

2022 TITLE 24 SUPPLEMENTS

A summary of intervening cycle code changes



March 2024
1st Edition



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Glossary of Terms

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INTRODUCTION

During the 2022 Intervening Code Adoption Cycle, California state agencies made amendments and additions to most parts of the 2022 edition of the California Building Standards Code, Title 24 of the California Code of Regulations (Title 24), resulting in supplements (blue pages). This publication contains information regarding substantive changes of interest to code users as they familiarize themselves with the supplements. For ease of reading, this document uses all normal font style (no italics). Before using Title 24, it is a good idea to learn about and understand the various margin markings, banners and text styles that will indicate where changes have been made to the code. An explanation of margin markings can be found in the preface of each part of Title 24.

State agency acronyms that may be used in this publication

BSC – Building Standards Commission

DSA – Division of the State Architect

HCD – Department of Housing and Community Development

OSHPD – Office of Statewide Health Planning and Development (now Department of Health Care Access and Information – HCAI)

SFM – State Fire Marshal

For the applications of amendments adopted by the various state agencies, refer to Chapter 1 of each part of Title 24.

The parts of Title 24 may be abbreviated as follows:

CBC – California Building Code, Part 2, Volumes 1 and 2

CRC – California Residential Code, Part 2.5

CMC – California Mechanical Code, Part 4

CPC – California Plumbing Code, Part 5

CFC – California Fire Code, Part 9

CEBC – California Existing Building Code, Part 10

CALGreen – California Green Building Standards Code, Part 11

To avoid confusion with other acronyms, abbreviations are not used for the California Administrative Code (Part 1) or California Electrical Code (Part 3).

Note that there were no updates to the California Energy Code (Part 6 of Title 24), the California Historical Building Code (Part 8), the California Referenced Standards Code (Part 12), and Part 7 is vacant, so those parts are not included here.

Please watch the California Building Standards Commission's (CBSC) video [About Title 24](#) to learn about the code's layout and contributing state agencies. For more in-depth information, visit CBSC's [Resources webpage](#) to view and download educational publications such as a [Guide to Title 24](#).

CALIFORNIA ADMINISTRATIVE CODE – Part 1

Chapter 1 – Building Standards Commission

1-403(c)1 Time allocated for public comment and exception. Added new regulation that public comment at a public meeting is limited to four minutes maximum, or eight minutes for those requiring a reasonable accommodation. Time may not be ceded to another speaker.

Chapter 3 – Office of the State Fire Marshal

3-101 Purpose, 3-102 Scope, 3-103 Authority for enforcement of regulations, 3-104 Application of building standards. Added University of California buildings, to the extent permitted by law.

Article 3-2 Definitions. Specified state-occupied buildings. Removed University of California buildings from list item number eight. Deleted language delegating enforcement to local jurisdictions.

Chapter 4 – Division of the State Architect

Clarified **definitions** 4-310 (school garages...and miscellaneous structures) and 4-314 (school building).

4-326 Fees for approval... Added reference to 4-306.

4-330 Time of beginning construction... Removed extraneous language.

4-333 Observation and inspection of construction. Removed reference to 1704A.7.1.

4-333.1 Project inspector certification. For Class 2 and Class 3 projects, moved special inspector certification and journeyman experience to “exceptions” as allowable substitutions that can be applied to listed requirements. Added mass timber to list of special inspector certifications.

Article 9, 4-355 Advisory Board. Repealed in its entirety.

Chapter 6 – Department of Health Care Access and Information (Office of Statewide Hospital Planning and Development – OSHPD)

Definitions. Added new definitions of Integrated Review, Small and Rural Hospital Relief Program and State Grant Program.

1.4.5 Compliance plan update/change notification. Repealed previous language and replaced with detailed requirements for Compliance Plan information.

1.9 State Grant Programs and 1.9.1 Small and Rural Hospital Relief Program. Added new sections with information and requirements for hospitals to participate in state programs.

1.10 Integrated review for seismic compliance programs. Added new detailing requirements for participation in seismic compliance programs.

1.11 Public notices. Added new regulations requiring posting of public notice of a hospital building's seismic safety type as determined by the State of California.

1.12 Annual status update reporting. Added new regulations requiring annual reporting to multiple entities.

Chapter 7 – Department of Health Care Access and Information (Office of Statewide Hospital Planning and Development – OSHPD)

Article 2 Definitions

7-111 Amended definitions of Managed Project and Start of Construction.

Article 3 Approval of construction documents

7-113, 7-115, 7-117, 7-125 Amended due to changes in document submittal method – all applications, plans and reports shall be electronic, and no paper copies will be required.

7.115(b)1 Amended to allow architects to prepare construction documents and reports permitted by their license.

7-119 Functional program. Amended information relative to design guides to be used.

7-125 Final review of construction documents. Added a 10-day timeframe for submittal.

7-129(e) Time limitations. Added new requirement requiring submittal of closeout documentation within 90 days of Substantial Compliance or Certificate of Occupancy.

7-131(b) Incremental design, bidding and construction. Punctuation and grammatical corrections for clarity.

7-133 Fees. Clarified that fees are non-refundable and some are for actual costs for review and approval. New **7-133(r)** is added to clarify that non-refundable fees are required for projects with no construction.

Article 4 Construction

7-135(a)3 Time of beginning construction. Changed “approval” to “acceptance” of testing, inspection and observation program.

7-144 Inspection. Added new requirements and restrictions for the inspector of record.

7-153 Changes to the approved work. 7-153(a)1: Removed requirement for hard copies of construction documents. 7-153(b)4: Reworded for clarity.

7-155(a) Final approval of the work. Changed “inspection” to “review.”

Article 19 Certification and approval of hospital inspectors

7-201 Contact with office. Updated with new names of department and OSHPD unit.

7-206 Fees. Updated with new name of department, added late, recertification retest and reschedule fees.

7-211(b)3 Renewal of a hospital inspector certificate. Added requirement for a recertification application in addition to the fee.

7-212 Approval of hospital inspector of record... Added reasons to not approve or withdraw approval of an IOR.

7-215 Conduct relative to performance. Added new regulations with expectations and Code of Ethics for inspectors and other professionals working on a facility subject to inspection.

Article 20 Repair of damage after an emergency

7-300 Plan review and approval. Added 10-business-day timeframe for submitting plans after a temporary authorization and for submitting back checks after comments.

Chapter 13 – Board of State and Community Corrections

Multiple sections. Changed “segregation” to “separation.” Changed “inmate” and other related words to “incarcerated” persons, adults or juveniles. Changed “mental retardation” to “cognitive and intellectual disabilities.” Changed “Corrections Standards Authority” to “Board of State and Community Corrections.” Added definition of “disability” and requirement to comply with federal and state disability laws.



CALIFORNIA BUILDING CODE – PART 2

Chapter 1 – Scope and Administration

Department of Health Care Access and Information (Office of Statewide Hospital Planning and Development – OSHPD)

1.10.2 OSHPD 2. Removed reference to OSHPD 2A and 2B as there is no longer a difference in requirements.

1.10.6 OSHPD 6. New banner for Chemical Dependency Recovery Hospitals.

Office of the State Fire Marshal

1.11.1 SFM – Office of the State Fire Marshal. Specified state-occupied buildings. Removed University of California buildings from list item number eight. Deleted language delegating enforcement to local jurisdictions.

107.2.3 Means of Egress. Amended to add R-2.1 occupancies and removed I-1 occupancies.

Chapter 2 – Definitions

Department of Health Care Access and Information (Office of Statewide Hospital Planning and Development – OSHPD) and Division of the State Architect

202(6). Movable equipment. Clarifies that it is usually fixed but can be moved for cleaning or maintenance.

Office of the State Fire Marshal

Care Suite. Removed reference to I-2.1.

Flammable Gas. New language dividing flammable gas into two categories. Category 1A contains amendments to existing language and Category 1B is entirely new language.

Nonpatient-care Suite. Removed reference to I-2.1.

Chapter 3 – Occupancy Classification

Office of the State Fire Marshal

302.1.7 Occupancy classification. Removed reference to I-2.1.

304.1 Business Group B. Changed number of patients served from “six or fewer” to “four or more.” **Removed I-2.1 occupancies.**

Table 307.1(1) Maximum allowable quantity... Amended in line with amended regulations and added footnote “r.”

307.4 High-hazard group H-2. Added new separate categories for flammable gases.

307.5 High-hazard group H-3. Added category 1B for flammable gases.

308.1 Institutional Group I. Removed reference to I-2.1.

308.3.3. Institutional Group I-2.1. Repealed this section.

Chapter 4 – Detailed Requirements Based on Occupancy and Use

Office of the State Fire Marshal

Multiple sections. Removed reference to I-2.1.

407.4.4.1 Exit access through care suites. Added language relative to a care suite required to have more than one exit.

407.5 Smoke barriers. Exception. Repealed exceptions 1 and 2, and renumbered exception 3 to number 1; removed reference to I-2.1.

404.2.5 Hazardous material in Group M and Group S. Expanded section references to include new section (below).

Table 414.2.5(3) Maximum Allowable Quantity of...Flammable Gas... New table and footnotes added.

404.2.5.4 Flammable gas. New section for Category 1B flammable gas.

Table 414.5.1 Explosion Control Requirements. Added footnotes for Category 1B flammable gas.

