PROPOSALS]**

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New),
508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1,
907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7,
1010.1.9.8, 1026.4.1

**SECTION 909
SMOKE CONTROL SYSTEMS**

Sections: 909.5.3

[F] 909.5.3 Opening protection. Openings in smoke barriers shall be protected by automatic-closing devices actuated by the required controls for the mechanical smoke control system. Door openings shall be protected by fire door assemblies complying with Section 716.

Exceptions:

(exceptions 1 and 2 remain unchanged)

3. In Group I-2, *I-2.1, R-2.1*; and ambulatory care facilities, where a pair of opposite-swinging doors are installed across a corridor in accordance with Section 909.5.3.1, the doors shall not be required to be protected in accordance with Section 716. The doors shall ~~be close-fitting within~~

~~operational tolerances and shall not have a center mullion, or undercuts in excess of 3/4 inch (19.1 mm), louvers or grilles. The doors shall have head and jamb stops and astragals or rabbets at meeting edges and, where permitted by the door manufacturer's listing, positive latching devices are not required. Positive-latching devices are required. Doors installed across corridors shall comply with Section 1010.1.1.~~

4. In Group I-2, *I-2.1*, *R-2.1* and ambulatory care facilities, where such doors are special-purpose horizontal sliding, accordion or folding door assemblies installed in accordance with Section 1010.1.4.3 and are automatic closing by smoke detection in accordance with Section 716.2.6.56, they shall be protected in accordance with Section 716. ~~The doors shall be close fitting within operational tolerances and shall not have undercuts in excess of 3/4 inch (19.1 mm), louvers or grilles. Where permitted by the manufacturer's listing, positive latching devices are not required. Doors installed across corridors shall comply with Section 1010.1.1.~~

(exceptions 5, 6, and 7 remain unchanged)

**[Office of Statewide Health Planning Department (OSHPD) 2019
INTERVENING PROPOSALS]**

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New),
508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1,
907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7,
1010.1.9.8, 1026.4.1

**SECTION 911
FIRE COMMAND CENTER**

Section: 911.1.2

911.1.2 Separation. The fire command center shall be separated from the remainder of the building by not less than a 42-hour fire barrier constructed in accordance with Section 707 or horizontal assembly constructed in accordance with Section 711, or both.

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 10. CHAPTER 10
MEANS OF EGRESS**

**SECTION 1004
OCCUPANT LOAD**

Sections: 1004.5, TABLE 1004.5

1004.5 Areas without fixed seating. The number of occupants shall be computed at the rate of one occupant per unit of area as prescribed in Table 1004.5. For areas without fixed seating, the occupant load shall not be less than that number determined by dividing the floor area under consideration by the occupant load factor assigned to the function of the space as set forth in Table 1004.5. Where an intended function is not listed in Table 1004.5, the building official shall establish a function based on a listed function that most nearly resembles the intended function.

Exceptions:

1. Where approved by the building official, the actual number of occupants for whom each occupied space, floor or building is designed, although less than those determined by calculation, shall be permitted to be used in the determination of the design occupant load.
2. For occupant loads within Correctional Treatment Centers, specific area requirements listed in Section 1227 shall apply.
3. For occupant loads within Juvenile Facilities, specific area requirements listed in Section 1230 shall apply.
4. For occupant loads within Local Detention facilities, specific area requirements listed in Section 1231 shall apply.

**TABLE 1004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT**

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR ^a
Institutional areas ^c	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m².

a. Floor area in square feet per occupant.

b. See Section 453.2

c. See Section 408.3.13 for I-3 Facilities

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3, TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10), 1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2, 1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2, 1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24, 1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

**SECTION 1010
DOORS, GATES AND TURNSTILES**

Section: 1010.1.9.7

1010.1.9.7 Controlled egress doors in Group I-2. Electric locking systems, including electromechanical locking systems and electromagnetic locking systems, shall be permitted to be locked in the means of egress in Group I-2 occupancies where the clinical needs of persons receiving psychiatric or mental health treatment care require their restraint or containment. Controlled egress doors shall be permitted in such occupancies where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and an approved automatic smoke ~~or heat~~ detection system installed in accordance with Section 907, provided that the doors are installed and operate in accordance with all of the following:

(requirements 1 through 8 remain unchanged)

Exceptions:

~~1.~~ Items 1 through 4 shall not apply to doors to areas occupied by persons who, because of clinical needs, require restraint or containment as part of the function of a psychiatric or mental health treatment area.

~~2.~~ Items 1 through 4 shall not apply to doors to areas where a listed egress control system is utilized to reduce the risk of child abduction from nursery and obstetric areas of a Group I-2 hospital.

1010.1.9.8 Delayed egress. Delayed egress locking systems shall be permitted to be installed on doors serving the following occupancies in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and an approved automatic smoke ~~or heat~~ detection system installed in accordance with Section 907.

1. Group B, F, I, M, R, S and U occupancies.
2. Group E classrooms with an occupant load of less than 50.

Exception: Delayed egress locking systems shall be permitted to be installed on exit or exit access doors, other than the main exit or exit access door, serving a *Group A* courtroom in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 *and approved automatic smoke or heat detection system installed in accordance with Section 907.*

**[Office of Statewide Health Planning Department (OSHPD) 2019
INTERVENING PROPOSALS]**

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New),
508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1,
907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7,
1010.1.9.8, 1026.4.1

**SECTION 1017
EXIT ACCESS TRAVEL DISTANCE**

Section: TABLE 1017.2

**TABLE 1017.2
EXIT ACCESS TRAVEL DISTANCE ^a**
(Table unchanged)

For SI: 1 foot = 304.8 mm.

a. See the following sections for modifications to exit access travel distance requirements:

Section ~~411.3~~ 411.2: For the distance limitation in special amusement ~~buildings~~
areas.