420.9 Domestic cooking appliances. Deleted the reference to I-1 and replaced with R-2.1.

422.2 Separation. Removed “corridors,” changed “fire partition” to “1-hour fire barrier” and referenced Section 707 instead of 708.

422.3.2 Refuge area. Added requirement for ambulatory occupant.

422.3.4 Distance of travel. New section requiring distance of no more than 200 feet between any point in the facility and an exit.

Chapter 5 – General Building Height and Areas

Office of the State Fire Marshal

Tables 504.3, 504.4 and 506.2. Removed reference to I-2.1.

508.2.4 Separation of occupancies. Removed reference to I-2.1 and changed R-2 to R-1.

508.3.3, Tables 508.4 and 509.1. Removed reference to I-2.1.

509.3 Area limitations. Exception. Added for Group E laboratories not classified as an H, if they are separated from the rest of the building by a one-hour fire partition.

Chapter 7 – Fire and Smoke Protection Features

Office of the State Fire Marshal

708.1, 709.5, 709.5.1, 710.2, 712.1.9, 716.2.2.1, 716.2.6.6 and 717.6.1. Removed reference to I-2.1.

Chapter 7A - Materials and Construction Methods for Exterior Wildfire Exposure

Office of the State Fire Marshal

701A.1 Scope, 701A.2 Purpose, 701A.3 Application. Corrected the term Wildland-Urban Interface (WUI) used in the text to correlate with the definition of WUI.

705A.1 Roofing. General. Amended with additional reference to Chapter 15, Section 1505.2 for class A roof assemblies. Also added language relative to roof replacement.

705A.2 Roof covering voids. Amended roof coverings language to separate airspace under roof covering and roof underlayment requirements. Added reference to UL 790 for testing.

707A.5 Open roof eaves. Repealed exceptions 707A.5, 707A.6, 707A.7 and 707A.8.

710A2 Applicability. Repealed exception number three.

711A Model Ordinance for Fire Severity Zone Adoption. Added a new model ordinance template for jurisdictions to use.

Chapter 8 – Wall and Ceiling Finishes

Office of the State Fire Marshal

Table 803.13 Interior Wall and Ceiling Finish Requirements. Removed reference to I-2.1 and corrected footnote reference.

804.4.2 Minimum critical radiant flux. Removed reference to I-2.1.

Chapter 9 – Fire Protection and Life Safety Systems.

Office of the State Fire Marshal

Multiple sections. Errata to change “...fire walls of less than 4-hour fire resistance...” to “...fire walls of *not* less than 4-hour fire resistance...” and removed reference to Group I-2.1.

903.2.8.2 Group R-4. Repealed and reserved (an existing amendment missed in the triennial cycle).

903.2.8.3 Group R-4. Corrected amendment missed in the triennial cycle.

903.3.2.2 Repealed and reserved code language that is already in the California Mechanical Code.

907.2.6 Group I. Exception #2. Removed reference to Group I-1.

907.2.9.3 Group R-2 college and university buildings. Added reference to UL 268 and Section 907.2.11.7 for smoke alarms and detectors.

907.3.3.1 Hoistway fire detection. New section requiring automatic fire detection methods in accordance with NFPA 72 where required by Title 8 and Section 3003.4.3.

907.5.2.3.1 Public and common use areas. Added more specific examples where strobes shall be provided.

Chapter 10 – Means of Egress

Office of the State Fire Marshal

Multiple sections and tables. Removed reference to I-2.1.

1010.1.1 Size of doors, 1011.2 Width and capacity, Table 1017.2 (footnote a), 1026.4.1 Capacity. Added ambulatory care facility.

1010.2.4 Locks and latches. Added R-2.1 occupancy.

1010.2.13.1 Delayed egress locking system. Delete model code language and added a pointer to existing requirements for automatic sprinklers and fire detection in I-2 occupancies.

Table 1020.2 Corridor fire resistance rating. Added R-2.2 to occupancies.

Chapter 11A – Housing Accessibility

Department of Housing and Community Development

1136A.1 Receptacle heights. Clarifies depth of cabinets/countertops beneath a control or switch.

1136A.2 Switch and control heights. Clarifies depth of cabinets/countertops beneath a control or switch.

1138A.3.2 Side reach. Clarifies depth of cabinets/countertops beneath a control or switch.

Chapter 11B – Accessibility to Public Buildings, Public Accommodations, Commercial Buildings and Public Housing

Division of the State Architect

213.3.1 Toilet and urinal compartments. Added references for different combinations of available compartments.

233-3-1-2-1 Elevator buildings. Added requirements and exceptions for residential buildings with elevators.

605.4 Flush controls. Clarified location of urinal flush control.

605.5.4 Toe clearance. Clarification of language due to full height walls and partitions.

Chapter 12 – Interior Environment

Board of State and Community Corrections

Multiple sections. Changed “inmate” and other related words to “incarcerated” persons, adults or juveniles. Changed “segregation” to “separation.” Changed “bed unit” to “bunk fixture.” Expanded requirements for exercise areas.

Department of Housing and Community Development

1202.3.5.1. Repealed “no insulation” allowance for HCD 1 and HCD 2 occupancies.

Department of Health Care Access and Information (Office of Statewide Hospital Planning and Development – OSHPD)

1224.1 Scope [OSHPD 1]. Added reference to new section 1229 for chemical dependency recovery hospitals.

1224.3 Definitions. Clarified Patient Room and added definition of Treatment Room.

1224.4.4.4.1. and 1224.4.4.4.2. Replaced “medicine” with “medication.”

1224.4.4.8.1 Staff toilets. Removed reference to CPC Table 4-3.

Table 1224.4.6.1 Station outlets for oxygen, vacuum and medical air. Added Class 2 and Class 3 imaging rooms, and procedure rooms to table.

1224.4.7.1 Corridor width. Removed “psychiatric care” and added “stretchers” to exception language.

1224.4.7.3 Outpatient services. Added corridor/hallway width of six feet for facilities caring for non-ambulatory outpatients.

1224.4.9.2 Windows and screens. Operation and sills. In the exception, changed “intensive care units” to “special nursing care area,” and added that sill height does not apply to certain rooms.

Table 1224.4.11. Acceptable ceiling and carpet locations. Added “sterile core” to surgical units.

Table 1224.4.11.4a. ...Room classification. Added low-risk needle-based procedures that do not require a sterile field” to Class 1 imaging room.

1224.14.2.16 Patient toilet room(s). Changed “shall” to “should.”

1224.15.3.1 Control station. Added language that staff locker rooms may be provided at a location with alternative controlled access.

1224.18.3.1 CT scanning space required. Amended language so that clearance at the rear of the equipment is only as required for service.

1224.19.2.1.1.1, 1224.19.2.1.3.1, 1224.019.3.2.2.1, 1224.19.3.3.2.1 and 1224.19.3.3.3.1 Size. Repealed minimum area of 120 square feet. Renumbered following affected sections or reserved.

1224.19.3.2.3.6, 1224.19.3.2.4.3, 1224.19.3.3.2.3, 1224.19.3.3.3.6 and 1224.19.3.3.4.3 Finishes. Added “work surfaces.” Added requirement for caulking of inlaid ceiling panels.

1224.24.1. Morgue and autopsy facilities. Amended to range of 50 to 99 beds, with exception.

1224.24.2. New section for facilities with 100 or more beds, with no exception.

1224.24.3(1). Added scrub sink to minimum requirements.

1224.29.2.5 Intensive care units. Control station. Added direct access to gowning in code language.

1224.32.4.2 LDR and LDRP facilities. Space requirements. Added language requiring space for infant resuscitation per 1224.32.3.5.

1224.33.2.7.1 Standby emergency medical service. Behavioral health observation area. Added new section for behavioral health observation areas.

1224.33.3.15. Staff lounge. Removed language relative to lockers, showers, toilets and handwashing stations.

1224.33.3.16. Staff clothing change areas. New section with requirements for lockers, showers, toilets and handwashing stations. Following sections renumbered.

1224.33.4.2(1), (2) and (3). Fast-track area. Amended space requirements and station amenities. Separated handwashing statement from (2) to (3) and renumbered remaining items.

1224.34.1.2.2(3) and 1224.34.1.2.3(2) Control room. Added “is required based on the physicist’s report...” to the section language.

1224.34.1.2.3(1) SPECT facilities. Added clearance requirements for multi-bay scanner rooms.

1224.35.2(1) Physical therapy service space. Added clarifying text to code language.

1225.4.1.6.3 Bathroom facilities. Removed “minimum of one bathtub per floor.”

1225.5.1.2.5 Operation and sills. New section with requirements for window sills and location of tools or keys to operate windows. Following sections renumbered.

1226.6.1.3.4 Imaging. Grammatical edits for language clarity.

1226.8.2.12 Housekeeping room. Changed section reference.

1228.2 Application. Added additional code section references for acute psychiatric hospitals and units.

1228.3 Definitions. Added new definition for TAMPER RESISTANT.

1228.4.9.1.1.1 Windows and screens. Added translucent film may be used for privacy.

1228.4.9.3. Clarified minimum net glazed area that shall be provided for observation from nurse station.

1228.13.2, 1228.13.3 and 1228.13.4 Psychiatric rehabilitation spaces. Added “where provided” to code text.

1228.14.1.2 Psychiatric nursing space requirements. Added “inclusive of beds” to clear floor area requirements.

1228.14.2.5 Exam and treatment room. Added new code section reference.

1228.24.1. Morgue. Amended to range of 50 to 199 beds, with exception.

1228.24.2. New section for facilities with 200 or more beds, with no exception.

1228.24.3. Renumbered and changed code section reference.

1229 [OSHPD 6] Chemical dependency recovery hospitals (formerly Reserved). Added new sections with all new definitions and requirements for chemical dependency recovery facilities.

Chapter 14 – Exterior Walls

Department of Housing and Community Development

1404.3 Vapor retarders. Repealed measures for HCD 1 and HCD 2 occupancies required in Energy Code to avoid duplication.

1404.3.2 Class III Vapor retarders. Repealed measures for HCD 1 and HCD 2 occupancies required in Energy Code to avoid duplication.

Chapter 15 – Roof Assemblies and Rooftop Structures

Office of the State Fire Marshal

1505.1 General. Added reference to Section 1505.6 for shingles and shakes.

1505.1.1 Roofing requirements within FHSZ or WUI. Repealed existing amendments and added new language pointing to Section 705A.

1505.1.2 Roof coverings within all areas other than FHSZ or WUI. Added “...other than FHSZ and WUI.”

1505.5 Nonclassified roofing. Added clarifying language.

1505.6 Fire-retardant-treated wood shingles and shakes. Added reference standard ASTM E108 or UL 790.

Chapter 16 – Structural Design

Department of Health Care Access and Information (Office of Statewide Hospital Planning and Development – OSHPD)

1605.2 Alternative allowable stress design load combinations. Removed “B” from OSHPD 2.

1617A.1.4 Modifications to ASCE 7. Added exceptions for cantilever column systems to subsection G.1 for OSHPD 1 and OSHPD 4.

ASCE 7 Section 13.1.4.6(a) Interim equipment [OSHPD 1, 2, 4 and 5]. Amended existing modification and added two new modifications allowed for supports and attachments for interim equipment.

ASCE 7 Section 13.1.4.7 Other equipment [OSHPD 1, 2, 4 and 5]. Separated item (c) into (c) and (d) for clarity. Renumbered following section.

1617A.1.41 Peer review. Added exception that OSHPD may perform peer review when qualified staff is available.

Chapter 17 – Special Inspections and Tests

Department of Health Care Access and Information (Office of Statewide Hospital Planning and Development – OSHPD)

1705.14.3.1 Special seismic certification [OSHPD 1R, 2 and 5]. Added clarifying introduction text and section reference. Subsections 1 and 2 amended accordingly.

1705.14.3.1.3. Added new subsection listing alternate power systems.

Chapter 17A – Special Inspections and Tests

Division of the State Architect and Office of Statewide Hospital Planning and Development

1703A.1.1 Independence (of approved agency). Added language to clarify independence from other inspection services as well as the contractor(s).

1704A.5.1. Repealed and reserved.

Chapter 18 – Soils and Foundations

Office of Statewide Hospital Planning and Development

Multiple sections Removed “B” from OSHPD 2.

Chapter 19 – Concrete

Office of Statewide Hospital Planning and Development

Multiple sections. Removed “B” from OSHPD 2.

1901.3.4.5 Test acceptance criteria. Amended language for testing apparatus.

Chapter 19A – Concrete

Division of the State Architect

1905A.1.9 Amendments to renumber sections and correct formatting.

Chapter 21 – Masonry

Office of Statewide Hospital Planning and Development

Multiple sections. Removed “B” from OSHPD 2.

Division of the State Architect

2115.7 Compressive strength, f'_m . Added specs for concrete masonry and clarified existing specs are for clay masonry.

Chapter 21A – Masonry

Division of the State Architect and Office of Statewide Hospital Planning and Development

2104A.1.3.1 TMS 602, Article 3.2.F Cleanouts. New language provided (DSA & OSHPD).

2104A.1.3.11 Reinforced hollow-unit masonry. Added “reinforced” to clarify type of hollow-unit masonry.

2105A.2 Compressive strength, f'_m . Added specs for concrete masonry and clarified existing specs are for clay masonry.

2107A.6 and 2108A.4 Masonry compressive strength. Removed language that's now in 2105A.2.

Chapter 23 – Wood

Division of the State Architect

2301.1.4 Prohibition. Added cross-laminated timber to the list of materials not permitted, unless approved as an alternative system.

2304.10.2.1. Removed “B” from OSHPD 2.

Chapter 30 – Elevators and Conveying Systems

Office of the State Fire Marshal

3008.1.4 Operation. Removed reference to ASME A17.1/CSA B44 and added reference to Title 8.

Chapter 35 – Referenced Standards

Division of the State Architect and Office of the State Fire Marshal

ASME A17.1. Adopted the model code text for ASME A17.1-2019/CSA B44-19. This will make clear to code users that for certain sections of the code, the latest edition is adopted. The California amendment referring to the edition as referenced in Title 8 is applied to those code sections that are applicable to elevators.

Office of the State Fire Marshal

ASTM E108. Adopted the latest edition (2020a).

NFPA 13. Made corrections to NFPA 13-22 California amendments that were missed during the triennial code adoption cycle.

NFPA 24, NFPA 409. Adopted the latest editions (2022).

UL 790. Adopted the latest edition (2022).

Office of Statewide Hospital Planning and Development

Updated **reference standard 501.4-18** for OSHPD 1 and 4, Section 7.2.5.

CALIFORNIA RESIDENTIAL CODE – PART 2.5

Chapter 1 – Scope and Administration

Office of the State Fire Marshal

Specified state-occupied buildings. Removed University of California buildings from list item number eight. Deleted language delegating enforcement to local jurisdictions.

Chapter 3 – Building Planning

Office of the State Fire Marshal

Multiple sections. Corrected the term Wildland-Urban Interface (WUI) used in the text to correlate with the definition of WUI.

R328.5 Energy ratings. Provided the clear intent of the maximum threshold of kWh of ESS for each location on a property by amending language and providing a new **Table R328.5 Maximum Aggregate Ratings of ESS** with footnotes.

R337.1.2 Purpose. Added acronym for State Responsibility Areas (SRA) and new term Local Responsibility Areas (LRA)

R337.5.1 General and R337.5.2 Roof covering voids. Amended roofing provisions for Fire Hazard Severity Zones in line with CBC amendments.

R337.7.5, R337.7.6, R337.7.7, R337.7.8 and R337.10.2 for fascia and architectural trims. Deleted exceptions.

337.11 Model ordinance for fire severity zone adoption. Added a new model ordinance template for jurisdictions to use.

Chapter 9 – Roof Assemblies

Office of the State Fire Marshal

R902.1 Roof covering materials. Exceptions. Added materials to Exception number two.

R902.1.1 Roof requirements within FHSZ or WUI. Repealed existing amendments and added new language pointing to Section R337.5.

R902.1.2 Roof coverings in all areas other than FHSZ or WUI. Added “...other than FHSZ or WUI.”

R902.2 Fire-retardant-treated wood shingles and shakes. Added reference standard ASTM E108 or UL 790.

Chapter 44 – Referenced Standards

Office of the State Fire Marshal

ASTM E108. Adopted the latest edition (2020a).

UL 790. Adopted the latest edition (2022).



CALIFORNIA ELECTRICAL CODE – Part 3

Article 89 – General Code Provisions

Office of the State Fire Marshal

Specified state-occupied buildings. Added list of specified state-occupied buildings, and updated authority and reference sections.

Chapter 2 – Wiring and Protection

Office of Statewide Hospital Planning and Development

Wiring and Protection, Article 220 Branch-circuit, Feeder and service load calculations.

220.1 Scope. Added pointer to Part VI for health care facilities.

Part VI. Health care facilities. Added new section with requirements for OSHPD 1, 2, 3, 4 and 5.

Chapter 5 – Special Occupancies

Office of Statewide Hospital Planning and Development

517.1(B) Scope. Added new section for OSHPD 2. Renumbered following sections.

517.1(C) Electrical Equipment Schedules. Removed OSHPD 4 from occupancies.

517.2 Definitions. Added microgrid, life-saving equipment and oxygen-generating devices definitions.

517.13(C) and (D). New sections for grounding system and receptacle testing, with referenced to NFPA 99.

517.20 Wet procedure locations. Added text that operating rooms are wet procedure locations unless otherwise determined.

517.20(A)(3). Added measures for OSHPD 1, 3 and 4 for GFCI protection.

517.30(B.1). New section for OSHPD 1, 3, 4 and 5 for power sources for the Essential Electrical System (EES) and repealed unnecessary language.

517.30(B)(1) Generating units. Subparagraphs stricken because no longer needed.

517.30(B)(4) Health care microgrid. New section added for EES.

517.31(E) Receptacle identification. Removed “light switches” from the section.

517.35(B)(6) Equipment for delayed automatic or manual connection. Clarified that minimal autoclaving equipment (at least one per building) shall be required to be connected to the emergency branch of the facility’s EES. This is to fix confusing language in the model code.

517.41(B.1) Power sources for the EES. Amended to provide four alternatives for the EES, including a microgrid. Model code language repealed. Changed exception to informational note.

517.42(E) Receptacle identification. Removed light switches from code text.

517.42(F) Coordination. Added new code section to address overcurrent protective devices serving the EES. Includes exceptions.

517.44(A)(1)a Added that receptacles are not required for psychiatric patient beds [OSHPD 5].