[PUZZLE ROOM 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

Table of Contents, 202, Title 411, 411.1, 411.2, 411.3, 411.4, 411.5, 411.6,
411.6.1, 411.7, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, TABLE
1017.2, INDEX

**SECTION 1020
CORRIDORS**

Section: TABLE 1020.2

**TABLE 1020.2
MINIMUM CORRIDOR WIDTH**

OCCUPANCY	MINIMUM WIDTH (inches)
Group I-2 <u>and</u> I-3 in areas where required for bed movement	96
Corridors in Group I-2 and I-3 occupancies serving any area caring for one or more non-ambulatory persons.	96

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3, TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10), 1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2, 1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2, 1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24, 1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

Section: 1020.5

1020.5 Air movement in corridors. Corridors shall not serve as supply, return, exhaust, relief or ventilation air ducts.

Exceptions:

1. (exceptions 1 through 3 remain unchanged)
4. Incidental air movement from pressurized rooms within health care facilities and Group L occupancies, provided that the corridor is not the primary source of supply or return to the room.

[L OCCUPANCY WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

453.4.4, 453.4.7.2, 1020.5, 3001.6

**SECTION 1026
HORIZONTAL EXITS**

Section: 1026.4.1

1026.4.1 Capacity. The capacity of the refuge area shall be computed based on a net floor area allowance of 3 square feet (0.2787 m²) for each occupant to be accommodated therein. Where the horizontal exit also forms a smoke compartment, the capacity of the refuge area for Group I-2, I-2.1 and I-3 and R-2.1 occupancies ~~and Group B ambulatory care facilities~~ shall comply with Sections 407.5.3, 408.6.2, ~~420.6.4~~ and ~~422.3.2~~ 420.6.2 as applicable.

**[Office of Statewide Health Planning Department (OSHPD) 2019
INTERVENING PROPOSALS]**

[Related Sections in Part 2, California Building Code]

404.6, 407, 407.1.1, 407.4.4.3, 407.4.4.5, 407.9, 407.11, 407.12 (New),
508.3.1.2 (Delete), 709.5, 903.3.1.1.1, 904.13, 907.2.6.2.2, 907.3.2, 907.3.2.1,
907.3.2.2, 907.3.2.3, 907.3.2.4, 907.3.2.5 (New), 909.5.3, 1010.1.9.7,
1010.1.9.8, 1026.4.1

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502,
1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114,
13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211,
17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education
Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211,
18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178,
51179, Public Resources Code Sections 4201-4204

**Item 11. CHAPTER 12
INTERIOR ENVIRONMENT**

**[SFM proposed to adopt the following Chapter 12 sections: 1227.5, 1227.5.2,
1227.6 thru 1227.6.3, 1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10
thru 1227.10.7, 1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4 thru 1230.10,
1230.1.12, 1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2,
1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24,
1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7]**

**SECTION 1230 [BSCC]
MINIMUM STANDARDS FOR JUVENILE FACILITIES**

Section: 1230.2.10

1230.2.10 Security glazing. *Security glazing shall comply with the minimum requirements of one of the following test standards: American Society for Testing and Materials, ASTM F1233-98, Class III glass, or; California Department of Corrections and Rehabilitation, CDCR 860-94d Appendix H, Class C glass or; H.P. White Laboratory, Inc., HPW-TP-0500.02, Forced Entry Level III.*

[I-3 OCCUPANCY 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

310.3.1, 408.1.2.2, 408.3.6, TABLE 408.3.13 (New), 408.13, TABLE 504.3,
TABLE 504.4, TABLE 506.2, TABLE 508.4. 435.16 (Renumbered from 510.10),
1004.5, TABLE 1004.5, TABLE 1020.2, 1227.5, 1227.5.2, 1227.6-1227.6.3,

1227.7.4, 1227.8.1, 1227.9.1, 1227.9.1.1, 1227.9.2.2, 1227.10-1227.10.7,
1227.12.1, 1227.22.1.1, 1227.23.1, 1230.1.2, 1230.1.4-1230.10, 1230.1.12,
1230.1.16, 1230.1.23, 1230.1.26, 1230.2.7, 1230.2.8, 1230.2.10, 1231.2.2,
1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.2,
1231.2.3, 1231.2.5, 1231.2.6, 1231.2.7, 1231.2.8, 1231.2.9, 1231.2.10, 1231.2.24,
1231.3.8, 1231.3.10, 1231.5, 1231.6-1231.6.7

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502,
1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114,
13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211,
17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education
Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211,
18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178,
51179, Public Resources Code Sections 4201-4204

**Item 12. CHAPTER 17
SPECIAL INSPECTIONS AND TESTS**

**[SFM proposed to adopt sections 1705.5.3, TABLE 1705.5.3, 1705.14, 1705.15,
1705.20]**

**SECTION 1705
REQUIRED SPECIAL INSPECTIONS AND TESTS**

Sections: 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2,
1705.12.3, 1705.20 (New)

**1705.5.3 Mass timber construction. Special inspections of Mass Timber elements in
Types IV-A, IV-B and IV-C construction shall be in accordance with Table 1705.5.3.**

**TABLE 1705.5.3
REQUIRED SPECIAL INSPECTIONS OF MASS TIMBER CONSTRUCTION**

<u>Type</u>	<u>Continuous Special Inspection</u>	<u>Periodic Special Inspection</u>
<u>1. Inspection of anchorage and connections of mass timber construction to timber deep foundation systems.</u>		<u>X</u>
<u>2. Inspect erection of mass timber construction</u>		<u>X</u>
<u>3. Inspection of connections where installation methods are required to meet design loads</u>		