517.45(F) Receptacle identification [OSHPD 3]. Removed light switches and added “critical or life safety branches” to replace “emergency system.”

517.160(B)(4) Isolated power systems. Testing. Added NFPA 99 testing reference sections.

Chapter 6 – Special Equipment

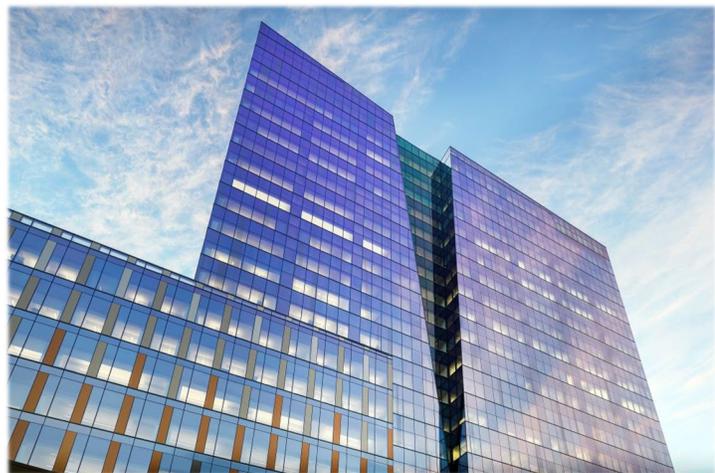
Office of Statewide Hospital Planning and Development

695.3(G) Power source selection. Added OSHPD 3 (surgical clinics) and OSHPD 5 to the section.

Chapter 7 – Special Conditions

Office of Statewide Hospital Planning and Development

705.20(8) Disconnection means, source. Added new language to clarify the location of the disconnecting means.



CALIFORNIA MECHANICAL CODE – PART 4

Chapter 1 – Scope and Administration

Office of the State Fire Marshal

1.11.1 Any State Institution or Other State-Owned or Specified State-Occupied Building. Added list of specified state-occupied buildings, and updated authority and reference sections.

Chapter 2 – Definitions

Office of the State Fire Marshal

Added new definitions:

Refrigerant

Refrigerant Concentration Limit (RCL)

Modified: Refrigerant Safety Classifications. Added Class 2L to flammability class list and defined in flammability classification list.

Chapter 3 – General Regulations

Office of the State Fire Marshal

307.3 Heat pump and electric cooling appliances. Added a new requirement to labeling for refrigerant designation on heat pump/cooling appliances.

307.4 Absorption units. Added a new requirement to labeling for refrigerant designation on absorption units.

Office of Statewide Hospital Planning and Development

320.1.1 Essential mechanical provisions. [OSHPD 1, 1R, 4 & 5]. Updated language to include adiabatic atomizing type humidifiers and to comply with water treatment requirements with ASHRAE 170.

323.0 Mechanical equipment schedules. [OSHPD 1, 1R, 2, 4 & 5] Amended language for clarity to indicate the requirement applies to both essential power and special seismic certification.

324.0 Diesel-Powered emergency generators. [OSHPD 1, 1R, 2, 3, 4 & 5] Added new section for a separation distance for diesel-powered generators exhaust to operable doors, windows and outside air intake openings.

325.0 Alternate source of power for safe temperatures. [OSHPD 2] Added a new section for alternate source of power for mechanical equipment to maintain a safe temperature.

Chapter 4 – Ventilation Air

Office of Statewide Hospital Planning and Development

402.1.2 Ventilation in Health Care Facilities. [OSHPD 1, 1R, 2, 3, 4 & 5]

Added/modified requirement for ASHRAE 170 Section 6.3.1.2. regarding the relief air discharge shall be at least 10 feet from outside air intake.

407.1.2 Ventilation System Details. [OSHPD 1, 1R, 2, 3, 4 & 5] Fans serving exhaust systems shall have ductwork within the building under negative pressure.

407.2.1 Outdoor Air Intakes. [OSHPD 1, 1R, 2, 3, 4 & 5] Modified to clarify requirements for outside air intakes located below grade areaway.

407.4.1.1 Air Circulation. [OSHPD 1, 1R, 2, 3, 4 & 5] Repeal nurseries and added class 3 imaging for a new room type added to California building code.

408.1.5 Filters. [OSHPD 1, 1R, 2, 3, 4 & 5] Modified exception regarding humidification to add a referenced section number.

408.4.2 Filters for Outpatient Facilities. [OSHPD 1, 1R, 2, 3, 4 & 5] Modified to add recirculating filter provisions for clinic spaces with a MERV 6.

Table 4-A PRESSURE RELATIONSHIP AND VENTILATION REQUIREMENTS FOR GENERAL ACUTE CARE HOSPITALS, SKILLED NURSING FACILITIES, INTERMEDIATE CARE FACILITIES, CORRECTIONAL TREATMENT CENTERS, OUTPATIENT FACILITIES, AND LICENSED CLINICS. Modified Table and footnotes.

Table 4-B FILTER EFFICIENCIES FOR CENTRAL VENTILATION AND AIR-CONDITIONING SYSTEMS IN GENERAL ACUTE CARE HOSPITALS, ACUTE PSYCHIATRIC HOSPITALS, OUTPATIENT FACILITIES AND LICENSED CLINICS. Modified Table and footnotes. Increase minimum MERV rating for selected spaces.

Table 4-C FILTER EFFICIENCIES FOR CENTRAL VENTILATION AND AIR-CONDITIONING SYSTEMS IN SKILLED NURSING FACILITIES AND INTERMEDIATE CARE FACILITIES AND CORRECTIONAL TREATMENT CENTERS. Modified Table and footnote. Increase minimum MERV rating for selected spaces.

Chapter 6 – Duct Systems

Office of the State Fire Marshal

609.1 Air-moving systems and smoke detectors. Modified the location within the main supply-air duct, the detection of smoke, downstream of both fan and filters for interruption of the power source to the automatic shutoff of the air-moving equipment. Modified **exception** number one.

609.1.1 Duct smoke detectors. Relocated existing language from the charging paragraph of CMC Section 609.1 to add new Section 609.1.1 adding additional smoke detection requirements for high-rise buildings with occupied floors located more than 75 feet above the lowest level of building access.

609.2 Air-moving systems and smoke detectors in Group I-2. reinstated provisions in the charging paragraph that last appeared in the 1992 California Mechanical Code that require automatic shutoff of return air systems.

Chapter 11 – Refrigeration

Office of the State Fire Marshal

SFM has early adopted model code language (sections, Tables and figures) related to **A2L Refrigerants** from the 2024 Uniform Mechanical Code (UMC). The newly adopted 2024 UMC and modified sections of the 2022 California Mechanical Code are:

1103.1.1, Table 1103.1.1, Table 1104.1, 1104.2, 1104.4 - 1104.9.4, 1105.1, 1105.12.1, 1106.2, 1106.2.2 - 1106.2.9.1, 1106.4 - 1106.11.11.4, Figure 1106.11.11.4(1), Figure 1106.11.11.4 (2), 1107.1.7.1 - 1107.1.7.3, 1107.1.9, 1108.3, 1108.4, 1112.11.1 and 1115.5.

Chapter 13 – Fuel Gas Piping

Office of the State Fire Marshal

1301.1 Applicability. Added language to require that fuel oil piping connected to internal combustion engines and gas turbines be installed in accordance with NFPA 37.

Chapter 16 – Stationary Power Plants

Office of the State Fire Marshal

1602.0, 1602.1, 1602.1.1, 1602.2. Amended to add liquid fueled engines and gas turbines to the subject matter of Section 1602.0

Chapter 17 – Reference Standards

Office of the State Fire Marshal

Amended referenced section numbers AHRI 700-2017a
Adopted the latest edition of ASHRAE 15 and 34 (2022).
Adopted the latest edition of NFPA 37-2018
Adopted the latest edition of NFPA 409-2022
Adopted the latest edition of UL 60335-2-40–2022
Adopted the latest edition of UL 60335-2-89-2021

CALIFORNIA PLUMBING CODE – PART 5

Chapter 1 – Scope and Administration

Office of the State Fire Marshal

1.11.1 Any State Institution or Other State-Owned, or Specified State-Occupied Buildings. Added list of specified state-occupied buildings, and updated authority and reference sections.

Chapter 2 – Definitions

Office of Statewide Hospital Planning and Development

Modified: Handwashing fixture. Added plus or minus 5 degrees to the gooseneck spout return allowance.

Building Standards Commission and Division of the State Architect

Added new definition:

Privacy Compartment.

Chapter 3 – General Regulations

Office of Statewide Hospital Planning and Development

310.9 Prohibited fittings and practices. [OSHPD 1, 2, 3, 4 & 5] Added compounding ante and buffer rooms to list of rooms as sensitive area for drainage piping.

321.0(8) Essential plumbing provisions. [OSHPD 1, 2, 3, 4 & 5] Added domestic hot water high temperature alarm to list of equipment that must have electrical power during a power outage.

Chapter 4 – Plumbing Fixtures and Fixture Fittings

Office of Statewide Hospital Planning and Development

422.1 Fixture count. Repealed “Table 4-3” from the text; Table 4-2 provides fixture counts based on healthcare facilities. Modified charging paragraph for the reference regarding plumbing fixtures for Table 4-2 for OSHPD 1, 2, 3, 4 & 5.

422.1.4. Family or assisted-use toilet or bathing facilities. Removed extraneous language.

Table 4-2 Minimum Plumbing Facilities. Updated Table with additional rooms, requirements and footnotes to reflect existing and updated code language.

Building Standards Commission and Division of the State Architect

422.1.1 Fixture Calculations. Modified fixture calculations to allow multi-user all gender facilities and added a substitution of a water closet for each urinal.

422.2 Separate facilities. New exception for separate facilities for rooms designed for use by all genders and water closets installed in privacy compartment. Added the requirements for a privacy compartment.

Chapter 6 – Water Supply and Distribution

Building Standards Commission and Department of Housing and Community Development

604.2 Lead content. Added reference to Health and Safety Code for maximum lead content of pipes, pipe or plumbing fittings and/or fixtures that convey/dispense water for human consumption.

Department of Housing and Community Development

601.2.1, 601.2.1.1, 601.2.1.2, 601.2.2 Renumbered the sections regarding submeters.

610.5 Sizing per appendices A and M. Added alternative method - Appendix M.

Building Standards Commission, Department of Housing and Community Development and Office of Statewide Hospital Planning and Development

605.9.1 Fittings. Removed the year 2009 from the NSF 14 referenced standard.

Office of Statewide Hospital Planning and Development

613.0 Domestic hot water distribution systems. [OSHPD 1, 2, 3, 4 & 5] Removed OSHPD 1R from the occupancies list.

613.2 Domestic hot water distribution systems. Added new **exception** that a single water heating equipment shall be permitted for primary care and non-specialty clinics where equipment is limited to handwashing fixtures.

614.1 Dialysis water distribution systems. [OSHPD 1, 2, 3, 4 & 5] Modified to added PEX or other material deemed acceptable by AAMI RD 62 to allowed dialysis water feedline materials.

615.4.1 Emergency water supply. [OSHPD 1] Changed CBC section reference.

Chapter 7 – Sanitary Drainage

Office of Statewide Hospital Planning and Development

727.1 Emergency Sanitary Drainage. [OSHPD 1] Changed CBC section reference.

Chapter 12 – Fuel Gas Piping

Office of the State Fire Marshal

1201.1 Applicability. Amended to add the reference standard NFPA 37 that is specific to internal combustion engines and gas turbines.

Chapter 15 – Alternate Water Sources for Nonpotable Applications

California Building Standards Commission and Department of Housing and Community Development

1501.9.1 and 1501.9.2. Removed “reclaimed (recycled) water” from the regulation text.

Chapter 17 – Reference Standards

Office of the State Fire Marshal

Adopted the latest editions of NFPA 37 and NFPA 409.

Amended NSF 14-2018 to add referenced section number.

Appendix A – Sizing the Water Supply System

Department of Housing and Community Development

A103.1 Supply Demand. Added exception to allow use of calculations in Appendix M.

Appendix M – Peak Water Demand Calculator

Department of Housing and Community Development

M101.1 Applicability. Clarifies appendix provides an *alternative* method.

Table M102.1 Flow rates. Amends flow rates and removes requirement for an energy star label.



CALIFORNIA FIRE CODE – PART 9

All amendments to Part 9 are made by the Office of the State Fire Marshal.

Chapter 1 – Scope and Administration

Specified state-occupied buildings. Added list of specified state-occupied buildings, and updated authority and reference sections.

Chapter 2 – Definitions

Flammable Gas. Divided into two categories – 1A and 1B.

Group B, Business. Deleted reference to Group I-2.1.

High-hazard Group H-2. Added flammable gas categories 1A and 1B.

High-hazard Group H-3. Added flammable gas category 1B.

Group I, Institutional. Deleted reference to Group I-2.1.

Non-patient-care Suite. Deleted reference to Group I-2.1.

Proximate Audience. Deleted the reference to NFPA 1123, as it is not adopted by the State Fire Marshal. Refer to Chapter 56 instead.

Lodging Houses. Errata to correct California Residential Code section reference.

Chapter 4 – Emergency Planning and Preparedness

405.2 Occupant participation & 405.5 Time. Deleted reference to I-1 and replaced with R-2.1.

Chapter 5 – Fire Service Features

510.4.2 System design & 510.5 Installation requirements. Replaced the discontinued NFPA 1221 with the newest publication for Emergency Radio Response Communication Systems, NFPA 1225-22 edition

Chapter 6 – Building Services and Systems

605.4 Fuel oil storage systems. Amended to identify that the installation of fuel oil storage and piping systems connected to combustion engines and gas turbines are included within the scope of the section.

605.4.1 Fuel oil storage in outside, above-ground tanks. Amended to provide direction to the appropriate requirements (Chapter 57) for the installation of above-ground tanks connected to building heating systems *or combustion engines and gas turbines*.

605.4.2.3 Restricted use and connection. Amended to provide direction to the appropriate requirements (NFPA 30 and NFPA 31) for the installation of above-ground tank fuel oil connections to building heating systems *and generators or fire pumps*.

605.4.2.5 Installation. Amended to identify the appropriate standards (NFPA 31 and NFPA 37) that regulate the installation of fuel oil storage and piping systems connected to building heating systems, combustion engines and gas turbines.

605.4.3 Underground storage of fuel oil. Amended to further distinguish the requirements for underground tank fuel oil storage for building heating systems from the requirements that apply to combustion engines and gas turbines.

Chapter 8 – Interior Finish, Decorative Materials and Furnishings

Table 803.3, Sections 804.3.3.2, 807.5.3, 807.5.3.3, 807.5.3.4. Table and sections amended to delete reference to Group I-2.1.

805.2.1.2 and 805.4.1.2 Heat release rate. Updated reference to California Technical Bulletins 116 and 117, instead of 133.

808.1 Wastebaskets and linen containers in Group I-2 and I-3 occupancies and Group B ambulatory care facilities. Deleted reference to Group I-1 and replaced with Group R-2.1.

Chapter 9 – Fire Protection and Life Safety Systems

Sections 903.2.1.2, 903.2.1.3, 903.2.3, 903.2.7. Corrected "... fire walls of less than 4-hour fire resistance rating..." to say "...fire walls of *not* less than 4-hour fire resistance rating..."

903.2.8.3 Group R-4. Corrected for missed existing California amendment in the triennial cycle. Remove Condition 2 to correlate with CBC.

903.3.2 Quick-response and residential sprinklers. Deleted language that is not needed for I-2 occupancies. An existing amendment to the California Mechanical Code already prohibits installation of gas fireplace appliances. Section is reserved.

Sections 907.2.6.2, 907.2.13, 907.5.1.1, 907.5.2.2, 907.5.2.3. Deleted reference to Group I-2.1.

907.2.9.3 Group R-2 college and university buildings. Deleted reference to Group I-2.1 and repealed the exception. Added referenced to UL 268 and Section 907.2.11.7.

907.3.3.1 Hoist way fire detection. New section to clarify the need for detection to remain in the hoist way for the activation of recall for elevator emergency operation. Included reference to Title 8.

907.5.2.3.1 Public use areas and common use areas. Added more specific examples of where strobes shall be provided.

Sections 907.5.2.5, 909.5.3, 909.5.3.1. Deleted reference to Group I-2.1.

Table 911.1 Explosion control requirements. Amended to coordinate with the requirements for flammable gas.

Chapter 10 – Means of Egress

Sections 1003.2, 1003.3, 1003.3.1, 1003.3.3.1, 1003.5, 1006.2.1, Table 1006.3.4(2), 1008.3.2, 1010.1.1, 1010.1.1.1, 1010.1.2, 1010.2.9, 1011.2, Table 1017.2, 1019.3, 1019.4, 1020.2, Table 1020.2, 1020.5, 1022.3, 1026.4.1. Deleted reference to Group I-2.1. Added “ambulatory care facility” and Group R-2.2 where appropriate.

1010.2.13.1 Delayed egress locking system. Deleted model code language and added a pointer to existing requirements for automatic sprinklers and fire detection in I-2 occupancies when delayed egress is installed.

Chapter 11 – Construction Requirements for Existing Buildings

1103.9 Carbon monoxide detection. Deleted reference to Group I-1.

1103.7.3 and 1103.7.3.1. Deleted reference to Group I-2.1.

1105.12 Group I-2 separations between construction areas. Added new California amendment regarding keeping areas of construction separate from occupied portions of the building.

Chapter 12 – Energy Systems.

1203.1.3.1 Combustion engines and gas turbines. Added reference to CBC Section 442 and NFPA 37.

1207.11.4 Energy ratings. Provided the clear intent of the maximum threshold of kWh of ESS for each location on a property.

Table 1207.11.4 Maximum Aggregate Ratings of ESS. Added a new table, with footnotes, related to the amended language.

Chapter 27 – Semiconductor Fabrication Facilities

This chapter is adopted by SFM.

Chapter 33 – Fire Safety During Construction and Demolition

3305.9.1 Group I-2 separations. Reference to new requirements in Chapter 11.

3307.2.1 Pipe cleaning and purging. Exceptions. Added new exception #4 referring to California Mechanical Code and coordinating with the change in the definition of flammable gas.

Chapter 49 – Requirements for Wildland Urban Interface Areas

Sections 4901.1, 4902, 4904.1, 4904.2, 4904.3, 4904.3.1, 4904.3.2, 4905.3.

Corrected the term Wildland-Urban Interface (WUI) used in the text to correlate with the definition of WUI. Updated the reference to the State Fire Marshal as the agency responsible for designating Fire Severity Zones.