<u>Type</u>	<u>Continuous Special Inspection</u>	<u>Periodic Special Inspection</u>
<u>3.1 Threaded fasteners</u>		
<u>3.1.1 Verify use of proper installation equipment</u>		<u>X</u>
<u>3.1.2 Verify use of pre-drilled holes where required</u>		<u>X</u>
<u>3.1.3 Inspect screws, including diameter, length, head type, spacing, installation angle, and depth</u>		<u>X</u>
<u>3.2 Adhesive anchors installed in horizontal or upwardly inclined orientation to resist sustained tension loads</u>	<u>X</u>	
<u>3.3 Adhesive anchors not defined in 3.2</u>		<u>X</u>
<u>3.4 Bolted connections</u>		<u>X</u>
<u>3.5 Concealed connections</u>		<u>X</u>

1705.11.1 Structural wood. Continuous special inspection is required during field gluing operations of elements of the main wind force-resisting system. Periodic special inspection is required for nailing, bolting, anchoring and other fastening of elements of the main wind force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces and hold-downs.

Exception: Special inspections are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other elements of the main wind force-resisting system, where the lateral resistance is provided by the structural sheathing and the specified fastener spacing at panel edges is more than 4 inches (102 mm) on center.

1705.11.2 Cold-formed steel light-frame construction. Periodic special inspection is required for welding operations of elements of the main wind force-resisting system. Periodic special inspection is required for screw attachment, bolting, anchoring and other fastening of elements of the main wind force-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.

Exception: Special inspections are not required for cold-formed steel light-frame shear walls and diaphragms, including screwing, bolting, anchoring and other fastening to components of the wind force resisting system, where either of the following applies:

1. The sheathing is gypsum board or fiberboard.

2. The sheathing is wood structural panel or steel sheets on only one side of the shear wall, shear panel or diaphragm assembly and the specified fastener spacing of at the sheathing panel or sheet edges is more than 4 inches (102 mm) on center (o.c.).

1705.12.2 Structural wood. For the seismic force-resisting systems of structures assigned to Seismic Design Category C, D, E or F:

1. Continuous special inspection shall be required during field gluing operations of elements of the seismic force-resisting system.
2. Periodic special inspection shall be required for nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold-downs.

Exception: Special inspections are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other elements of the seismic force-resisting system, where the lateral resistance is provided by structural sheathing, and the specified fastener spacing of at the sheathing panel edges is more than 4 inches (102 mm) on center.

1705.12.3 Cold-formed steel light-frame construction. For the seismic force-resisting systems of structures assigned to Seismic Design Category C, D, E or F, periodic special inspection shall be required for both:

1. Welding operations of elements of the seismic force-resisting system.
2. Screw attachment, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.

Exception: Special inspections are not required for cold-formed steel light-frame shear walls and diaphragms, including screw installation, bolting, anchoring and other fastening to components of the seismic force-resisting system, where either of the following applies:

1. The sheathing is gypsum board or fiberboard.
2. The sheathing is wood structural panel or steel sheets on only one side of the shear wall, shear panel or diaphragm assembly and the specified fastener spacing of at the sheathing panel or sheet edge is more than 4 inches (102 mm) on center.

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New),

602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Sections: 1705.14, 1705.15

1705.14 Sprayed fire-resistant materials. Special inspections and tests of sprayed fire-resistant materials applied to floor, roof and wall assemblies and structural members shall be performed in accordance with Sections 1705.14.1 through 1705.14.6. Special inspections shall be based on the fire-resistance design as designated in the approved construction documents. The tests set forth in this section shall be based on samplings from specific floor, roof and wall assemblies and structural members. Special inspections and tests shall be performed *during construction with an addition visual inspection* after the rough installation of electrical, automatic sprinkler, mechanical and plumbing systems and suspension systems for ceilings *and before concealed*, where applicable. *The required sample size shall not exceed 110% of that specified by the referenced standards in sections 1705.14.4.1 through 1705.14.4.9.*

1705.15 Mastic and intumescent fire-resistant coatings. Special inspections and tests for mastic and intumescent fire-resistant coatings applied to structural elements and decks shall be performed in accordance with AWCI 12-B. Special inspections and tests shall be based on the fire-resistance design as designated in the approved construction documents. *Special inspections and test shall be performed after the rough installation of electrical, automatic sprinkler, mechanical and plumbing systems and suspension systems for ceilings, and before concealed, where applicable.*

Section: 1705.20 (New)

1705.20 Sealing of mass timber. *Periodic special inspections of sealants or adhesives shall be conducted where sealant or adhesive required by Section 703.9 is applied to mass timber building elements as designated in the approved construction documents.*

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2

(New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 13. CHAPTER 23
WOOD**

**SECTION 2304
GENERAL CONSTRUCTION REQUIREMENTS**

Sections: 2304.10.1.2 (New), 2304.11.3, 2304.11.4

2304.10.1.2 Connection fire resistance rating. *Fire resistance ratings for connections in Type IV-A IV-B, or IV-C construction shall be determined by one of the following:*

1. Testing in accordance with Section 703.2 where the connection is part of the fire resistance test.

2. Engineering analysis that demonstrates that the temperature rise at any portion of the connection is limited to an average temperature rise of 250°F (139°C) and a maximum temperature rise of 325° F (181 °C) for a time corresponding to the required fire resistance rating of the structural element being connected. For the purposes of this analysis the connection includes connectors fasteners and portions of wood members included in the structural design of the connection.

2304.11.3 Floors. Floors shall be without concealed spaces- or with concealed spaces

complying with Section 602.4.4.4. Wood floors shall be constructed in accordance with Section 2304.11.3.1 or 2304.11.3.2.