4911 Model Ordinance for Fire Severity Zone Adoption. Adopt a model ordinance that provides for the establishment of fire hazard severity zones pursuant to the Government Code Section 51179.

Chapter 50 – Hazardous Materials – General Provisions

5003.1.1 Maximum allowable quantity per control area. Exception. Added a compliance path between the California Fire Code and NFPA 99 for Group I-2 occupancies to allow for medical gases stored and used for patient care.

Table 5003.1.1(1), Table 5003.1.1(3), Sections 5003.8.3.5, 5003.8.3.5.4, 5003.11, 5003.11.1, 5003.11.2, 5003.11.1.1, 5003.11.1.1.1, 5003.11.1.1.2, 5003.11.1.1.3, 5003.11.1.1.4, 5003.11.1.1.5, 5003.11.1.1.6, 5003.11.1.1.7, 5003.11.1.1.8, 5003.11.1.1.9, 5003.11.1.1.10, 5003.11.1.1.11, 5003.11.2, Table 5003.11.2, Section 5003.11.2.1

Amendments to coordinate with the change in the definition of flammable gas, including section renumbering and new language related to Category 1B.

Chapter 57 – Flammable and Combustible Liquids

5704.2 Tank storage. Amended to provide two exceptions when the storage of flammable and combustible liquids in tanks is not regulated by Section 5704.2.

Chapter 80 – Reference Standards

Adopted the latest editions of ASHRAE 15, ASTM E108, UL 790, NFPA 24, NFPA 409, NFPA 495, California Technical Bulletins 116 and 117 and 22-18 Standard for Water Tanks for Private Fire Protection.

Repealed the California amendment to NFPA 1124-17 edition.

Replaced NFPA 1221 with the newest edition of NFPA 1225-22.

NFPA 13-22 Standard for Installation of Sprinkler Systems as amended. Added existing California amendments and non-adoption (reserved) that were missed during the 2021 triennial cycle.



CALIFORNIA EXISTING BUILDING CODE – PART 10

Chapter 1 – Scope and Administration

Building Standards Commission

1.1.11 Format. Amended to delete a paragraph that is not applicable anymore about chapters that are not printed in the code but may be available for adoption by local ordinances.

Office of the State Fire Marshal

Specified state-occupied buildings. Amended definition of specified state-occupied buildings.

Chapter 3 – Provisions for All Compliance Methods

Office of the State Fire Marshal

308.1 Carbon monoxide detection. Deleted the reference to Group I-1 and deleted the exceptions.

Building Standards Commission and Division of the State Architect

317.2 Scope. Clarified that Section 317 applies to structurally connected additions while additions that are not structurally connected to existing structures shall be designed in accordance with the provisions for new buildings in the California Building Code.

Division of the State Architect

319.1.5 Public schools. Clarifies use of wood products in diaphragms and shear walls.

Chapter 3A – Provisions for All Compliance Methods

Office of Statewide Hospital Planning and Development

301A.5 Compliance with accessibility. Repealed and reserved.

304A.3.5.2 ASCE 41 Section 2.4 Seismic Hazard. New section modifying the ASCE requirements for response spectra and acceleration time histories with reference to sections in the California Building Code.

304A.3.5.5 ASCE41 Section 7.5.1. Amended the exception to the drift limitations acceptance criteria with reference to the California Administrative Code.

307A Smoke alarms and 308A Carbon monoxide detection. Added new sections to contain references to the California Building Standards Code, Title 24 of the California Code of Regulations. Relocated from Sections 502A.7 and 502A.8.

312A.3 Establishing eligibility for removed from general acute care service.
Amended Item 5 to clarify requirements for structural separation, fire walls and fire barriers.

Chapter 5 – Prescriptive Compliance Method

Office of the State Fire Marshal

503.15 Refuge areas. Deleted reference to Group I-1.

Chapter 5A – Prescriptive Compliance Method

Office of Statewide Hospital Planning and Development

502A.6 Enhanced classroom acoustics. Repealed.

502A.7 Smoke alarms and 502A.8 Carbon monoxide alarms. Relocated to Sections 307A and 308A.

503A.16 Enhanced Classroom acoustics and 503A.17 Locking arrangements in educational occupancies. Repealed and reserved.

503A.19 Smoke alarms and 503A.20 Carbon monoxide alarms. Relocated to Sections 307A and 308A.

Chapters 6 through 11 and 13

Chapters 6 through 11 and 13 of the 2021 International Existing Building Code, which have not been printed in the California Existing Building Code before, will be printed in the supplement pages to the 2022 California Existing Building Code with new California amendments as shown below.

Chapter 6 – Classification of Work

Office of the State Fire Marshal

Adopted Chapter 6 with amendments listed below.

Building Standards Commission and Office of the State Fire Marshal

Multiple sections. Deleted references to Chapter 12 of the International Existing Building Code and clarified application of the California Historical Building Code (Part 8 of Title 24) to qualified historical buildings or properties.

601.1 Scope. Added exceptions to prohibit the use of Chapters 6 through 11 in certain occupancies.

Chapter 7– Alterations—Level 1

Office of the State Fire Marshal

Adopted Chapter 7 with amendments listed below.

702.7.1 International Fuel Gas Code. Deleted this section as International Fuel Gas Code is not adopted in California.

Section 703 Fire Protection. Added new Sections 703.2, 703.2.1, 703.2.2, 703.3 to address existing California regulations for fire alarms and detection and referred to the appropriate sections in the California Building and Fire Codes to safeguard the existing buildings during construction.

Sections 704.1.1 and 707. Deleted the sections that address Institutional Group I occupancies to be consistent with scoping limitations in Chapter 6.

Building Standards Commission and Office of the State Fire Marshal

701.1 Scope. Deleted references to Chapter 12 of IEBC and clarified application of the California Historical Building Code (Part 8 of Title 24) to qualified historical buildings and structures.

708 Energy conservation. Deleted energy conservation sections to eliminate possible conflict with the California Energy Code (Part 6 of Title 24).

Chapter 8 – Alterations—Level 2

Office of the State Fire Marshal

Adopted Chapter 8 with amendments listed below.

802.2.1 Existing vertical openings. Replaced the word ‘three’ with ‘two’ in Exceptions 6 and 7 to correctly reflect existing California code regulations on the number of stories that can be connected by vertical openings, and reserved Exceptions 4, 8, 10 and 11.

803 Fire Protection. Amended and/or repealed Sections 803.2, 803.3, 803.4 to eliminate possible conflicts with existing California laws and regulations and provided reference to the California Building and Fire Codes. Added new section 803.4.1 to address existing California regulations for fire alarms and detection.

804 Means of egress. Deleted references to Institutional Group I and High-hazard Group H occupancies in multiple subsections to be consistent with scoping limitations in Chapter 6.

804.4.1.2 Fire escapes required and 804.4.1.2.1 Fire escape access and details. Amended to be consistent with current California regulations regarding fire escapes.

804.5.3 Door closing. Deleted Exception #2.

804.5.4.1 Supplemental requirements for panic hardware. Deleted Exception.

804.6.1 Corridor doors. Amended to eliminate conflict with existing California regulation and reserved Exception #2 as the Guidelines on Fire Ratings of Archaic Materials and Assemblies (Resource A) are not adopted in California.

804.6.2 Transoms. Amended to include all occupancies within the scope limitations in Chapter 6 and to eliminate conflicts with existing California regulations.

804.10 Handrails. Amended this section to accommodate deletion of Section 804.10.1 to eliminate qualifying language and prevent unintended consequences that could be deleterious to the life safety of occupants.

Sections 806.2, 806.3 and 808. Amended/reserved/deleted these sections to be consistent with scoping limitations in Chapter 6.

Building Standards Commission

809 Energy conservation. Deleted energy conservation sections to eliminate possible conflict with the California Energy Code (Part 6 of Title 24).

Chapter 9 – Alterations—Level 3

Office of the State Fire Marshal

Adopted Chapter 9 with amendments listed below.

Sections 902.1 High-rise buildings with subsections.

Amended/reserved/removed to be consistent with scoping limitations proposed in Chapter 6.

Section 902.2 Boiler and furnace equipment rooms. Removed this section to avoid conflicts with the CBC Table 509.1 and CFC Table 1105.4.

Section 904.1 Automatic sprinkler systems with subsections. Amended/deleted to eliminate possible conflicts with existing California laws and regulations and provide reference to the California Building and Fire Codes.

Section 904.2 Fire alarm and detection systems. Amended to eliminate possible conflicts with existing California laws and regulations and provide reference to the California Fire Code. Section 904.2.1 added to address systems out of service.

Building Standards Commission

907 Energy conservation. Deleted energy conservation sections to eliminate possible conflict with the California Energy Code (Part 6 of Title 24).

Chapter 10 – Change of Occupancy

Office of the State Fire Marshal

Adopted Chapter 10 with amendments listed below.

Sections 1002.3, 1002.4, 1007.1, 1009.5 and Table 1011.5. Deleted/amended to be consistent with scoping limitations proposed in Chapter 6.

Section 1011.2.1 Fire sprinkler system. Amended to remove exceptions and substitute the list of allowed separations with the fire wall.

Section 1011.2.2 Fire Alarm and detection system. Amended to eliminate possible conflicts with existing California laws and regulations and provide reference to the California Fire Code.