2304.11.4 Roof decks. Roofs shall be without concealed spaces or with concealed spaces complying with Section 602.4.4.4. and ~~Roof~~ decks shall be constructed in accordance with Section 2304.11.4.1 or 2304.11.4.2. Other types of decking shall be an alternative that provides equivalent fire resistance and structural properties. Where supported by a wall, roof decks shall be anchored to walls to resist forces determined in accordance with Chapter 16. Such anchors shall consist of steel bolts, lags, screws or approved hardware of sufficient strength to resist prescribed forces.

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 14. CHAPTER 30
ELEVATORS AND CONVEYING SYSTEMS**

**SECTION 3001
GENERAL**

Section: 3001.6

3001.6 Elevators utilized to transport hazardous materials. *Elevators utilized to transport hazardous materials shall also comply with the California Fire Code Sections 5003.10.2.2, 5003.10.4 through 5003.10.7.*

[L OCCUPANCY WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

453.4.4, 453.4.7.2, 1020.5, 3001.6

[Related Sections in Part 9, California Fire Code]:

Section Title 1116, 1116.7, 5003.10.2, 5003.10.4, 5003.10.44.1.1 (New), 5003.10.4.4, 5003.10.5 (New), 5003.10.5.1 (New), 5003.10.5.2 (New), 5003.10.5.2.1 (New), 5003.10.5.3 (New), 5003.10.5.5 (New), 5003.10.5.5 (New), 5003.10.5.6 (New), 5003.10.5.7 (New), 5003.10.6 (New), 5003.10.6.1 (New), 5003.10.6.2 (New)

**SECTION 3002
HOISTWAY ENCLOSURES**

Sections: 3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New)

3002.4a General stretcher requirements. *All buildings and structures with one or more passenger service elevators shall be provided with not less than one medical emergency service elevator to all landings meeting the provisions of Section 3002.4a. The medical emergency service elevator(s) shall be identified in the construction documents specified in section 107 or the California Administrative Code.*

Exceptions:

1. (exceptions remain unchanged)

3002.4.1a Gurney size. *The medical emergency service elevator shall accommodate the loading and transport of two emergency personnel, each requiring a minimum clear 21-inch (533 mm) diameter circular area and an ambulance gurney or stretcher {maximum minimum size 24 inches by 84 inches (610 mm by 2134 mm) with not less than 5-inch (127 mm) radius corners} in the horizontal, open position.*

3002.4.2a Hoistway doors. *(no proposed changes, kept section in sequence for reader ease.)*

~~3002.4.3a Elevator entrance openings and car size.~~ *~~The elevator car shall be of such a size and arrangement to accommodate a 24-inch by 84-inch (610 mm by 2134 mm) ambulance gurney or stretcher with not less than 5-inch (127 mm) radius corners, in the horizontal, open position, shall be provided with a minimum clear distance between walls or between walls and door excluding return panels~~*

~~not less than 80 inches by 54 inches (2032 mm by 1372 mm), and a minimum distance from wall to return panel not less than 51 inches (1295 mm) with a 42-inch (1067 mm) side slide door.~~

~~**Exception:** The elevator car dimensions and/or the clear entrance opening dimensions may be altered where it can be demonstrated to the local jurisdictional authority's satisfaction that the proposed configuration will handle the designated gurney or stretcher with equivalent ease. Documentation from the local authority shall be provided to the Occupational Safety and Health Standards Board.~~

3002.4.43a Elevator recall. The elevator(s) designated the medical emergency elevator shall be equipped with a key switch to recall the elevator nonstop to the main floor. For the purpose of this section, elevators in compliance with Section 3003.2 shall be acceptable.

3002.4.54a Designation. Medical emergency elevators shall be identified by the international symbol (Star of Life) for emergency medical services.

3002.4.65a Symbol size. The symbol shall not be less than 3 inches (76 mm) in size.

3002.4.76a Symbol location. A symbol shall be permanently attached to each side of the hoistway door frame on the portion of the frame at right angles to the hallway or landing area. Each symbol shall be not less than 78 inches (1981 mm) and not more than 84 inches (2134 mm) above the floor level at the threshold.

3002.5 Emergency doors. ~~Emergency doors in blind hoistways as described in ASME A17.1, Section 2.11.1.2, and access panels as described in ASME A17.1, Section 2.11.1.4, are prohibited in accordance with California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders. Where an elevator is installed in a single blind hoistway or on the outside of a building, emergency doors shall be in conformance with the California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders.~~

3002.6 Prohibited doors. Doors, other than hoistway doors and the elevator car door, shall be prohibited at the point of access to an elevator car unless such doors are readily openable from the car side without a key, tool, special knowledge or effort.

3002.6.1 Prohibited Hoistway Access Doors and Panels. The following types of access doors and panels are prohibited in accordance with the California Code Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders:

1. Access panels or doors to working platforms in the line of movement of the car counterweight in the hoistway.

2. Access panels or doors in the hoistway for access to car or hoistway

transparent enclosures.

3002.9 Plumbing and mechanical systems. Plumbing and mechanical systems shall not be located in an elevator hoistway enclosure unless permitted by California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders.

Exception: Floor drains, and sumps and sump pumps shall be permitted at the base of the hoistway enclosure provided that they are indirectly connected to the plumbing system.

3002.11 Pit Access Door. Where separate pit access door(s) are required for access to pit(s) located below the bottom hoistway door landing, permanent stairway access shall be provided to the access door.

[ELEVATOR WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New), 3003.1, 3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New), 3003.4.3 (New), 3003.4.4 (New), 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1, 3007.1, 3008.1, 3008.1.1, 3008.1.2, 3008.1.3, 3008.1.4, [Chapter 35] ASME 17.1/CSA B44, [NFPA 13-16] 8.15.5.1, 8.15.5.2, 8.15.5.3, 8.15.5.7.1, 8.15.5.7.2

SECTION 3003 EMERGENCY OPERATIONS

Sections: 3003.1, 3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New), 3003.4.3 (New), 3003.4.4 (New)

[F] 3003.1 Standby power. In buildings and structures where standby power is required or furnished to operate an elevator, the operation shall be in accordance with Section 1203 of the California Fire Code and Sections 3003.1.1 through 3003.1.45 of this code.

[F] 3003.1.4 ~~Venting Temperature and Humidity Control.~~ Where standby power is connected to elevators, the machine room, machine space, control room, and control space ventilation or air conditioning system shall be connected to the standby power source.

[F] 3003.1.5 Emergency Hoistway Venting. Where standby power is connected to elevators, the emergency hoistway ventilation system, if required, shall be connected to the standby power source.

[F] 3003.4 Emergency Hoistway Venting. Elevator hoistways containing the driving machine shall be provided with a means for venting smoke and hot gases to the outer air in case of fire.

3003.4.1 Location of vents. *Vents shall be located at the top of the hoistway and shall open either directly to the outer air or through noncombustible ducts to the outer air.*

3003.4.2 Area of vents. *Except as provided for in Section 3003.1.4.4 of the California Building Code, the area of the vents shall be not less than 3½ percent of the area of the hoistway nor less than 3 square feet (0.28 m²) for each elevator car.*

3003.4.3 Operation of vents. *Vent openings shall automatically open upon detection of smoke in the elevator hoistway and upon activation of a manual override control. The manual override control shall be capable of opening and closing the vents and shall be located in an approved location. Smoke detectors provided in elevator hoistways to activate the hoistway ventilation system, shall also be required to activate the elevator Phase I emergency recall operation function in accordance with California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders.*

3003.4.4 Reduced vent area. *Where mechanical ventilation conforming to the California Mechanical Code is provided, a reduction in the required vent area is allowed provided that all of the following conditions are met:*

- 1. The vents required by Section 3003.1.4.1 of the California Building Code do not have outside exposure.*
- 2. The hoistway does not extend to the top of the building.*
- 3. The hoistway exhaust fan is automatically reactivated by thermostatic means.*
- 4. Equivalent venting of the hoistway is accomplished.*

[ELEVATOR WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New), 3003.1, 3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New), 3003.4.3 (New), 3003.4.4 (New), 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1, 3007.1, 3008.1, 3008.1.1, 3008.1.2, 3008.1.3, 3008.1.4, [Chapter 35] ASME 17.1/CSA B44, [NFPA 13-16] 8.15.5.1, 8.15.5.2, 8.15.5.3, 8.15.5.7.1, 8.15.5.7.2

SECTION 3005 MACHINE ROOMS

Sections: 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1

3005.1 Access. *An permanent and approved means of access shall be provided to elevator machine rooms, control rooms, control spaces and machinery spaces.*

3005.2 ~~Venting~~ Temperature and Humidity Control. Elevator machine rooms, machinery spaces that contain the driving machine, and control rooms or spaces that contain the operation or motion controller for elevator operation shall be provided with an independent ventilation or air-conditioning system to protect against the overheating of the electrical equipment. The system shall ~~be capable of maintaining~~ maintain the temperatures and humidity within the range established for by the manufacturer of the elevator equipment.

3005.3 Pressurization. (section unchanged, included for reader ease)

3005.4 Machine rooms, control rooms, machinery spaces, and control spaces. (no proposed change, the section title is included for reader ease.)

~~**3005.4.1 Automatic sprinkler system.** Automatic sprinklers shall not be required to be installed in the elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room where all the following are met:~~

- ~~1. Approved smoke detectors shall be installed in the elevator hoistway, elevator machine room, elevator machinery spaces, elevator control spaces, or elevator control rooms and connected to the building fire alarm system in accordance with Section 907.~~
- ~~2. Activation of any smoke detector located in the elevator hoist way, elevator machine room, elevator machinery space, elevator control space, or elevator control room shall cause the actuation of the building fire alarm notification appliances in accordance with Section 907.~~
- ~~3. Activation of any smoke detector located in the elevator hotstway, elevator machine room, elevator machinery space, elevator control space, or elevator control room shall cause all elevators having any equipment located in that elevator hoist way, elevator machine room, elevator machinery space, elevator control space, or elevator control room to recall nonstop to the appropriate designated floor in accordance with CGR Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders.~~
- ~~4. The elevator machine room, elevator machinery space, elevator control space, or elevator control room shall be enclosed with fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 712, or both. The fire resistance rating shall not be less than the required rating of the hoistway enclosure served by the machinery. Openings in the fire barriers shall be protected with assemblies having a fire protection rating not less than that required for the hoistway enclosure doors. The exceptions to Section 3005.4 shall not apply.~~

~~5. The building fire alarm system shall be monitored by an approved supervising station in accordance with Section 907.~~

~~6. An approved sign shall be permanently displayed in the elevator machine room, elevator machinery space, elevator control space, or elevator control room in a conspicuous location with a minimum of 1 ½ inch letters on a contrasting background, stating:~~

~~NO COMBUSTIBLE STORAGE
PERMITTED IN THIS ROOM~~

~~By Order of the Fire Marshal [or name Fire authority]~~

3005.4.1 Dedicated Control Room. Elevator motor and motion control equipment shall be installed in a dedicated elevator machine room or control room located outside the hoistway. The machine room or control room shall be of sufficient size to accommodate the elevator equipment and the required minimum electrical clearances in accordance with Article 110.26 of the California Electrical Code.