Section 1011.5.2 Means of egress for change of use to an equal or lower-hazard category. Deleted the words “because of existing construction” as it is vague and leaving it in place could result in unintended compromises to occupant and first responder life safety.

Sections 1011.5.4 Handrails and 1011.5.5 Guards. Amended to remove qualifying words.

Section 1011.8.2 Stairways. Amended as wired glass in steel frame is not permitted in one-hour fire-resistance-rated construction by current California regulations.

Building Standards Commission

1006.3 Seismic loads. Removed exception #3.

Chapter 11 – Additions

Office of the State Fire Marshal

Adopted Chapter 11 with amendments listed below.

Section 1101.1 Scope. Add language to be consistent with existing California regulations.

Section 1102.2 Area limitations. Deleted the exception as it does not contain any limit on the area or other aspects of scope for this exception, thus it may have unintended consequences and unduly compromise life safety.

Section 1102.4 Systems out of service. Added new section to address existing California regulations for fire alarm and detection systems.

Building Standards Commission

1104 Energy conservation. Deleted energy conservation sections to eliminate possible conflict with the California Energy Code (Part 6 of Title 24).

Chapter 13 – Performance Compliance Methods

Office of the State Fire Marshal

Chapter title note. Amended note under the chapter title to provide reference to Section 104.11 for consideration of alternative means of compliance.

CALIFORNIA GREEN BUILDING STANDARDS CODE – PART 11

Chapter 2 – Definitions

Building Standards Commission (BSC), Division of the State Architect (DSA), Department of Housing and Community Development (HCD)

Added new definitions related to voluntary BIRD-FRIENDLY BUILDING DESIGN regulations (BSC)

2 X 2 RULE Practice of applying visual markers no more than two inches apart to be the most effective in deterring bird collisions with glass.

ADHESIVE MARKER and FILM Methods of applying visual markers used as bird collision deterrents on glass surfaces.

ACID ETCHED and FRITTED GLASS Visual markers applied to the glazing surface during the manufacturing process.

GLASS SURFACE Exterior-vision glass surface that is the first surface where visual markers are usually applied.

MATURE TREE CANOPY The top of mature trees or vegetation typical of a region.

ULTRAVIOLET (UV) Electromagnetic radiation on the first surface of glass with wavelengths visible to birds.

VISUAL MARKER Markers applied to different glazing surfaces to form a pattern, solid shape, or other treatment visible to birds.

Added new definitions related to mandatory and voluntary CARBON REDUCTION regulations (BSC, DSA)

BUY CLEAN CALIFORNIA ACT (BCCA) A California Public Contract Code requirement targeting carbon emissions associated with various building materials.

CRADLE-TO-GATE and CRADLE-TO-GRAVE Building life cycle assessment methods used in accordance with International Organization for Standardization (ISO) standards.

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD), FACTORY-SPECIFIC EPD, INDUSTRY-WIDE EPD (IW-EPD), PRODUCT-SPECIFIC EPD
Third-party verified reports that summarize how different products impact the environment.

REFERENCE STUDY PERIOD The period of use for the building, in years, that will be assumed for life cycle assessment.

Added and amended definitions related to mandatory and voluntary ELECTRIC VEHICLE CHARGING regulations (BSC, DSA, HCD)

ELECTRIC VEHICLE (EV) CHARGER (BSC and HCD) BSC co-adopted existing HCD definition for off-board charging equipment.

ELECTRIC VEHICLE CHARGING STATION (EVCS) (BSC, DSA and HCD) BSC and DSA adopted and amended existing HCD definition.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) (BSC, DSA and HCD) Amended definition to include personnel protection system.

LEVEL 1 ELECTRIC VEHICLE (EV) CHARGING RECEPTACLE (DSA) New definition.

LEVEL 2 ELECTRIC VEHICLE (EV) CHARGER (BSC and HCD) New definition.

LEVEL 2 ELECTRIC VEHICLE SUPPLY EQUIPMENT (BSC, DSA and HCD) BSC and DSA adopted existing HCD definition.

LOW POWER LEVEL 2 ELECTRIC VEHICLE (EV) CHARGING RECEPTACLE (BSC, DSA and HCD) BSC and DSA adopted and amended existing HCD definition.

Chapter 3 – Green Building

Division of the State Architect

301.4 Mandatory measures for public schools and community colleges

Added new subsections **301.4.2.5** and **301.4.2.6** to reference specific sections for alterations and additions to existing parking facilities and buildings under DSA's authority.

Chapter 4 – Residential Mandatory Measures

Department of Housing and Community Development

4.106.4 EV charging for new construction

Simplified language for clarity.

4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities

Repealed the reference to future EV charging spaces as actual installation of EVSE is required now. Renumbered and amended subsections.

4.106.4.2.1 Multifamily development projects

Repealed and reserved.

4.106.4.2.2 Multifamily dwellings, hotels and motels

Repealed requirements for EV capable spaces. Amended to add/increase requirements for receptacles and EV-ready parking spaces at hotels, motels and multifamily parking facilities.

Required EV charging receptacles in multifamily parking facilities to be provided with a dedicated branch circuit connected to the dwelling unit's electrical panel, with certain exceptions, and receptacle configuration requirements to follow NEMA standards.

For hotels, motels and multifamily parking facilities, specified use of J1772 connectors for at least 50 percent of the required EV chargers. Clarified the use of automatic load management systems (ALMS).

4.106.4.2.2.1.1 EVCS spaces with EV chargers installed; dimensions and location

Repealed former section 4.106.4.2.2.1.1 about location and combined language with Section 4.106.4.2.2.1.2 and renumbered it, so there is only one section covering both dimensions and location.

4.106.4.2.2.1.2 Accessible electric vehicle charging station spaces

Renumbered and amended to clarify language.

4.106.4.2.3 and 4.106.4.2.4

Repealed and reserved.

4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings

Amended for clarity and to specify identification of service panel or subpanel circuit panel directory spaces for overcurrent protective devices as "EV capable."

Chapter 5 – Nonresidential Mandatory Measures

Building Standards Commission (BSC) and Division of the State Architect (DSA)

Added new CARBON REDUCTION regulations. BSC and DSA co-adopted mandatory measures applicable to existing and new construction.

5.105 Deconstruction and reuse of existing structures.

This section was formerly "Reserved." New sections are listed below.

5.105.1 Scope. (BSC, DSA) For alterations and additions to existing buildings:

Occupancies under BSC authority – Effective July 1, 2024, floor area is 100,000 square feet or greater; effective January 1, 2026, the floor area shall be 50,000 square feet or greater.

Occupancies under DSA authority – Floor area is 50,000 square feet or greater.

Specified that one of three carbon reduction compliance pathways must be utilized: Building Reuse, Whole Building Life Cycle Assessment, or Product Global Warming Potential (GWP) Compliance Prescriptive Path. **Exceptions** apply under certain conditions when combined areas of alterations or additions to existing buildings do not meet compliance requirements.

5.105.2 Reuse of existing building and 5.105.2.1 Verification of compliance (BSC, DSA) When an existing building undergoes an alteration or addition, a minimum of 45 percent of primary structural elements and enclosure shall be reused. Documentation shall be provided in the construction documents.

5.401.1 Scope (BSC, DSA)

Amended to include language regarding the installation of products with lower GHG emissions.

5.409 Life cycle assessment

This section was formerly “Reserved.” New sections are listed below.

5.409.1 Scope (BSC, DSA) For new buildings and alterations and additions to existing buildings:

Occupancies under BSC authority – Effective July 1, 2024, floor area is 100,000 square feet or greater; effective January 1, 2026, the floor area shall be 50,000 square feet or greater.

Occupancies under DSA authority – Floor area is 50,000 square feet or greater.

Specified that one of two carbon reduction compliance pathways must be utilized for new buildings: Whole Building Life Cycle Assessment (Section 5.409.2), or Product Global Warming Potential (GWP) Compliance Prescriptive Path (Section 5.409.3). For alterations and additions to existing buildings, Building Reuse, the third compliance pathway is also available.

5.409.2 Whole building life cycle assessment (BSC, DSA)

Added compliance pathway that shall demonstrate a minimum 10 percent reduction in global warming potential (GWP). Compliance software and data sets to be compliant with ISO or EN standards. Subsections 5.409.2.1, 5.409.2.2 and 5.409.2.3 provide specific requirements for building components, reference study period and verification of compliance.

5.409.3 Product GWP compliance – prescriptive path (BSC, DSA)

Added compliance pathway wherein each permanently installed product listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific. Subsections 5.409.3.1 and 5.409.3.2 provide specific requirements for GWP values and verification of compliance. **Exception** and Exception EQUATION allows for concrete to be considered one product category with weighted average of the maximum GWP of all concrete mixes installed in the project and specifying that industry wide EPDs are acceptable.

Table 5.409.3 Product GWP limits (BSC, DSA)

Indicated categories of BCCA products and concrete conforming to maximum GWP values and units of measurement for each product type.

5.410.2 Commissioning [N] New buildings 10,000 square feet and over (BSC)
Repealed Informational Note #1 regarding IASAC 476 commissioning accreditation criteria, and renumbered subsections.

Added and amended ELECTRIC VEHICLE (EV) CHARGING regulations (BSC).

5.106.5.3 Electric vehicle (EV) charging

BSC amended for clarity. DSA relocated existing co-adopted language in this section and related sub-sections into a new schools-specific Section 5.105.5.6.