[ELEVATOR WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New), 3003.1, 3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New), 3003.4.3 (New), 3003.4.4 (New), 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1, 3007.1, 3008.1, 3008.1.1, 3008.1.2, 3008.1.3, 3008.1.4, [Chapter 35] ASME 17.1/CSA B44, [NFPA 13-16] 8.15.5.1, 8.15.5.2, 8.15.5.3, 8.15.5.7.1, 8.15.5.7.2

SECTION 3007 FIRE SERVICE ACCESS ELEVATOR

Section: 3007.1

3007.1 General. Where required by Section 403.6.1, every floor above and including the lowest level of fire department vehicle access of the building shall be served by fire service access elevators complying with Sections 3007.1 through 3007.9. Except as modified in this section, fire service access elevators shall be installed in accordance with this chapter and *California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders*.

Exception: ~~Elevators that only service an open or enclosed parking garage and the lobby of the building shall not be required to serve as fire service access elevators.~~

[ELEVATOR WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New), 3003.1, 3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New), 3003.4.3 (New), 3003.4.4 (New), 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1, 3007.1, 3008.1, 3008.1.1, 3008.1.2, 3008.1.3, 3008.1.4, [Chapter 35] ASME 17.1/CSA B44, [NFPA 13-16] 8.15.5.1, 8.15.5.2, 8.15.5.3, 8.15.5.7.1, 8.15.5.7.2

SECTION 3008 OCCUPANT EVACUATION ELEVATORS

Sections: 3008.1, 3008.1.1, 3008.1.2

3008.1 General. Where Eelevators are to be used for occupant self-evacuation during fires, all passenger elevators for general public use shall comply with Sections 3008.1 through 3008.10. Where other elevators are used for occupant self-evacuation, those elevators shall comply with these sections.

~~**3008.1.1 Number of occupant evacuation elevators.** The number of elevators available for occupant evacuation shall be determined based on an egress analysis that addresses one of the following scenarios:~~

- ~~1. Full-building evacuation where the analysis demonstrates that the number of elevators provided for evacuation results in an evacuation time less than 1 hour.~~
- ~~2. Evacuation of the five consecutive floors with the highest cumulative occupant load where the analysis demonstrates that the number of elevators provided for evacuation results in an evacuation time less than 15 minutes. Not less than one elevator in each bank shall be designated for occupant evacuation. Not less than two shall be provided in each occupant evacuation elevator lobby where more than one elevator opens into the lobby. Signage shall be provided to denote which elevators are available for occupant evacuation.~~

~~**3008.1.2 Additional exit stairway.** Where an additional means of egress is required in accordance with Section 403.5.2, an additional exit stairway shall not be required to be installed in buildings provided with occupant evacuation elevators complying with Section 3008.1.~~

~~**3008.1.3¹ Fire safety and evacuation plan.** (language remains unchanged)~~

~~**3008.1.4² Operation.** (language remains unchanged)~~

[ELEVATOR WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New), 3003.1,

3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New),
3003.4.3 (New), 3003.4.4 (New), 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1,
3007.1, 3008.1, 3008.1.1, 3008.1.2, 3008.1.3, 3008.1.4, [Chapter 35] ASME
17.1/CSA B44, [NFPA 13-16] 8.15.5.1, 8.15.5.2, 8.15.5.3, 8.15.5.7.1, 8.15.5.7.2

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502,
1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114,
13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211,
17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education
Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211,
18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178,
51179, Public Resources Code Sections 4201-4204

**Item 15. CHAPTER 31
SPECIAL CONSTRUCTION**

Sections: 3102.3, 3102.6.1.1

3102.3 Type of construction. Noncombustible membrane structures shall be classified as Type IIB construction. Noncombustible frame or cable-supported structures covered by an approved membrane in accordance with Section 3102.3.1 shall be classified as Type IIB construction. Heavy timber frame-supported structures covered by an approved membrane in accordance with Section 3102.3.1 shall be classified as Type IV-HT construction. Other membrane structures shall be classified as Type V construction.

Exception: Plastic less than 30 feet (9144 mm) above any floor used in greenhouses, where occupancy by the general public is not authorized, and for aquaculture pond covers is not required to meet the fire propagation performance criteria of Test Method 1 or Test Method 2, as appropriate, of NFPA 701.

3102.6.1.1 Membrane. A membrane meeting the fire propagation performance criteria of Test Method 1 or Test Method 2, as appropriate, of NFPA 701 shall be permitted to be used as the roof or as a skylight on buildings of Type IIB, III, IV-HT and V construction, provided that the membrane is not less than 20 feet (6096 mm) above any floor, balcony or gallery.

[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2,
508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New),
602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4

(New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 16. CHAPTER 35
REFERENCED STANDARDS**

ASME American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016-5990

ASME/A17.1—2016/CSA B44—16 the edition as referenced in: Safety Code for Elevators and Escalators, California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders

907.3.3, 911.1.6, 1009.4.1, 11B-407.1, 11B-407.1.1, 11B-407.4.9, 11B-408.1, 11B-409.1, 11B-411.1, 11B-810.9, 1607.10.1, 3001.2, Table 3001.3, 3001.4, 3001.5, 3002.5, 3003.2, 3007.1, 3008.1.4, 3008.7.1

[ELEVATOR WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New), 3003.1, 3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New), 3003.4.3 (New), 3003.4.4 (New), 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1, 3007.1, 3008.1, 3008.1.1, 3008.1.2, 3008.1.3, 3008.1.4, [Chapter 35] ASME 17.1/CSA B44, [NFPA 13-16] 8.15.5.1, 8.15.5.2, 8.15.5.3, 8.15.5.7.1, 8.15.5.7.2

ASTM ASTM International
 100 Barr Harbor Drive, P.O. Box C700
 West Conshohocken, PA 19428-2959

D3498-03(2011): Standard Specification for Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

CSA Canadian Standards Association
 8501 East Pleasant Valley Road
 Cleveland, OH 44131-5516

ASME A17.1—2016/CSA B44—16 the edition as referenced in: Safety Code for Elevators and Escalators, California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders

907.3.3, 911.1.6, 1009.4.1, 1607.10.1, 3001.2, Table 3001.3, 3001.5, 3002.5, 3003.2, 3007.1, 3008.1.4, 3008.7.1

**[ELEVATOR WORK GROUP 2019 INTERVENING PROPOSALS]
[Related Sections in Part 2, California Building Code]:**

3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New), 3003.1, 3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New), 3003.4.3 (New), 3003.4.4 (New), 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1, 3007.1, 3008.1, 3008.1.1, 3008.1.2, 3008.1.3, 3008.1.4, [Chapter 35] ASME 17.1/CSA B44, [NFPA 13-16] 8.15.5.1, 8.15.5.2, 8.15.5.3, 8.15.5.7.1, 8.15.5.7.2

NFPA National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02169-7471

13—16: Standard for Installation of Sprinkler Systems as amended*

712.1.3.1, 903.3.1.1, 903.3.2, 903.3.8.2, 903.3.8.5, 904.12, 905.3.4,
907.6.4, 1019.3

***NFPA 13, Amended Sections as follows:**

[Delete language to section 8.15.5.1 and reserve section number]

~~**8.15.5.1* Reserved.** Sidewall spray sprinklers shall be installed at the bottom of each elevator hoistway not more than 2 ft (600 mm) above the floor of the pit.~~

[Delete language to section 8.15.5.2 and reserve section number]

~~**8.15.5.2 Reserved.** The sprinkler required at the bottom of the elevator hoistway by 8.15.5.1 shall not be required for enclosed, noncombustible elevator shafts that do not contain combustible hydraulic fluids.~~

[Delete California Amendment to 8.15.5.3]

~~**8.15.5.3 Automatic sprinkler system.** Automatic sprinklers shall not be required to be installed in the elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room where all the following are met:~~

- ~~1. Approved smoke detectors shall be installed and connected to the building fire alarm system in accordance with Section 907 in the area where the fire sprinkler was removed per this section.~~
- ~~2. Activation of any smoke detector located in the elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room shall cause the actuation of the building fire alarm notification appliances in accordance with 907.~~
- ~~3. Activation of any smoke detector located in the elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room shall cause all elevators having any equipment located in that elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room to recall nonstop to the appropriate designated floor in accordance with CCR Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders.~~
- ~~4. The elevator machine room, elevator machinery space, elevator control space, or elevator control room shall be enclosed with fire barriers constructed in accordance with Section 707 or horizontal assemblies~~

~~constructed in accordance with Section 712, or both. The fire-resistance rating shall not be less than the required rating of the hoistway enclosure served by the machinery. Openings in the fire barriers shall be protected with assemblies having a fire protection rating not less than that required for the hoistway enclosure doors. The exceptions to Section 3005.4 shall not apply.~~

~~5. The building fire alarm system shall be monitored by an approved supervising station in accordance with 907.~~

~~6. An approved sign shall be permanently displayed in the room where the fire sprinkler was removed per this section in a conspicuous location with a minimum of 1½ inch letters on a contrasting background, stating:~~

~~NO COMBUSTIBLE STORAGE
PERMITTED IN THIS ROOM~~

~~By Order of the Fire Marshal [or name of fire authority]~~

[Revise NFPA13-16 section 8.15.5.3 by deleting condition (2) and renumbering the following conditions]

8.15.5.3 Automatic fire sprinklers shall not be required in elevator machine rooms, elevator machinery spaces, control spaces, or hoistways of traction elevators installed in accordance with the applicable provisions in ~~NFPA 101~~ the California Building Code or the applicable building code, where all of the following conditions are met:

(1) The elevator machine room, machinery space, control room, control space, or hoistway of traction elevator is dedicated to elevator equipment only.

~~(2) The elevator machine room, machine room, machinery space, control room, control space, or hoistway of traction elevators are protected by smoke detectors, or other automatic fire detection, installed in accordance with NFPA72.~~

(3) The elevator machinery space, control room, control space, or hoistway of traction elevators is separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire resistance rating of not less than that specified by the applicable building code.

(4) No materials unrelated to elevator equipment are permitted to be stored in elevator machine rooms, machinery spaces, control rooms, control spaces, or hoistways of traction elevators.

(5) The elevator machinery is not of the hydraulic type.

8.15.5.7 Combustible Suspension in Elevators. (no changes, included for reader ease)

8.15.5.7.1 Sprinklers shall not be installed at the top and bottom of elevator in hoistways of passenger elevators complying with Section 9.3.6.7.2, where elevators utilize combustible suspension means such as noncircular elastomeric-coated or polyurethane-coated steel belts.

8.15.5.7.2 The sprinklers in the elevator hoistway shall not be required when the All elevators utilizing suspension means, other than steel wire ropes, provide shall have not less than an FT-1 rating when tested to the vertical burn test requirements of UL 62, Flexible Cords and Cables, and UL 1581, Reference Standard for Electrical Wires, Cables, and Flexible Cords.