5.106.5.3.2 Electric vehicle charging stations (EVCS)

Amended to clarify EVSE, Level 2 and DCFC requirements.

5.106.5.3.2.1

Amended to allow for DCFCs to be substituted on a 1 to 5 ratio for both EV capable spaces (already allowed) or independently Level 2 EVSEs.

5.106.5.3.2.2

Added new section to allow for Low Power Level 2 receptacles to be substituted for EV capable spaces without EVSE on a 2 to 1 ratio.

5.106.5.3.5 Electric vehicle charging station signage

Added new subsection to replace a “note” in Section 5.106.5.3.4 regarding signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.3.6 Electric vehicle charging stations power allocation method

Added the power allocation method and associated Table 5.106.5.3.6 as an alternative compliance pathway based on power in kVA.

TABLE 5.106.5.3.6

Added table indicating total number of actual parking spaces, minimum kVA values for power allocated to individual spaces, and total kVA values required for installed EV infrastructure.

5.106.5.4 Additions or alterations to existing buildings or parking facilities

Added new regulations for qualifying additions and alterations to existing buildings or parking facilities.

5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty

Amended this section with subsection 5.106.5.5.1 and Table 5.106.5.5.1 to include EV charging readiness requirement for office buildings and manufacturing facilities.

Added and amended ELECTRIC VEHICLE (EV) CHARGING regulations (DSA). DSA relocated and amended EV charging requirements previously co-adopted with BSC for specific occupancies, buildings and parking facilities under DSA's authority.

Section 5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges

Relocated existing EV charging requirements in Section 5.106.5.3 and related sub-sections into a new schools-specific Section 5.105.5.6 and related sub-sections. Amended existing language and added new sub-sections for clarity.

5.106.5.6.3 EVCS alternative compliance

Added alternative method of compliance based on power in kVA with associated Table 5.106.5.6.3.

5.106.5.6.4 EVCS for alterations of or additions to parking facilities

New requirements to add EV chargers to addition and/or alteration projects.

Chapter 6 – Referenced Organizations and Standards

Building Standards Commission (BSC) and Division of the State Architect (DSA)

Table 601.1

Amended to add reference standards included in new and amended regulations.

Chapter 8 – Compliance Forms, Worksheets and Reference Material

Building Standards Commission (BSC) and Division of the State Architect (DSA)

Added new worksheets WS-3 through WS-9 to be used in conjunction with new mandatory and voluntary CARBON REDUCTION regulations.

WORKSHEET (WS-3) 5.105.2 Building Reuse (BSC and DSA)

WORKSHEET (WS-4) Section 5.409.2 Whole Building Life Cycle Assessment (BSC and DSA)

WORKSHEET (WS-5) Section 5.409.3 Product GWP Compliance – Prescriptive Path (BSC and DSA)

WORKSHEET (WS-6) Section A5.105.2 Building Reuse Tier 1 And Tier 2 (BSC only)

WORKSHEET (WS-7) Section A5.409.2 Whole Building Life Cycle Assessment (BSC only)

WORKSHEET (WS-8) Section A5.409.3 Product GWP Compliance – Prescriptive Path (BSC only)

WORKSHEET (WS-9) Section 5.409.2 and Section A5.409.2 Whole Building Life Cycle Assessment (BSC and DSA)

Appendix A4 – Residential Voluntary Measures

Department of Housing and Community Development

Voluntary Tier 1 and Tier 2 measures. Amended and updated related sections to correlate with corresponding mandatory EV charging measures, including checklists.

Appendix A5 – Nonresidential Voluntary Measures

Building Standards Commission (BSC)

New voluntary CARBON REDUCTION regulations

A5.105 Deconstruction and Reuse of Existing Structures

Repealed Section A5.105.1 with all subsections and adopted new sections listed below.

A5.105.1 Scope

Added to describe projects with area limits specified for alterations or additions that can achieve Tier 1 or Tier 2 compliance. Exceptions for certain additions to existing buildings.

A5.105.2 Reuse of existing building

A5.105.2.1 Tier 1 and **A5.105.2.2 Tier 2.** Added to describe minimum Tier 1 and Tier 2 requirements for alterations and additions to existing buildings.

A5.105.2.3 Verification of compliance. Added with note pointing to WS-6 in Chapter 8 to assist in documenting compliance.

A5.405.2 Bio-based materials

A5.405.2.1 (formerly “Reserved”) **Certified Wood Components – Sustainability Standards** Added to require use of at least 50 percent of permanently installed wood products to be certified and labeled in compliance with the accepted principles of sustainable forest management.

A5.405.5 Cement and concrete

Amended to clarify compliance with A5.405.

A5.405.5.2.1 Supplementary cementitious materials (SCM)

Added #8 to specify permitted use of Ground-Glass Pozzolan per ASTM C1866/C1866M. Renumbered former #8 to #9.

A5.405.5.2.1.1 Mix design equation – Exception

Amended to clarify that high early strength shall be defined as outlined in ACI CT.

A5.405.5.3 Additional means of compliance

Repealed.

A5.405.5.3 (formerly A5.405.5.3.2) Concrete manufacture

Amended to add engineer of record since they are responsible for approving the alternate concrete manufacturing techniques.

A5.405.5.3.2.1 Alternative energy

Repealed.

A5.405.5.3.1 Recycled aggregates

Amended to clarify source origins of recycled concrete aggregate (RCA) or crushed concrete aggregate (CCA) when used in concrete manufacturing.

A5.405.5.3.4 Later ages of maturity

Added to allow longer age of maturity for concrete as long as it is in compliance with ASTM C 31 and 39.

A5.405.5.3.5 Returned fresh concrete

Added to allow the use of returned fresh concrete in compliance with ASTM C1798/C1798M or Caltrans Section 90-9.

A5.409 Life Cycle Assessment

A5.409.1 Scope

Repealed existing section A5.409.1 General. Added new requirements to achieve Tier 1 or Tier 2 compliance and adopted new sections listed below.

A5.409.2 Whole building life cycle assessment

Added new requirements to meet Tier 1 and Tier 2 reductions in global warming potential (GWP) in sections **A5.409.2.1 Tier 1** and **A5.409.2.2 Tier 2**. Compliance software and data sets specified to be compliant with ISO or EN standards. Verification of compliance requirements and reference to WS-7 added in section A5.409.2.3.

A5.409.3 Materials and system assemblies

Repealed.

A5.409.3 Product GWP compliance – prescriptive path

Added prescriptive pathway where each permanently installed product listed in Table A5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific. Subsections A5.409.3.1 and A5.409.3.2 provide specific requirements for GWP values and verification of compliance.

Exception and Exception EQUATION allows for concrete to be considered one product category with weighted average of the maximum GWP of all concrete mixes installed in the project and specifying that industry wide EPDs are acceptable.

TABLE A5.409.3 Product GWP Limits TIER 1 AND TIER 2

Added to provide values and categories for product GWP compliance – prescriptive path.

A5.409.4 Substitution for prescriptive standards

Repealed.

A5.409.4 (formerly A5.409.2) Whole building life cycle assessment of additional impacts

Renumbered and amended to correlate with corresponding changes to the mandatory and voluntary requirements for whole building life cycle assessment compliance methods.

A5.409.2.1 Building components

Repealed.

A5.409.4.1 (formerly A5.409.2.2) Impacts to be considered

Amended the list of factors impacting WBLCA to delete climate change (greenhouse gases) and renumbered the list.

A5.409.5 Verification of compliance

Repealed.

New voluntary ELECTRIC VEHICLE (EV) CHARGING regulations

A5.106.5.1 Designated parking for clean air vehicles

Amended language from fuel-efficient to high-efficient.

A5.106.5.1.3 Future charging spaces

Added new section to clarify that future EV charging spaces qualify as designated parking.

A5.106.5.3 Electric vehicle (EV) charging [N]

A5.106.5.3.1 Tier 1

Amended and added new paragraph referencing permitted use of DCFC to substitute for both EV capable and Level 2 EVSE.

A5.106.5.3.2 and A5.106.5.3.4 EV charging stations (EVCS) – Power allocation method

Added Tier 1 and Tier 2 alternatives to the requirements for EV capable spaces.

Table A5.106.5.3.2 Tier 1 and Table A5.106.5.3.4 Tier 2

Added tables for EV capable spaces and power allocation method calculations.

A5.106.5.3.3 Tier 2

Renumbered (formerly A5.106.5.3.2) and amended to clarify requirements.

Table A5.106.5.3.3 Tier 2

Renumbered (formerly Table A5.106.5.3.2 Tier 2) and amended to clarify requirements.

New voluntary BIRD-FRIENDLY BUILDING DESIGN regulations

A5.107 Bird-friendly building design

Added new section to provide uniform bird-friendly building design guidelines for glazing, building-integrated structures, and overall building and site design that designers and developers can use to reduce bird collisions with buildings. Includes management methods to reduce bird collisions at nighttime.

OTHER amended voluntary regulations

A5.106.11 Reduction of heat island effect.

A5.106.11.3 Shade trees

Added new voluntary regulations for shade trees to reduce heat island effect in the absence of a local shade tree ordinance. When applied, this section refers users to DSA's mandatory **Section 5.106.12 Shade trees**.

CHECKLISTS

A5.601, A5.602

Updated the Nonresidential Verification Guidelines, and the Mandatory Measures, Tier 1, and Tier 2 Checklists to correspond with new code sections and amendments.