[ELEVATOR WORK GROUP 2019 INTERVENING PROPOSALS]

[Related Sections in Part 2, California Building Code]:

3002.4a, 3002.4.1a, 3002.4.2a, 3002.4.3a, 3002.4.4a, 3002.4.5a, 3002.4.6a, 3002.4.7a, 3002.5, 3002.6, 3002.6.1 (New), 3002.9, 3002.11 (New), 3003.1, 3003.1.4, 3003.1.5 (New), 3003.4 (New), 3003.4.1 (New), 3003.4.2 (New), 3003.4.3 (New), 3003.4.4 (New), 3005.1, 3005.2, 3005.3, 3005.4, 3005.4.1, 3007.1, 3008.1, 3008.1.1, 3008.1.2, 3008.1.3, 3008.1.4, [Chapter 35] ASME 17.1/CSA B44, [NFPA 13-16] 8.15.5.1, 8.15.5.2, 8.15.5.3, 8.15.5.7.1, 8.15.5.7.2

NFPA National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02169-7471

68—13:

Standard on Explosion Protection by Deflagration Venting

[ENERGY STORAGE SYSTEMS 2019 INTERVEING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

306.2, TABLE 414.5.1, TABLE 509, 707.4, TABLE 716.1(2), T ABLE 716.1(3), 716.2.5.4.1 (New), 716.3.2.1.1.1 (New), TABLE 903.2.11.6, [Chapter 35] NFPA 68 (New)

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211,

18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

**Item 17. APPENDIX D
FIRE DISTRICTS
[SFM not adopted]**

**SECTION D102
BUILDING RESTRICTIONS**

Section: D102.2.5

D102.2.5 Structural fire rating. Walls, floors, roofs and their supporting structural members shall be not less than 1-hour fire-resistance-rated construction.

Exceptions:

1. Buildings of Type IV-HT construction.
2. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
3. Automobile parking structures.
4. Buildings surrounded on all sides by a permanently open space of not less than 30 feet (9144 mm).
5. Partitions complying with Section 603.1, Item 11.

**[TALL WOOD AND HEAVY TIMBER 2019 INTERVENING PROPOSALS]
[Associated Sections in Part 2, California Building Code]:**

110.3.12 (New), 202, 403.3.2, TABLE 504.3, TABLE 504.4, TABLE 506.2, 508.4.4.1, 509.4.1.1 (New), TABLE 601, TABLE 602, 602.4, 602.4.1 (New), 602.4.1.1 (New), 602.4.1.2 (New), 602.4.1.2.1 (New), 602.4.1.3 (New), 602.4.1.4 (New), 602.4.1.5 (New), 602.4.1.6 (New), 602.4.2, 602.4.2.1 (New), 602.4.2.2 (New), 602.4.2.2.1 (New), 602.4.2.2.2 (New), 602.4.2.2.3 (New), 602.4.2.2.4 (New), 602.4.2.3 (New), 602.4.2.4 (New), 602.4.2.5 (New), 602.4.2.6 (New), 602.4.3, 602.4.3.1 (New), 602.4.3.2 (New), 602.4.3.3 (New), 602.4.3.4 (New), 602.4.3.5 (New), 602.4.3.6 (New), 602.4.4 (New), 602.4.4.1, 602.4.4.2, 602.4.4.3, 602.4.4 (New), 703.8 (New), 703.9 (New), 718.2.1, 722.7 (New), 722.7.1 (New), TABLE 722.7.1 (1) (New), TABLE 722.7.1 (2) (New), 722.7.2 (New), 722.7.2.1 (New), 722.7.2.2 (New), 1705.5.3 (New), TABLE 1705.5.3 (New), 1705.11.1, 1705.11.2, 1705.12.2, 1705.12.3, 1705.20 (New), 2304.10.1.2 (New), 2304.11.3, 2304.11.4, 3102.3, 3102.6.1.1, (Chapter 35) ASTM D3498-03 (2011) (New), D102.2.5

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114, 13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201-4204

Item 18. INDEX

[Revise the following]

Group-specific provisions

Special amusement ~~buildings~~ areas

EXIT SIGNS

Special amusement ~~buildings~~ areas

FIRE ALARM AND SMOKE DETECTION SYSTEMS

Special amusement ~~buildings~~ areas
411.23, 411.45, 411.6, 907.2.1211, 914.7.2

MEANS OF EGRESS

Special amusement areas
411.4, 1017.2

PUBLIC ADDRESS SYSTEM (see EMERGENCY COMMUNICATIONS)

Special amusement buildings
411.54

RECREATIONAL FACILITIES

Special amusement ~~buildings~~ areas
(~~see AMUSEMENT BUILDINGS, SPECIAL~~)

SMOKE DETECTORS

Special amusement ~~buildings~~ areas
411.43, 411.6, 907.2.11, 914.7.2

SPRINKLER SYSTEM, REQUIRED

Special amusement ~~buildings~~ areas
411.32, 903.2.11.6, 914.7

TRAVEL DISTANCE

Special amusement ~~building area~~
411.32, 1017.2

[PUZZLE ROOM 2019 INTERVENING PROPOSALS]

[Associated Sections in Part 2, California Building Code]:

Table of Contents, 202, Title 411, 411.1, 411.2, 411.3, 411.4, 411.5, 411.6,
411.6.1, 411.7, TABLE 903.2.11.6, 907.2.11, 907.2.11.2, 907.2.11.3, TABLE
1017.2, INDEX

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502,
1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13113, 13113.5, 13114,
13143, 13132, 13132.7, 13132, 13133, 13135, 13143.2, 13143.6, 13146, 13210, 13211,
17921, 18928, 18949.2, 25500-25545, Government Code Section 51189, Education
Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13143.1, 13143.9, 13211,
18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178,
51179, Public Resources Code Sections 4201-4204